

# QUALITY DRILLING TOOLS



**HAMMER DRILL BITS**



**CHISEL**



**PERCUSSION DRILL BITS**



**METAL DRILL BITS**



**WOOD DRILL BITS**



**SAWS**

**PRODUCT AND SERVICE CATALOGUE**

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# QUALITY FROM PROS FOR PROS

Professional drill bits for professional users. Our highly qualified employees have been developing and producing drill bits for more than 50 years. The aim: The satisfaction of our customers! This is why products from KEIL should always exceed the highest demands with regard to durability and work results. Customer proximity is hereby especially important to us. Our success is based on cooperation as partners and reliability. The medium-sized structure of Keil also provides enormous flexibility and speed – even when it comes to implementing special solutions. Our technicians and service staff would be pleased to provide you with advice and assistance!

**QUALITY – SERVICE – CUSTOMER SATISFACTION  
WE LOOK FORWARD TO A SUCCESSFUL COOPERATION.**



# SAFETY

## IN ANY CASE SAFETY IS DEMANDED!



Among others you can identify quality drilling tools by the quality mark of the independent ‚Prüfgemeinschaft Mauerbohrer‘ (PGM). KEIL is a member of the founding board of the PGM (in 1978) and is authorized to use this mark. This quality mark guarantees the conformity of our drill bits with the requirements of the German Institute for Structural Engineering (DIBt) concerning drilling holes for anchors and plugs to be fixed in concrete and brick work with general building supervision admission or a European technical admission (ETA). Violation by non-qualified manufacturers is legally prosecuted.

## WHAT DOES THE PGM MARK STAND FOR?



- Selected qualified manufactures.
- Production and quality assurance state-of-the-art supervised by PGM.
- Clear marking instructions.
- Strict tolerance limits for the diameter, the symmetry of the carbide tip and the out-of-true variation

## ADVANTAGES AND GUARANTEE



- Protect yourself against possible problems and claim for compensation which could result from the product liability law. In the event of a claim also the distributor could be held responsible, if the manufacturer or importer of a masonry drill bit without PGM-mark cannot be identified.
- Drill bit tolerances are balanced to the requirements of modern high performance plugs with European or National allowances and guarantee appropriate installation and anchor fixing of the plugs.
- These criteria are controlled constantly, therefore, they offer the distributor and the end user, safety and confidence in the tool.

**FOR FURTHER INFORMATION PLEASE VISIT  
[WWW.PGM-ONLINE.DE](http://WWW.PGM-ONLINE.DE)**

## DIN EN ISO 9001



In addition to perfected production processes, quality assurance is of great importance. Inspection of incoming materials, intermediate checks, final checks and regular drilling and testing under extreme conditions provide new knowledge resulting in assurance and improvement of procedure as well as materials.

## FWI



The association FWI represents the interests of approx. 160 German tool manufacturers. It offers its members with German production the possibility of using the registered mark „Made in Germany - Deutsches Werkzeug“.

## THE NEXMART SPECIALISED TRADE PLATFORM



You have the possibility to purchase KEIL quality drilling tools via Europe's leading business platform. Permanently updated articles of the entire KEIL assortment are available 24 hours a day on nexMart.net and can be ordered online. nexMart is the independent specialized trade platform which is run and refined mutually by industry and trade. Realizing economical advantages for all members is the most important target of nexMart. Using nexMart can reduce costs of processes along the entire value added chain. Accelerate, simplify and improve your ordering processes considerably- KEIL and nexMart make it possible!

**FOR MORE INFORMATION PLEASE VISIT:  
WWW.NEXMART.NET**

# FOR USE IN



## HAMMER DRILL BITS



## CHISELS



## STONE AND SPECIAL DRILL BITS



## HSS DRILL BITS



## WOOD DRILL BITS

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| SDS-plus hammer drill bit KEILRAPID                          | 22      |       | 256           |
| SDS-max W2 TURBOHEAD Xpro / TURBOKEIL X-Form                 | 23-26   |       | 270           |
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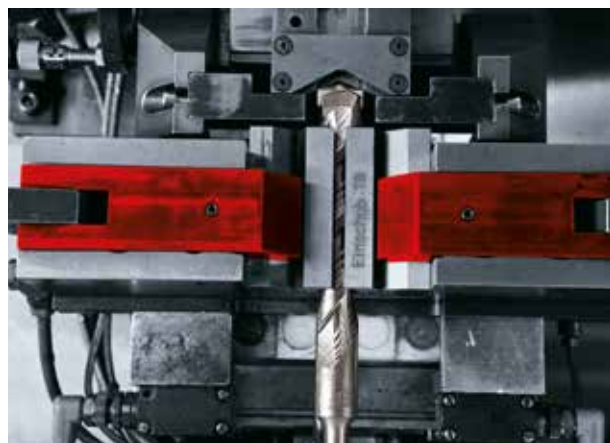
# KEIL QUALITY DRILLING TOOLS

TESTED AND APPROVED

KEIL drilling tools are made with greatest care. Our R & D and QM works together with independent institutes and universities. Our products are made of best tempered tool steel. The carbide plate is precisely adapted for the intended use and of best quality.

Our production is located in Germany and tools are manufactured by experienced professionals. Processes such as inert gas high-temperature brazing up to 1120° C, austempering and shot-peening ensure a long tool life.

**PAY ATTENTION TO  
PRODUCTS WITH THIS SIGN!**





# HAMMER DRILL BITS

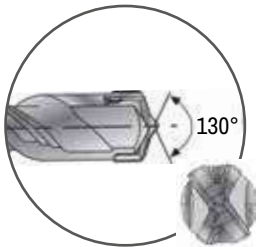
PROFESSIONAL WORK MEANS ECONOMICAL WORK



|  |       |
|--|-------|
| 251   SDS-plus MS5 TURBOHEAD Xpro                  | 12-15 |
| 252   SDS-plus W2 TURBOKEIL X-Form                 | 16    |
| 253   SDS-plus MS5 TURBOKEIL                       | 17-20 |
| 255   SDS-plus MS5 VARIO                           | 21    |
| 256   SDS-plus hammer drill bit KEILRAPID          | 22    |
| 270   SDS-max W2 TURBOHEAD Xpro / TURBOKEIL X-Form | 23-26 |
| 272   SDS-max TURBOCLEAN extraction drill bit      | 27    |
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| 269   SDS-max concrete milling cutter              | 29    |
| 259   Break-through core drill bit                 | 31    |
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| 259   Adapters with Ratio thread                   | 34    |
| 265   Adapter for SDS-plus                         | 36    |
| 264   SDS-plus locating shanks for chucks          | 37    |

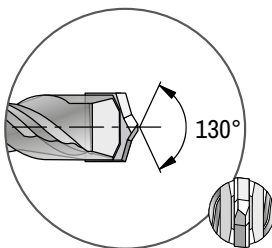
# HAMMER DRILL BITS

KEIL hammer drill bits are applicable for hardest materials. No matter if brick work, armed concrete, natural stone or artificial stone - our drill bits drill a geometrically exact hole in all kinds of material.



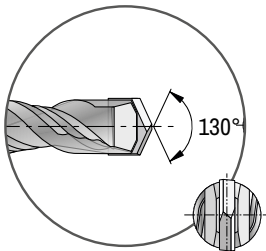
## SDS-PLUS MS5 TURBOHEAD XPRO

Innovative X-head design with 4 cutting edges for fast and professional work. The reinforced steel resistant hammer drill bit guarantees a high drilling speed as well as low abrasion. The special head-geometry allows optimum pilot drilling and a fast removal of drilling dust as well as remarkably less friction in the drilling hole which results in less development of heat and a low power input for the machine.



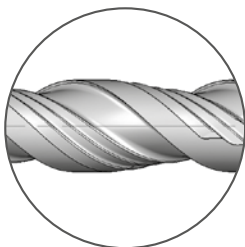
## SDS-PLUS MS5 TURBOKEIL

The professional hammer drill bit generation can be used for hardest material in all hammer drilling machines. The TURBOKEIL drill bit with its centering tip does not even stop on armouring iron. Clean drilling holes can be made.



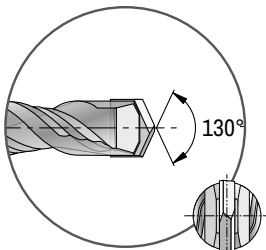
## SDS-PLUS MS5 VARIO

The SDS-plus VARIO is equipped with the classical carbide plate and is available in all current measurements.



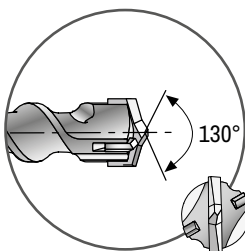
## MS5 HELIX

The MS5 flute drills considerably faster than a normal flute. It has a longer service life and reduces the swinging and torsion forces caused during the hammer drilling. Therefore no jam of drilling dust occurs. It has a faster drilling speed and transfers the impact energy in an optimal way. The reinforced core and the rounded gradual transitions offer much more breaking strength.



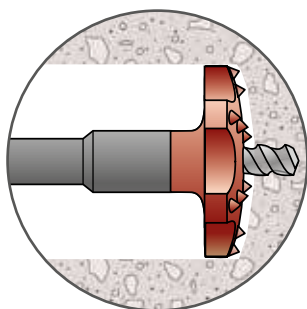
## SDS-PLUS KEILRAPID

The reliable entry-level drill bit for all concrete and masonry applications.



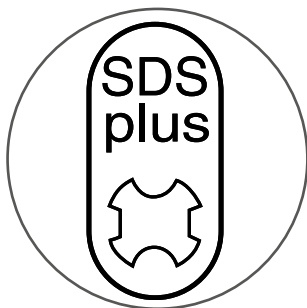
## HAMMER DRILL BIT TURBOKEIL X-SHAPE

The symmetric X-shape of the 4-cutter drills provides exact and accurate holes and protects the drill bit of damage when it hits armouring iron. Its head construction minimizes the friction in the drilling hole.



## SYSTEM 259

Due to its stable construction the system 259 is suitable for highest demands. It is made of tempered steel and has extremely impact resistant carbide studs which have a high cut resistance. The high temperature brazing is made at 1,120° C in a two step special process.



## SDS-PLUS

The SDS-plus shaft is directly fitting into all hammer drilling machines with the SDS-plus and Hilti TE-C tool locking. The SDS-plus shaft is especially suitable for smaller drill bits and plug holes.



## SDS-MAX

The SDS-max shaft is directly fitting into all hammer drilling machines with the SDS-max and Hilti TE-Y tool chuck. The SDS-max shaft is especially suitable for big drilling diameters and break through.



## QUALITY MARK

The PGM quality mark stands for a high-quality product manufactured in a controlled and certified production. Drill bits with this seal drill geometrically exact holes. KEIL is a founding member of the PGM and is authorized to carry this seal - for more than 25 years.

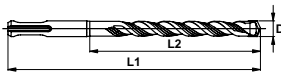


## LOW HAND-ARM-VIBRATION

If a person is continuously exposed to strong mechanical vibrations, this can have negative effects on his health. The operation of hammer drilling machines causes this kind of vibration. With specific design modifications we develop and optimise our quality products continuously in order to minimize the vibrations caused by the drilling tool.

**Comment: Please take notice of „Guidelines 2002/44/EG“ for the maximum acceptable working period!**

# SDS-PLUS MS5 TURBOHEAD XPRO | 251



## DRIVE



## EXECUTION



- Made of tempered steel, shot-peened and intermediate level hardened
- TURBOHEAD Xpro head with centering tip
- TURBOHEAD Xpro with innovative 4-cutting-edge concept
- MS5 flute with reinforced core

## FOR USE IN



## APPLICATION

- Fits directly into all hammer drilling machines with SDS-plus and HILTI TE-C drive
- For drilling plug holes
- Particularly suitable for fastenings
- Adapters for SDS-plus [36]

## PACKAGING

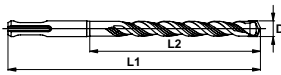


### Comments

- More dimensions of the 4-cutter with X-shape on request
- For a working length of 400 mm and more, pre-drilling must be carried out to a depth of at least 150 mm with a drill bit of the same diameter.

| D<br>Ø mm | D<br>Ø " | L2<br>mm | L1<br>mm |    | EAN<br>4016707... |             |
|-----------|----------|----------|----------|----|-------------------|-------------|
| 5,0       | 3/16     | 50       | 110      | 10 | 902000            | 251 050 110 |
| 5,0       | 3/16     | 100      | 160      | 10 | 902017            | 251 050 160 |
| 5,0       | 3/16     | 150      | 210      | 10 | 902024            | 251 050 210 |
| 5,0       | 3/16     | 200      | 260      | 10 | 914553            | 251 050 260 |
| 5,5       | 7/32     | 50       | 110      | 10 | 912641            | 251 055 110 |
| 5,5       | 7/32     | 100      | 160      | 10 | 912634            | 251 055 160 |
| 5,5       | 7/32     | 150      | 210      | 10 | 912627            | 251 055 210 |
| 5,5       | 7/32     | 200      | 260      | 10 | 912757            | 251 055 260 |
| 6,0       | 15/64    | 50       | 110      | 10 | 902031            | 251 060 110 |
| 6,0       | 15/64    | 100      | 160      | 10 | 902048            | 251 060 160 |
| 6,0       | 15/64    | 150      | 210      | 10 | 902055            | 251 060 210 |
| 6,0       | 15/64    | 200      | 260      | 10 | 902062            | 251 060 260 |
| 6,5       | 1/4      | 100      | 160      | 10 | 904622            | 251 065 160 |
| 6,5       | 1/4      | 160      | 210      | 10 | 904639            | 251 065 210 |
| 6,5       | 1/4      | 200      | 260      | 10 | 904646            | 251 065 260 |
| 6,5       | 1/4      | 250      | 310      | 1  | 914560            | 251 065 310 |
| 8,0       | 5/16     | 50       | 110      | 10 | 902109            | 251 080 110 |
| 8,0       | 5/16     | 100      | 160      | 10 | 902116            | 251 080 160 |
| 8,0       | 5/16     | 150      | 210      | 10 | 902123            | 251 080 210 |
| 8,0       | 5/16     | 200      | 260      | 10 | 902130            | 251 080 260 |
| 8,0       | 5/16     | 250      | 310      | 1  | 904653            | 251 080 310 |
| 8,0       | 5/16     | 300      | 360      | 1  | 904660            | 251 080 360 |
| 8,0       | 5/16     | 400      | 460      | 1  | 904677            | 251 080 460 |
| 10,0      | 3/8      | 100      | 160      | 10 | 902154            | 251 100 160 |
| 10,0      | 3/8      | 150      | 210      | 10 | 902161            | 251 100 210 |
| 10,0      | 3/8      | 200      | 260      | 10 | 902178            | 251 100 260 |
| 10,0      | 3/8      | 250      | 310      | 1  | 902185            | 251 100 310 |
| 10,0      | 3/8      | 310      | 360      | 1  | 904684            | 251 100 360 |
| 10,0      | 3/8      | 400      | 460      | 1  | 902208            | 251 100 460 |
| 10,0      | 3/8      | 540      | 600      | 1  | 914577            | 251 100 600 |
| 12,0      | 15/32    | 100      | 160      | 10 | 902215            | 251 120 160 |
| 12,0      | 15/32    | 150      | 210      | 10 | 902222            | 251 120 210 |
| 12,0      | 15/32    | 200      | 260      | 10 | 902239            | 251 120 260 |
| 12,0      | 15/32    | 250      | 310      | 1  | 902246            | 251 120 310 |
| 12,0      | 15/32    | 400      | 450      | 1  | 902253            | 251 120 450 |
| 12,0      | 15/32    | 540      | 600      | 1  | 914584            | 251 120 600 |
| 14,0      | 17/32    | 100      | 160      | 10 | 902260            | 251 140 160 |
| 14,0      | 17/32    | 150      | 210      | 10 | 902277            | 251 140 210 |
| 14,0      | 17/32    | 200      | 260      | 10 | 902284            | 251 140 260 |
| 14,0      | 17/32    | 250      | 310      | 1  | 904691            | 251 140 310 |
| 14,0      | 17/32    | 400      | 450      | 1  | 902291            | 251 140 450 |
| 14,0      | 17/32    | 540      | 600      | 1  | 914591            | 251 140 600 |

# SDS-PLUS MS5 TURBOHEAD XPRO | 251



## DRIVE



## EXECUTION



- Made of tempered steel, shot-peened and intermediate level hardened
- TURBOHEAD Xpro head with centering tip
- TURBOHEAD Xpro with innovative 4-cutting-edge concept
- MS5 flute with reinforced core

## FOR USE IN



## APPLICATION

- Fits directly into all hammer drilling machines with SDS-plus and HILTI TE-C drive
- For drilling plug holes
- Particularly suitable for fastenings
- Adapters for SDS-plus [36]

## PACKAGING



[141]


[141]

[160]

### Comments

- More dimensions of the 4-cutter with X-shape on request
- For a working length of 400 mm and more, pre-drilling must be carried out to a depth of at least 150 mm with a drill bit of the same diameter.

| D<br>ø mm | D<br>ø " | L2<br>mm | L1<br>mm |   | EAN<br>4016707... | V12345      |
|-----------|----------|----------|----------|---|-------------------|-------------|
| 16,0      | 39/64    | 100      | 160      | 1 | 904707            | 251 160 160 |
| 16,0      | 39/64    | 150      | 210      | 1 | 904714            | 251 160 210 |
| 16,0      | 39/64    | 200      | 260      | 1 | 904721            | 251 160 260 |
| 16,0      | 39/64    | 400      | 450      | 1 | 904738            | 251 160 450 |
| 16,0      | 39/64    | 540      | 600      | 1 | 914607            | 251 160 600 |
| 18,0      | 11/16    | 200      | 250      | 1 | 914614            | 251 180 250 |
| 18,0      | 11/16    | 400      | 450      | 1 | 914737            | 251 180 450 |
| 20,0      | 49/64    | 200      | 250      | 1 | 914744            | 251 200 250 |
| 20,0      | 49/64    | 400      | 450      | 1 | 914751            | 251 200 450 |
| 20,0      | 49/64    | 550      | 600      | 1 | 914768            | 251 200 600 |



### VIBRATION PROTECTION

Low vibration load of the „hand-arm-system“ by means of highly reduced vibration (see page 11).

According to the European guideline EU-Vibrationsrichtlinie 2002/44/EG for vibration protection.




form follows function

**TURBOHEAD Xpro**

# TURBOHEAD XPRO

SUITABLE FOR HARDEST MATERIALS



- The TURBOHEAD Xpro is resistant against armed concrete and cuts reinforcement without problems.
- The dual setting depth of the full carbide head ensures maximum safety.
- The 2 x 2 cutting concept prevents of locking in the reinforcement.
- The drilling hole is always exactly cylindrical even in armed concrete as the forward motion is not being deviated.
- Low vibration load of the „Hand-Arm-System“ by considerably reduced vibration (according to EU-vibration guideline 2002/44/EG for protection of vibration).
- The MS5 spiral allows ergonomic and ecological work flow (see p.20).



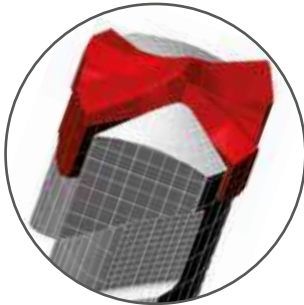
## TURBOHEAD Xpro

- Resistant against reinforced concrete
- Considerably less friction
- Faster removal of drill dust and optimum start of drilling
- High drilling speed with less wear
- Less heat development with lower power input

# TURBOHEAD XPRO

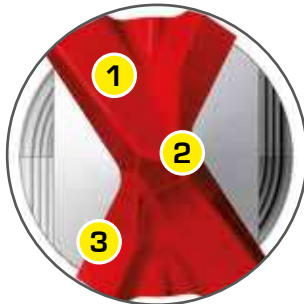
## X-HEAD DESIGN WITH 4-CUTTING EDGES FOR FAST AND PROFESSIONAL JOBS

### 1. FASTER



- Symmetric X-shape produces higher drilling speed in comparison to a classical 90° design.
- More space for drilling dust by X-shape head and large entry flutes for optimum drilling dust removal.

### 2. STRONGER



- Precise drilling start by TURBOKEIL centring tip and better performance when it comes to contact with reinforced steel.
- The multi-angle drill-head provides a perfect drilling result and a long tool life.

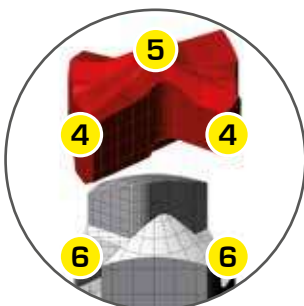
### 3. CLEANER

- 4 cutting-edges with extended full-carbide plate-edges provide precise and round holes. Optimised vibrational characteristics by X-head shape.

## OPTIMIZED SHEED GEOMETRY FOR POWERFUL DRILLING AND LONG SERVICE LIFE

### 4. POWER TRANSMISSION

- For optimized use from the impact energy from hammer drill
- By a conception with six separate sections.



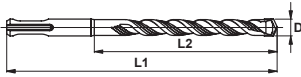
### 5. OPTIMAL USE

- By different setting depth of the full-head carbide.

### 6. SHEARING FORCES

- Distribution of the shear forces on 2 levels
- By the different setting depths of the major and the side plates, the cutting forces will be spread on 2 levels and secure a long tool life.

# SDS-PLUS HAMMER DRILL BIT W2 TURBOKEIL X-SHAPE | 252



## DRIVE



| D<br>Ø mm | D<br>Ø " | L2<br>mm | L1<br>mm |   | EAN<br>4016707... |             |
|-----------|----------|----------|----------|---|-------------------|-------------|
| 22,0      | 7/8      | 400      | 450      | 1 | 326066            | 252 122 450 |
| 24,0      | 15/16    | 400      | 450      | 1 | 326073            | 252 124 450 |
| 25,0      | 1        | 400      | 450      | 1 | 326080            | 252 125 450 |
| 28,0      | 1 1/8    | 400      | 450      | 1 | 326097            | 252 128 450 |
| 30,0      | 1 3/16   | 400      | 450      | 1 | 326103            | 252 130 450 |

## EXECUTION



- Made of tempered steel, shot-peened and intermediate level hardened
- TURBOKEIL carbide plate with centring tip
- 4-cutting edges with W2 flute
- Specially designed head geometry for better center drilling, faster drilling progress, precise drilling hole

## FOR USE IN



## APPLICATION

- Fits directly into all hammer drilling machines with SDS-plus and HILTI TE-C drive
- For drilling plug holes
- Particularly suitable for fastenings
- Adapters for SDS-plus [36]

## PACKAGING



### Comment

- More dimensions of the 4-cutter page 12 or on request
- Other dimensions on request

## SDS-PLUS W2 TURBOKEIL X-SHAPE

- The symmetrical X-shape tip construction of the 4-cutting edges with one main cutter and two auxiliary cutters provides for accurate and correct guidance of the drill bit.
- The geometry with 4-cutting edges protects the bit against damage when impacting on armouring iron.
- The design of the head construction significantly decreases friction in the hole so that the tool life is considerably extended.
- Short flute entries and large volume borehole cut channels in the double spiral provide for fast spoil removal.

### A few advantages of the 4-cutting edges

- Optimum vibration behaviour
- Reduced friction
- Maximum transfer of energy
- Guided centrally
- Stability against torsional loads
- Precise hole
- Reduced noise emissions
- Rapid spoil removal due to large grooves and double helix
- Protection of man and machine
- Noticeably longer life

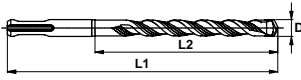


## VIBRATION PROTECTION

Low vibration load of the „hand-arm-system“ by means of highly reduced vibration (see page 11). According to the European guideline EU-Vibrationsrichtlinie 2002/44/EG for vibration protection.



# SDS-PLUS MS5 TURBOKEIL | 253



## DRIVE



## EXECUTION



- Made of tempered steel, shot-peened and intermediate level hardened
- TURBOKEIL carbide plate with centring tip
- MS5 flute

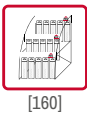
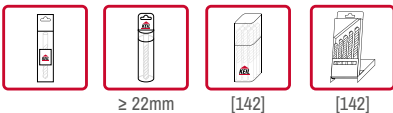
## FOR USE IN



## APPLICATION

- Fits directly into all hammer drilling machines with SDS-plus and HILTI TE-C drive
- For drilling plug holes
- Particularly suitable for fastenings
- Adapters for SDS-plus [36]

## PACKAGING

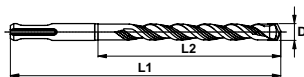


### Comments

- For a working length of 400 mm and more, pre-drilling must be carried out to a depth of at least 150 mm with a drill bit of the same diameter.
- For a working length of 950 mm, pre-drilling must be carried out to a depth of at least 400 mm with a short drill bit of the same diameter.
- The warranty does not apply to extra-long drill bits of 1,000 mm and more.
- Other dimensions on request

| D<br>Ø mm | D<br>Ø " | L2<br>mm | L1<br>mm |    |        |             |
|-----------|----------|----------|----------|----|--------|-------------|
| 3,5       | 9/64     | 35       | 100      | 10 | 323751 | 253 035 100 |
| 4,0       | 5/32     | 50       | 110      | 10 | 322136 | 253 040 110 |
| 4,0       | 5/32     | 100      | 160      | 10 | 328008 | 253 040 160 |
| 5,0       | 3/16     | 50       | 110      | 10 | 322006 | 253 050 110 |
| 5,0       | 3/16     | 100      | 160      | 10 | 322013 | 253 050 160 |
| 5,0       | 3/16     | 150      | 210      | 10 | 323560 | 253 050 210 |
| 5,0       | 3/16     | 200      | 260      | 10 | 324307 | 253 050 260 |
| 5,0       | 3/16     | 260      | 310      | 1  | 904769 | 253 050 310 |
| 5,0       | 3/16     | 350      | 410      | 1  | 904776 | 253 050 410 |
| 5,5       | 7/32     | 50       | 110      | 10 | 322952 | 253 055 110 |
| 5,5       | 7/32     | 100      | 160      | 10 | 322969 | 253 055 160 |
| 5,5       | 7/32     | 200      | 260      | 10 | 322976 | 253 055 260 |
| 6,0       | 15/64    | 50       | 110      | 10 | 322020 | 253 060 110 |
| 6,0       | 15/64    | 70       | 135      | 10 | 328015 | 253 060 135 |
| 6,0       | 15/64    | 100      | 160      | 10 | 322037 | 253 060 160 |
| 6,0       | 15/64    | 150      | 210      | 10 | 320903 | 253 060 210 |
| 6,0       | 15/64    | 200      | 260      | 10 | 320910 | 253 060 260 |
| 6,0       | 15/64    | 300      | 360      | 1  | 323768 | 253 060 360 |
| 6,0       | 15/64    | 400      | 460      | 1  | 328022 | 253 060 460 |
| 6,5       | 1/4      | 50       | 110      | 10 | 322143 | 253 065 110 |
| 6,5       | 1/4      | 100      | 160      | 10 | 322150 | 253 065 160 |
| 6,5       | 1/4      | 150      | 210      | 10 | 328039 | 253 065 210 |
| 6,5       | 1/4      | 200      | 260      | 10 | 328046 | 253 065 260 |
| 7,0       | 9/32     | 50       | 110      | 10 | 322167 | 253 070 110 |
| 7,0       | 9/32     | 100      | 160      | 10 | 322174 | 253 070 160 |
| 8,0       | 5/16     | 50       | 110      | 10 | 322044 | 253 080 110 |
| 8,0       | 5/16     | 100      | 160      | 10 | 322051 | 253 080 160 |
| 8,0       | 5/16     | 150      | 210      | 10 | 322068 | 253 080 210 |
| 8,0       | 5/16     | 200      | 260      | 10 | 320927 | 253 080 260 |
| 8,0       | 5/16     | 250      | 310      | 1  | 328060 | 253 080 310 |
| 8,0       | 5/16     | 400      | 460      | 1  | 323546 | 253 080 460 |
| 8,0       | 5/16     | 550      | 600      | 1  | 323775 | 253 080 600 |
| 9,0       | 11/32    | 100      | 160      | 10 | 323232 | 253 090 160 |
| 9,0       | 11/32    | 200      | 260      | 10 | 328077 | 253 090 260 |
| 10,0      | 3/8      | 50       | 110      | 10 | 322181 | 253 100 110 |
| 10,0      | 3/8      | 100      | 160      | 10 | 322075 | 253 100 160 |
| 10,0      | 3/8      | 150      | 210      | 10 | 322082 | 253 100 210 |
| 10,0      | 3/8      | 200      | 260      | 10 | 320934 | 253 100 260 |
| 10,0      | 3/8      | 250      | 310      | 1  | 328084 | 253 100 310 |
| 10,0      | 3/8      | 300      | 360      | 1  | 328091 | 253 100 360 |
| 10,0      | 3/8      | 350      | 410      | 1  | 328107 | 253 100 410 |
| 10,0      | 3/8      | 400      | 460      | 1  | 320941 | 253 100 460 |
| 10,0      | 3/8      | 550      | 600      | 1  | 328114 | 253 100 600 |
| 10,0      | 3/8      | 950      | 1.000    | 1  | 328121 | 253 101 000 |
| 11,0      | 13/32    | 100      | 160      | 10 | 328138 | 253 110 160 |
| 11,0      | 13/32    | 200      | 260      | 10 | 328145 | 253 110 260 |

# SDS-PLUS MS5 TURBOKEIL | 253



## DRIVE



## EXECUTION



- Made of tempered steel, shot-peened and intermediate level hardened
- TURBOKEIL carbide plate with centring tip
- MS5 flute

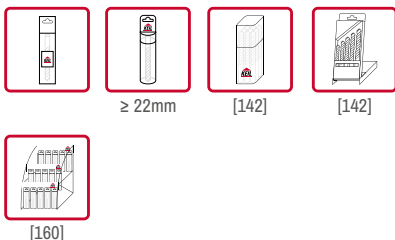
## ANWENDUNG



## APPLICATION

- Fits directly into all hammer drilling machines with SDS-plus and HILTI TE-C drive
- For drilling plug holes
- Particularly suitable for fastenings
- Adapters for SDS-plus [36]

## PACKAGING

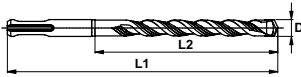


### Comments

- For a working length of 400 mm and more, pre-drilling must be carried out to a depth of at least 150 mm with a drill bit of the same diameter.
- For a working length of 950 mm, pre-drilling must be carried out to a depth of at least 400 mm with a short drill bit of the same diameter.
- The warranty does not apply to extra-long drill bits of 1,000 mm and more.
- Other dimensions on request

| Ø mm | D     | L2 mm | L1 mm | Icons | EAN    | Product Code |
|------|-------|-------|-------|-------|--------|--------------|
| 12,0 | 15/32 | 100   | 160   | 10    | 322099 | 253 120 165  |
| 12,0 | 15/32 | 150   | 210   | 10    | 322105 | 253 120 215  |
| 12,0 | 15/32 | 200   | 260   | 10    | 320958 | 253 120 265  |
| 12,0 | 15/32 | 250   | 310   | 1     | 328152 | 253 120 310  |
| 12,0 | 15/32 | 350   | 400   | 1     | 328169 | 253 120 400  |
| 12,0 | 15/32 | 400   | 450   | 1     | 320965 | 253 120 450  |
| 12,0 | 15/32 | 550   | 600   | 1     | 328176 | 253 120 600  |
| 12,0 | 15/32 | 950   | 1.000 | 1     | 328183 | 253 121 000  |
| 13,0 | 1/2   | 100   | 160   | 10    | 328190 | 253 130 160  |
| 13,0 | 1/2   | 200   | 260   | 10    | 328206 | 253 130 265  |
| 14,0 | 17/32 | 100   | 160   | 10    | 322198 | 253 140 165  |
| 14,0 | 17/32 | 150   | 210   | 10    | 322204 | 253 140 215  |
| 14,0 | 17/32 | 200   | 260   | 10    | 320972 | 253 140 265  |
| 14,0 | 17/32 | 250   | 310   | 1     | 328213 | 253 140 310  |
| 14,0 | 17/32 | 400   | 450   | 1     | 320989 | 253 140 450  |
| 14,0 | 17/32 | 550   | 600   | 1     | 328220 | 253 140 600  |
| 14,0 | 17/32 | 950   | 1.000 | 1     | 328237 | 253 141 000  |
| 15,0 | 19/32 | 100   | 160   | 10    | 328244 | 253 150 160  |
| 15,0 | 19/32 | 150   | 210   | 10    | 328251 | 253 150 210  |
| 15,0 | 19/32 | 200   | 260   | 10    | 328268 | 253 150 260  |
| 15,0 | 19/32 | 400   | 450   | 1     | 323782 | 253 150 450  |
| 16,0 | 39/64 | 100   | 160   | 10    | 322662 | 253 160 165  |
| 16,0 | 39/64 | 150   | 210   | 10    | 322679 | 253 160 215  |
| 16,0 | 39/64 | 200   | 260   | 10    | 320996 | 253 160 265  |
| 16,0 | 39/64 | 250   | 310   | 1     | 328275 | 253 160 310  |
| 16,0 | 39/64 | 350   | 400   | 1     | 328282 | 253 160 400  |
| 16,0 | 39/64 | 400   | 450   | 1     | 321009 | 253 160 450  |
| 16,0 | 39/64 | 550   | 600   | 1     | 328299 | 253 160 600  |
| 16,0 | 39/64 | 750   | 800   | 1     | 328305 | 253 160 800  |
| 16,0 | 39/64 | 950   | 1.000 | 1     | 328312 | 253 161 000  |
| 17,0 | 21/32 | 150   | 210   | 5     | 328329 | 253 170 200  |
| 18,0 | 11/16 | 150   | 200   | 5     | 323256 | 253 180 200  |
| 18,0 | 11/16 | 250   | 300   | 1     | 328336 | 253 180 300  |
| 18,0 | 11/16 | 400   | 450   | 1     | 323263 | 253 180 450  |
| 18,0 | 11/16 | 550   | 600   | 1     | 323270 | 253 180 600  |
| 18,0 | 11/16 | 950   | 1.000 | 1     | 323430 | 253 181 000  |
| 19,0 | 23/32 | 200   | 250   | 5     | 323287 | 253 190 250  |
| 19,0 | 23/32 | 400   | 450   | 1     | 323294 | 253 190 450  |
| 20,0 | 49/64 | 150   | 200   | 5     | 323300 | 253 200 200  |
| 20,0 | 49/64 | 250   | 300   | 1     | 323317 | 253 200 300  |
| 20,0 | 49/64 | 400   | 450   | 1     | 323324 | 253 200 450  |
| 20,0 | 49/64 | 550   | 600   | 1     | 323331 | 253 200 600  |
| 20,0 | 49/64 | 950   | 1.000 | 1     | 323447 | 253 201 000  |
| 22,0 | 27/32 | 200   | 250   | 1     | 323348 | 253 220 250  |
| 22,0 | 27/32 | 400   | 450   | 1     | 323355 | 253 220 450  |
| 22,0 | 27/32 | 550   | 600   | 1     | 323362 | 253 220 600  |

# SDS-PLUS MS5 TURBOKEIL | 253



## DRIVE



## EXECUTION



- Made tempered steel, shot-peened and intermediate level hardened
- TURBOKEIL carbide plate with centring tip
- MS5 flute

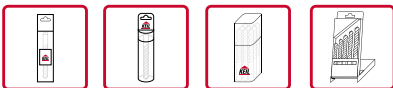
## ANWENDUNG



## APPLICATION

- Fits directly into all hammer drilling machines with SDS-plus and HILTI TE-C drive
- For drilling plug holes
- Particularly suitable for fastenings
- Adapters for SDS-plus [36]

## PACKAGING



≥ 22mm

[142]

[142]



[160]

### Comments

- For a working length of 400 mm and more, pre-drilling must be carried out to a depth of at least 150 mm with a drill bit of the same diameter.
- For a working length of 950 mm, pre-drilling must be carried out to a depth of at least 400 mm with a short drill bit of the same diameter.
- The warranty does not apply to extra-long drill bits of 1,000 mm and more.
- Other dimensions on request

| D<br>Ø mm | D<br>Ø " | L2<br>mm | L1<br>mm |   | EAN<br>4016707... |             |
|-----------|----------|----------|----------|---|-------------------|-------------|
| 22,0      | 27/32    | 950      | 1.000    | 1 | 323454            | 253 221 000 |
| 24,0      | 59/64    | 200      | 250      | 1 | 323379            | 253 240 250 |
| 24,0      | 59/64    | 400      | 450      | 1 | 323386            | 253 240 450 |
| 25,0      | 31/32    | 200      | 250      | 1 | 323393            | 253 250 250 |
| 25,0      | 31/32    | 400      | 450      | 1 | 323409            | 253 250 450 |
| 25,0      | 31/32    | 950      | 1.000    | 1 | 323799            | 253 251 000 |
| 26,0      | 1        | 100      | 160      | 1 | 323980            | 253 260 160 |
| 26,0      | 1        | 200      | 250      | 1 | 323416            | 253 260 250 |
| 26,0      | 1        | 400      | 450      | 1 | 323423            | 253 260 450 |

## SDS-PLUS MS5 TURBOKEIL

The new KEIL hammer drill bit generation can be used for the hardest materials in all SDS-plus hammer drilling machines.

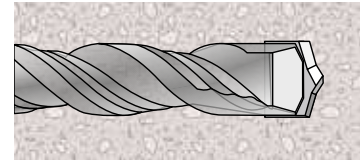
TURBOKEIL with centring tip for precisely drilling.

### Features:

- Centring tip
- Guided Carbide plate
- Strengthened carbide tip
- Large cutting angle
- Clean drill holes
- Drilling with the utmost precision

MS5 spiral for ergonomic and ecological work flow:

- High drilling speed
- Fast transport of drilling dust
- High grade of stiffness and long service life
- High resistance against breakage



# SDS-PLUS MS5

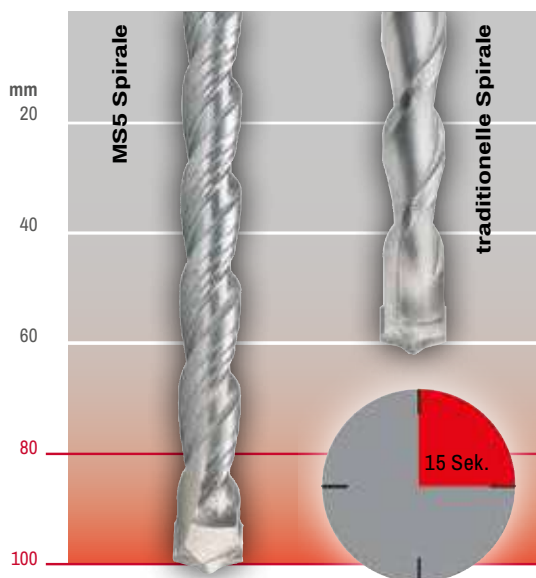
## MULTI STEP FLUTE

| ø mm    | Spiral Steps |
|---------|--------------|
| 4 - 5   | 2            |
| 6 - 7   | 4            |
| 8 - 9   | 6            |
| 10 - 12 | 8            |
| 13 - 14 | 6            |
| 15 - 16 | 8            |
| 17 - 26 | 10           |



The MS5 helix is protected by patent. The number of spiral steps and radiuses on the drill depends on the diameter.

## COMPARATIVE TEST



**Working professionally means working economically**

This shows the comparative drilling with the MS5 Multi-step helix and a traditional helix. Hole depth for drilling time of 15 seconds, using SDS-plus hammer drill bits TURBOKEIL 6 x 100 x 160 mm in B25 concrete.

**64 % faster with Multi-step helix!**

## ADVANTAGES

### Longer service life

- The MS5 helix reduces the vibration loads generated during drilling

### No accumulation of spoil

- The MS5 helix reduces the torsion loads generated during drilling and transports drilling dust optimally

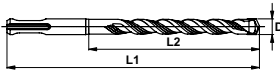
### High drilling speed

- The MS5 helix provides for optimum transfer of the impact energy of the hammer drilling machine

### Extreme fracture resistance

- The MS5 helix has a strengthened core and rounded step transitions

# SDS-PLUS MS5 VARIO | 255



## DRIVE



## EXECUTION



- Vario 130° Eurostandard carbide plate for professional application
- Made of tempered steel, shot-peened and intermediate level hardened
- MS5 flute

## FOR USE IN



## APPLICATION

- Fits directly into all hammer drilling machines with Bosch SDS-plus and HILTI TE-T locking
- For drilling plug holes
- Particularly suitable for fastenings [36]

## PACKAGING



| D<br>Ø mm | D<br>Ø " | L2<br>mm | L1<br>mm |    | EAN<br>4016707... | 12345       |
|-----------|----------|----------|----------|----|-------------------|-------------|
| 5,0       | 3/16     | 50       | 110      | 10 | 320026            | 255 050 115 |
| 5,0       | 3/16     | 100      | 160      | 10 | 320040            | 255 050 165 |
| 6,0       | 15/64    | 50       | 110      | 10 | 320071            | 255 060 115 |
| 6,0       | 15/64    | 100      | 160      | 10 | 320088            | 255 060 165 |
| 6,0       | 15/64    | 150      | 210      | 10 | 320095            | 255 060 210 |
| 6,0       | 15/64    | 200      | 260      | 10 | 320101            | 255 060 260 |
| 8,0       | 5/16     | 50       | 110      | 10 | 320156            | 255 080 115 |
| 8,0       | 5/16     | 100      | 160      | 10 | 320170            | 255 080 165 |
| 8,0       | 5/16     | 150      | 210      | 10 | 320187            | 255 080 215 |
| 8,0       | 5/16     | 200      | 260      | 10 | 320194            | 255 080 260 |
| 10,0      | 3/8      | 50       | 110      | 10 | 320200            | 255 100 110 |
| 10,0      | 3/8      | 100      | 160      | 10 | 320217            | 255 100 165 |
| 10,0      | 3/8      | 150      | 210      | 10 | 320224            | 255 100 215 |
| 10,0      | 3/8      | 200      | 260      | 10 | 320231            | 255 100 265 |
| 12,0      | 15/32    | 100      | 160      | 10 | 320309            | 255 120 165 |
| 12,0      | 15/32    | 150      | 210      | 10 | 320316            | 255 120 215 |
| 12,0      | 15/32    | 200      | 260      | 10 | 320323            | 255 120 265 |
| 14,0      | 17/32    | 100      | 160      | 10 | 320354            | 255 140 165 |
| 14,0      | 17/32    | 150      | 210      | 10 | 320361            | 255 140 215 |
| 14,0      | 17/32    | 200      | 260      | 10 | 320378            | 255 140 265 |

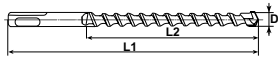
## SDS-PLUS MS5 VARIO

MS5 spiral for ergonomic and ecological work flow:

- High drilling speed
- Fast transport of drilling dust
- High grade of stiffness and long service life
- High resistance against breakage

# SDS-PLUS HAMMER DRILL BITS

## KEILRAPID | 256



### DRIVE



### EXECUTION



- Robust hard carbide plate with 130° tip
- Aggressive tip and helix design
- Low-vibration operation

### FOR USE IN



### APPLICATION

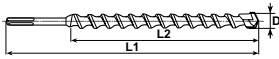
- Reliable entry-level hammer drill bits for all concrete and stone applications
- For drilling into masonry, concrete, aerated concrete and sand lime brick
- Adapter for SDS-plus [36]

### PACKAGING



| Ø mm | D     | L2 mm | L1 mm | Icons | EAN    | 12345       |
|------|-------|-------|-------|-------|--------|-------------|
| 4    | 5/32  | 50    | 110   | 10    | 918889 | 256 040 110 |
| 4    | 5/32  | 100   | 160   | 10    | 918896 | 256 040 160 |
| 5    | 3/16  | 50    | 110   | 10    | 918902 | 256 050 110 |
| 5    | 3/16  | 100   | 160   | 10    | 918919 | 256 050 160 |
| 5,5  | 7/32  | 50    | 110   | 10    | 918926 | 256 055 110 |
| 5,5  | 7/32  | 100   | 160   | 10    | 918933 | 256 055 160 |
| 5,5  | 7/32  | 150   | 210   | 10    | 918940 | 256 055 210 |
| 6    | 15/64 | 50    | 110   | 10    | 918957 | 256 060 110 |
| 6    | 15/64 | 100   | 160   | 10    | 918971 | 256 060 160 |
| 6    | 15/64 | 150   | 210   | 10    | 918988 | 256 060 210 |
| 6    | 15/64 | 200   | 260   | 10    | 918995 | 256 060 260 |
| 6,5  | 1/4   | 100   | 160   | 10    | 919008 | 256 065 160 |
| 6,5  | 1/4   | 150   | 210   | 10    | 919015 | 256 065 210 |
| 7    | 9/32  | 100   | 160   | 10    | 919022 | 256 070 160 |
| 7    | 9/32  | 150   | 210   | 10    | 919039 | 256 070 210 |
| 8    | 5/16  | 50    | 110   | 10    | 919046 | 256 080 110 |
| 8    | 5/16  | 100   | 160   | 10    | 919053 | 256 080 160 |
| 8    | 5/16  | 150   | 210   | 10    | 919060 | 256 080 210 |
| 8    | 5/16  | 200   | 260   | 10    | 919077 | 256 080 260 |
| 9    | 11/32 | 100   | 160   | 10    | 919084 | 256 090 160 |
| 10   | 3/8   | 50    | 110   | 10    | 919091 | 256 100 110 |
| 10   | 3/8   | 100   | 160   | 10    | 919114 | 256 100 160 |
| 10   | 3/8   | 150   | 210   | 10    | 919121 | 256 100 210 |
| 10   | 3/8   | 200   | 260   | 10    | 919138 | 256 100 260 |
| 10   | 3/8   | 250   | 310   | 1     | 919145 | 256 100 310 |
| 10   | 3/8   | 400   | 450   | 1     | 919152 | 256 100 450 |
| 11   | 13/32 | 250   | 310   | 1     | 919169 | 256 110 310 |
| 12   | 15/32 | 100   | 160   | 1     | 919176 | 256 120 160 |
| 12   | 15/32 | 150   | 210   | 1     | 919183 | 256 120 210 |
| 12   | 15/32 | 200   | 260   | 10    | 919190 | 256 120 260 |
| 12   | 15/32 | 250   | 310   | 10    | 919206 | 256 120 310 |
| 12   | 15/32 | 400   | 450   | 10    | 919213 | 256 120 450 |
| 14   | 17/32 | 100   | 160   | 10    | 919220 | 256 140 160 |
| 14   | 17/32 | 150   | 210   | 10    | 919237 | 256 140 210 |
| 14   | 17/32 | 200   | 250   | 10    | 919244 | 256 140 250 |
| 14   | 17/32 | 250   | 310   | 1     | 919251 | 256 140 310 |
| 14   | 17/32 | 400   | 450   | 1     | 919268 | 256 140 450 |
| 16   | 39/64 | 100   | 160   | 10    | 919275 | 256 160 160 |
| 16   | 39/64 | 150   | 210   | 10    | 919282 | 256 160 210 |
| 16   | 39/64 | 250   | 300   | 1     | 919299 | 256 160 300 |
| 16   | 39/64 | 400   | 450   | 1     | 919305 | 256 160 450 |
| 18   | 11/16 | 200   | 260   | 1     | 919312 | 256 180 260 |
| 18   | 11/16 | 250   | 300   | 1     | 919329 | 256 180 300 |
| 18   | 11/16 | 400   | 450   | 1     | 919336 | 256 180 450 |
| 20   | 49/64 | 250   | 300   | 1     | 919343 | 256 200 300 |
| 20   | 49/64 | 400   | 450   | 1     | 919350 | 256 200 450 |
| 22   | 27/32 | 400   | 450   | 1     | 919367 | 256 220 450 |
| 25   | 1     | 400   | 450   | 1     | 919374 | 256 250 450 |

# SDS-MAX W2 TURBOHEAD XPRO TURBOKEIL X-SHAPE | 270



## DRIVE



## EXECUTION



- Made of tempered steel, shot-peened and hardened
- 4 cutter TUBOHEAD Xpro with full carbide head up to 20 mm (15 mm only available with 2 cutting edges)
- 4 cutter with 1 main and 2 strengthened side cutters
- Specially designed head geometry for better center drilling, faster drilling progress, precise drilling hole

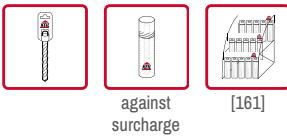
## FOR USE IN



## APPLICATION

- Fits directly into SDS-max and HILTI TE-Y locking

## PACKAGING

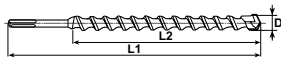


### Comments

- For a working length of 400 mm and more, pre-drilling must be carried out to a depth of at least 150 mm with a drill bit of the same diameter.
- For a working length of 800 mm and more, pre-drilling must be carried out to a depth of at least 400 mm with a short drill bit of the same diameter.
- Other dimensions on request

| D    | D      | L2    | L1    | 2 | 4 | EAN        | 12345       |
|------|--------|-------|-------|---|---|------------|-------------|
| Ø mm | Ø "    | mm    | mm    |   |   | 4016707... |             |
| 8,0  | 5/16   | 200   | 340   | 4 | 1 | 914775     | 270 080 341 |
| 10,0 | 3/8    | 200   | 340   | 4 | 1 | 914782     | 270 100 341 |
| 12,0 | 15/32  | 200   | 340   | 4 | 1 | 914799     | 270 120 341 |
| 12,0 | 15/32  | 400   | 540   | 4 | 1 | 914805     | 270 120 541 |
| 12,0 | 15/32  | 550   | 690   | 4 | 1 | 914812     | 270 120 691 |
| 14,0 | 9/16   | 200   | 340   | 4 | 1 | 914829     | 270 140 341 |
| 14,0 | 9/16   | 400   | 540   | 4 | 1 | 914836     | 270 140 541 |
| 15,0 | 19/32  | 200   | 340   | 2 | 1 | 360282     | 270 150 340 |
| 15,0 | 19/32  | 400   | 540   | 2 | 1 | 360459     | 270 150 540 |
| 16,0 | 5/8    | 200   | 340   | 4 | 1 | 914843     | 270 160 341 |
| 16,0 | 5/8    | 400   | 540   | 4 | 1 | 914850     | 270 160 541 |
| 16,0 | 5/8    | 800   | 940   | 4 | 1 | 914867     | 270 160 941 |
| 18,0 | 11/16  | 200   | 340   | 4 | 1 | 914874     | 270 180 341 |
| 18,0 | 11/16  | 400   | 540   | 4 | 1 | 914881     | 270 180 541 |
| 18,0 | 11/16  | 800   | 940   | 4 | 1 | 914898     | 270 180 941 |
| 20,0 | 3/4    | 200   | 320   | 4 | 1 | 914904     | 270 200 321 |
| 20,0 | 3/4    | 400   | 520   | 4 | 1 | 914911     | 270 200 521 |
| 20,0 | 3/4    | 800   | 920   | 4 | 1 | 914928     | 270 200 921 |
| 20,0 | 3/4    | 1.200 | 1.320 | 4 | 1 | 914935     | 270 201 321 |
| 22,0 | 7/8    | 200   | 320   | 4 | 1 | 360114     | 270 220 320 |
| 22,0 | 7/8    | 400   | 520   | 4 | 1 | 360121     | 270 220 520 |
| 22,0 | 7/8    | 800   | 920   | 4 | 1 | 360398     | 270 220 920 |
| 22,0 | 7/8    | 1.200 | 1.320 | 4 | 1 | 360756     | 270 221 320 |
| 24,0 | 15/16  | 200   | 320   | 4 | 1 | 360138     | 270 240 320 |
| 24,0 | 15/16  | 400   | 520   | 4 | 1 | 360367     | 270 240 520 |
| 25,0 | 1      | 200   | 320   | 4 | 1 | 360145     | 270 250 320 |
| 25,0 | 1      | 400   | 520   | 4 | 1 | 360152     | 270 250 520 |
| 25,0 | 1      | 800   | 920   | 4 | 1 | 360169     | 270 250 920 |
| 25,0 | 1      | 1.200 | 1.320 | 4 | 1 | 360428     | 270 251 320 |
| 28,0 | 1 1/8  | 250   | 370   | 4 | 1 | 360176     | 270 280 370 |
| 28,0 | 1 1/8  | 450   | 570   | 4 | 1 | 360183     | 270 280 570 |
| 28,0 | 1 1/8  | 550   | 670   | 4 | 1 | 360848     | 270 280 670 |
| 30,0 | 1 3/16 | 250   | 370   | 4 | 1 | 360190     | 270 300 370 |
| 30,0 | 1 3/16 | 450   | 570   | 4 | 1 | 360206     | 270 300 570 |
| 32,0 | 1 1/4  | 250   | 370   | 4 | 1 | 360213     | 270 320 370 |
| 32,0 | 1 1/4  | 450   | 570   | 4 | 1 | 360220     | 270 320 570 |
| 32,0 | 1 1/4  | 800   | 920   | 4 | 1 | 360237     | 270 320 920 |
| 32,0 | 1 1/4  | 1.200 | 1.320 | 4 | 1 | 360435     | 270 321 320 |
| 35,0 | 1 3/8  | 250   | 370   | 4 | 1 | 360244     | 270 350 370 |
| 35,0 | 1 3/8  | 450   | 570   | 4 | 1 | 360251     | 270 350 570 |
| 35,0 | 1 3/8  | 550   | 670   | 4 | 1 | 360855     | 270 350 670 |
| 38,0 | 1 1/2  | 250   | 370   | 4 | 1 | 360268     | 270 380 370 |
| 38,0 | 1 1/2  | 450   | 570   | 4 | 1 | 360275     | 270 380 570 |
| 40,0 | 1 9/16 | 250   | 370   | 4 | 1 | 360862     | 270 400 370 |
| 40,0 | 1 9/16 | 450   | 570   | 4 | 1 | 360299     | 270 400 570 |
| 40,0 | 1 9/16 | 800   | 920   | 4 | 1 | 360404     | 270 400 920 |

# SDS-MAX W2 TURBOHEAD XPRO TURBOKEIL X-SHAPE | 270



## DRIVE



| D<br>ø mm | D<br>ø " | L2<br>mm | L1<br>mm | 2<br>4 |   | EAN<br>4016707... |             |
|-----------|----------|----------|----------|--------|---|-------------------|-------------|
| 40,0      | 1 9/16   | 1200     | 1.320    | 4      | 1 | 360442            | 270 401 320 |
| 45,0      | 1 3/4    | 450      | 570      | 4      | 1 | 360763            | 270 450 570 |
| 45,0      | 1 3/4    | 800      | 920      | 4      | 1 | 360770            | 270 450 920 |
| 50,0      | 2        | 450      | 570      | 4      | 1 | 360794            | 270 500 570 |

## EXECUTION



- Made of tempered steel, shot-peened and hardened
- TURBOKEIL carbide plate with centring tip
- 2-cutting edge system with W2 flute up to 15mm
- 4-cutting edge system with W2 flute from 16mm
- Specially designed head geometry for better center drilling, faster drilling progress, precise drilling hole

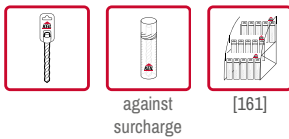
## FOR USE IN



## APPLICATION

- Fits directly into SDS-max and HILTI TE-Y locking

## PACKAGING



### Comments

- For a working length of 400 mm and more, pre-drilling must be carried out to a depth of at least 150 mm with a drill bit of the same diameter.
- For a working length of 800 mm and more, pre-drilling must be carried out to a depth of at least 400 mm with a short drill bit of the same diameter.
- Other dimensions on request

## SDS-MAX W2 TURBOKEIL X-FORM

- The symmetrical X-shape tip construction of the 4-cutting edges with one main cutter and two auxiliary cutters provides for accurate and correct guidance of the drill bit.
- The geometry with 4-cutting edges protects the bit against damage when impacting on armouring iron.
- The design of the head construction significantly decreases friction in the hole so that the tool life is considerably extended.
- Short flute entries and large volume borehole cut channels in the double spiral provide for fast spoil removal.

### A few advantages of the 4-cutting edges

- Maximum transfer of energy
- Guided centrally
- Optimum vibration behaviour
- Reduced friction
- Stability against torsional loads
- Precise hole
- Optimum spoil removal due to large grooves and double helix
- Protection of operator and machine
- Reduced noise emissions
- Noticeably longer life



## VIBRATION PROTECTION

Low vibration load of the „hand-arm-system“ by means of highly reduced vibration (see page 11). According to the European guideline EU-Vibrationsrichtlinie 2002/44/EG for vibration protection.





# SDS-MAX W2

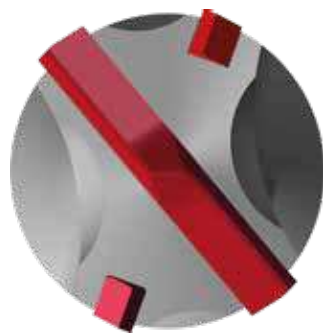
## TURBOHEAD XPRO AND TURBOKEIL X-FORM



### OPTIMIZED DESIGN

#### FASTER

- Up to 20% faster drilling progress due to perfect head shape and large entry grooves for better admission of drill dust

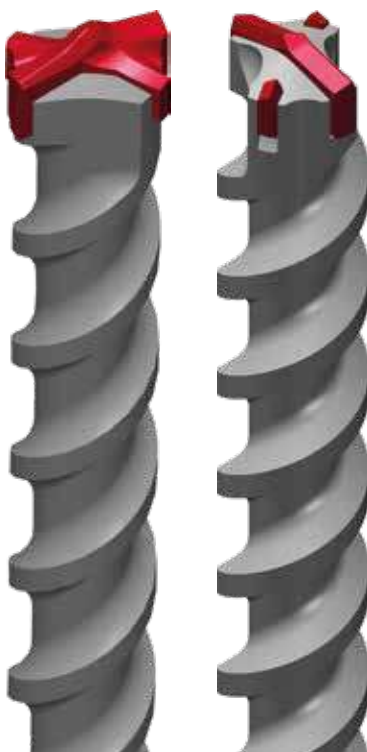


#### STRONGER

- Equipped with full carbide head for strongest performance already from 8 mm
- From 22 mm with strengthened side cutters for more stability and longer tool life
- Symmetric X-head-shape with TURBOKEIL centring tip and more efficiency when hitting reinforced steel

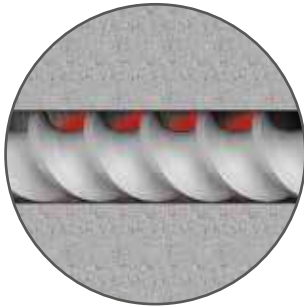
### PRODUCT INFORMATION

- The symmetric form of the full carbide head TURBOHEAD Xpro (up to 20 mm diameter) and also the TURBOKEIL X-Form (from 22 mm diameter) provide accurate and correct guidance of the drill bit.
- The geometry with 4-cutting edges protects the bit against damage when impacting on armouring iron.
- The design of the head construction significantly decreases friction in the hole so that the tool life is considerably extended.
- Short flute entries and large volume borehole cut channels in the double spiral provide for fast spoil removal.



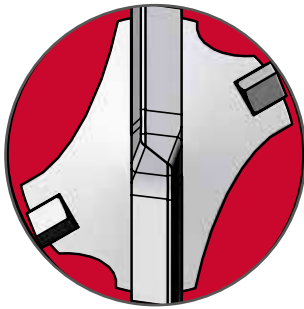
# SDS-MAX W2

## TURBOHEAD XPRO UND TURBOKEIL X-FORM



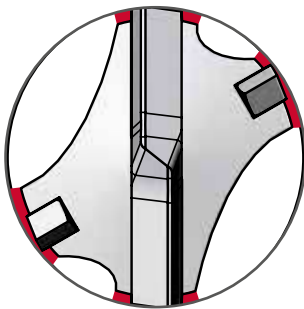
### APPROVED DOUBLE FLUTE W2

- The fine tuned and flat angle of twist with its optimum combination of axial run-out and radial run-out takes care for a self-maintained flow of drill dust.
- These drill bits have the approved asymmetric W-flute in double execution.
- The drill dust is taken from the paddle-shaped notch and is optimally transported.
- The chip transporting notches leave a clean drill hole.



### LARGE ENTRY GROOVES

- Approx. 40 % more space for drilling dust due to ellipsis shape of the milled grooves. This becomes a noticeable advantage especially with deep drill holes and soft concrete or stone.
- The X-shape provides a better admission of the drill dust.



### SYMMETRIC X-HEAD-SHAPE

- Reduced perimeter surface.
- Considerably less friction.
- Fast transport of drill dust and optimum pilot drilling.
- Fast drilling process and less wear.
- Develops low temperature with less power input.



### LOW VIBRATION IN DRILLING

- Optimised vibrational characteristics.
- Maximum drill- and transportation power.
- Resistant against extreme torsion force.
- Reduced noise level while drilling.
- Less strain for user and machine.

# SDS-MAX TURBOCLEAN EXTRACTION DRILL BIT | 273



## DRIVE



| D<br>Ø mm       | D<br>Ø " | L2<br>mm | L1<br>mm |   | EAN<br>4016707... | <br>12345   |
|-----------------|----------|----------|----------|---|-------------------|-------------|
| 14,0            | 17/32    | 400      | 600      | 1 | 919480            | 273 140 600 |
| 16,0            | 39/64    | 400      | 600      | 1 | 919497            | 273 160 600 |
| 18,0            | 11/16    | 400      | 600      | 1 | 919503            | 273 180 600 |
| 20,0            | 49/64    | 400      | 600      | 1 | 919510            | 273 200 600 |
| 22,0            | 27/32    | 400      | 600      | 1 | 919527            | 273 220 600 |
| 24,0            | 59/64    | 400      | 600      | 1 | 919534            | 273 240 600 |
| 25,0            | 31/32    | 400      | 600      | 1 | 919541            | 273 250 600 |
| 28,0            | 1 1/8    | 400      | 600      | 1 | 919558            | 273 280 600 |
| 30,0            | 1 3/16   | 400      | 600      | 1 | 919565            | 273 300 600 |
| 32,0            | 1 1/4    | 400      | 600      | 1 | 919572            | 273 320 600 |
| 35,0            | 1 3/8    | 400      | 600      | 1 | 919589            | 273 350 600 |
| SDS-max Adapter |          |          |          | 1 | 919596            | 273 000 001 |

## EXECUTION



- Dust-free drilling: 98% of the drilling dust is removed in the place it originates at the drill tip
- Drilling and vacuum cleaning in one step
- Reduced drilling friction thanks to extra large openings at the tip and internally routed drilling dust
- SDS-max shank

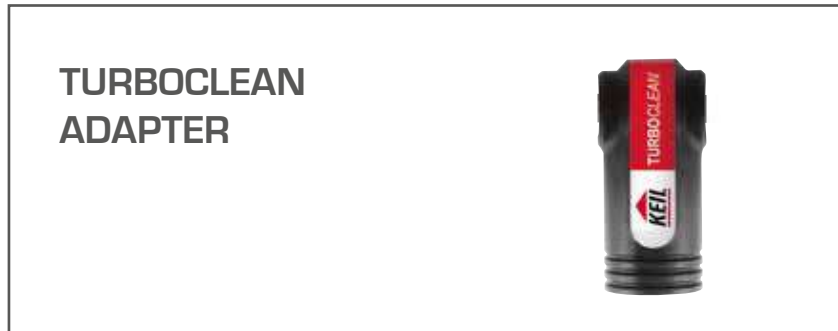
## FOR USE IN



## APPLICATION

- For installing the chemical anchors
- Drilling in interior applications
- Drilling into masonry, brick, concrete, granite, natural stone and sand lime brick

## PACKAGING



- The TURBOCLEAN combines drilling and dust extraction in a single step for all concrete work
- Dust-free drilling in compliance with current, more stringent health protection standards
- Removes 98% of drilling dust where it originates at the drill tip
- Rugged design of the drill head and shaft for a long service life
- Maximum productivity when setting chemical anchors
- Fast thanks to extra large openings at the tip and reduced drilling resistance as drilling dust is routed internally
- Saves annoying cleaning of the environment (important in sensitive environments such as hospitals, offices, etc.)
- Perfect for use in interior applications

# SDS-PLUS TURBOCLEAN EXTRACTION DRILL BIT | 272

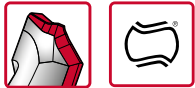


## DRIVE



| D<br>Ø mm        | D<br>Ø " | L2<br>mm | L1<br>mm |   | EAN<br>4016707... | 272345      |
|------------------|----------|----------|----------|---|-------------------|-------------|
| 8                | 5/16     | 150      | 270      | 1 | 919381            | 272 080 270 |
| 10               | 3/8      | 150      | 270      | 1 | 919398            | 272 100 270 |
| 12               | 15/32    | 200      | 320      | 1 | 919404            | 272 120 320 |
| 14               | 17/32    | 250      | 370      | 1 | 919411            | 272 140 370 |
| 16               | 39/64    | 250      | 370      | 1 | 919428            | 272 160 370 |
| 18               | 11/16    | 250      | 370      | 1 | 919435            | 272 180 370 |
| 20               | 49/64    | 250      | 370      | 1 | 919442            | 272 200 370 |
| 24               | 59/64    | 250      | 370      | 1 | 919459            | 272 240 370 |
| SDS-plus Adapter |          |          |          | 1 | 919466            | 272 000 001 |

## EXECUTION



- Dust-free drilling: 98% of the drilling dust is removed in the place it originates at the drill tip
- Drilling and vacuum cleaning in one step
- Reduced drilling friction thanks to extra large openings at the tip and internally routed drilling dust
- SDS-plus shank

## FOR USE IN



## APPLICATION

- For installing the chemical anchors
- Drilling in interior applications
- Drilling into masonry, brick, concrete, granite, natural stone and sand lime brick

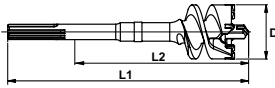
## PACKAGING



## TURBOCLEAN ADAPTER

- The TURBOCLEAN combines drilling and dust extraction in a single step for all concrete work
- Dust-free drilling in compliance with current, more stringent health protection standards
- Removes 98% of drilling dust where it originates at the drill tip
- Rugged design of the drill head and shaft for a long service life
- Maximum productivity when setting chemical anchors
- Fast thanks to extra large openings at the tip and reduced drilling resistance as drilling dust is routed internally
- Saves annoying cleaning of the environment (important in sensitive environments such as hospitals, offices, etc.)
- Perfect for use in interior applications

# SDS-MAX CONCRETE MILLING CUTTER | 269



## DRIVE



| D<br>Ø mm | D<br>Ø " | L2<br>mm | L1<br>mm |   | EAN<br>4016707... |             |
|-----------|----------|----------|----------|---|-------------------|-------------|
| 55,0      | 2 3/16   | 480      | 590      | 1 | 91808             | 269 551 590 |
| 55,0      | 2 3/16   | 880      | 990      | 1 | 91809             | 269 551 990 |
| 65,0      | 2 5/8    | 480      | 590      | 1 | 91807             | 269 651 590 |
| 65,0      | 2 5/8    | 880      | 990      | 1 | 91810             | 269 651 990 |
| 80,0      | 3 1/8    | 480      | 590      | 1 | 91811             | 269 801 590 |
| 80,0      | 3 1/8    | 880      | 990      | 1 | 91812             | 269 801 990 |

## EXECUTION

- Solid construction in one piece
- Shot-peened and rust protected
- Made of tempered steel

## FOR USE IN



## APPLICATION

- Fits directly into SDS-max and HILTI TE-Y locking

## PACKAGING



### Comments

- Other dimensions on request

## SDS-MAX CONCRETE MILLING CUTTER

Due to increasing challenges in practical work our KEIL concrete milling cutter was constructed in a new way. Therefore the concrete milling cutter drills faster in concrete and due to its more stable and larger number of solid carbide cutters it is less sensible against break-outs and wear. Also when hitting armouring iron the new concrete milling cutter shows its new features clearly.



### Advantages for professional users:

- Percussive energy is transferred to the tool without loss
- Low weight
- Reduced vibration
- Long tool life
- Exact drill hole geometry



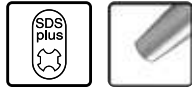
## VIBRATION PROTECTION

Low vibration load of the „hand-arm-system“ by means of highly reduced vibration (see page 11). According to the European guideline EU-Vibrationsrichtlinie 2002/44/EG for vibration protection.

# SDS-PLUS & A-CONE MS5 HAMMER DRILL BIT SPECIAL PRODUCTS



## DRIVE



## EXECUTION



- Optionally with a stop collar for precise depth limitation or with a cutting collar for optimum penetration of insulation materials

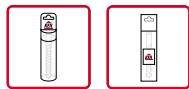
## FOR USE IN



## APPLICATION

- For drilling plug holes
- Particularly suitable for fastening technology

## PACKAGING



## DRIVE / PACKAGING



## CHARACTERISTICS

- Increases the operation distance
- Cost savings by exchangeability of the drill bit
- Optimum transmission of the impact energy
- Long service life

## SDS-PLUS MS5 COLLAR HAMMER DRILL BIT

| Working length up to collar in mm  | Ø mm | Ø ANSI | TURBO-KEIL | TURBO-HEAD | TURBO-KEIL | TURBO-HEAD | TURBO-KEIL | TURBO-HEAD | TURBO-KEIL  | TURBO-HEAD |
|--|------|--------|------------|------------|------------|------------|------------|------------|-------------|------------|
|  |      |        | 20 - 30 mm |            | 31 - 60 mm |            | 61 - 80 mm |            | 81 - 120 mm |            |
| Production to order, delivery time on request, minimum order quantity of 100 pcs. per desired item. Other sizes available upon request | 5    | 3/16"  |            |            |            |            |            |            |             |            |
|  | 6    | 15/64" |            |            |            |            |            |            |             |            |
|  | 6,5  | 1/4"   |            |            |            |            |            |            |             |            |
|  | 8    | 5/16"  |            |            |            |            |            |            |             |            |
|  | 10   | 3/8"   |            |            |            |            |            |            |             |            |



## A-CONE MS5 COLLAR HAMMER DRILL BIT

| Working length up to collar in mm  | Ø mm | Ø ANSI | TURBO-KEIL | TURBO-HEAD | TURBO-KEIL | TURBO-HEAD | TURBO-KEIL | TURBO-HEAD | TURBO-KEIL  | TURBO-HEAD |
|--|------|--------|------------|------------|------------|------------|------------|------------|-------------|------------|
|  |      |        | 20 - 30 mm |            | 31 - 60 mm |            | 61 - 80 mm |            | 81 - 120 mm |            |
| Production to order, delivery time on request, minimum order quantity of 100 pcs. per desired item. Other sizes available upon request | 5    | 3/16"  |            |            |            |            |            |            |             |            |
|  | 6    | 15/64" |            |            |            |            |            |            |             |            |
|  | 6,5  | 1/4"   |            |            |            |            |            |            |             |            |
|  | 8    | 5/16"  |            |            |            |            |            |            |             |            |
|  | 10   | 3/8"   |            |            |            |            |            |            |             |            |



## A-CONE MS5 HAMMER DRILL BIT

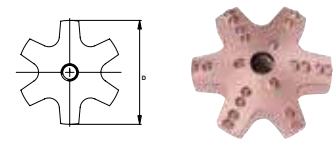
| Working length up to collar in mm  | Ø mm | Ø ANSI | TURBO-KEIL | TURBO-HEAD | TURBO-KEIL | TURBO-HEAD | TURBO-KEIL | TURBO-HEAD | TURBO-KEIL | TURBO-HEAD |
|--|------|--------|------------|------------|------------|------------|------------|------------|------------|------------|
|  |      |        | 50/110     |            | 100/160    |            | 150/210    |            | 200/160    |            |
| Production to order, delivery time on request, minimum order quantity of 100 pcs. per desired item. Other sizes available upon request | 5    | 3/16"  |            |            |            |            |            |            |            |            |
|  | 6    | 15/64" |            |            |            |            |            |            |            |            |
|  | 6,5  | 1/4"   |            |            |            |            |            |            |            |            |
|  | 8    | 5/16"  |            |            |            |            |            |            |            |            |
|  | 10   | 3/8"   |            |            |            |            |            |            |            |            |



## SDS-PLUS DRILL EXTENSION FOR A-CONE DRILL BITS INCL. DRIFT

| SDS-plus drill rods for A-cone drill bits   | Total length mm |
|---|-----------------|
| Production to order, delivery time approx. 8 working weeks after confirmation, minimum order quantity of 100 pcs. per desired item. | 270             |
|   | 500             |
|   | 650             |
|   | 800             |

# BREAK-THROUGH CORE DRILL BIT TYPE S WITH RATIO THREAD | 259



## EXECUTION

- Made of tempered steel
- High-temperature brazed at 1,120°C
- Highly wear-resistant carbide studs
- Austempered and surface strengthened
- Easy interchangeability by Screw-together system
- Ratio thread rd 14 2gg
- For hard materials (concrete, granite)

## FOR USE IN



## APPLICATION

- See product overview p.35
- Adapters with RATIO thread p.34

## PACKAGING



### Comments

- For a working length of 400 mm and more, pre-drilling must be carried out to a depth of at least 150 mm with a drill bit of the same diameter.
- For a working length of 800 mm and more, pre-drilling must be carried out to a depth of at least 400 mm with a short drill bit of the same diameter.
- Other dimensions on request

| D<br>∅ mm | D<br>∅ " |   |        |             |
|-----------|----------|---|--------|-------------|
| 35,0      | 1 3/8    | 1 | 300011 | 259 000 035 |
| 42,0      | 1 11/16  | 1 | 300035 | 259 000 042 |
| 45,0      | 1 3/4    | 1 | 300042 | 259 000 045 |
| 52,0      | 2 1/16   | 1 | 300066 | 259 000 052 |
| 55,0      | 2 3/16   | 1 | 300073 | 259 000 055 |
| 60,0      | 2 3/8    | 1 | 300080 | 259 000 060 |
| 65,0      | 2 5/8    | 1 | 300097 | 259 000 065 |
| 70,0      | 2 3/4    | 1 | 300103 | 259 000 070 |
| 80,0      | 3 1/16   | 1 | 300110 | 259 000 080 |
| 90,0      | 3 9/16   | 1 | 300127 | 259 000 090 |
| 100,0     | 3 15/16  | 1 | 300134 | 259 000 100 |
| 110,0     | 4 3/8    | 1 | 300141 | 259 000 110 |
| 125,0     | 5        | 1 | 300158 | 259 000 125 |
| 135,0     | 5 5/16   | 1 | 300165 | 259 000 135 |
| 150,0     | 6        | 1 | 300172 | 259 000 150 |

## BREAK-THROUGH CORE DRILL BIT WITH RATIO THREAD

### With self-sharpening carbide studs:

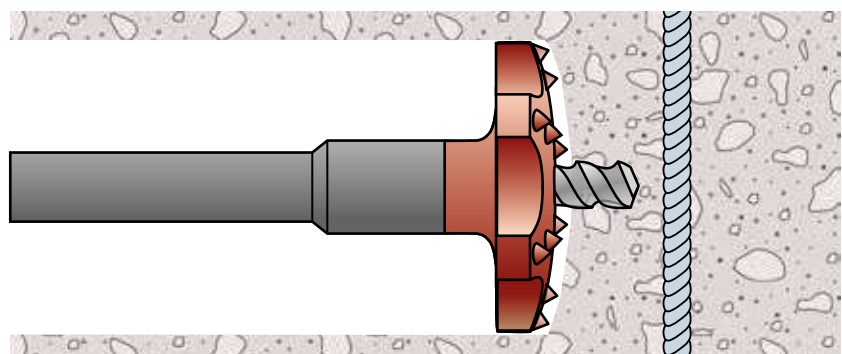
- High drilling power due to wear-resistant carbide studs which sharpen automatically during cutting
- Ideal for use in hard, dry concrete, granite and very hard stone

### The advantages:

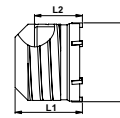
- Economic drilling in concrete, masonry and lightly reinforced concrete from ∅35 to ∅150mm diameter and to a depth of up to 2 metres
- Above average tool life
- Smooth breakthroughs through concrete and masonry up to large diameters due to practical designs.
- The system can be extended as required by simply screwing together the 300 mm and 450 mm extension pieces. It is recommended to grease the threaded bolts to ensure easy and non-destructive release of the components. We recommend the thread grease for this (Item 259 008 010)

### The principle:

- Interchangeability of all components in the drilling system
- Any length of extension is possible due to simply screwing together parts



# HAMMER HOLLOW CORE WITH RATIO THREAD | 259



## EXECUTION

- Made of tempered steel
- High-temperature vacuum brazed at 1,120°C
- Highly wear-resistant carbide tips
- Hardened and surface strengthened
- 2 stage special high temperature heat treatment
- Easy interchangeability by screw-together system
- Ratio thread rd 14 2gg

| D<br>Ø mm | D<br>Ø " | L2<br>mm | L1<br>mm |   | EAN<br>4016707... | <br>12345   |
|-----------|----------|----------|----------|---|-------------------|-------------|
| 40,0      | 1 9/16   | 75       | 100      | 1 | 300523            | 259 700 040 |
| 50,0      | 2        | 75       | 100      | 1 | 300462            | 259 700 050 |
| 60,0      | 2 3/8    | 75       | 100      | 1 | 300592            | 259 700 060 |
| 65,0      | 2 5/8    | 75       | 100      | 1 | 300479            | 259 700 065 |
| 80,0      | 3 1/8    | 75       | 100      | 1 | 300486            | 259 700 080 |
| 90,0      | 3 9/16   | 75       | 100      | 1 | 300493            | 259 700 090 |
| 100,0     | 3 15/16  | 75       | 100      | 1 | 300509            | 259 700 100 |
| 110,0     | 4 3/8    | 75       | 100      | 1 | 300547            | 259 700 110 |
| 125,0     | 5        | 75       | 100      | 1 | 300608            | 259 700 125 |

## FOR USE IN



## CUTTING HELIX



## APPLICATION

- See product overview p.35
- Adapters with RATIO thread p.34

| D<br>Ø mm | L2<br>mm | L1<br>mm |             |   | EAN<br>4016707... | <br>12345   |
|-----------|----------|----------|-------------|---|-------------------|-------------|
| 32,0      | 80       | 115      | 32 - 45 mm  | 1 | 343018            | 259 032 000 |
| 47,0      | 80       | 115      | 52 - 60 mm  | 1 | 343025            | 259 047 000 |
| 63,0      | 80       | 115      | 65 - 70 mm  | 1 | 343032            | 259 063 000 |
| 78,0      | 80       | 115      | 80 - 150 mm | 1 | 343049            | 259 078 000 |

## PACKAGING



## EXTENSION WITH RATIO THREADED BOLT



| L1<br>mm |   | EAN<br>4016707... | <br>12345   |
|----------|---|-------------------|-------------|
| 300      | 1 | 300189            | 259 300 000 |
| 450      | 1 | 300196            | 259 450 000 |

## THREADED BOLT WITH RATIO THREAD



| L1<br>mm |   | EAN<br>4016707... | <br>12345   |
|----------|---|-------------------|-------------|
| 60       | 1 | 300219            | 259 000 001 |



# HAMMER HOLLOW CORE WITH RATIO THREAD | 259

## EXECUTION

- Made of tempered steel
- High-temperature vacuum brazed at 1,120°C
- Highly wear-resistant carbide tips
- Hardened and surface strengthened
- 2 stage special high temperature heat treatment
- Easy interchangeability by screw-together system
- Ratio thread rd 14 2gg

## FOR USE IN



## APPLICATION

- See product overview p.35
- Adapters with RATIO thread p.34

## PACKAGING



## CENTRE DRILL BIT WITH RATIO THREAD



| D<br>Ø mm | D<br>Ø " | L1<br>mm |                    |   | EAN<br>4016707... | 12345       |
|-----------|----------|----------|--------------------|---|-------------------|-------------|
| 12,0      | 15/32    | 155      | Hammer hollow core | 1 | 300516            | 259 120 155 |
| 16,0      | 5/8      | 124      | Break through core | 1 | 300226            | 259 160 124 |
| 16,0      | 5/8      | 174      | Break through core | 1 | 300233            | 259 160 174 |

## THREAD GREASE 120 GRAMS, WATERPROOF, HEAT RESISTANT



|   | EAN<br>4016707... | 12345       |
|---|-------------------|-------------|
| 1 | 300554            | 259 008 010 |

## HAMMER HOLLOW CORE WITH RATIO THREAD

- Flexible use with many 259 system components, such as drill adapters, extension pieces etc.
- Extremely solid design for the most demanding applications
- Manufactured of tempered steel which is used, among other things, for crankshafts and drive axles in the automotive industry
- Particularly high impact strength carbide studs which also cut very well
- High-temperature vacuum brazing at 1,120°C
- 2-steps special high temperature treatment

### The principle:

- Interchangeability of all components in the drilling system
- Any length of extension is possible due to simply screwing together parts

### The advantages:

- Economic drilling in concrete, masonry and lightly reinforced concrete from ø35 to ø150mm diameter and to a depth of up to 2 metres
- Above average tool life
- Smooth breakthroughs through concrete and masonry up to large diameters due to practical designs.
- The system can be extended as required by simply screwing together the 300 mm and 450 mm extension pieces. It is recommended to grease the threaded bolts to ensure easy and non-destructive release of the components. We recommend the thread grease for this (Item 259 008 010).

# ADAPTERS WITH RATIO THREAD | 259



## EXECUTION

- Internal thread RATIO rd 14 2gg

## APPLICATION

- For locking of core bits with ratio thread

## PACKAGING



### DRIVE



L1



SDS-plus  
HILTI TE-C



110 259 170 000 300271



SDS-max  
HILTI TE-Y

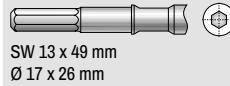


190 259 150 000 300301  
400 259 150 400 300615  
575 259 150 575 300578  
975 259 150 975 300585



Spline Shank

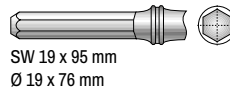
175 259 110 000 300240



Hitachi DH 38 YB, DH 45 SA, H 41 SA, H 65 SB, VRY 38, DH 28 Y; Makita 8022B-8035B, Ryobi CH 450 P, ER 382 K

SW 13 x 49 mm  
Ø 17 x 26 mm

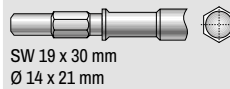
170 259 120 000 300257



Duss P60 - P90

SW 19 x 95 mm  
Ø 19 x 76 mm

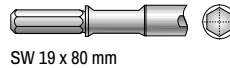
200 259 180 000 300318



Kango 950, 950x, 900x, 928 1400; Hitachi DH50SA

SW 19 x 30 mm  
Ø 14 x 21 mm

210 259 160 000 300295



Wacker E HUB 10 Y, EH8/220, BHB 14

SW 19 x 80 mm

185 259 190 000 300325

# SYSTEM 259 PRODUCT OVERVIEW | 259

ADAPTOR



EXTENSION WITH  
THREADED BOLT



STEEL HELIX



CORE DRILL BIT



DRILL BIT



EXAMPLES

Example 1



Example 2



Example 3



extendable to maximum 5 extensions

# ADAPTERS FOR SDS-PLUS | 265



## EXECUTION

- Locking grooves with sliding lock

## APPLICATION

- For use with SDS-plus hammer drill bits
- Universal drill bits SDS-plus
- Drill bits for timbering SDS-plus

## PACKAGING



### DRIVE



SDS-top  
HILTI TE-T



225 265 160 000 270314



SDS-max  
HILTI TE-Y



225 265 150 000 270239



spline shank

225 265 110 000 270192



Hitachi DH 38 YB, DH 45 SA, H 41 SA, H 65 SB, VRY 38, DH 28 Y; Makita 8022B-8035B, Ryobi CH 450 P, ER 382 K

SW 13 x 49 mm  
Ø 17 x 26 mm

225 265 120 000 270208



Duss P20 - P30; Duss P28, P28S, P30

SW 13 x 68 mm  
Ø 19 x 76 mm

225 265 130 000 270215

# SDS-PLUS LOCATING SHANK FOR CHUCKS

## SDS-PLUS LOCATING SHANK FOR BITS AND KEILBIT | 264

### DRIVE



### SDS-PLUS LOCATING SHANK FOR CHUCKS



### EXECUTION

- 1/2" thread - 20 UNF-2A
- Internal M6-LH thread
- Shank for chuck
- Screw included
- Suitable for hammer drilling machines with SDS-plus fitting

|   |        |             |
|---|--------|-------------|
|   |        |             |
| 1 | 270260 | 264 000 002 |

### PACKAGING



### DRIVE



### SDS-PLUS LOCATING SHANK FOR BITS AND KEILBIT



### EXECUTION

- Bit holder with SDS-plus fitting
- Made of stainless steel with forged inside hexagon 1/4" bit locking

|   |        |             |
|---|--------|-------------|
|   |        |             |
| 1 | 270253 | 264 000 001 |

### PACKAGING



# KEIL SPECIAL TOOLS

If you are looking for products which cope with your particular exigencies or products which are required for special fields of application, do not hesitate to contact us.

In addition to our standard articles we develop and manufacture special tools in close collaboration with you which represent accurately fitting solutions to your requirements.



# CHISEL

MORTISING, SLOT MILLING OR BREAKING THROUGH



|                                |    |
|--------------------------------|----|
| Chisel RS self sharpening      | 41 |
| Point chisel                   | 42 |
| Flat chisel                    | 42 |
| Spade chisel                   | 43 |
| Hollow chisel                  | 43 |
| Chisel with channel and glides | 44 |
| Tile chisel                    | 44 |

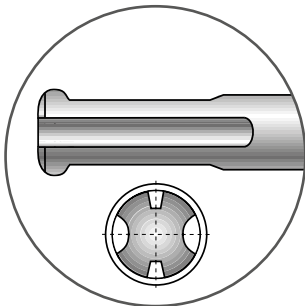
# CHISEL

Concrete, brick work, asphalt or natural stone - with our percussion drilling tools we always offer the perfect solution - also for the most difficult chisel applications.



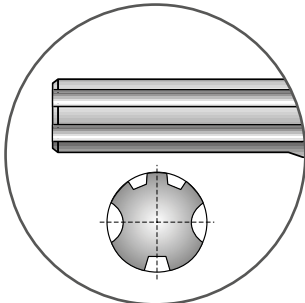
## CHISEL

The chisel is made of shot peened and high quality tool steel. The different types are point chisel, flat chisel, spade chisel, hollow chisel, the uni-channel chisel and the tile chisel.



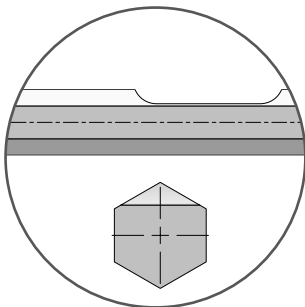
## SDS-PLUS DRIVE

The SDS-plus drive is designed for light chisel working with optimum load transmission. The SDS-plus drive is also available as point chisel for drill machines without rotating shutdown.



## SDS-MAX DRIVE

The SDS-max drive is designed for hard and continuous operation.



## HEXAGONAL DRIVE

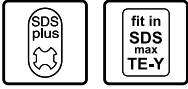
The drive is suitable for all percussion hammer with different hexagonal locking.



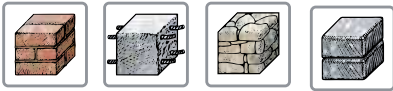
# CHISEL RS SDS-PLUS UND SDS-MAX | 500 | 501 | SELF SHARPENING



## DRIVE



## FOR USE IN



## PACKAGING



## SPECIALTIES

### Advantages:

- Permanent sharper chisels
- Reduced wear
- No need to re-sharpen
- Continual high removal performance
- Economical working
- Long tool life
- High stability by means of technical improvements

### Characteristics:

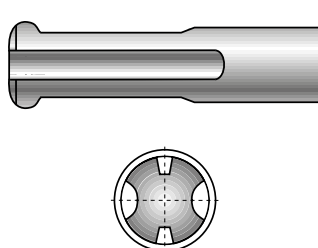
- Innovative geometries which make it easy to penetrate into the material to be removed
  - Point chisel with twisted profile
  - Flat chisel with power ribs and bars
  - Spade and scraping chisel with contantly slim surface and strengthening ribs on the sides
- Shot peened and hardened high quality and wear-resistant tool steel

## SDS-PLUS / HILTI TE-C

|                 | L1<br>mm | B<br>mm | EAN<br>4016707... | 12345       |
|-----------------|----------|---------|-------------------|-------------|
| Point chisel    | 250      |         | 916434            | 500 000 250 |
| Flat chisel     | 250      | 20      | 916458            | 500 120 250 |
| Spade chisel    | 250      | 40      | 916472            | 500 240 250 |
| Scraping chisel | 250      | 60      | 916489            | 500 260 250 |

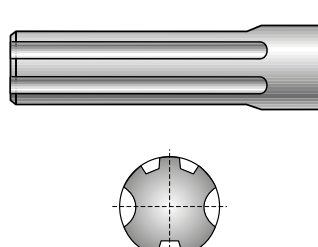
## SDS-MAX / HILTI TE-Y

|              | L1<br>mm | B<br>mm | EAN<br>4016707... | 12345       |
|--------------|----------|---------|-------------------|-------------|
| Point chisel | 400      |         | 916441            | 501 000 400 |
| Flat chisel  | 400      | 25      | 916465            | 501 125 400 |
| Spade chisel | 400      | 80      | 916496            | 501 280 400 |



### SDS-PLUS / HILTI TE-C

- For use in heavy drill and hammer machines
- For light chiselwork at renovation and restoration



### SDS-MAX / HILTI TE-Y

- For use in heavy drill and hammer machines
- Suitable for especially heavy and continous operation
- For mortising and demolition work, breakthroughs, renovation and restoration

# POINT CHISEL



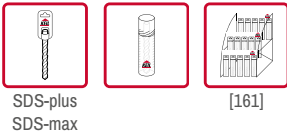
## EXECUTION

- Made of high-quality tool steel, shot-peened and hardened

## FOR USE IN



## PACKAGING



SDS-plus  
SDS-max

[161]

## DRIVE



L1



SDS-plus  
HILTI TE-C  
without disabling  
of rotation



250 502 000 250 260117



SDS-plus  
HILTI TE-C



140 502 000 140 260254  
250 502 000 251 260100



SDS-max  
HILTI TE-Y



280 503 000 280 260018  
400 503 000 400 260025  
600 503 000 600 260032



Bosch GSH27,  
USH27, HSH28

SW 28

400 505 028 400 266010



Makita HM1300, HM1303,  
HM1304, HM 1400, HM1500,  
8900N Hitachi H65SB, H70SA

SW 30 Ø 24 x 55 mm

400 509 030 400 266102

# FLAT CHISEL



## EXECUTION

- Made of high-quality tool steel, shot-peened and hardened

## FOR USE IN



## PACKAGING



SDS-plus  
SDS-max

[161]

## DRIVE



L1



B



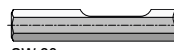
140 20 502 120 140 260261  
250 20 502 120 250 260131



SDS-max  
HILTI TE-Y



280 25 503 125 280 260049  
400 25 503 125 400 260056  
600 25 503 125 600 260063

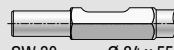


Bosch GSH27,  
USH27, HSH28

SW 28



400 35 505 128 400 266027



Makita HM1300,  
HM1303, HM1304, HM  
1400, HM1500, 8900N  
Hitachi H65SB, H70SA

SW 30 Ø 24 x 55 mm

400 32 509 130 400 266119

# SPADE CHISEL



## EXECUTION

- Made of high-quality tool steel, shot-peened and hardened

## FOR USE IN



## PACKAGING



SDS-plus  
SDS-max

[161]

# HOLLOW CHISEL



## EXECUTION

- Made of high-quality tool steel, shot-peened and hardened

## FOR USE IN



## PACKAGING



SDS-plus  
SDS-max

[161]

| DRIVE |   | L1<br>mm   | B<br>mm  | EAN                        |                  |
|-------|---|------------|----------|----------------------------|------------------|
|       | SDS-plus<br>HILTI TE-C  | 140<br>250 | 30<br>40 | 502 230 140<br>502 240 250 | 260278<br>260148 |
|       | SDS-max<br>HILTI TE-Y   | 300<br>400 | 80<br>50 | 503 280 300<br>503 250 400 | 260070<br>260087 |
|       | Bosch GSH27,<br>USH27, HSH28  | 400        | 80       | 505 228 400                | 266034           |
|       | Makita HM1300,<br>HM1303, HM1304, HM<br>1400, HM1500, 8900N -<br>HITACHI H65SB, H70SA | 400        | 75       | 509 230 400                | 266126           |

# CHISEL WITH CHANNEL AND GLIDES


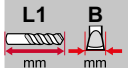








## EXECUTION

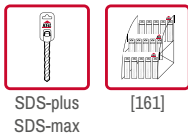
- Made of high-quality tool steel, shot-peened and hardened

## FOR USE IN



| DRIVE   |  |  |  |  |
|---|---|---|---|---|
|  | SDS-plus<br>HILTI TE-C  |   | 250 22 502 422 250  | 260179  |
|  | SDS-max<br>HILTI TE-Y   |   | 380 35 503 435 380  | 260186  |

## PACKAGING



# TILE CHISEL


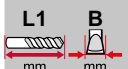








## EXECUTION

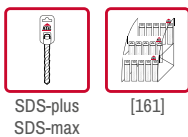
- Made of high-quality tool steel, shot-peened and hardened

## FOR USE IN



| DRIVE   |  |  |  |  |
|---|---|---|---|---|
|  | SDS-plus<br>HILTI TE-C  |   | 200 40 502 540 200  | 260162  |
|  | SDS-max<br>HILTI TE-Y   |   | 300 50 503 550 300  | 260193  |

## PACKAGING



# STONE AND SPECIAL DRILL BITS

SIMPLE AND PRECISE

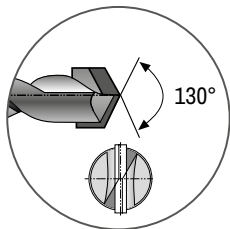


|   |       |
|---|-------|
| 119   219 Universal drill bit GOLDCRAFT                 | 48–49 |
| 119   SDS-plus MS5 universal drill bit GOLDCRAFT        | 50    |
| 168   Hard stone drill bit HARDTEC                      | 51    |
| 151   Tile / brick drill bit KERAMIK                    | 52–53 |
| 786   Tile drill bit KERAMIK diamond - dry drill        | 54–55 |
| 788   Tile drill bit KERAMIK diamond - dry drill M14    | 54–55 |
| 130   Glass drill bit                                   | 56    |
| 131   Glass drill bit KEILBIT                           | 57    |
| 166   Universal drill bit KEILBIT                       | 58    |
| 238   Concrete drill bit MS5 TURBOHEAD Xpro             | 59    |
| 258   Concrete drill bit MS5 TURBOKEIL                  | 60    |
| 154   204   404   Granite drill bit PRIMUS              | 61    |
| 150   200   400   600   Percussion drill bit KEILER     | 62–63 |
| 190   290   Masonry drill bit OPAL                      | 64    |
| 715   Universal hollow core                             | 65    |
| 719   Universal hollow core M16 GOLDCRAFT               | 66    |
| 719   Centre drill bit GOLDCRAFT for locating shank M16 | 67    |
| 711   Hollow core M16 complete                          | 68    |
| 710   Hollow core M16                                   | 69    |
| 712   Locating shank M16 hexagon                        | 70    |
| 713   Locating shank M16 SDS-Plus                       | 71    |
| 713   Centre drill bit for locating shank M16           | 71    |
| 714   Locating shank M16 SDS-PLUS complete              | 72    |
| 800   Quick bit holder for bits and KEILBIT             | 72    |

# PERCUSSION DRILL BITS

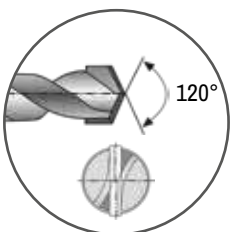
No problem at all.

The percussion drill bit easily and precisely manages each challenge.



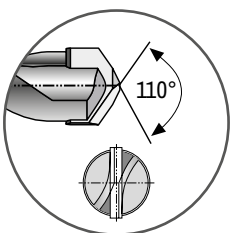
## UNIVERSAL DRILL BITS GOLDCRAFT

With the special cutting edge geometry, the diamond ground cutting zone and the carbide plate the GOLDCRAFT is suitable for nearly all materials to be drilled. The very hard tungsten-titanium carbide tip stands for an extremely wear resistant drill bit.



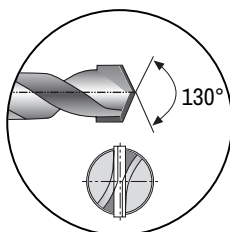
## HARD STONE DRILL BIT HARDTEC

Thanks to the high portion of tungsten carbide and its homogeneous fine structured grain the HARDTEC can drill reliable through hardest stone like granite, gneiss, slate and basalt at the recommended 1000 rpm and high contact pressure.



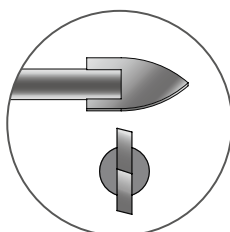
## TILE / BRICK DRILL BITS

The high-performance drill bit allows dry drilling in hardest ceramics, stoneware, tiles and hard burnt bricks up to a scratch hardness of 9. The tungsten-titanium tip is a diamond ground special hard metal tip.



## STONE DRILL BIT

The masonry drill has a non-cutting shaped drilling helix, which is also suitable for rotating application into concrete. The material strength is adapted to drill shanks and shaft diameters. Therefore it is appropriate for rotating as well as for percussive application.



## GLASS DRILL BIT

The glass drill bit drills precise and exact holes in sensitive and hard materials. The specially ground cutting edge allows a careful drilling process. The life time of this drill can be considerably prolonged by regrinding.



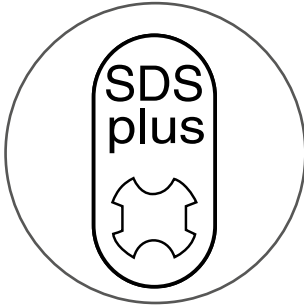
## ROTASTOP

Optimal anti-twist protection, low frictional loss, high drilling performance. 99 % of the ROTASTOP shape guarantee an optimum transmission of torque. The result: no slipping in the chuck. ROTASTOP allows easy tool changing within seconds.

# PERCUSSION DRILL BITS

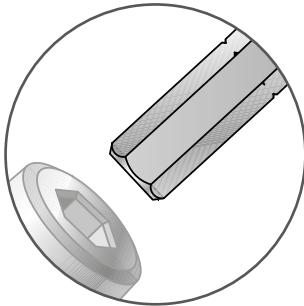
No problem at all.

The percussion drill bit easily and precisely manages each challenge.



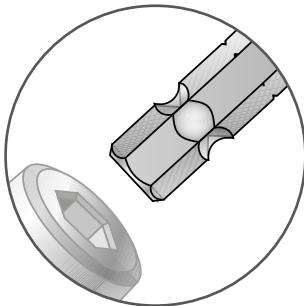
## SDS-PLUS LOCKING

The SDS-plus shaft is directly fitting into all hammer drilling machines with SDS-plus and Hilti TE-C chuck.



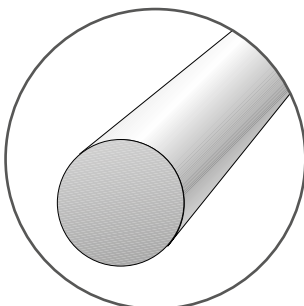
## KEILBIT (C 6.3 MM)

This is a different kind of shaft of the KEILBIT with short hexagonal shank and short drill bit.



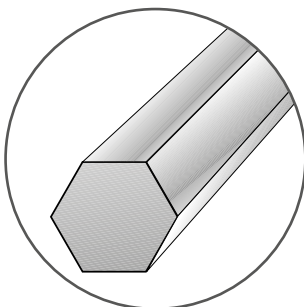
## KEILBIT (E 6.3 MM)

Modern cordless screwdrivers are extremely powerful and can definitely be used for drilling. The KEILBIT has specially been invented for the fast and direct application in these machines. No change of machines is necessary anymore. For the various materials we offer different alternatives of the KEILBIT.



## CYLINDRICAL SHAFT

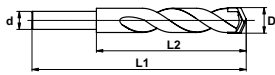
Tools with round shaft are the top selling drilling tools. The round shaft is fitting into all three-jaw chucks and quick change chuck.



## HEXAGONAL SHAFT (10.0 MM)

The hexagonal shank offers a better transmission of rotation especially when working with big diameters and long drill bits.

# UNIVERSAL DRILL BIT GOLDCRAFT



## DRIVE



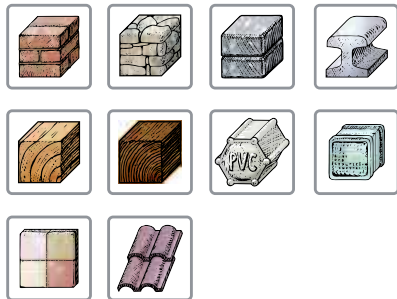
## EXECUTION



Certified product by  
Prüfungsgemeinschaft Mauerbohrer (PGM)

- ISO 5468
- Special cutting edge geometry (see diagram)
- Diamond-ground carbide tip
- Universal drill bit with asymmetric spiral shape
- Milled flute for optimum removal of drilling dust
- Straight flute entry
- High-temperature brazing at about 1,120°C
- Special cutting helix with micro surface hardness
- Ground surface

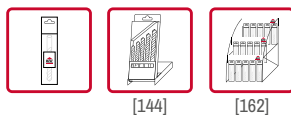
## FOR USE IN



## APPLICATION

- In all rotary and percussion drilling machines

## VERPACKUNG



### Comments

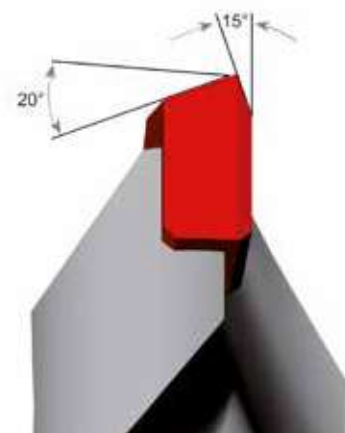
- Regrinding of the carbide tip becomes necessary during prolonged use
- Higher wear of carbide tip when drilling in abrasive materials
- Only use sharp drill bits for drilling in porcelain, ceramics, glass

| D<br>ø mm | D<br>ø " | L2<br>mm | L1<br>mm | d<br>ø mm |    | EAN<br>4016707... | 12345       |
|-----------|----------|----------|----------|-----------|----|-------------------|-------------|
| 3,0       | 1/8      | 40       | 70       | 2,8       | 20 | 210013            | 119 000 030 |
| 4,0       | 5/32     | 40       | 75       | 3,6       | 20 | 210020            | 119 000 040 |
| 5,0       | 3/16     | 50       | 85       | 4,6       | 20 | 210037            | 119 000 050 |
| 5,0       | 3/16     | 110      | 150      | 4,6       | 10 | 212017            | 219 000 050 |
| 5,5       | 7/32     | 50       | 85       | 5,1       | 20 | 210044            | 119 000 055 |
| 6,0       | 15/64    | 60       | 100      | 5,6       | 20 | 210051            | 119 000 060 |
| 6,0       | 15/64    | 110      | 150      | 5,6       | 10 | 212024            | 219 000 060 |
| 6,0       | 15/64    | 200      | 250      | 5,6       | 10 | 916878            | 219 060 250 |
| 6,5       | 1/4      | 60       | 100      | 6,1       | 20 | 210068            | 119 000 065 |
| 6,5       | 1/4      | 110      | 150      | 6,1       | 10 | 212031            | 219 000 065 |
| 6,5       | 1/4      | 200      | 250      | 6,1       | 10 | 916885            | 219 065 250 |
| 7,0       | 9/32     | 60       | 100      | 6,6       | 20 | 210075            | 119 000 070 |
| 7,0       | 9/32     | 200      | 250      | 6,6       | 10 | 916892            | 219 070 250 |
| 8,0       | 5/16     | 80       | 120      | 7,1       | 20 | 210082            | 119 000 080 |
| 8,0       | 5/16     | 135      | 200      | 7,3       | 10 | 212048            | 219 000 080 |
| 9,0       | 11/32    | 80       | 120      | 8,1       | 20 | 210099            | 119 000 090 |
| 10,0      | 3/8      | 80       | 120      | 8,7       | 20 | 210105            | 119 000 100 |
| 10,0      | 3/8      | 135      | 200      | 8,7       | 10 | 212055            | 219 000 100 |
| 12,0      | 15/32    | 90       | 150      | 10,0      | 10 | 210112            | 119 000 120 |
| 12,0      | 15/32    | 135      | 200      | 10,0      | 10 | 212062            | 219 000 120 |
| 14,0      | 9/16     | 90       | 150      | 10,0      | 10 | 210129            | 119 000 140 |
| 16,0      | 5/8      | 90       | 150      | 10,0      | 10 | 210310            | 119 000 160 |

## UNIVERSAL DRILL BIT GOLDCRAFT

The GOLDCRAFT is suitable for almost all materials to be drilled due to the special cutting edge geometry and the diamond-ground cutting surfaces of the carbide tip.

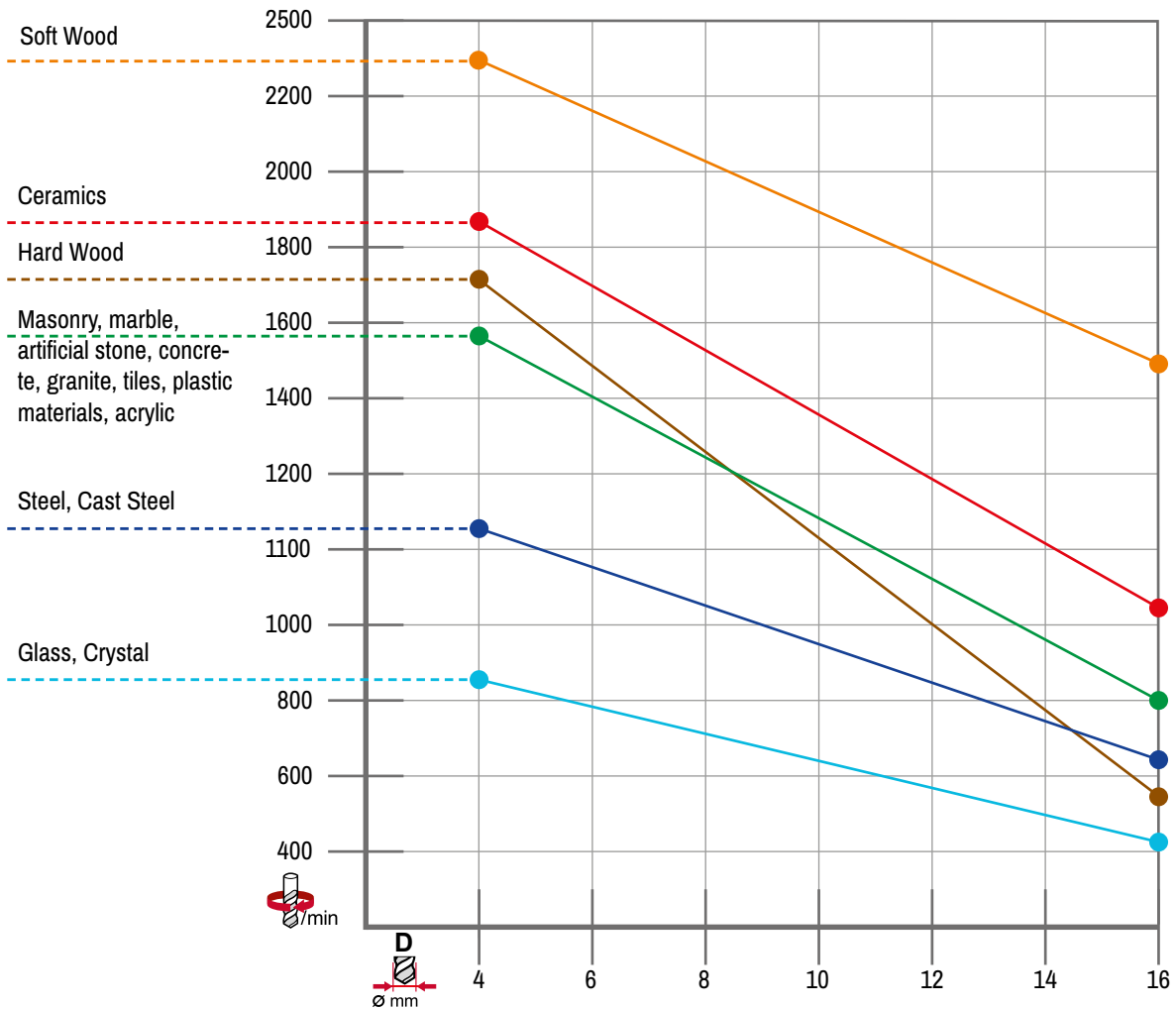
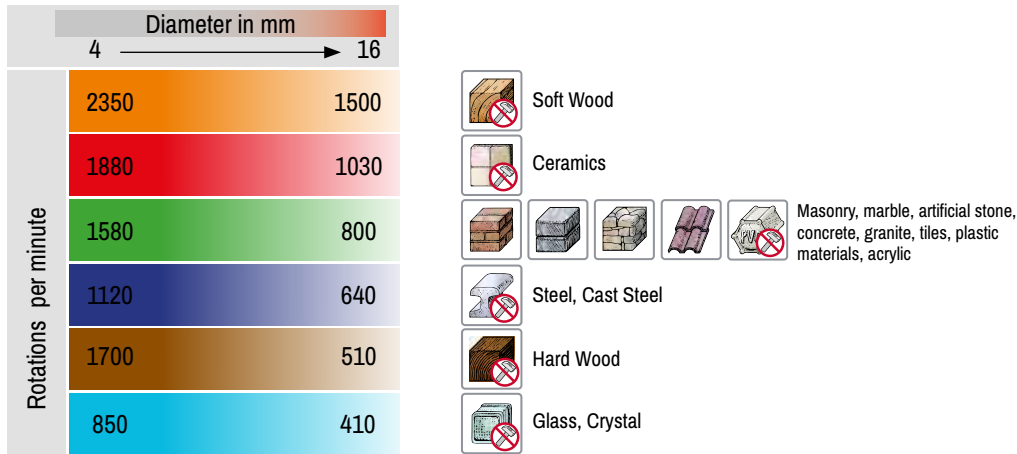
The very hard tungsten-titanium carbide tip makes the drill bit extremely wear resistant.



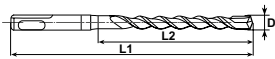


# UNIVERSAL DRILL BIT

## GUIDE VALUES FOR UNIVERSAL DRILL BITS GOLDCRAFT



# SDS-PLUS UNIVERSAL DRILL BIT GOLDCRAFT | 119



## DRIVE



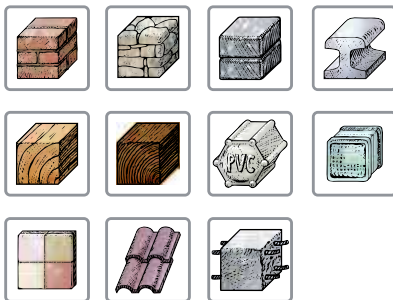
## EXECUTION



Certified product by  
Prüfgemeinschaft Mauerbohrer (PGM)

- ISO 5468
- Special cutting edge geometry (see diagram)
- Diamond-ground carbide tip
- Universal drill bit with MS5 helix
- High-temperature brazing at about 1,120°C
- Special cutting helix with micro surface hardness
- Ground surface

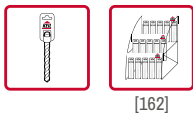
## FOR USE IN



## APPLICATION

- Fits directly into all hammer drilling machines with SDS-plus and HILTI TE-C drive
- Adapters for SDS-plus [36]

## PACKAGING



[162]

## Comments

- Regrinding of the carbide tip becomes necessary during prolonged use
- Higher wear of carbide tip when drilling in abrasive materials
- Only use sharp drill bits for drilling in porcelain, ceramics, glass

| D<br>Ø mm | D<br>Ø " | L2<br>mm | L1<br>mm |   | EAN<br>4016707... | 12345       |
|-----------|----------|----------|----------|---|-------------------|-------------|
| 5,0       | 3/16     | 50       | 110      | 1 | 213090            | 119 255 010 |
| 6,0       | 15/64    | 50       | 110      | 1 | 213106            | 119 255 011 |
| 6,0       | 15/64    | 100      | 160      | 1 | 213014            | 119 255 001 |
| 8,0       | 5/16     | 50       | 110      | 1 | 213113            | 119 255 012 |
| 8,0       | 5/16     | 100      | 160      | 1 | 213021            | 119 255 002 |
| 8,0       | 5/16     | 150      | 210      | 1 | 213038            | 119 255 003 |
| 10,0      | 3/8      | 100      | 160      | 1 | 213045            | 119 255 004 |
| 10,0      | 3/8      | 200      | 260      | 1 | 213052            | 119 255 005 |
| 12,0      | 15/32    | 100      | 165      | 1 | 213069            | 119 255 006 |
| 12,0      | 15/32    | 200      | 260      | 1 | 213076            | 119 255 007 |
| 14,0      | 9/16     | 200      | 265      | 1 | 213083            | 119 255 008 |

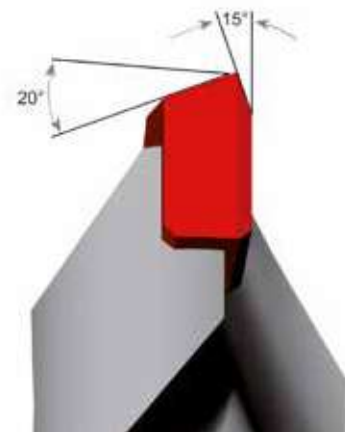
## SDS-PLUS MS 5 UNIVERSAL DRILL BIT GOLDCRAFT

The GOLDCRAFT is suitable for almost all materials to be drilled due to the special cutting edge geometry and the diamond-ground cutting surfaces of the carbide tip.

The very hard tungsten-titanium carbide tip makes the drill bit extremely wear resistant.

**MS5 spiral for ergonomic and ecological work flow:**

- High drilling speed
- Fast transport of drilling dust
- High grade of stiffness and long service life
- High resistance against Breakage



# HARDTEC HARD STONE DRILL BIT | 168



## DRIVE



| D<br>Ø mm | D<br>Ø " | L2<br>mm | L1<br>mm | d<br>Ø mm |    | EAN<br>4016707... | 12345       |
|-----------|----------|----------|----------|-----------|----|-------------------|-------------|
| 4,0       | 5/32     | 40       | 75       | 4         | 20 | 915772            | 168 000 040 |
| 5,0       | 3/16     | 50       | 85       | 5         | 20 | 915789            | 168 000 050 |
| 6,0       | 15/64    | 60       | 100      | 6         | 20 | 915796            | 168 000 060 |
| 8,0       | 5/16     | 75       | 120      | 8         | 20 | 915802            | 168 000 080 |
| 10,0      | 3/8      | 75       | 120      | 10        | 20 | 915857            | 168 000 100 |

## EXECUTION



Certified product by  
Prüfgemeinschaft Mauerbohrer (PGM)

- ISO 5468
- Asymmetric spiral shape
- Straight flute entry
- Milled flute
- Special carbide tip
- Diamond-ground carbide tip
- High-temperature vacuum brazing at 1120°C
- Ground surface

## FOR USE IN



## SPECIAL FEATURES

### Special carbide tip:

- High portion of tungsten carbide
- Homogenous fine structured grain
- Special cutting edge of 120°
- Precise diamond grinding

### Materials:

- Expert for granite, gneissic rock, slate, basalt
- Specially suitable for hard ceramic tiles, porcelain and other hard materials

### Advantages:

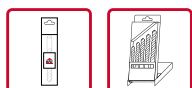
- Wear resistant carbide drill bit with long life time
- High drilling speed
- The drill bit can be resharpened with a diamond- or silicon carbide grinding wheel
- Very long service life



## APPLICATION

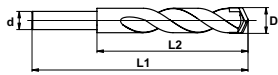
- In all rotary and percussion drilling machines
- Only for rotary use
- High contact pressure
- Rotation speed approx. 1000 rpm

## PACKAGING



[144]

# TILE/BRICK DRILL BIT KERAMIK WITH TSM CARBIDE TIP | 151



## DRIVE



| D<br>Ø mm | D<br>Ø " | L2<br>mm | L1<br>mm | d<br>Ø mm |    | EAN<br>4016707... | 12345       |
|-----------|----------|----------|----------|-----------|----|-------------------|-------------|
| 4,0       | 5/32     | 40       | 75       | 3,6       | 20 | 510106            | 151 018 040 |
| 5,0       | 3/16     | 50       | 85       | 4,6       | 20 | 510113            | 151 018 050 |
| 5,5       | 7/32     | 50       | 85       | 5,1       | 20 | 904875            | 151 018 055 |
| 6,0       | 15/64    | 60       | 100      | 5,6       | 20 | 510120            | 151 018 060 |
| 6,5       | 1/4      | 60       | 100      | 6,1       | 20 | 904882            | 151 018 065 |
| 8,0       | 5/16     | 80       | 120      | 7,1       | 20 | 510137            | 151 018 080 |
| 10,0      | 3/8      | 80       | 120      | 8,7       | 20 | 510144            | 151 018 100 |
| 12,0      | 15/32    | 90       | 150      | 10,0      | 10 | 510151            | 151 018 120 |
| 14,0      | 9/16     | 90       | 150      | 10,0      | 10 | 510090            | 151 017 140 |

## EXECUTION

- ISO 5468
- Asymmetric spiral shape
- Milled flute for optimum removal of drilling dust
- Straight flute entry
- Tungsten-titanium TSM carbide tip
- High-temperature brazing at about 1,120°C
- Burnished surface
- Up to 12 mm Ø with ROTASTOP shank

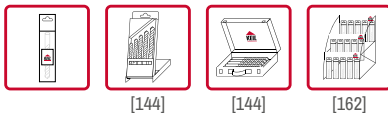
## FOR USE IN



## APPLICATION

- In all rotary and percussion drilling machines
- High contact pressure
- 20 seconds cooling time
- Only for rotary use
- In materials up to scratch hardness of 9
- Drilling process and tool life can be increased by cooling with water

## PACKAGING



[144]

[144]

[162]

# TILE/BRICK DRILL BIT

## FEATURES:



- A new technology makes it possible to use this high-performance rotary drill bit for dry drilling in hardest ceramic, porcelain stoneware, tiles and hard burnt brick up to a scratch hardness of 9
- The tungsten-titanium tip is a diamond-ground special carbide tip
- The special grinding has been adapted for the drilling of particularly dense material and guarantees a long life – up to 500% longer than comparable products.
- Low-stress high-temperature brazing at 1,120°C prevents detaching of the extremely hard and sharp carbide tip even under excessive loads.
- The intended microscopic breakouts on the cutting edges provide edges which stay sharp.

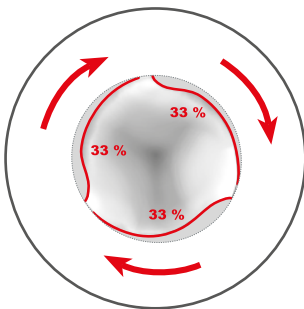
## DRILLING INFORMATION:

- A recommended speed of 600 to 1,200 rpm and sufficient contact pressure, which is always required for the exclusively rotary drilling of hard materials, are the prerequisites for good drilling progress and a long life of the drill tip.
- When used with rechargeable drilling machines the drill bit provides noticeably faster drilling than comparable rotary drill bits.
- We recommend to affix adhesive tape at the place of drilling.



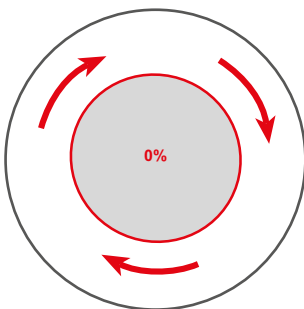
## ROTASTOP:

- The polygonal shape of the ROTASTOP section on the outside of the drill bit reduces surface contact to 3 points which leads to a reduction in the frictional resistance and thus to a considerably higher rate of work with noticeably improved performance of the drill bit.
- ROTASTOP allows easy tool changing within seconds and longer service lives for the tools.
- Optimal torsional rigidity | Low frictional losses | High drilling performance

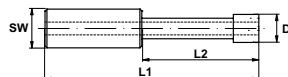


## PRODUKT INFORMATION ROTASTOP:

- Strength from the contour. The new performance shank for optimum torque transmission
- An unmatched 99 % of the contour of the ROTASTOP tool bit ensure optimum transmission of the torque, as ROTASTOP practically chucks itself automatically by means of the rising contours.
- The result: No slipping in the chuck and precise results when processing material.



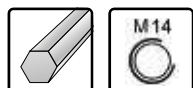
# TILE DRILL BIT/KERAMIK DIAMOND - DRY DRILL | 786



## TILE DRILL BIT/KERAMIK DIAMOND | 786



### DRIVE



| D<br>Ø mm | L1<br>mm | SW<br>mm | 1/min |   | EAN<br>4016707... | 12345       |
|-----------|----------|----------|-------|---|-------------------|-------------|
| 5,0       | 67       | 9,00     | 2.000 | 1 | 905735            | 786 090 050 |
| 6,0       | 67       | 9,00     | 2.000 | 1 | 905742            | 786 090 060 |
| 8,0       | 80       | 9,00     | 1.800 | 1 | 905759            | 786 090 080 |
| 10,0      | 80       | 9,00     | 1.600 | 1 | 905766            | 786 090 100 |
| 12,0      | 80       | 9,00     | 1.400 | 1 | 905773            | 786 090 120 |
| 15,0      | 80       | 9,00     | 1.400 | 1 | 905780            | 786 090 150 |
| 20,0      | 70       | 9,00     | 1.400 | 1 | 905797            | 786 090 200 |
| 25,0      | 70       | 9,00     | 1.400 | 1 | 905803            | 786 090 250 |
| 30,0      | 70       | 9,00     | 1.200 | 1 | 905810            | 786 090 300 |
| 35,0      | 70       | 9,00     | 1.200 | 1 | 905827            | 786 090 350 |
| 68,0      | 70       | 9,00     | 800   | 1 | 905865            | 786 090 680 |

### EXECUTION

- Vacuum-soldered diamonds
- Burnished surface
- Hollow section completely filled with cooling liquid (up to Ø 15mm)

### FOR USE IN



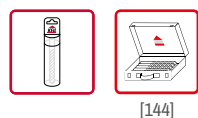
- In all rotary and percussion drilling machines
- Recommended cooling time 10 seconds
- For rotary use only
- In materials up to scratch hardness 9
- Dry drilling, no water necessary
- Long tool life with water supply

## TILE DRILL BIT KERAMIK DIAMOND WITH INTERNAL SCREW THREAD M14 | 788



| D<br>Ø mm | L1<br>mm | SW<br>mm | 1/min  |   | EAN<br>4016707... | 12345       |
|-----------|----------|----------|--------|---|-------------------|-------------|
| 5,0       | 62       | M14      | 10.000 | 1 | 915673            | 788 140 050 |
| 6,0       | 62       | M14      | 10.000 | 1 | 915680            | 788 140 060 |
| 8,0       | 62       | M14      | 10.000 | 1 | 915697            | 788 140 080 |
| 10,0      | 62       | M14      | 10.000 | 1 | 915703            | 788 140 100 |
| 12,0      | 62       | M14      | 10.000 | 1 | 915710            | 788 140 120 |
| 15,0      | 62       | M14      | 10.000 | 1 | 915727            | 788 140 150 |
| 20,0      | 60       | M14      | 10.000 | 1 | 915734            | 788 140 200 |
| 25,0      | 60       | M14      | 10.000 | 1 | 915741            | 788 140 250 |
| 30,0      | 60       | M14      | 10.000 | 1 | 915758            | 788 140 300 |
| 35,0      | 60       | M14      | 10.000 | 1 | 915765            | 788 140 350 |

### PACKAGING



[144]

## ACCESSORIES FOR TILE DRILL BIT KERAMIK DIAMOND



| No |   | EAN<br>4016707... | 12345       |
|----|---|-------------------|-------------|
| 1  | 1 | 580086            | 786 100 000 |
| 2  | 1 | 580093            | 786 100 002 |
| 3  | 1 | 580130            | 786 200 000 |
| 4  | 1 | 580123            | 786 200 001 |

# TILE DRILL BIT KERAMIK DIAMOND - DRY DRILL

Dry drilling in hardest materials, hard stoneware tiles, porcelain, bricks, glass, marble, granite and slate.

## ADVANTAGES:

- Fast drill progress
- Long tool life
- Clean cutting edge
- Dry drilling



For the complete installation of a bathroom a high number of bore holes in hard material is necessary. These materials become more and more demanding where the appropriate drilling tool is concerned. Nowadays not only plain tiles are used but hard stoneware like porcelain quality 5, marble, granite, hard ceramics as well as hardened tiles.

The Tile drill bit KERAMIK diamond is the ideal drilling tool to set safely and effectively a clean and precise hole. The advantage of these drill bits are the long durability and the speediness of the drilling process.

The drill bits are completed by professional accessories which guarantee that the drilling will be set on the exact place where it was planned. The two former plates are secure and foot-sure by the use of big vacuum suction stands. So they give the drill bit a secure hold for a precise drill. As additional possibility besides water supply herewith KEIL offers a complete system. The add-on water prolongs tool life, but is not necessary in principle.



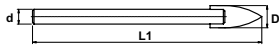
Recommended rotation speed  
Tile drill bit / KERAMIK diamond 786 - dry drill

| D<br>ø mm | Ø/min |
|-----------|-------|
| 5,0       | 2000  |
| 6,0       | 2000  |
| 8,0       | 1800  |
| 10,0      | 1600  |
| 12,0      | 1400  |
| 15,0      | 1400  |
| 20,0      | 1400  |
| 25,0      | 1400  |
| 30,0      | 1200  |
| 35,0      | 1200  |
| 68,0      | 800   |

## PILOT DRILLING WITHOUT ANY FACILITIES



# GLASS DRILL BIT | 130



## DRIVE



| $\varnothing$ mm | $\varnothing$ " | L1 mm | $\varnothing$ mm |    | EAN    |             |
|------------------|-----------------|-------|------------------|----|--------|-------------|
| 3,0              | 1/8             | 58    | 3,0              | 20 | 010019 | 130 000 030 |
| 4,0              | 5/32            | 58    | 3,5              | 20 | 010026 | 130 000 040 |
| 5,0              | 3/16            | 58    | 4,0              | 20 | 010033 | 130 000 050 |
| 5,5              | 7/32            | 58    | 4,0              | 20 | 010200 | 130 000 055 |
| 6,0              | 15/64           | 58    | 5,0              | 20 | 010040 | 130 000 060 |
| 7,0              | 9/32            | 78    | 5,0              | 20 | 010057 | 130 000 070 |
| 8,0              | 5/16            | 78    | 6,0              | 20 | 010064 | 130 000 080 |
| 9,0              | 11/32           | 98    | 6,0              | 20 | 010071 | 130 000 090 |
| 10,0             | 3/8             | 98    | 6,0              | 20 | 010088 | 130 000 100 |
| 12,0             | 15/32           | 98    | 8,0              | 20 | 010095 | 130 000 120 |

## EXECUTION

- Specially ground carbide tip
- Zinc-plated surface
- Thinned cross cutting edges provide precise drilling of pilot holes

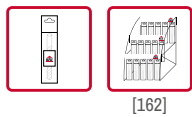
## FOR USE IN



## APPLICATION

- In all rotary and percussion drilling machines
- In machines for mechanical processing
- Only for rotary use
- In materials up to scratch hardness of 8

## PACKAGING



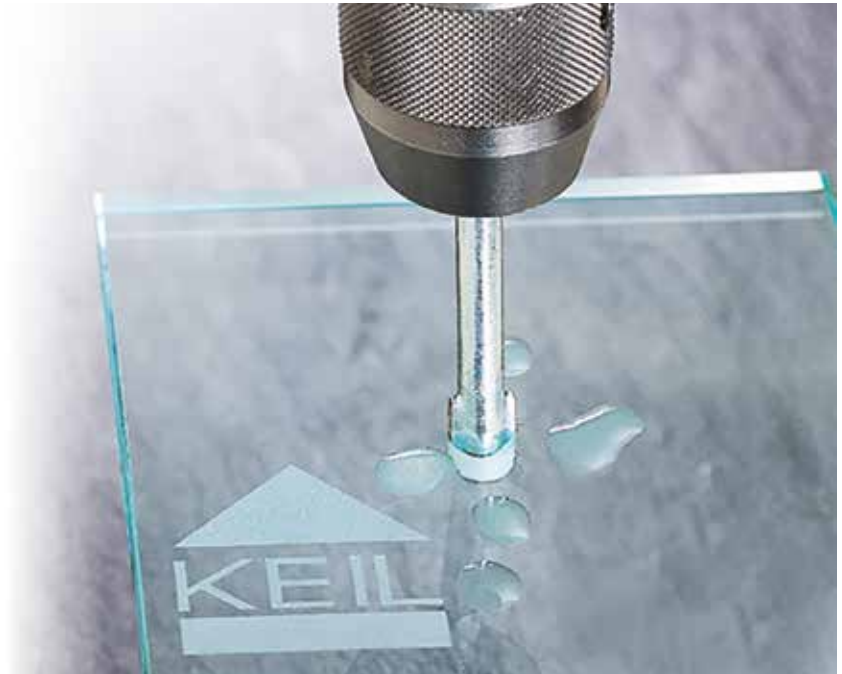
[162]

### Comments

- Set a low speed
- Cool sufficiently with water, turpentine, vinegar or paraffin
- Regrind frequently when drilling in hard materials

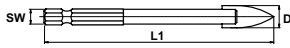
## GLASS DRILL BIT

The classic drilling tool for glass machining. Drills precise and exact holes in sensitive and hard materials. The specially ground cutting edges allow a careful drilling process. The tool life can be considerably prolonged by means of regrinding. During drilling process sufficient cooling and slow rotation speed is needed.





# GLASS DRILL BIT KEILBIT | 131



## DRIVE



## EXECUTION

- Specially ground carbide tip
- Grey surface
- Thinned cross cutting edges provide precise drilling of pilot holes
- 1/4" bit drive DIN 3126 - E 6.3

## FOR USE IN



## APPLICATION

- In all rotary and percussion drilling machines
- In machines for mechanical processing
- Only for rotary use
- In materials up to scratch hardness of 8
- In all drilling machines, cordless screw drivers and bit holders with 1/4" drill shank
- SDS-plus locating shank for Bits and KEILBIT [37]
- Quick bit holder for bits and KEILBIT [72]

## PACKAGING



### Comments

- Set a low speed
- Cool sufficiently with water, turpentine, vinegar or paraffin
- Regrind frequently when drilling in hard materials

| D<br>Ø mm | D<br>Ø " | L1<br>mm | SW<br>mm |    | EAN<br>4016707... | <br>12345   |
|-----------|----------|----------|----------|----|-------------------|-------------|
| 3,0       | 1/8      | 75       | 6,35     | 20 | 010224            | 131 000 300 |
| 4,0       | 5/32     | 75       | 6,35     | 20 | 010231            | 131 000 400 |
| 5,0       | 3/16     | 75       | 6,35     | 20 | 010248            | 131 000 500 |
| 6,0       | 15/64    | 75       | 6,35     | 20 | 010255            | 131 000 600 |
| 8,0       | 5/16     | 85       | 6,35     | 20 | 010262            | 131 000 800 |
| 10,0      | 3/8      | 85       | 6,35     | 20 | 010279            | 131 001 000 |

## GLASS DRILL BIT KEILBIT

- Modern cordless screw drivers are extremely efficient and can also be used for drilling without any problems. The KEILBIT was particularly developed for quick direct application in these machines.
- Machine changing is not necessary anymore.
- For drilling other materials we offer various types of KEILBIT.

# UNIVERSAL DRILL BIT KEILBIT | 166



## DRIVE



| D<br>Ø mm | D<br>Ø " | L2<br>mm | L1<br>mm | SW<br>mm |    | EAN<br>4016707... | 12345       |
|-----------|----------|----------|----------|----------|----|-------------------|-------------|
| 3,0       | 1/8      | 35       | 75       | 6,35     | 20 | 220098            | 166 000 030 |
| 4,0       | 5/32     | 45       | 85       | 6,35     | 20 | 220012            | 166 000 040 |
| 5,0       | 3/16     | 50       | 95       | 6,35     | 20 | 220029            | 166 000 050 |
| 6,0       | 15/64    | 60       | 100      | 6,35     | 20 | 220036            | 166 000 060 |
| 8,0       | 5/16     | 70       | 120      | 6,35     | 20 | 220043            | 166 000 080 |
| 10,0      | 3/8      | 70       | 120      | 6,35     | 20 | 220050            | 166 000 100 |
| 12,0      | 15/32    | 85       | 140      | 6,35     | 10 | 220067            | 166 000 120 |

## EXECUTION

- Asymmetric spiral shape
- Milled flute for optimum removal of drilling dust
- Straight flute entry
- High-temperature brazing at about 1,120°C
- Grey blasted surface
- Euro standard carbide tip
- 1/4" bit drive DIN 3126 - E 6.3

## FOR USE IN



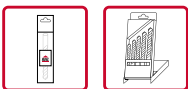
## UNIVERSAL BIT DRILL KEILBIT

- Modern cordless screw drivers are extremely efficient and can also be used for drilling without any problems. The KEILBIT was particularly developed for quick direct application in these machines.
- Machine changing is not necessary anymore.
- For drilling other materials we offer various types of KEILBIT.

## APPLICATION

- In all rotary and percussion drilling machines
- In machines for mechanical processing
- Only for rotary use
- In all drilling machines, cordless screw drivers and bit holders with 1/4" drill shank
- SDS-plus locating shank for Bits and KEILBIT
- Quick bit holder for bits and KEILBIT

## PACKAGING



[145]

# CONCRETE DRILL BIT MS5 TURBOHEAD XPRO | 238



## DRIVE



## EXECUTION



- Hammer-resistant percussion drill bit with round shank
- ISO 5468
- MS5 spiral with strengthened core
- Made of tempered steel, shot-peened and intermediate level hardened
- TURBOHEAD Xpro with 4 cutting edges concept and centering tip
- High-temperature brazing at about 1.120° C

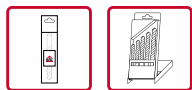
## FOR USE IN



## APPLICATION

- In all rotating and percussion drilling machines as well as hammer drills with three jaw chuck
- For use in armed concrete
- For drilling plug holes
- Particularly suitable for fastenings

## PACKAGING



[145]

### Comment

- High drilling speed
- Long tool life
- Other dimensions on request

| D<br>Ø mm | D<br>Ø " | L2<br>mm | L1<br>mm | d<br>Ø mm |    | EAN<br>4016707... |             |
|-----------|----------|----------|----------|-----------|----|-------------------|-------------|
| 5,0       | 3/16     | 50       | 85       | 4,6       | 20 | 912689            | 238 000 050 |
| 6,0       | 15/64    | 60       | 100      | 5,6       | 20 | 912696            | 238 000 060 |
| 8,0       | 5/16     | 75       | 120      | 7,3       | 20 | 912702            | 238 000 080 |
| 10,0      | 3/8      | 75       | 120      | 9,4       | 20 | 912719            | 238 000 100 |
| 12,0      | 15/32    | 100      | 160      | 10,0      | 10 | 912726            | 238 000 120 |
| 14,0      | 9/16     | 100      | 160      | 10,0      | 10 | 912733            | 238 000 140 |

## CONCRETE DRILL BIT MS5 TURBOHEAD XPRO

The hammer-resistant percussion drill bit with round shank and 4 cutting edges concept:

- Precise and simple pilot drilling
- Very fast drilling progress
- Extremely long service life

### Features:

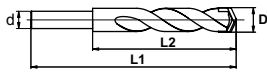
- Full carbide head
- Centering tip
- Better performance in armed concrete
- Drills exact round holes

MS5 spiral for ergonomic and ecological work flow:

- High drilling speed
- Fast transport of drilling dust
- High grade of stiffness and long service life
- High resistance against breakage



# CONCRETE DRILL BIT MS5 TURBOKEIL | 258



## DRIVE



## EXECUTION



- ISO 5468
- TURBOKEIL carbide plate with centring tip
- MS5 flute
- Made of chrome-nickel-molybdenum steel, shot-peened and intermediate level hardened
- Straight flute entry
- High-temperature brazing at about 1,120°C
- Grey blasted surface

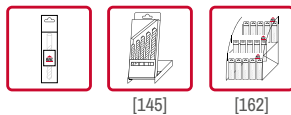
## FOR USE IN



## APPLICATION

- In all rotating and percussion drilling machines as well as hammer drills with three jaw chuck
- For drilling plug holes
- Particularly suitable for fastenings

## PACKAGING



| D<br>Ø mm | D<br>Ø " | L2<br>mm | L1<br>mm | d<br>Ø mm |    | EAN<br>4016707... | 12345       |
|-----------|----------|----------|----------|-----------|----|-------------------|-------------|
| 3,0       | 1/8      | 40       | 70       | 2,8       | 20 | 290145            | 258 000 030 |
| 4,0       | 5/32     | 40       | 75       | 3,6       | 20 | 290015            | 258 000 040 |
| 5,0       | 3/16     | 50       | 85       | 4,6       | 20 | 290022            | 258 000 050 |
| 6,0       | 15/64    | 60       | 100      | 5,6       | 20 | 290039            | 258 000 060 |
| 7,0       | 9/32     | 60       | 100      | 6,6       | 20 | 290046            | 258 000 070 |
| 8,0       | 5/16     | 75       | 120      | 7,3       | 20 | 290053            | 258 000 080 |
| 9,0       | 11/32    | 75       | 120      | 7,3       | 20 | 290060            | 258 000 090 |
| 10,0      | 3/8      | 75       | 120      | 9,4       | 20 | 290077            | 258 000 100 |
| 12,0      | 15/32    | 100      | 150      | 10,0      | 10 | 290084            | 258 000 120 |
| 14,0      | 9/16     | 100      | 150      | 10,0      | 10 | 290091            | 258 000 140 |
| 16,0      | 5/8      | 100      | 150      | 10,0      | 10 | 290107            | 258 000 160 |

## CONCRETE DRILL BIT MS5 TURBOKEIL

The hammer drill bit with round shank:

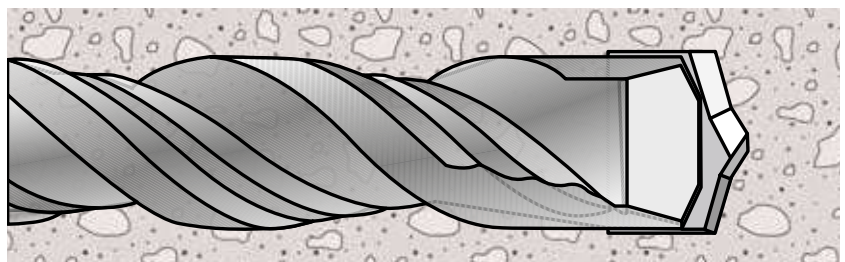
- Simple precise drilling of pilot holes
- Considerably faster drilling progress
- Significantly longer life

Features:

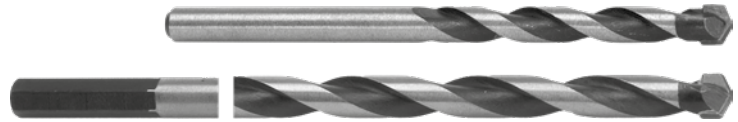
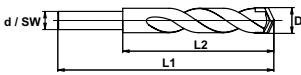
- Centring tip
- Patented MS5 flute (see p. 19)
- Larger cutting angle
- Strengthened carbide tip
- Harder carbide quality
- Cleaner drilling holes

MS5 spiral for ergonomic and ecological work flow:

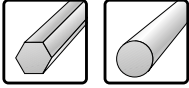
- High drilling speed
- Fast transport of drilling dust
- High grade of stiffness and long service life
- High resistance against breakage



# GRANITE DRILL BIT PRIMUS | 154 | 204 | 404



## DRIVE

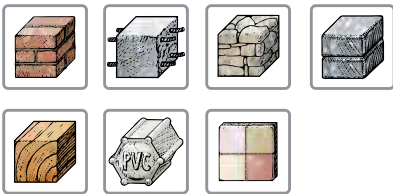


## EXECUTION



- ISO 5468
- Asymmetric spiral shape
- Straight flute entry
- Milled flute for optimum removal of drilling dust
- High-temperature brazing at about 1,120°C
- Burnished and ground surface

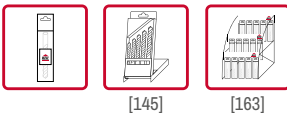
## FOR USE IN



## APPLICATION

- In all rotary and percussion drilling machines
- For drilling plug holes
- Particularly suitable for fastenings

## PACKAGING

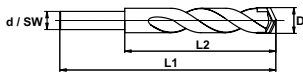


### Comments

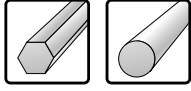
- SW = Hexagonal clamping shank with 45 mm length / wrench size

| D    | D     | L2  | L1  | SW    | d    |    | EAN        |             |
|------|-------|-----|-----|-------|------|----|------------|-------------|
| Ø mm | Ø "   | mm  | mm  | mm    | Ø mm |    | 4016707... | 12345       |
| 3,0  | 1/8   | 40  | 70  |       | 2,8  | 20 | 190018     | 154 000 030 |
| 3,5  | 9/64  | 40  | 70  |       | 3,2  | 20 | 190209     | 154 000 035 |
| 4,0  | 5/32  | 40  | 75  |       | 3,6  | 20 | 190025     | 154 000 040 |
| 4,5  | 11/64 | 50  | 85  |       | 4,1  | 20 | 190193     | 154 000 045 |
| 5,0  | 3/16  | 50  | 85  |       | 4,6  | 20 | 190032     | 154 000 050 |
| 5,0  | 3/16  | 110 | 150 |       | 4,6  | 10 | 192005     | 204 000 050 |
| 5,5  | 7/32  | 50  | 85  |       | 5,1  | 20 | 190049     | 154 000 055 |
| 5,5  | 7/32  | 110 | 150 |       | 5,1  | 10 | 192074     | 204 000 055 |
| 6,0  | 15/64 | 60  | 100 |       | 5,6  | 20 | 190056     | 154 000 060 |
| 6,0  | 15/64 | 110 | 150 |       | 5,6  | 10 | 192012     | 204 000 060 |
| 6,5  | 1/4   | 60  | 100 |       | 6,1  | 20 | 190063     | 154 000 065 |
| 6,5  | 1/4   | 110 | 150 |       | 6,1  | 10 | 192029     | 204 000 065 |
| 7,0  | 9/32  | 60  | 100 |       | 6,6  | 20 | 190070     | 154 000 070 |
| 8,0  | 5/16  | 80  | 120 |       | 7,1  | 20 | 190087     | 154 000 080 |
| 8,0  | 5/16  | 135 | 200 |       | 7,3  | 10 | 192036     | 204 000 080 |
| 8,0  | 5/16  | 350 | 400 |       | 7,3  | 1  | 194016     | 404 000 080 |
| 9,0  | 11/32 | 80  | 120 |       | 8,1  | 20 | 190094     | 154 000 090 |
| 10,0 | 3/8   | 80  | 120 |       | 8,7  | 20 | 190100     | 154 000 100 |
| 10,0 | 3/8   | 135 | 200 |       | 8,7  | 10 | 192043     | 204 000 100 |
| 10,0 | 3/8   | 350 | 400 |       | 9,3  | 1  | 194023     | 404 000 100 |
| 11,0 | 7/16  | 90  | 150 |       | 10,0 | 10 | 190186     | 154 000 110 |
| 12,0 | 15/32 | 90  | 150 |       | 10,0 | 10 | 190117     | 154 000 120 |
| 12,0 | 15/32 | 135 | 200 |       | 10,0 | 10 | 192050     | 204 000 120 |
| 12,0 | 15/32 | 350 | 400 | 10,00 |      | 1  | 194030     | 404 000 120 |
| 13,0 | 1/2   | 90  | 150 |       | 10,0 | 10 | 190124     | 154 000 130 |
| 14,0 | 9/16  | 90  | 150 |       | 10,0 | 10 | 190131     | 154 000 140 |
| 14,0 | 9/16  | 350 | 400 | 10,00 |      | 1  | 194054     | 404 000 140 |
| 15,0 | 19/32 | 90  | 150 |       | 10,0 | 10 | 190148     | 154 000 150 |
| 16,0 | 5/8   | 90  | 150 |       | 10,0 | 10 | 190155     | 154 000 160 |
| 16,0 | 5/8   | 350 | 400 | 10,00 |      | 1  | 194061     | 404 000 160 |
| 18,0 | 11/16 | 100 | 160 |       | 10,0 | 5  | 190162     | 154 000 180 |
| 20,0 | 3/4   | 100 | 160 |       | 13,0 | 5  | 190179     | 154 000 200 |

# PERCUSSION DRILL BIT KEILER | 150 | 200 | 400 | 600



## DRIVE



## EXECUTION



- ISO 5468
- Asymmetric spiral shape
- Straight flute entry
- Milled flute for optimum removal of drilling dust
- High-temperature brazing at about 1,120°C
- Grey blasted surface
- Euro standard carbide tip

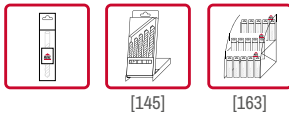
## FOR USE IN



## APPLICATION

- In all rotary and percussion drilling machines
- For drilling plug holes
- Particularly suitable for fastenings

## PACKAGING

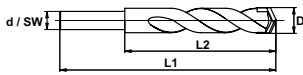


### Comments

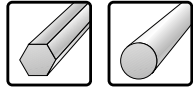
- SW = Hexagonal clamping shank with 45 mm length / wrench size

| D    | D     | L2  | L1  | SW    | d    |    | EAN        |             |
|------|-------|-----|-----|-------|------|----|------------|-------------|
| Ø mm | Ø"    | mm  | mm  | mm    | mm   |    | 4016707... | M12345      |
| 3,0  | 1/8   | 40  | 70  |       | 2,8  | 20 | 200014     | 150 000 030 |
| 3,5  | 9/64  | 40  | 70  |       | 3,2  | 20 | 200021     | 150 000 035 |
| 4,0  | 5/32  | 40  | 75  |       | 3,6  | 20 | 200038     | 150 000 040 |
| 4,5  | 11/64 | 50  | 85  |       | 4,1  | 20 | 200045     | 150 000 045 |
| 5,0  | 3/16  | 50  | 85  |       | 4,6  | 20 | 200052     | 150 000 050 |
| 5,0  | 3/16  | 110 | 150 |       | 4,6  | 10 | 203015     | 200 000 050 |
| 5,5  | 7/32  | 50  | 85  |       | 5,1  | 20 | 200069     | 150 000 055 |
| 5,5  | 7/32  | 110 | 150 |       | 5,1  | 10 | 203022     | 200 000 055 |
| 6,0  | 15/64 | 60  | 100 |       | 5,6  | 20 | 200076     | 150 000 060 |
| 6,0  | 15/64 | 110 | 150 |       | 5,6  | 10 | 203039     | 200 000 060 |
| 6,0  | 15/64 | 135 | 200 |       | 5,6  | 10 | 203138     | 200 060 200 |
| 6,0  | 15/64 | 350 | 400 |       | 5,6  | 1  | 180019     | 400 000 060 |
| 6,5  | 1/4   | 60  | 100 |       | 6,1  | 20 | 200083     | 150 000 065 |
| 6,5  | 1/4   | 110 | 150 |       | 6,1  | 10 | 203046     | 200 000 065 |
| 6,5  | 1/4   | 350 | 400 |       | 6,1  | 1  | 180026     | 400 000 065 |
| 7,0  | 9/32  | 60  | 100 |       | 6,6  | 20 | 200090     | 150 000 070 |
| 7,0  | 9/32  | 110 | 150 |       | 6,6  | 10 | 203053     | 200 000 070 |
| 8,0  | 5/16  | 80  | 120 |       | 7,1  | 20 | 200106     | 150 000 080 |
| 8,0  | 5/16  | 135 | 200 |       | 7,3  | 10 | 203060     | 200 000 080 |
| 8,0  | 5/16  | 350 | 400 |       | 7,3  | 1  | 180033     | 400 000 080 |
| 8,0  | 5/16  | 550 | 600 |       | 7,3  | 1  | 180170     | 600 000 080 |
| 8,5  | 21/64 | 80  | 120 |       | 7,1  | 20 | 200113     | 150 000 085 |
| 9,0  | 11/32 | 80  | 120 |       | 8,1  | 20 | 200120     | 150 000 090 |
| 10,0 | 3/8   | 80  | 120 |       | 8,7  | 20 | 200137     | 150 000 100 |
| 10,0 | 3/8   | 135 | 200 |       | 8,7  | 10 | 203077     | 200 000 100 |
| 10,0 | 3/8   | 350 | 400 |       | 9,3  | 1  | 180040     | 400 000 100 |
| 10,0 | 3/8   | 550 | 600 |       | 9,3  | 1  | 180187     | 600 000 100 |
| 11,0 | 7/16  | 90  | 150 |       | 10,0 | 10 | 200144     | 150 000 110 |
| 12,0 | 15/32 | 90  | 150 |       | 10,0 | 10 | 200151     | 150 000 120 |
| 12,0 | 15/32 | 135 | 200 |       | 10,0 | 10 | 203084     | 200 000 120 |
| 12,0 | 15/32 | 350 | 400 | 10,00 |      | 1  | 180057     | 400 000 120 |
| 12,0 | 15/32 | 550 | 600 | 10,00 |      | 1  | 180194     | 600 000 120 |
| 13,0 | 1/2   | 90  | 150 |       | 10,0 | 10 | 200168     | 150 000 130 |
| 13,0 | 1/2   | 350 | 400 | 10,00 |      | 1  | 180064     | 400 000 130 |
| 14,0 | 9/16  | 90  | 150 |       | 10,0 | 10 | 200175     | 150 000 140 |
| 14,0 | 9/16  | 135 | 200 |       | 10,0 | 10 | 203091     | 200 000 140 |
| 14,0 | 9/16  | 350 | 400 | 10,00 |      | 1  | 180071     | 400 000 140 |
| 14,0 | 9/16  | 550 | 600 | 10,00 |      | 1  | 180200     | 600 000 140 |
| 15,0 | 19/32 | 90  | 150 |       | 10,0 | 10 | 200182     | 150 000 150 |
| 16,0 | 5/8   | 90  | 150 |       | 10,0 | 10 | 200199     | 150 000 160 |
| 16,0 | 5/8   | 135 | 200 |       | 10,0 | 10 | 203107     | 200 000 160 |
| 16,0 | 5/8   | 350 | 400 | 10,00 |      | 1  | 180088     | 400 000 160 |
| 16,0 | 5/8   | 550 | 600 | 10,00 |      | 1  | 180217     | 600 000 160 |
| 18,0 | 11/16 | 100 | 160 |       | 10,0 | 5  | 200205     | 150 000 180 |
| 18,0 | 11/16 | 350 | 400 | 10,00 |      | 1  | 180095     | 400 000 180 |
| 18,0 | 11/16 | 550 | 600 | 10,00 |      | 1  | 180224     | 600 000 180 |

# PERCUSSION DRILL BIT KEILER | 150 | 200 | 400 | 600



## DRIVE



## EXECUTION



- ISO 5468
- Asymmetric spiral shape
- Straight flute entry
- Milled flute for optimum removal of drilling dust
- High-temperature brazing at about 1,120°C
- Grey blasted surface
- Euro standard carbide tip

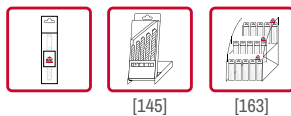
## FOR USE IN



## APPLICATION

- In all rotary and percussion drilling machines
- For drilling plug holes
- Particularly suitable for fastenings

## PACKAGING



### Comments

- SW = Hexagonal clamping shank with 45 mm length / wrench size

| D    | D   | L2  | L1  | SW    | d    |   | EAN        |             |
|------|-----|-----|-----|-------|------|---|------------|-------------|
| Ø mm | Ø " | mm  | mm  | mm    | Ø mm |   | 4016707... | 12345       |
| 20,0 | 3/4 | 100 | 160 |       | 13,0 | 5 | 200212     | 150 000 200 |
| 20,0 | 3/4 | 135 | 200 |       | 13,0 | 5 | 203114     | 200 000 200 |
| 20,0 | 3/4 | 350 | 400 | 12,00 |      | 1 | 180101     | 400 000 200 |
| 20,0 | 3/4 | 550 | 600 | 12,00 |      | 1 | 180231     | 600 000 200 |
| 22,0 | 7/8 | 100 | 160 |       | 13,0 | 5 | 200229     | 150 000 220 |
| 22,0 | 7/8 | 135 | 200 |       | 13,0 | 5 | 203121     | 200 000 220 |
| 22,0 | 7/8 | 350 | 400 | 12,00 |      | 1 | 180118     | 400 000 220 |
| 22,0 | 7/8 | 550 | 600 | 12,00 |      | 1 | 180248     | 600 000 220 |
| 25,0 | 1   | 100 | 160 |       | 13,0 | 5 | 200236     | 150 000 250 |
| 25,0 | 1   | 350 | 400 | 12,00 |      | 1 | 180125     | 400 000 250 |
| 25,0 | 1   | 550 | 600 | 12,00 |      | 1 | 180255     | 600 000 250 |

### PERCUSSION DRILL BIT KEILER

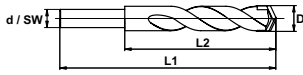
The percussion drill bit KEILER differs from other stone or percussion drill bits because it is manufactured from high quality chrome-nickel-molybdenum steel. It has a wear resistant carbide plate which is fixed with the drill bit body by high-temperature brazing at 1,120° C.

Furthermore all KEILER drill bits have a straight flute exit and a reinforced drill bit head as well as the approved S-flute shape which provides with its milled helix an optimum removal of drilling dust and clean holes.

Semicircular or oval flute shape of the drill bit helix

KEIL asymmetric S-flute shape of the drill bit helix

# MASONRY DRILL BIT OPAL | 190 | 290



## DRIVE



## EXECUTION

- ISO 5468
- Non-cutting flute
- High-temperature brazing
- Zinc-plated surface
- Euro standard carbide tip

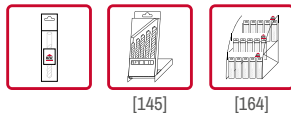
## FOR USE IN



## APPLICATION

- In all rotary and percussion drilling machines

## PACKAGING



[145]

[164]

| D<br>Ø mm | D<br>Ø " | L2<br>mm | L1<br>mm | d<br>Ø mm |    | EAN<br>4016707... | 12345       |
|-----------|----------|----------|----------|-----------|----|-------------------|-------------|
| 3,0       | 1/8      | 40       | 70       | 2,8       | 20 | 170195            | 190 000 030 |
| 3,5       | 9/64     | 40       | 70       | 3,2       | 20 | 170171            | 190 000 035 |
| 4,0       | 5/32     | 40       | 75       | 3,2       | 20 | 170010            | 190 000 040 |
| 5,0       | 3/16     | 50       | 85       | 3,8       | 20 | 170027            | 190 000 050 |
| 5,0       | 3/16     | 110      | 150      | 3,8       | 10 | 172083            | 290 000 050 |
| 5,5       | 7/32     | 50       | 85       | 4,4       | 20 | 170034            | 190 000 055 |
| 6,0       | 15/64    | 60       | 100      | 4,7       | 20 | 170041            | 190 000 060 |
| 6,0       | 15/64    | 110      | 150      | 4,7       | 10 | 172014            | 290 000 060 |
| 6,5       | 1/4      | 60       | 100      | 5,0       | 20 | 170058            | 190 000 065 |
| 7,0       | 9/32     | 60       | 100      | 5,4       | 20 | 170065            | 190 000 070 |
| 7,0       | 9/32     | 110      | 150      | 5,4       | 10 | 172106            | 290 000 070 |
| 8,0       | 5/16     | 80       | 120      | 6,4       | 20 | 170072            | 190 000 080 |
| 8,0       | 5/16     | 135      | 200      | 6,4       | 10 | 172038            | 290 000 080 |
| 9,0       | 11/32    | 80       | 120      | 7,1       | 20 | 170089            | 190 000 090 |
| 10,0      | 3/8      | 80       | 120      | 7,8       | 20 | 170096            | 190 000 100 |
| 10,0      | 3/8      | 135      | 200      | 7,8       | 10 | 172045            | 290 000 100 |
| 11,0      | 7/16     | 90       | 150      | 8,5       | 10 | 170102            | 190 000 110 |
| 12,0      | 15/32    | 90       | 150      | 8,5       | 10 | 170119            | 190 000 120 |
| 12,0      | 15/32    | 135      | 200      | 8,5       | 10 | 172052            | 290 000 120 |
| 13,0      | 1/2      | 90       | 150      | 10,0      | 10 | 170126            | 190 000 130 |
| 14,0      | 9/16     | 90       | 150      | 10,0      | 10 | 170133            | 190 000 140 |
| 14,0      | 9/16     | 135      | 200      | 10,0      | 10 | 172069            | 290 000 140 |
| 16,0      | 5/8      | 90       | 150      | 10,0      | 10 | 170140            | 190 000 160 |
| 16,0      | 5/8      | 135      | 200      | 10,0      | 10 | 172076            | 290 000 160 |
| 20,0      | 3/4      | 100      | 160      | 13,0      | 5  | 170157            | 190 000 200 |

## MASONRY DRILL BIT OPAL

- Non-cutting shaped drilling spiral also applicable for the rotary use in concrete
- Made of quenched and subsequently drawn steel according to DIN / EN 10083/2
- The hardness respectively the material consistence is adjusted to the application and the different shank diameter. This is the reason why it is best for the use in all rotary and percussion drilling machines
- Very long tool life



# UNIVERSAL HOLLOW CORE | 715



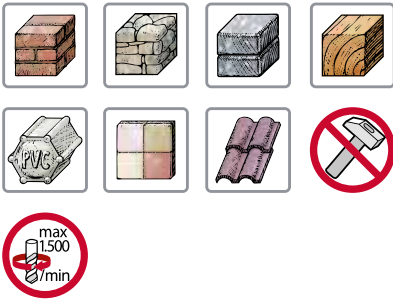
## DRIVE



## EXECUTION

- Tungsten-carbide coated

## FOR USE IN



## APPLICATION

- Only for rotary use
- Bayonet lock

## PACKAGING



[144]

### Comments

- 3 = Conduits
- 2 = Holes for pipes
- 1 = Sockets

| $\frac{D}{\varnothing \text{ mm}}$ |      |   |        |             |
|------------------------------------|------|---|--------|-------------|
| 33,0                               | 3    | 1 | 250026 | 715 000 033 |
| 53,0                               | 2    | 1 | 250033 | 715 000 053 |
| 67,0                               | 1    | 1 | 250040 | 715 000 067 |
| 73,0                               | 1, 2 | 1 | 250057 | 715 000 073 |
| 83,0                               | 2    | 1 | 250064 | 715 000 083 |

## LOCATING PLATE FOR UNIVERSAL HOLLOW CORE



| 1 | 250071 | 715 000 090 |
|---|--------|-------------|

## CENTRE DRILL BIT FOR UNIVERSAL HOLLOW CORE



| $\frac{D}{\varnothing \text{ mm}}$ | $\frac{D}{\varnothing \text{ mm}}$ | $\frac{L1}{\text{mm}}$ |   |        |             |
|------------------------------------|------------------------------------|------------------------|---|--------|-------------|
| 9,0                                | 11/32                              | 140                    | 1 | 250095 | 715 090 140 |

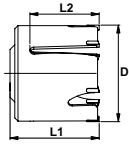
## UNIVERSAL HOLLOW CORE

- The cutting edges of all universal hollow cores are tungsten carbide coated. These carbide cutters which are attached with a high-temperature process ensure economic drilling in materials such as masonry, tiles, brick, breeze block and plasterboard.
- The fast replacement of hollow cores due to the simple bayonet lock and the light-weight design make things easy for the user.
- Can be used for sockets, holes for pipes, junction lines, conduits etc.

### Safety Notes:

- Maximum speed in manual drilling machines 1,500 rpm
- Goggles must be worn

# UNIVERSAL HOLE SAW M16 GOLDCRAFT | 719



## EXECUTION

- With internal M 16 thread
- Grey blasted and rust protected
- 3 carbide cutters up to 55 mm Ø
- 5 carbide cutters up to 90 mm Ø
- 6 carbide cutters up to 105 mm Ø

## FOR USE IN



| D<br>Ø mm | L2<br>mm | L1<br>mm |         |   | EAN<br>4916707... | M12345      |
|-----------|----------|----------|---------|---|-------------------|-------------|
| 25,0      | 65       | 100      | 1       | 1 | 240010            | 719 000 025 |
| 30,0      | 65       | 100      | 1       | 1 | 240027            | 719 000 030 |
| 35,0      | 65       | 100      | 1, 2, 3 | 1 | 240034            | 719 000 035 |
| 40,0      | 65       | 100      | 4, 5, 3 | 1 | 240041            | 719 000 040 |
| 45,0      | 65       | 100      | 4, 5, 3 | 1 | 240058            | 719 000 045 |
| 50,0      | 65       | 100      | 4, 5, 3 | 1 | 240065            | 719 000 050 |
| 60,0      | 65       | 100      | 7       | 1 | 240096            | 719 000 060 |
| 65,0      | 65       | 100      | 9       | 1 | 240119            | 719 000 065 |
| 68,0      | 65       | 100      | 9       | 1 | 240126            | 719 000 068 |
| 74,0      | 65       | 100      | 10      | 1 | 240133            | 719 000 074 |
| 76,0      | 65       | 100      | 10      | 1 | 921124            | 719 000 076 |
| 80,0      | 65       | 100      | 11, 12  | 1 | 240140            | 719 000 080 |
| 82,0      | 65       | 100      | 6       | 1 | 240157            | 719 000 082 |
| 105,0     | 65       | 100      | 13      | 1 | 240164            | 719 000 105 |

## APPLICATION

- Locating shank M16 for SDS-plus [71]
- Locating shank M16 hexagon [70]
- Centre drill bit GOLDCRAFT for locating shank M16 [67]

## PACKAGING



### Comments

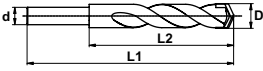
- Other dimensions on request
- 1 = Sanitary and heating pipes
- 2 = Junction boxes
- 3 = Halogen spot lamps
- 4 = Sanitary waste pipes
- 5 = Water and heating pipes with insulation
- 6 = Recessed lights
- 7 = Case bushings
- 8 = Switch sockets
- 9 = Cavity wall sockets
- 10 = Cavity wall junction boxes
- 11 = Junction boxes
- 12 = Bushing covers
- 13 = Vent pipes

## UNIVERSAL HOLE SAW M16 GOLDCRAFT

- For drilling in various materials: various types of masonry, lightweight construction materials, plastics, solid wood, plastic coated wood etc.
- For different application in interior fittings, for electricians, heating fitter, plumber etc. Quality and practical applications for professionals and do-it-yourselfers
- Can be used in all SDS-plus hammer drilling machines or all rotary and percussion drilling machines depending on the locating shank used
- Available in a wide range of dimensions for standard and special applications



# CENTRE DRILL BIT GOLDCRAFT FOR LOCATING SHANK M16 | 719



## DRIVE



|  |   |   |   |  |  |
|--|---|---|---|--|--|
| <br>D<br>Ø mm | <br>L2<br>mm | <br>L1<br>mm |  | <br>EAN<br>4016707... | <br>12345 |
| 8,0  | 70  | 120   | 1   | 240003   | 719 080 120  |

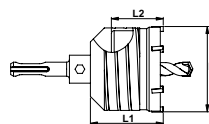
## APPLICATION

- Universal hole saw M16 GOLDCRAFT [66]

## PACKAGING



# HOLLOW CORE M16 ASSEMBLY, SDS-PLUS | 711



## DRIVE

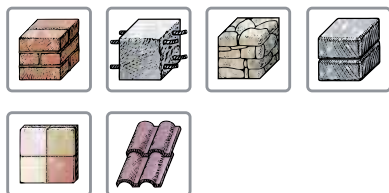


| D<br>Ø mm | D<br>Ø " | L2<br>mm | L1<br>mm |   | EAN<br>4016707... | 12345       |
|-----------|----------|----------|----------|---|-------------------|-------------|
| 50,0      | 1 3/32   | 60       | 80       | 1 | 160165            | 711 713 050 |
| 65,0      | 2 9/16   | 52       | 72       | 1 | 160172            | 711 713 065 |
| 68,0      | 2 11/16  | 52       | 72       | 1 | 160219            | 711 713 068 |
| 80,0      | 3 5/32   | 60       | 80       | 1 | 160189            | 711 713 080 |

## EXECUTION

- SDS-plus holder, short
- With Centre drill bit
- With internal M 16 thread
- 6 carbide cutters
- Burnished and hardened
- Made of high tempered steel with extra thick wall from 65 mm Ø without cross-bore

## FOR USE IN



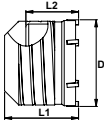
## APPLICATION

- Locating shank M16 hexagon [70]
- Locating shank M16 for SDS-plus [71]
- Centre drill bit for locating shank M16 M16 [71]
- Locating shank M16 SDS-plus TURBOKEIL complete [72]

## PACKAGING



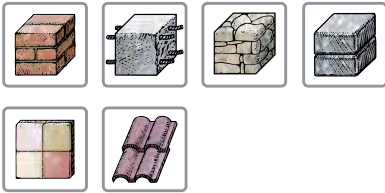
# HOLLOW CORE M16 | 710



## EXECUTION

- With internal M 16 thread
- 4 carbide cutters for 25 mm Ø
- 6 carbide cutters for 30 - 80 mm diameter
- 8 carbide cutters for 90 mm diameter
- Burnished and hardened
- Made of high tempered steel with extra thick wall from 65 mm Ø without cross-bore

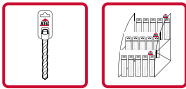
## FOR USE IN



## APPLICATION

- Locating shank M16 hexagon [70]
- Locating shank M16 for SDS-plus [71]
- Centre drill bit for locating shank M16 M16 [71]
- Locating shank M16 SDS-plus TURBOKEIL complete [72]

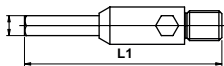
## PACKAGING



[164]




| D<br>Ø mm | D<br>Ø " | L2<br>mm | L1<br>mm |   | EAN<br>4016707... | <br>12345   |
|-----------|----------|----------|----------|---|-------------------|-------------|
| 25,0      | 1        | 60       | 80       | 1 | 160011            | 710 000 025 |
| 30,0      | 1 3/16   | 60       | 80       | 1 | 160028            | 710 000 030 |
| 35,0      | 1 1/8    | 60       | 80       | 1 | 160042            | 710 000 035 |
| 40,0      | 1 1/16   | 60       | 80       | 1 | 160059            | 710 000 040 |
| 45,0      | 1 1/4    | 60       | 80       | 1 | 160066            | 710 000 045 |
| 50,0      | 1 3/32   | 60       | 80       | 1 | 160073            | 710 000 050 |
| 55,0      | 2 3/16   | 52       | 72       | 1 | 160271            | 711 000 055 |
| 60,0      | 2 3/8    | 52       | 72       | 1 | 160158            | 711 000 060 |
| 65,0      | 2 9/16   | 52       | 72       | 1 | 160103            | 711 000 065 |
| 68,0      | 2 11/16  | 52       | 72       | 1 | 160134            | 711 000 068 |
| 80,0      | 3 5/32   | 60       | 80       | 1 | 160110            | 711 000 080 |
| 90,0      | 3 17/32  | 60       | 80       | 1 | 160127            | 711 000 090 |
| 100,0     | 3 15/16  | 60       | 80       | 1 | 160196            | 711 000 100 |

# LOCATING SHANK M16 HEXAGON | 712



## DRIVE



| L1<br>mm | SW<br>mm |  |  EAN<br>4016707... |  12345 |
|----------|----------|---|---|---|
| 100      | 11,00    | 1   | 160202  | 712 080 120   |
| 200      | 11,00    | 1   | 160226  | 712 200 120   |
| 350      | 11,00    | 1   | 160240  | 712 350 120   |

## EXECUTION

- With external M16 thread
- With hexagonal drive

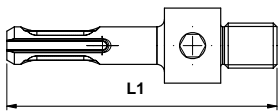
## APPLICATION

- In all rotary and percussion drilling machines
- Hollow core M16 [69]
- Centre drill bit for locating shank M16 [71]
- Universal hole saw M16 GOLDCRAFT [66]
- Centre drill bit GOLDCRAFT for locating shank M16 [67]

## PACKAGING



# LOCATING SHANK M16 SDS-PLUS | 713



## DRIVE



| L1<br>mm |   | EAN<br>4016707... | 12345       |
|----------|---|-------------------|-------------|
| 105      | 1 | 160301            | 713 080 120 |
| 200      | 1 | 160332            | 713 200 120 |
| 350      | 1 | 160325            | 713 300 120 |

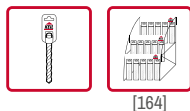
## EXECUTION

- With external M16 thread
- With SDS-plus drive on machine side

## APPLICATION

- In all hammer drilling machines with SDS-plus and HILTI TE-C locking
- Hollow core M16 [69]
- Centre drill bit for locating shank M16 [71]
- Universal hole saw M16 GOLDCRAFT [66]
- Centre drill bit GOLDCRAFT for locating shank M16 [67]

## PACKAGING



[164]

# CENTRE DRILL BIT FOR LOCATING SHANK M16 | 715



## DRIVE



| D<br>ø mm | D<br>ø " | L2<br>mm | L1<br>mm |   | EAN<br>4016707... | 12345       |
|-----------|----------|----------|----------|---|-------------------|-------------|
| 8,0       | 5/16     | 72       | 120      | 1 | 916168            | 715 080 120 |

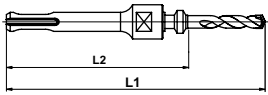
## APPLICATION

- Hollow core M16 [69]

## PACKAGING



# LOCATING SHANK M16 SDS-PLUS TURBOKEIL COMPLETE | 714



## DRIVE



| L1<br>mm | L<br>mm |   | EAN<br>4016707... | 12345       |
|----------|---------|---|-------------------|-------------|
| 178      | 110     | 1 | 160424            | 714 110 178 |
| 268      | 200     | 1 | 160431            | 714 200 268 |
| 418      | 350     | 1 | 160448            | 714 350 418 |

## EXECUTION



- Solid construction in one piece with centre drill bit
- With external M16 thread
- With SDS-plus drive on machine side

## APPLICATION

- In all hammer drilling machines with SDS-plus and HILTI TE-C locking
- Hollow core M16 [68+69]

## PACKAGING



# QUICK BIT HOLDER FOR BITS AND KEILBIT | 800



## DRIVE



|   | EAN<br>4016707... | 12345       |
|---|-------------------|-------------|
| 1 | 270321            | 800 000 008 |

## EXECUTION

- Non-magnetic bit holder with ¼" bit locking
- DIN 3126 - E 6.3 and C 6.3

## APPLICATION

- Only for rotary use

## PACKAGING





# METAL DRILL BITS

STRONGER THAN STEEL



|  |         |
|--|---------|
| 307   HSS-E DIN 338 cobalt   | 76–79   |
| 311   HSS TIN DIN 338 steel drill bit                                | 80–81   |
| 302   HSS DIN 338, ground, split point                               | 82–85   |
| 300   HSS DIN 338, standard  | 86–90   |
| 300   HSS DIN 338, standard, shank reduced                           | 91      |
| 340   HSS DIN 340, ground, split point, long                         | 92      |
| 342   HSS DIN 1869, ground, extra long                               | 93      |
| 344   HSS hollow section drill bit / Facade drill bit                | 94      |
| 345   HSS DIN 345 morse taper  | 95–96   |
| 303   HSS DIN 1897 pilot drill bit, ground, split point, extra short | 97      |
| 310   HSS DIN 8037 carbide tipped                                    | 98      |
| 312   HSS-G Speeder DIN 338 RN metal drill bit                       | 99      |
| 304   HSS Double end drill bit, ground, split point                  | 100     |
| 315   HSS Drill bit KEILBIT, ground                                  | 101     |
| 317   HSS combination tool KEILBIT                                   | 102     |
| 329   HSS countersink KEILBIT  | 103     |
| 327   HSS countersink 90° DIN 335 C                                  | 104     |
| 328   HSS deburring countersink                                      | 105     |
| 326   HSS tube and sheet drill bit                                   | 106     |
| 325   HSS step drill   | 107     |
| 140   Scriber  | 108     |
| 320   HSS hole saw bi-metal  | 109–112 |

HAMMER DRILL BITS

CHISEL

STONE AND SPECIAL DRILL BITS

METAL DRILL BITS

WOOD DRILL BITS

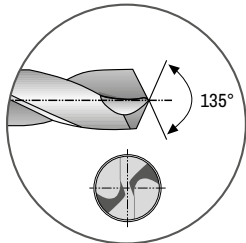
SAWS

ASSORTMENTS

MODULES - SHELVES

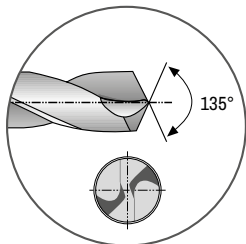
# METAL DRILL BITS

Nothing stops the metal drill bits because we offer a drill bit for every application.



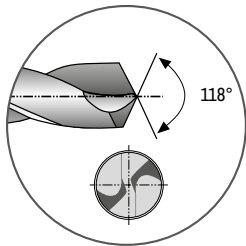
## HSS-E TWIST DRILL BIT

The HSS-E drill bit is a cobalt alloyed high performance drill bit. Even with insufficient cooling it has reserve in heat resistance. Due to the alloying addition of 5 % Co in the cutting material these drill bits can be used for working with work pieces with a tensile strength of over 800N/m<sup>2</sup>.



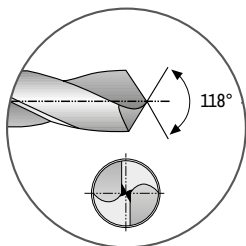
## HSS TIN DRILL BIT SPLIT POINT

This high-quality drill bit is coated with titan-nitride. It is especially suitable for drilling in alloyed and unalloyed steel, sheet metal, non-ferrous metal, steel, cast metal and plastics. The HSS-TIN can be used in steel and cast steel up to 900N/mm<sup>2</sup> strength. It is a precision tool according to DIN 338 RN for best accuracy grade.



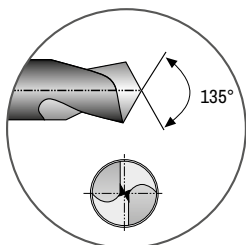
## HSS TWIST DRILL BIT SPLIT POINT

This drill bit allows precise pilot drilling even on diagonal surfaces. The advance force decreases by 50 %. It has the best possible true running accuracy and therefore produces exact round holes. It has a long tool life and due to its conically strengthened high resistance against fracture.



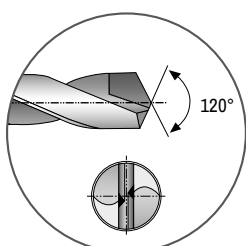
## HSS TWIST DRILL BIT

Due to its robust thickness of core and a distinctive hardness this drill bit has a long tool life. Especially when drilling with diameters below 6 mm the anti-torsion capability is very high while the danger of fracture is low. It is very suitable for working with alloyed and unalloyed steel, non ferrous metals, cast iron and hard plastics.



## HSS PILOT DRILL BIT

The HSS pilot drill is profile ground, right hand cutting, extra short and cylindrical. The HSS pilot drill bit allows exact pilot drilling without slipping due to its self centering tip. This extra short drill bit is particularly suitable for use with hand-held machines.

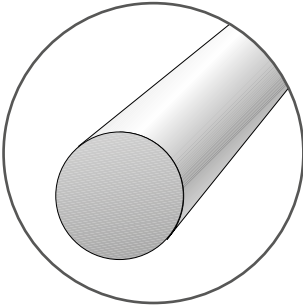


## HSS TWIST DRILL BIT WITH CARBIDE BIT

The drill bit has been ground with diamond wheels to the highest accuracy. The 2-bevel sharpening builds a centering tip which is located exactly in the drilling axis whereby the drill bit centers itself. When working with CNC-machines it offers best performance.

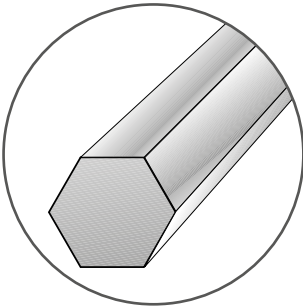
# METAL DRILL BITS

Nothing stops the metal drill bits because we offer a drill bit for every application.



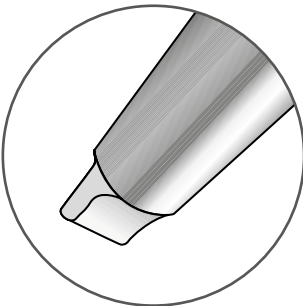
## CYLINDRICAL SHAFT

Tools with round shaft are the top selling drilling tools. The round shaft is fitting into all three-jaw chucks and quick change chuck.



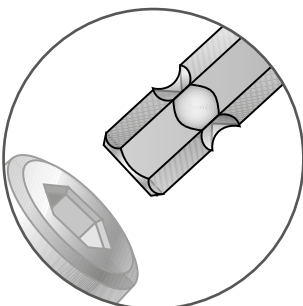
## HEXAGONAL SHAFT (10.0 MM)

The hexagonal shank offers a better transmission of rotation especially when working with big diameters and long drill bits.



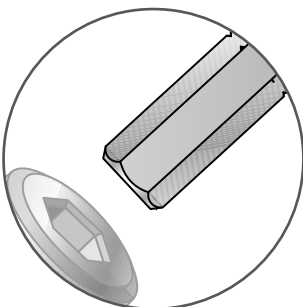
## MORSE TAPER

The Morse taper (MK) is the standardised shape of a tool conus for clamping tools, e.g. drill bits with big diameters, reamers and chuck in the tool intake of a machine tool. Most tool intakes of drilling machines and turning lathes have the sizes MK2 up to MK6.



## KEILBIT (E 6.3 MM)

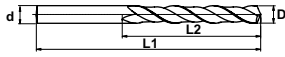
Modern cordless screwdrivers are extremely powerful and can definitely be used for drilling. The KEILBIT has specially been invented for the fast and direct application in these machines. No change of machines is necessary anymore. For the various materials we offer different alternatives of the KEILBIT.



## KEILBIT (C 6.3 MM)

This is a different kind of shaft of the KEILBIT with short hexagonal shank and short drill bit.

# HSS-E DIN 338 COBALT, GROUND, SPLIT POINT | 307



## DRIVE



## EXECUTION

- Profile-ground
- Right-hand cutting, type N
- 5 % cobalt
- Short, cylindrical
- 135° conical section
- Cross-ground finish to DIN 1412 C (from Ø 3,0 mm)
- Diametral tolerance h8

## FOR USE IN

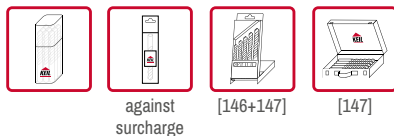


- Materials with a high strength above 800 N/mm<sup>2</sup> which are difficult to cut
- Special alloys
- Solder resistant steel
- Stainless steel V2A-V4A

## APPLICATION

- In all rotary and percussion drilling machines
- In machines for mechanical processing
- Only for rotary use

## PACKAGING



| D<br>Ø mm | L2<br>mm | L1<br>mm | d<br>mm |    | EAN<br>4016707... |             |
|-----------|----------|----------|---------|----|-------------------|-------------|
| 1,00      | 12       | 34       | 1,0     | 10 | 060014            | 307 000 100 |
| 1,10      | 14       | 36       | 1,1     | 10 | 064869            | 307 000 110 |
| 1,20      | 16       | 38       | 1,2     | 10 | 064876            | 307 000 120 |
| 1,30      | 16       | 38       | 1,3     | 10 | 064883            | 307 000 130 |
| 1,40      | 18       | 40       | 1,4     | 10 | 064890            | 307 000 140 |
| 1,50      | 18       | 40       | 1,5     | 10 | 060069            | 307 000 150 |
| 1,60      | 20       | 43       | 1,6     | 10 | 064906            | 307 000 160 |
| 1,70      | 20       | 43       | 1,7     | 10 | 064913            | 307 000 170 |
| 1,80      | 22       | 46       | 1,8     | 10 | 064920            | 307 000 180 |
| 1,90      | 22       | 46       | 1,9     | 10 | 064937            | 307 000 190 |
| 2,00      | 24       | 49       | 2,0     | 10 | 060113            | 307 000 200 |
| 2,10      | 24       | 49       | 2,1     | 10 | 064944            | 307 000 210 |
| 2,20      | 27       | 53       | 2,2     | 10 | 064951            | 307 000 220 |
| 2,30      | 27       | 53       | 2,3     | 10 | 064968            | 307 000 230 |
| 2,40      | 30       | 57       | 2,4     | 10 | 064975            | 307 000 240 |
| 2,50      | 30       | 57       | 2,5     | 10 | 060168            | 307 000 250 |
| 2,60      | 30       | 57       | 2,6     | 10 | 064982            | 307 000 260 |
| 2,70      | 33       | 61       | 2,7     | 10 | 064999            | 307 000 270 |
| 2,80      | 33       | 61       | 2,8     | 10 | 065002            | 307 000 280 |
| 2,90      | 33       | 61       | 2,9     | 10 | 065019            | 307 000 290 |
| 3,00      | 33       | 61       | 3,0     | 10 | 060212            | 307 000 300 |
| 3,10      | 36       | 65       | 3,1     | 10 | 065026            | 307 000 310 |
| 3,20      | 36       | 65       | 3,2     | 10 | 060236            | 307 000 320 |
| 3,30      | 36       | 65       | 3,3     | 10 | 060243            | 307 000 330 |
| 3,40      | 39       | 70       | 3,4     | 10 | 065033            | 307 000 340 |
| 3,50      | 39       | 70       | 3,5     | 10 | 060267            | 307 000 350 |
| 3,60      | 39       | 70       | 3,6     | 10 | 065040            | 307 000 360 |
| 3,70      | 39       | 70       | 3,7     | 10 | 065057            | 307 000 370 |
| 3,80      | 43       | 75       | 3,8     | 10 | 065064            | 307 000 380 |
| 3,90      | 43       | 75       | 3,9     | 10 | 065071            | 307 000 390 |
| 4,00      | 43       | 75       | 4,0     | 10 | 060311            | 307 000 400 |
| 4,10      | 43       | 75       | 4,1     | 10 | 060328            | 307 000 410 |
| 4,20      | 43       | 75       | 4,2     | 10 | 060335            | 307 000 420 |
| 4,30      | 47       | 80       | 4,3     | 10 | 065088            | 307 000 430 |
| 4,40      | 47       | 80       | 4,4     | 10 | 065095            | 307 000 440 |
| 4,50      | 47       | 80       | 4,5     | 10 | 060366            | 307 000 450 |
| 4,60      | 47       | 80       | 4,6     | 10 | 065101            | 307 000 460 |
| 4,70      | 47       | 80       | 4,7     | 10 | 065118            | 307 000 470 |
| 4,80      | 52       | 86       | 4,8     | 10 | 060397            | 307 000 480 |
| 4,90      | 52       | 86       | 4,9     | 10 | 065125            | 307 000 490 |
| 5,00      | 52       | 86       | 5,0     | 10 | 060410            | 307 000 500 |
| 5,10      | 52       | 86       | 5,1     | 10 | 060427            | 307 000 510 |
| 5,20      | 52       | 86       | 5,2     | 10 | 060434            | 307 000 520 |
| 5,30      | 52       | 86       | 5,3     | 10 | 065132            | 307 000 530 |
| 5,40      | 57       | 93       | 5,4     | 10 | 065149            | 307 000 540 |
| 5,50      | 57       | 93       | 5,5     | 10 | 060465            | 307 000 550 |

# HSS-E DIN 338 COBALT, GROUND, SPLIT POINT | 307



## DRIVE



## EXECUTION

- Profile-ground
- Right-hand cutting, type N
- 5 % cobalt
- Short, cylindrical
- 135° conical section
- Cross-ground finish to DIN 1412 C (from Ø 3,0 mm)
- Diametral tolerance h8

## FOR USE IN

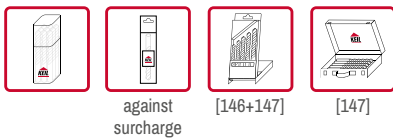


- Materials with a high strength above 800 N/mm<sup>2</sup> which are difficult to cut
- Special alloys
- Solder resistant steel
- Stainless steel V2A -V4A

## APPLICATION

- In all rotary and percussion drilling machines
- In machines for mechanical processing
- Only for rotary use

## PACKAGING



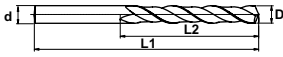
against surcharge

[146+147]

[147]

| D<br>Ø mm | L2<br>mm | L1<br>mm | d<br>mm |    | EAN<br>4016707... |             |
|-----------|----------|----------|---------|----|-------------------|-------------|
| 5,60      | 57       | 93       | 5,6     | 10 | 065156            | 307 000 560 |
| 5,70      | 57       | 93       | 5,7     | 10 | 065163            | 307 000 570 |
| 5,80      | 57       | 93       | 5,8     | 10 | 065170            | 307 000 580 |
| 5,90      | 57       | 93       | 5,9     | 10 | 065187            | 307 000 590 |
| 6,00      | 57       | 93       | 6,0     | 10 | 060519            | 307 000 600 |
| 6,10      | 63       | 101      | 6,1     | 10 | 065194            | 307 000 610 |
| 6,20      | 63       | 101      | 6,2     | 10 | 065200            | 307 000 620 |
| 6,30      | 63       | 101      | 6,3     | 10 | 065217            | 307 000 630 |
| 6,40      | 63       | 101      | 6,4     | 10 | 065224            | 307 000 640 |
| 6,50      | 63       | 101      | 6,5     | 10 | 060564            | 307 000 650 |
| 6,60      | 63       | 101      | 6,6     | 10 | 065231            | 307 000 660 |
| 6,70      | 63       | 101      | 6,7     | 10 | 065248            | 307 000 670 |
| 6,80      | 69       | 109      | 6,8     | 10 | 060595            | 307 000 680 |
| 6,90      | 69       | 109      | 6,9     | 10 | 065255            | 307 000 690 |
| 7,00      | 69       | 109      | 7,0     | 10 | 060618            | 307 000 700 |
| 7,10      | 69       | 109      | 7,1     | 10 | 065262            | 307 000 710 |
| 7,20      | 69       | 109      | 7,2     | 10 | 065279            | 307 000 720 |
| 7,30      | 69       | 109      | 7,3     | 10 | 065286            | 307 000 730 |
| 7,40      | 69       | 109      | 7,4     | 10 | 065293            | 307 000 740 |
| 7,50      | 69       | 109      | 7,5     | 10 | 060663            | 307 000 750 |
| 7,60      | 75       | 117      | 7,6     | 10 | 065309            | 307 000 760 |
| 7,70      | 75       | 117      | 7,7     | 10 | 065316            | 307 000 770 |
| 7,80      | 75       | 117      | 7,8     | 10 | 065323            | 307 000 780 |
| 7,90      | 75       | 117      | 7,9     | 10 | 065330            | 307 000 790 |
| 8,00      | 75       | 117      | 8,0     | 10 | 060717            | 307 000 800 |
| 8,10      | 75       | 117      | 8,1     | 10 | 065347            | 307 000 810 |
| 8,20      | 75       | 117      | 8,2     | 10 | 065354            | 307 000 820 |
| 8,30      | 75       | 117      | 8,3     | 10 | 065361            | 307 000 830 |
| 8,40      | 75       | 117      | 8,4     | 10 | 065378            | 307 000 840 |
| 8,50      | 75       | 117      | 8,5     | 10 | 060762            | 307 000 850 |
| 8,60      | 81       | 125      | 8,6     | 10 | 065385            | 307 000 860 |
| 8,70      | 81       | 125      | 8,7     | 10 | 065392            | 307 000 870 |
| 8,80      | 81       | 125      | 8,8     | 10 | 065408            | 307 000 880 |
| 8,90      | 81       | 125      | 8,9     | 10 | 065415            | 307 000 890 |
| 9,00      | 81       | 125      | 9,0     | 10 | 060816            | 307 000 900 |
| 9,10      | 81       | 125      | 9,1     | 10 | 065422            | 307 000 910 |
| 9,20      | 81       | 125      | 9,2     | 10 | 065439            | 307 000 920 |
| 9,30      | 81       | 125      | 9,3     | 10 | 065446            | 307 000 930 |
| 9,40      | 81       | 125      | 9,4     | 10 | 065453            | 307 000 940 |
| 9,50      | 81       | 125      | 9,5     | 10 | 060861            | 307 000 950 |
| 9,60      | 87       | 133      | 9,6     | 10 | 065460            | 307 000 960 |
| 9,70      | 87       | 133      | 9,7     | 10 | 065477            | 307 000 970 |
| 9,80      | 87       | 133      | 9,8     | 10 | 065484            | 307 000 980 |
| 9,90      | 87       | 133      | 9,9     | 10 | 065491            | 307 000 990 |
| 10,00     | 87       | 133      | 10,0    | 10 | 060915            | 307 001 000 |
| 10,20     | 87       | 133      | 10,2    | 5  | 060939            | 307 001 020 |

# HSS-E DIN 338 COBALT GROUND, SPLIT POINT | 307



## DRIVE



| D<br>Ø mm | L2<br>mm | L1<br>mm | d<br>Ø mm |   | EAN<br>4016707... |             |
|-----------|----------|----------|-----------|---|-------------------|-------------|
| 10,50     | 87       | 133      | 10,5      | 5 | 060960            | 307 001 050 |
| 11,00     | 94       | 142      | 11,0      | 5 | 061011            | 307 001 100 |
| 11,50     | 94       | 142      | 11,5      | 5 | 061066            | 307 001 150 |
| 12,00     | 101      | 151      | 12,0      | 5 | 061110            | 307 001 200 |
| 12,50     | 101      | 151      | 12,5      | 5 | 061165            | 307 001 250 |
| 13,00     | 101      | 151      | 13,0      | 5 | 061219            | 307 001 300 |

## EXECUTION

- Profile-ground
- Right-hand cutting, type N
- 5 % cobalt
- Short, cylindrical
- 135° conical section
- Cross-ground finish to DIN 1412 C (from Ø 3,0 mm)
- Diametral tolerance h8

## FOR USE IN

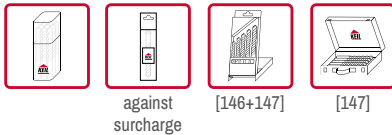


- Materials with a high strength above 800 N/mm<sup>2</sup> which are difficult to cut
- Special alloys
- Solder resistant steel
- Stainless steel V2A -V4A

## APPLICATION

- In all rotary and percussion drilling machines
- In machines for mechanical processing
- Only for rotary use

## PACKAGING



against  
surcharge

[146+147]

[147]

## HSS-E DIN 338 COBALT, GROUND, SPLIT POINT

- Centre punching is not necessary
- Direct drilling without prior centering or drilling of a pilot hole
- Safe pilot hole drilling, even in slanting surfaces, in pipes and welds
- The feeding power is reduced by up to 50 %
- The drill bit facilitates an increase in drilling progress by up to 45 %.
- Even chip removal and reduction of chip friction
- Extremely true running and precise round holes
- No jamming of the main cutting edge and no slipping of the drill bit with through boring holes
- High fracture strength and long tool life
- Reduced friction due to reduced diameter in the shank direction
- Higher breaking strength through conical reinforced drilling core
- Long operating time and fast drilling progress through chemical thermal method of hardening and accurate cross-ground finish
- Due to the alloying addition of 5% Co these drill bits are well-suited for work pieces with a tensile strength of more than 800 N/mm<sup>2</sup>
- Extra high temperature strength to cope with suboptimal supply of coolant
- Up to 20% higher durability than identically constructed HSS drill bits used under the same operating conditions

### Net surcharges for self-service pouches HSS DIN 338

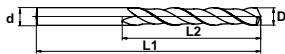


0,5 - 10,5

11,0 - 15,0

15,5 - 20,0

# HSS-E DIN 338 COBALT, GROUND SPLIT POINT IN SELF-SERVICE POUCH | 307



## DRIVE



## EXECUTION

- In self-service pouch
- Profile-ground
- Right-hand cutting, type N
- 5 % cobalt
- Short, cylindrical
- 135° conical section
- Cross-ground finish to DIN 1412 C (from Ø 3,0 mm)
- Diametral tolerance h8

## FOR USE IN

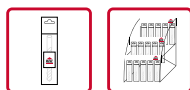


- Materials with a high strength above 800 N/mm<sup>2</sup> which are difficult to cut
- Special alloys
- Solder resistant steel
- Stainless steel V2A -V4A

## APPLICATION

- In all rotary and percussion drilling machines
- In machines for mechanical processing
- Only for rotary use

## PACKAGING



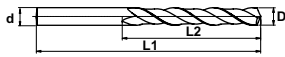
[165]

### Comments

- Other dimensions p.76-78

| D<br>Ø mm | L2<br>mm | L1<br>mm |   |    | EAN<br>4016707... |             |
|-----------|----------|----------|---|----|-------------------|-------------|
| 1,00      | 12       | 34       | 2 | 5  | 062926            | 307 320 100 |
| 1,50      | 18       | 40       | 2 | 5  | 062933            | 307 320 150 |
| 2,00      | 24       | 49       | 2 | 5  | 062940            | 307 320 200 |
| 2,50      | 30       | 57       | 2 | 5  | 062957            | 307 320 250 |
| 3,00      | 33       | 61       | 2 | 5  | 062964            | 307 320 300 |
| 3,20      | 36       | 65       | 2 | 5  | 062971            | 307 320 320 |
| 3,30      | 36       | 65       | 2 | 5  | 062988            | 307 320 330 |
| 3,50      | 39       | 70       | 2 | 5  | 062995            | 307 320 350 |
| 4,00      | 43       | 75       | 1 | 10 | 063084            | 307 300 400 |
| 4,20      | 43       | 75       | 1 | 10 | 063091            | 307 300 420 |
| 4,50      | 47       | 80       | 1 | 10 | 063107            | 307 300 450 |
| 4,80      | 52       | 86       | 1 | 10 | 063336            | 307 300 480 |
| 5,00      | 52       | 86       | 1 | 10 | 063114            | 307 300 500 |
| 5,50      | 57       | 93       | 1 | 10 | 063138            | 307 300 550 |
| 6,00      | 57       | 93       | 1 | 10 | 063145            | 307 300 600 |
| 6,50      | 63       | 101      | 1 | 10 | 063152            | 307 300 650 |
| 7,00      | 69       | 109      | 1 | 10 | 063176            | 307 300 700 |
| 7,50      | 69       | 109      | 1 | 10 | 063183            | 307 300 750 |
| 8,00      | 75       | 117      | 1 | 10 | 063190            | 307 300 800 |
| 8,50      | 75       | 117      | 1 | 10 | 063206            | 307 300 850 |
| 9,00      | 81       | 125      | 1 | 10 | 063213            | 307 300 900 |
| 9,50      | 81       | 125      | 1 | 10 | 063220            | 307 300 950 |
| 10,00     | 87       | 133      | 1 | 10 | 063237            | 307 301 000 |
| 10,20     | 87       | 133      | 1 | 5  | 063244            | 307 301 020 |
| 10,50     | 87       | 133      | 1 | 5  | 063251            | 307 301 050 |
| 11,00     | 94       | 142      | 1 | 5  | 063268            | 307 301 100 |
| 11,50     | 94       | 142      | 1 | 5  | 063275            | 307 301 150 |
| 12,00     | 101      | 151      | 1 | 5  | 063282            | 307 301 200 |
| 12,50     | 101      | 151      | 1 | 5  | 063299            | 307 301 250 |
| 13,00     | 101      | 151      | 1 | 5  | 063305            | 307 301 300 |

# HSS TIN DIN 338 STEEL DRILL BITS | 311



## DRIVE



## EXECUTION

- Right hand cutting
- TIN coated
- Cross-ground finish and 135° conical section for optimum centering when pilot drilling

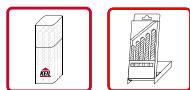
## FOR USE IN



## APPLICATION

- For drilling alloyed and unalloyed steel, iron, cast iron, sheet metal, non-ferrous metals and plastics
- Ideal for heavy-duty use thanks to long service life and powerful drilling performance

## PACKAGING

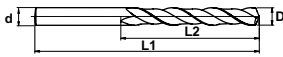


[148]

| D<br>Ø mm | L2<br>mm | L1<br>mm |      |    | EAN<br>4016707... |             |
|-----------|----------|----------|------|----|-------------------|-------------|
| 1,00      | 12       | 34       | 1    | 10 | 919602            | 311 000 010 |
| 1,50      | 18       | 40       | 1,5  | 10 | 919619            | 311 000 015 |
| 2,00      | 24       | 49       | 2    | 10 | 919626            | 311 000 020 |
| 2,50      | 30       | 57       | 2,5  | 10 | 919633            | 311 000 025 |
| 3,00      | 33       | 61       | 3    | 10 | 919640            | 311 000 030 |
| 3,20      | 36       | 65       | 3,2  | 10 | 919657            | 311 000 032 |
| 3,30      | 36       | 65       | 3,3  | 10 | 919664            | 311 000 033 |
| 3,50      | 39       | 70       | 3,5  | 10 | 919671            | 311 000 035 |
| 4,00      | 43       | 75       | 4    | 10 | 919688            | 311 000 040 |
| 4,20      | 43       | 75       | 4,2  | 10 | 919695            | 311 000 042 |
| 4,50      | 47       | 80       | 4,5  | 10 | 919701            | 311 000 045 |
| 4,80      | 52       | 86       | 4,8  | 10 | 919718            | 311 000 048 |
| 5,00      | 52       | 86       | 5    | 10 | 919725            | 311 000 050 |
| 5,50      | 57       | 93       | 5,5  | 10 | 919732            | 311 000 055 |
| 6,00      | 57       | 93       | 6    | 10 | 919749            | 311 000 060 |
| 6,50      | 63       | 101      | 6,5  | 10 | 919756            | 311 000 065 |
| 7,00      | 69       | 101      | 7    | 10 | 919763            | 311 000 070 |
| 7,50      | 69       | 109      | 7,5  | 10 | 919770            | 311 000 075 |
| 8,00      | 75       | 117      | 8    | 10 | 919787            | 311 000 080 |
| 8,50      | 75       | 117      | 8,5  | 10 | 919794            | 311 000 085 |
| 9,00      | 81       | 125      | 9    | 10 | 919800            | 311 000 090 |
| 9,50      | 81       | 125      | 9,5  | 10 | 919817            | 311 000 095 |
| 10,00     | 87       | 133      | 10   | 10 | 919824            | 311 000 100 |
| 10,50     | 87       | 133      | 10,5 | 10 | 919831            | 311 000 105 |
| 11,00     | 94       | 142      | 11   | 5  | 919848            | 311 000 110 |
| 11,50     | 94       | 142      | 11,5 | 5  | 919855            | 311 000 115 |
| 12,00     | 101      | 151      | 12   | 5  | 919862            | 311 000 120 |
| 12,50     | 101      | 151      | 12,5 | 5  | 919879            | 311 000 125 |
| 13,00     | 101      | 151      | 13   | 5  | 919886            | 311 000 130 |



# HSS TIN DIN 338 STEEL DRILL BITS IN SELF-SERVICE POUCH | 311



## DRIVE



| D<br>Ø mm | L2<br>mm | L1<br>mm |      |   | EAN<br>4016707... |             |
|-----------|----------|----------|------|---|-------------------|-------------|
| 1,00      | 12       | 34       | 1    | 2 | 920363            | 311 320 010 |
| 1,50      | 18       | 40       | 1,5  | 2 | 920370            | 311 320 015 |
| 2,00      | 24       | 49       | 2    | 2 | 920387            | 311 320 020 |
| 2,50      | 30       | 57       | 2,5  | 2 | 920394            | 311 320 025 |
| 3,00      | 33       | 61       | 3    | 2 | 920400            | 311 320 030 |
| 3,20      | 36       | 65       | 3,2  | 2 | 920417            | 311 320 032 |
| 3,30      | 36       | 65       | 3,3  | 2 | 920424            | 311 320 033 |
| 3,50      | 39       | 70       | 3,5  | 2 | 920431            | 311 320 035 |
| 4,00      | 43       | 75       | 4    | 1 | 920448            | 311 300 040 |
| 4,20      | 43       | 75       | 4,2  | 1 | 920455            | 311 300 042 |
| 4,50      | 47       | 80       | 4,5  | 1 | 920462            | 311 300 045 |
| 4,80      | 52       | 86       | 4,8  | 1 | 920479            | 311 300 048 |
| 5,00      | 52       | 86       | 5    | 1 | 920486            | 311 300 050 |
| 5,50      | 57       | 93       | 5,5  | 1 | 920493            | 311 300 055 |
| 6,00      | 57       | 93       | 6    | 1 | 920509            | 311 300 060 |
| 6,50      | 63       | 101      | 6,5  | 1 | 920516            | 311 300 065 |
| 7,00      | 69       | 101      | 7    | 1 | 920523            | 311 300 070 |
| 7,50      | 69       | 109      | 7,5  | 1 | 920530            | 311 300 075 |
| 8,00      | 75       | 117      | 8    | 1 | 920547            | 311 300 080 |
| 8,50      | 75       | 117      | 8,5  | 1 | 920554            | 311 300 085 |
| 9,00      | 81       | 125      | 9    | 1 | 920561            | 311 300 090 |
| 9,50      | 81       | 125      | 9,5  | 1 | 920578            | 311 300 095 |
| 10,00     | 87       | 133      | 10   | 1 | 920585            | 311 300 100 |
| 10,50     | 87       | 133      | 10,5 | 1 | 920592            | 311 300 105 |
| 11,00     | 94       | 142      | 11   | 1 | 920608            | 311 300 110 |
| 11,50     | 94       | 142      | 11,5 | 1 | 920615            | 311 300 115 |
| 12,00     | 101      | 151      | 12   | 1 | 920622            | 311 300 120 |
| 12,50     | 101      | 151      | 12,5 | 1 | 920639            | 311 300 125 |
| 13,00     | 101      | 151      | 13   | 1 | 920646            | 311 300 130 |

## EXECUTION

- Right hand cutting
- TIN coated
- Cross-ground finish and 135° conical section for optimum centering when pilot drilling

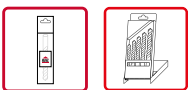
## FOR USE IN



## APPLICATION

- For drilling alloyed and unalloyed steel, iron, cast iron, sheet metal, non-ferrous metals and plastics
- Ideal for heavy-duty use thanks to long service life and powerful drilling performance

## PACKAGING



[148]

# HSS DIN 338 GROUND, SPLIT POINT | 302



## DRIVE



## EXECUTION

- Profile-ground
- Right-hand cutting, type N
- High-performance high-speed steel
- Ground from the solid
- Short, cylindrical
- 118° conical section
- Cross-ground finish to DIN 1412 C (from Ø 3,0 mm)
- Diametral tolerance h8

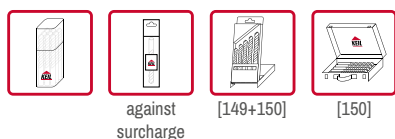
## FOR USE IN



## APPLICATION

- In all rotary and percussion drilling machines
- In machines for mechanical processing
- Only for rotary use

## PACKAGING



| D<br>Ø mm | L2<br>mm | L1<br>mm | d<br>mm |    | EAN<br>4016707... | <br>12345   |
|-----------|----------|----------|---------|----|-------------------|-------------|
| 1,00      | 12       | 34       | 1,0     | 10 | 120015            | 302 000 100 |
| 1,10      | 14       | 36       | 1,1     | 10 | 120794            | 302 000 110 |
| 1,20      | 16       | 38       | 1,2     | 10 | 120800            | 302 000 120 |
| 1,30      | 16       | 38       | 1,3     | 10 | 120817            | 302 000 130 |
| 1,40      | 18       | 40       | 1,4     | 10 | 120824            | 302 000 140 |
| 1,50      | 18       | 40       | 1,5     | 10 | 120022            | 302 000 150 |
| 1,60      | 20       | 43       | 1,6     | 10 | 120831            | 302 000 160 |
| 1,70      | 20       | 43       | 1,7     | 10 | 120848            | 302 000 170 |
| 1,80      | 22       | 46       | 1,8     | 10 | 120855            | 302 000 180 |
| 1,90      | 22       | 46       | 1,9     | 10 | 120862            | 302 000 190 |
| 2,00      | 24       | 49       | 2,0     | 10 | 120039            | 302 000 200 |
| 2,10      | 24       | 49       | 2,1     | 10 | 120879            | 302 000 210 |
| 2,20      | 27       | 53       | 2,2     | 10 | 120886            | 302 000 220 |
| 2,30      | 27       | 53       | 2,3     | 10 | 120893            | 302 000 230 |
| 2,40      | 30       | 57       | 2,4     | 10 | 120909            | 302 000 240 |
| 2,50      | 30       | 57       | 2,5     | 10 | 120046            | 302 000 250 |
| 2,60      | 30       | 57       | 2,6     | 10 | 120916            | 302 000 260 |
| 2,70      | 33       | 61       | 2,7     | 10 | 120923            | 302 000 270 |
| 2,80      | 33       | 61       | 2,8     | 10 | 120930            | 302 000 280 |
| 2,90      | 33       | 61       | 2,9     | 10 | 120947            | 302 000 290 |
| 3,00      | 33       | 61       | 3,0     | 10 | 120053            | 302 000 300 |
| 3,10      | 36       | 65       | 3,1     | 10 | 120954            | 302 000 310 |
| 3,20      | 36       | 65       | 3,2     | 10 | 120060            | 302 000 320 |
| 3,30      | 36       | 65       | 3,3     | 10 | 120077            | 302 000 330 |
| 3,40      | 39       | 70       | 3,4     | 10 | 120978            | 302 000 340 |
| 3,50      | 39       | 70       | 3,5     | 10 | 120084            | 302 000 350 |
| 3,60      | 39       | 70       | 3,6     | 10 | 120985            | 302 000 360 |
| 3,70      | 39       | 70       | 3,7     | 10 | 120992            | 302 000 370 |
| 3,80      | 43       | 75       | 3,8     | 10 | 121005            | 302 000 380 |
| 3,90      | 43       | 75       | 3,9     | 10 | 121012            | 302 000 390 |
| 4,00      | 43       | 75       | 4,0     | 10 | 120091            | 302 000 400 |
| 4,10      | 43       | 75       | 4,1     | 10 | 120107            | 302 000 410 |
| 4,20      | 43       | 75       | 4,2     | 10 | 120114            | 302 000 420 |
| 4,30      | 47       | 80       | 4,3     | 10 | 121029            | 302 000 430 |
| 4,40      | 47       | 80       | 4,4     | 10 | 121036            | 302 000 440 |
| 4,50      | 47       | 80       | 4,5     | 10 | 120121            | 302 000 450 |
| 4,60      | 47       | 80       | 4,6     | 10 | 121043            | 302 000 460 |
| 4,70      | 47       | 80       | 4,7     | 10 | 121050            | 302 000 470 |
| 4,80      | 52       | 86       | 4,8     | 10 | 120138            | 302 000 480 |
| 4,90      | 52       | 86       | 4,9     | 10 | 121067            | 302 000 490 |
| 5,00      | 52       | 86       | 5,0     | 10 | 120145            | 302 000 500 |
| 5,10      | 52       | 86       | 5,1     | 10 | 120152            | 302 000 510 |
| 5,20      | 52       | 86       | 5,2     | 10 | 120169            | 302 000 520 |
| 5,30      | 52       | 86       | 5,3     | 10 | 121074            | 302 000 530 |
| 5,40      | 57       | 93       | 5,4     | 10 | 121081            | 302 000 540 |
| 5,50      | 57       | 93       | 5,5     | 10 | 120176            | 302 000 550 |

# HSS DIN 338 GROUND, SPLIT POINT | 302



## DRIVE



## EXECUTION

- Profile-ground
- Right-hand cutting, type N
- High-performance high-speed steel
- Ground from the solid
- Short, cylindrical
- 118° conical section
- Cross-ground finish to DIN 1412 C (from Ø 3,0 mm)
- Diametral tolerance h8

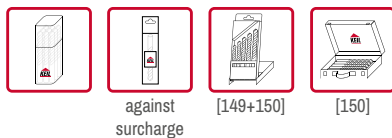
## FOR USE IN



## APPLICATION

- In all rotary and percussion drilling machines
- In machines for mechanical processing
- Only for rotary use

## PACKAGING



against surcharge

[149+150]

[150]

| D<br>Ø mm | L2<br>mm | L1<br>mm | d<br>mm |    | EAN<br>4016707... |             |
|-----------|----------|----------|---------|----|-------------------|-------------|
| 5,60      | 57       | 93       | 5,6     | 10 | 121098            | 302 000 560 |
| 5,70      | 57       | 93       | 5,7     | 10 | 121104            | 302 000 570 |
| 5,80      | 57       | 93       | 5,8     | 10 | 121111            | 302 000 580 |
| 5,90      | 57       | 93       | 5,9     | 10 | 121128            | 302 000 590 |
| 6,00      | 57       | 93       | 6,0     | 10 | 120183            | 302 000 600 |
| 6,10      | 63       | 101      | 6,1     | 10 | 121135            | 302 000 610 |
| 6,20      | 63       | 101      | 6,2     | 10 | 121142            | 302 000 620 |
| 6,30      | 63       | 101      | 6,3     | 10 | 121159            | 302 000 630 |
| 6,40      | 63       | 101      | 6,4     | 10 | 121166            | 302 000 640 |
| 6,50      | 63       | 101      | 6,5     | 10 | 120190            | 302 000 650 |
| 6,60      | 63       | 101      | 6,6     | 10 | 121173            | 302 000 660 |
| 6,70      | 63       | 101      | 6,7     | 10 | 121180            | 302 000 670 |
| 6,80      | 69       | 109      | 6,8     | 10 | 120206            | 302 000 680 |
| 6,90      | 69       | 109      | 6,9     | 10 | 121197            | 302 000 690 |
| 7,00      | 69       | 109      | 7,0     | 10 | 120213            | 302 000 700 |
| 7,10      | 69       | 109      | 7,1     | 10 | 121203            | 302 000 710 |
| 7,20      | 69       | 109      | 7,2     | 10 | 121210            | 302 000 720 |
| 7,30      | 69       | 109      | 7,3     | 10 | 121227            | 302 000 730 |
| 7,40      | 69       | 109      | 7,4     | 10 | 121234            | 302 000 740 |
| 7,50      | 69       | 109      | 7,5     | 10 | 120220            | 302 000 750 |
| 7,60      | 75       | 117      | 7,6     | 10 | 121241            | 302 000 760 |
| 7,70      | 75       | 117      | 7,7     | 10 | 121258            | 302 000 770 |
| 7,80      | 75       | 117      | 7,8     | 10 | 121265            | 302 000 780 |
| 7,90      | 75       | 117      | 7,9     | 10 | 121272            | 302 000 790 |
| 8,00      | 75       | 117      | 8,0     | 10 | 120237            | 302 000 800 |
| 8,10      | 75       | 117      | 8,1     | 10 | 121289            | 302 000 810 |
| 8,20      | 75       | 117      | 8,2     | 10 | 121296            | 302 000 820 |
| 8,30      | 75       | 117      | 8,3     | 10 | 121302            | 302 000 830 |
| 8,40      | 75       | 117      | 8,4     | 10 | 121319            | 302 000 840 |
| 8,50      | 75       | 117      | 8,5     | 10 | 120244            | 302 000 850 |
| 8,60      | 81       | 125      | 8,6     | 10 | 121326            | 302 000 860 |
| 8,70      | 81       | 125      | 8,7     | 10 | 121333            | 302 000 870 |
| 8,80      | 81       | 125      | 8,8     | 10 | 121340            | 302 000 880 |
| 8,90      | 81       | 125      | 8,9     | 10 | 121357            | 302 000 890 |
| 9,00      | 81       | 125      | 9,0     | 10 | 120251            | 302 000 900 |
| 9,10      | 81       | 125      | 9,1     | 10 | 121364            | 302 000 910 |
| 9,20      | 81       | 125      | 9,2     | 10 | 121371            | 302 000 920 |
| 9,30      | 81       | 125      | 9,3     | 10 | 121388            | 302 000 930 |
| 9,40      | 81       | 125      | 9,4     | 10 | 121395            | 302 000 940 |
| 9,50      | 81       | 125      | 9,5     | 10 | 120268            | 302 000 950 |
| 9,60      | 87       | 133      | 9,6     | 10 | 121401            | 302 000 960 |
| 9,70      | 87       | 133      | 9,7     | 10 | 121418            | 302 000 970 |
| 9,80      | 87       | 133      | 9,8     | 10 | 121425            | 302 000 980 |
| 9,90      | 87       | 133      | 9,9     | 10 | 121432            | 302 000 990 |
| 10,00     | 87       | 133      | 10,0    | 10 | 120275            | 302 001 000 |
| 10,20     | 87       | 133      | 10,2    | 5  | 120282            | 302 001 020 |

# HSS DIN 338 GROUND, SPLIT POINT | 302



## DRIVE



## EXECUTION

- Profile-ground
- Right-hand cutting, type N
- High-performance high-speed steel
- Ground from the solid
- Short, cylindrical
- 118° conical section
- Cross-ground finish to DIN 1412 C (from Ø 3,0 mm)
- Diametral tolerance h8

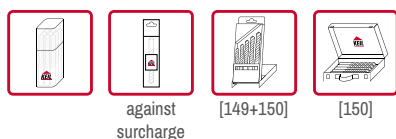
## FOR USE IN



## APPLICATION

- In all rotary and percussion drilling machines
- In machines for mechanical processing
- Only for rotary use

## PACKAGING



| D<br>Ø mm | L2<br>mm | L1<br>mm | d<br>Ø mm |   | EAN<br>14016707... |             |
|-----------|----------|----------|-----------|---|--------------------|-------------|
| 10,50     | 87       | 133      | 10,5      | 5 | 120299             | 302 001 050 |
| 11,00     | 94       | 142      | 11,0      | 5 | 120305             | 302 001 100 |
| 11,50     | 94       | 142      | 11,5      | 5 | 120312             | 302 001 150 |
| 12,00     | 101      | 151      | 12,0      | 5 | 120329             | 302 001 200 |
| 12,50     | 101      | 151      | 12,5      | 5 | 120336             | 302 001 250 |
| 13,00     | 101      | 151      | 13,0      | 5 | 120343             | 302 001 300 |
| 13,50     | 108      | 160      | 13,5      | 5 | 121449             | 302 001 350 |
| 14,00     | 108      | 160      | 14,0      | 5 | 121456             | 302 001 400 |
| 14,50     | 114      | 169      | 14,5      | 5 | 121463             | 302 001 450 |
| 15,00     | 114      | 169      | 15,0      | 5 | 121470             | 302 001 500 |
| 15,50     | 120      | 178      | 15,5      | 5 | 121487             | 302 001 550 |
| 16,00     | 120      | 178      | 16,0      | 5 | 121494             | 302 001 600 |

## HSS DIN 338 GROUND, SPLIT POINT

- Centre punching is not necessary
- Safe pilot hole drilling, even in slanting surfaces, in pipes and welds
- The feeding power is reduced by up to 50%
- The drill bit facilitates an increase in drilling progress by up to 45%
- Regular chip removal and reduction of chip friction
- Extremely true running and precise round holes
- No jamming of the main cutting edge and no slipping of the drill bit for through-holes
- High fracture strength and long life
- Reduced friction due to reduced external diameter in shank direction
- Higher breaking resistance due to conically reinforced drilling core
- Long operating time and fast drilling progress due to chemical thermal method of hardening and accurate cross-ground finish

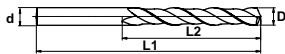
### Net surcharges for reduced shank Ø

| D<br>Ø mm | d<br>Ø mm |
|-----------|-----------|
| 10,1 - 13 | 10        |
| 13,1 - 16 | 10        |
| 13,1 - 16 | 13        |

### Net surcharges for self-service pouches HSS DIN 338

| D<br>Ø mm   |
|-------------|
| 0,5 - 10,5  |
| 11,0 - 15,0 |
| 15,5 - 20,0 |

# HSS DIN 338, GROUND, SPLIT POINT, IN SELF-SERVICE POUCH | 302



## DRIVE



## EXECUTION

- In self-service pouch
- Profile-ground
- Right-hand cutting, type N
- High-performance high-speed steel
- Ground from the solid
- Short, cylindrical
- 118° conical section
- Cross-ground finish to DIN 1412 C (from Ø 3,0 mm)
- Diametral tolerance h8

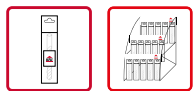
## FOR USE IN



## APPLICATION

- In all rotary and percussion drilling machines
- In machines for mechanical processing
- Only for rotary use

## PACKAGING



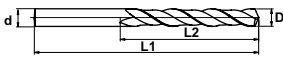
[165]

### Comments

- Other dimensions S.82-84








| D<br>Ø mm | L2<br>mm | L1<br>mm |   |    | EAN<br>4016707... |             |
|-----------|----------|----------|---|----|-------------------|-------------|
| 1,00      | 12       | 34       | 2 | 5  | 122637            | 302 320 100 |
| 1,50      | 18       | 40       | 2 | 5  | 122644            | 302 320 150 |
| 2,00      | 24       | 49       | 2 | 5  | 122651            | 302 320 200 |
| 2,50      | 30       | 57       | 2 | 5  | 120718            | 302 320 250 |
| 3,00      | 33       | 61       | 2 | 5  | 120725            | 302 320 300 |
| 3,20      | 36       | 65       | 2 | 5  | 120732            | 302 320 320 |
| 3,30      | 36       | 65       | 2 | 5  | 122668            | 302 320 330 |
| 3,50      | 39       | 70       | 2 | 5  | 120749            | 302 320 350 |
| 4,00      | 43       | 75       | 1 | 10 | 120459            | 302 300 400 |
| 4,20      | 43       | 75       | 1 | 10 | 120473            | 302 300 420 |
| 4,50      | 47       | 80       | 1 | 10 | 120480            | 302 300 450 |
| 4,80      | 52       | 86       | 1 | 10 | 120497            | 302 300 480 |
| 5,00      | 52       | 86       | 1 | 10 | 120503            | 302 300 500 |
| 5,50      | 57       | 93       | 1 | 10 | 120534            | 302 300 550 |
| 6,00      | 57       | 93       | 1 | 10 | 120541            | 302 300 600 |
| 6,50      | 63       | 101      | 1 | 10 | 120558            | 302 300 650 |
| 7,00      | 69       | 109      | 1 | 10 | 120572            | 302 300 700 |
| 7,50      | 69       | 109      | 1 | 10 | 120589            | 302 300 750 |
| 8,00      | 75       | 117      | 1 | 10 | 120596            | 302 300 800 |
| 8,50      | 75       | 117      | 1 | 10 | 120602            | 302 300 850 |
| 9,00      | 81       | 125      | 1 | 10 | 120619            | 302 300 900 |
| 9,50      | 81       | 125      | 1 | 10 | 120626            | 302 300 950 |
| 10,00     | 87       | 133      | 1 | 10 | 120633            | 302 301 000 |
| 10,20     | 87       | 133      | 1 | 5  | 120640            | 302 301 020 |
| 10,50     | 87       | 133      | 1 | 5  | 120657            | 302 301 050 |
| 11,00     | 94       | 142      | 1 | 5  | 120664            | 302 301 100 |
| 11,50     | 94       | 142      | 1 | 5  | 120671            | 302 301 150 |
| 12,00     | 101      | 151      | 1 | 5  | 120688            | 302 301 200 |
| 12,50     | 101      | 151      | 1 | 5  | 120695            | 302 301 250 |
| 13,00     | 101      | 151      | 1 | 5  | 120701            | 302 301 300 |

# HSS DIN 338 STANDARD | 300



## DRIVE



|  D<br>Ø mm |  L2<br>mm |  L1<br>mm |  d<br>mm |  |  EAN<br>4016707... |  12345 |
|---|--|--|---|---|---|---|
| 0,50  | 6  | 22   | 0,5   | 10  | 040016  | 300 000 050   |
| 0,60  | 7  | 24   | 0,6   | 10  | 040023  | 300 000 060   |
| 0,70  | 9  | 28   | 0,7   | 10  | 040030  | 300 000 070   |
| 0,80  | 10   | 30   | 0,8   | 10  | 040047  | 300 000 080   |
| 0,90  | 11   | 32   | 0,9   | 10  | 040054  | 300 000 090   |
| 1,00  | 12   | 34   | 1,0   | 10  | 040061  | 300 000 100   |
| 1,10  | 14   | 36   | 1,1   | 10  | 040078  | 300 000 110   |
| 1,20  | 16   | 38   | 1,2   | 10  | 040085  | 300 000 120   |
| 1,25  | 16   | 38   | 1,3   | 10  | 040092  | 300 000 125   |
| 1,30  | 16   | 38   | 1,3   | 10  | 040108  | 300 000 130   |
| 1,40  | 18   | 40   | 1,4   | 10  | 040115  | 300 000 140   |
| 1,50  | 18   | 40   | 1,5   | 10  | 040122  | 300 000 150   |
| 1,60  | 20   | 43   | 1,6   | 10  | 040139  | 300 000 160   |
| 1,70  | 20   | 43   | 1,7   | 10  | 040146  | 300 000 170   |
| 1,75  | 22   | 46   | 1,8   | 10  | 040153  | 300 000 175   |
| 1,80  | 22   | 46   | 1,8   | 10  | 040160  | 300 000 180   |
| 1,90  | 22   | 46   | 1,9   | 10  | 040177  | 300 000 190   |
| 2,00  | 24   | 49   | 2,0   | 10  | 040184  | 300 000 200   |
| 2,10  | 24   | 49   | 2,1   | 10  | 040191  | 300 000 210   |
| 2,20  | 27   | 53   | 2,2   | 10  | 040207  | 300 000 220   |
| 2,25  | 27   | 53   | 2,3   | 10  | 040214  | 300 000 225   |
| 2,30  | 27   | 53   | 2,3   | 10  | 040221  | 300 000 230   |
| 2,40  | 30   | 57   | 2,4   | 10  | 040238  | 300 000 240   |
| 2,50  | 30   | 57   | 2,5   | 10  | 040245  | 300 000 250   |
| 2,60  | 30   | 57   | 2,6   | 10  | 040252  | 300 000 260   |
| 2,70  | 33   | 61   | 2,7   | 10  | 040269  | 300 000 270   |
| 2,75  | 33   | 61   | 2,8   | 10  | 040276  | 300 000 275   |
| 2,80  | 33   | 61   | 2,8   | 10  | 040283  | 300 000 280   |
| 2,90  | 33   | 61   | 2,9   | 10  | 040290  | 300 000 290   |
| 3,00  | 33   | 61   | 3,0   | 10  | 040306  | 300 000 300   |
| 3,10  | 36   | 65   | 3,1   | 10  | 040313  | 300 000 310   |
| 3,20  | 36   | 65   | 3,2   | 10  | 040320  | 300 000 320   |
| 3,25  | 36   | 65   | 3,3   | 10  | 040337  | 300 000 325   |
| 3,30  | 36   | 65   | 3,3   | 10  | 040344  | 300 000 330   |
| 3,40  | 39   | 70   | 3,4   | 10  | 040351  | 300 000 340   |
| 3,50  | 39   | 70   | 3,5   | 10  | 040368  | 300 000 350   |
| 3,60  | 39   | 70   | 3,6   | 10  | 040375  | 300 000 360   |
| 3,70  | 39   | 70   | 3,7   | 10  | 040382  | 300 000 370   |
| 3,75  | 39   | 70   | 3,8   | 10  | 040399  | 300 000 375   |
| 3,80  | 43   | 75   | 3,8   | 10  | 040405  | 300 000 380   |
| 3,90  | 43   | 75   | 3,9   | 10  | 040412  | 300 000 390   |
| 4,00  | 43   | 75   | 4,0   | 10  | 040429  | 300 000 400   |
| 4,10  | 43   | 75   | 4,1   | 10  | 040436  | 300 000 410   |
| 4,20  | 43   | 75   | 4,2   | 10  | 040443  | 300 000 420   |
| 4,25  | 43   | 75   | 4,3   | 10  | 040450  | 300 000 425   |
| 4,30  | 47   | 80   | 4,3   | 10  | 040467  | 300 000 430   |

## EXECUTION

- Right-hand cutting, type N
- High-performance high-speed steel
- Short, cylindrical
- 118° conical section
- Diametral tolerance h8

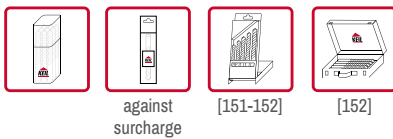
## FOR USE IN



## APPLICATION

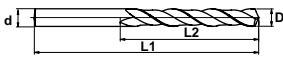
- In all rotary and percussion drilling machines
- In machines for mechanical processing
- Only for rotary use

## PACKAGING



HAMMER DRILL BITS  
CHISEL  
STONE AND SPECIAL DRILL BITS  
METAL DRILL BITS  
WOOD DRILL BITS  
SAWS  
ASSORTMENTS  
MODULES - SHELVES

# HSS DIN 338 STANDARD | 300



## DRIVE



## EXECUTION

- Right-hand cutting, type N
- High-performance high-speed steel
- Short, cylindrical
- 118° conical section
- Diametral tolerance h8

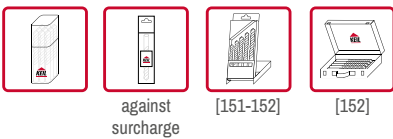
## FOR USE IN



## APPLICATION

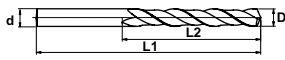
- In all rotary and percussion drilling machines
- In machines for mechanical processing
- Only for rotary use

## PACKAGING



| D<br>Ø mm | L2<br>mm | L1<br>mm | d<br>Ø mm |    | EAN<br>4016707... |             |
|-----------|----------|----------|-----------|----|-------------------|-------------|
| 4,40      | 47       | 80       | 4,4       | 10 | 040474            | 300 000 440 |
| 4,50      | 47       | 80       | 4,5       | 10 | 040481            | 300 000 450 |
| 4,60      | 47       | 80       | 4,6       | 10 | 040498            | 300 000 460 |
| 4,70      | 47       | 80       | 4,7       | 10 | 040504            | 300 000 470 |
| 4,75      | 47       | 80       | 4,8       | 10 | 040511            | 300 000 475 |
| 4,80      | 52       | 86       | 4,8       | 10 | 040528            | 300 000 480 |
| 4,90      | 52       | 86       | 4,9       | 10 | 040535            | 300 000 490 |
| 5,00      | 52       | 86       | 5,0       | 10 | 040542            | 300 000 500 |
| 5,10      | 52       | 86       | 5,1       | 10 | 040559            | 300 000 510 |
| 5,20      | 52       | 86       | 5,2       | 10 | 040566            | 300 000 520 |
| 5,25      | 52       | 86       | 5,3       | 10 | 040573            | 300 000 525 |
| 5,30      | 52       | 86       | 5,3       | 10 | 040580            | 300 000 530 |
| 5,40      | 57       | 93       | 5,4       | 10 | 040597            | 300 000 540 |
| 5,50      | 57       | 93       | 5,5       | 10 | 040603            | 300 000 550 |
| 5,60      | 57       | 93       | 5,6       | 10 | 040610            | 300 000 560 |
| 5,70      | 57       | 93       | 5,7       | 10 | 040627            | 300 000 570 |
| 5,75      | 57       | 93       | 5,8       | 10 | 040634            | 300 000 575 |
| 5,80      | 57       | 93       | 5,8       | 10 | 040641            | 300 000 580 |
| 5,90      | 57       | 93       | 5,9       | 10 | 040658            | 300 000 590 |
| 6,00      | 57       | 93       | 6,0       | 10 | 040665            | 300 000 600 |
| 6,10      | 63       | 101      | 6,1       | 10 | 040672            | 300 000 610 |
| 6,20      | 63       | 101      | 6,2       | 10 | 040689            | 300 000 620 |
| 6,25      | 63       | 101      | 6,3       | 10 | 040696            | 300 000 625 |
| 6,30      | 63       | 101      | 6,3       | 10 | 040702            | 300 000 630 |
| 6,40      | 63       | 101      | 6,4       | 10 | 040719            | 300 000 640 |
| 6,50      | 63       | 101      | 6,5       | 10 | 040726            | 300 000 650 |
| 6,60      | 63       | 101      | 6,6       | 10 | 040733            | 300 000 660 |
| 6,70      | 63       | 101      | 6,7       | 10 | 040740            | 300 000 670 |
| 6,75      | 69       | 109      | 6,8       | 10 | 040757            | 300 000 675 |
| 6,80      | 69       | 109      | 6,8       | 10 | 040764            | 300 000 680 |
| 6,90      | 69       | 109      | 6,9       | 10 | 040771            | 300 000 690 |
| 7,00      | 69       | 109      | 7,0       | 10 | 040788            | 300 000 700 |
| 7,10      | 69       | 109      | 7,1       | 10 | 040795            | 300 000 710 |
| 7,20      | 69       | 109      | 7,2       | 10 | 040801            | 300 000 720 |
| 7,25      | 69       | 109      | 7,3       | 10 | 040818            | 300 000 725 |
| 7,30      | 69       | 109      | 7,3       | 10 | 040825            | 300 000 730 |
| 7,40      | 69       | 109      | 7,4       | 10 | 040832            | 300 000 740 |
| 7,50      | 69       | 109      | 7,5       | 10 | 040849            | 300 000 750 |
| 7,60      | 75       | 117      | 7,6       | 10 | 040856            | 300 000 760 |
| 7,70      | 75       | 117      | 7,7       | 10 | 040863            | 300 000 770 |
| 7,75      | 75       | 117      | 7,8       | 10 | 040870            | 300 000 775 |
| 7,80      | 75       | 117      | 7,8       | 10 | 040887            | 300 000 780 |
| 7,90      | 75       | 117      | 7,9       | 10 | 040894            | 300 000 790 |
| 8,00      | 75       | 117      | 8,0       | 10 | 040900            | 300 000 800 |
| 8,10      | 75       | 117      | 8,1       | 10 | 040917            | 300 000 810 |
| 8,20      | 75       | 117      | 8,2       | 10 | 040924            | 300 000 820 |

# HSS DIN 338 STANDARD | 300



## DRIVE



| D<br>Ø mm | L2<br>mm | L1<br>mm | d<br>Ø mm |    | EAN<br>4016707... |             |
|-----------|----------|----------|-----------|----|-------------------|-------------|
| 8,25      | 75       | 117      | 8,3       | 10 | 040931            | 300 000 825 |
| 8,30      | 75       | 117      | 8,3       | 10 | 040948            | 300 000 830 |
| 8,40      | 75       | 117      | 8,4       | 10 | 040955            | 300 000 840 |
| 8,50      | 75       | 117      | 8,5       | 10 | 040962            | 300 000 850 |
| 8,60      | 81       | 125      | 8,6       | 10 | 040979            | 300 000 860 |
| 8,70      | 81       | 125      | 8,7       | 10 | 040986            | 300 000 870 |
| 8,75      | 81       | 125      | 8,8       | 10 | 040993            | 300 000 875 |
| 8,80      | 81       | 125      | 8,8       | 10 | 041006            | 300 000 880 |
| 8,90      | 81       | 125      | 8,9       | 10 | 041013            | 300 000 890 |
| 9,00      | 81       | 125      | 9,0       | 10 | 041020            | 300 000 900 |
| 9,10      | 81       | 125      | 9,1       | 10 | 041037            | 300 000 910 |
| 9,20      | 81       | 125      | 9,2       | 10 | 041044            | 300 000 920 |
| 9,25      | 81       | 125      | 9,3       | 10 | 041051            | 300 000 925 |
| 9,30      | 81       | 125      | 9,3       | 10 | 041068            | 300 000 930 |
| 9,40      | 81       | 125      | 9,4       | 10 | 041075            | 300 000 940 |
| 9,50      | 81       | 125      | 9,5       | 10 | 041082            | 300 000 950 |
| 9,60      | 87       | 133      | 9,6       | 10 | 041099            | 300 000 960 |
| 9,70      | 87       | 133      | 9,7       | 10 | 041105            | 300 000 970 |
| 9,75      | 87       | 133      | 9,8       | 10 | 041112            | 300 000 975 |
| 9,80      | 87       | 133      | 9,8       | 10 | 041129            | 300 000 980 |
| 9,90      | 87       | 133      | 9,9       | 10 | 041136            | 300 000 990 |
| 10,00     | 87       | 133      | 10,0      | 10 | 041143            | 300 001 000 |
| 10,20     | 87       | 133      | 10,2      | 5  | 041150            | 300 001 020 |
| 10,50     | 87       | 133      | 10,5      | 5  | 041167            | 300 001 050 |
| 11,00     | 94       | 142      | 11,0      | 5  | 041174            | 300 001 100 |
| 11,50     | 94       | 142      | 11,5      | 5  | 041181            | 300 001 150 |
| 12,00     | 101      | 151      | 12,0      | 5  | 041198            | 300 001 200 |
| 12,50     | 101      | 151      | 12,5      | 5  | 041204            | 300 001 250 |
| 13,00     | 101      | 151      | 13,0      | 5  | 041211            | 300 001 300 |
| 13,50     | 108      | 160      | 13,5      | 5  | 041228            | 300 001 350 |
| 14,00     | 108      | 160      | 14,0      | 5  | 041235            | 300 001 400 |
| 14,50     | 114      | 169      | 14,5      | 5  | 041242            | 300 001 450 |
| 15,00     | 114      | 169      | 15,0      | 5  | 041259            | 300 001 500 |
| 15,50     | 120      | 178      | 15,5      | 5  | 041266            | 300 001 550 |
| 16,00     | 120      | 178      | 16,0      | 5  | 041273            | 300 001 600 |
| 16,50     | 125      | 184      | 16,0      | 5  | 041280            | 300 001 650 |
| 17,00     | 125      | 184      | 17,0      | 5  | 041297            | 300 001 700 |
| 17,50     | 130      | 191      | 17,5      | 5  | 041303            | 300 001 750 |
| 18,00     | 130      | 191      | 18,0      | 5  | 041310            | 300 001 800 |
| 18,50     | 135      | 198      | 18,5      | 5  | 041327            | 300 001 850 |
| 19,00     | 135      | 198      | 19,0      | 5  | 041334            | 300 001 900 |
| 19,50     | 140      | 205      | 19,5      | 5  | 041341            | 300 001 950 |
| 20,00     | 140      | 205      | 20,0      | 5  | 041358            | 300 002 000 |

## EXECUTION

- Right-hand cutting, type N
- High-performance high-speed steel
- Short, cylindrical
- 118° conical section
- Diametral tolerance h8

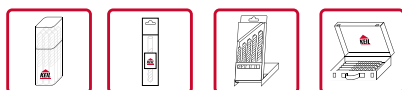
## FOR USE IN



## APPLICATION

- In all rotary and percussion drilling machines
- In machines for mechanical processing
- Only for rotary use

## PACKAGING



against  
surcharge

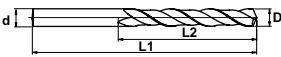
[151-152]

[152]

HAMMER DRILL BITS  
 CHISEL  
 STONE AND SPECIAL DRILL BITS  
 METAL DRILL BITS  
 WOOD DRILL BITS  
 SAWS  
 ASSORTMENTS  
 MODULES - SHELVES



# HSS DIN 338 STANDARD | 300



## DRIVE



## EXECUTION

- Right-hand cutting, type N
- High-performance high-speed steel
- Short, cylindrical
- 118° conical section
- Diametral tolerance h8

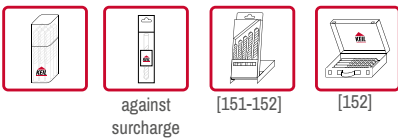
## FOR USE IN



## APPLICATION

- In all rotary and percussion drilling machines
- In machines for mechanical processing
- Only for rotary use

## PACKAGING



## HSS DIN 338 STANDARD

- The KEIL HSS twist drill bits DIN 338 standard have a high elasticity due to heat forming.
- The drill bit has a particularly robust core thickness and distinct hardness resulting in a long tool life. Cold deposition is reduced by the special surface treatment. The achieved torsional strength leads to little danger of breakage, in particular when drilling holes of less than 6 mm diameter.
- This twist drill is the conventional tool for professional use in metal.
- The drills are excellent for machining alloyed and unalloyed steel with a tensile strength up to 800 N/mm<sup>2</sup>, non-iron metal, cast iron and hard plastics.

### Net surcharges for self-service pouches HSS DIN 338

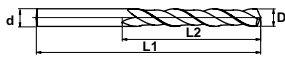


0,5 - 10,5

11,0 - 15,0

15,5 - 20,0

# HSS DIN 338 STANDARD IN SELF-SERVICE POUCH | 300



## DRIVE



## EXECUTION

- In self-service pouch
- Right-hand cutting, type N
- High-performance high-speed steel
- Short, cylindrical
- 118° conical section
- Diametral tolerance h8

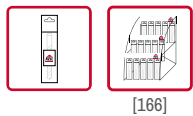
## FOR USE IN



## APPLICATION

- In all rotary and percussion drilling machines
- In machines for mechanical processing
- Only for rotary use

## PACKAGING



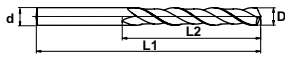
[166]

| D<br>Ø mm | L2<br>mm | L1<br>mm |   |    | EAN<br>4016707... |             |
|-----------|----------|----------|---|----|-------------------|-------------|
| 1,00      | 12       | 34       | 2 | 5  | 044458            | 300 320 100 |
| 1,50      | 18       | 40       | 2 | 5  | 044519            | 300 320 150 |
| 2,00      | 24       | 49       | 2 | 5  | 044571            | 300 320 200 |
| 2,50      | 30       | 57       | 2 | 5  | 044632            | 300 320 250 |
| 3,00      | 33       | 61       | 2 | 5  | 044694            | 300 320 300 |
| 3,20      | 36       | 65       | 2 | 5  | 044717            | 300 320 320 |
| 3,30      | 36       | 65       | 2 | 5  | 044731            | 300 320 330 |
| 3,50      | 39       | 70       | 2 | 5  | 044755            | 300 320 350 |
| 4,00      | 43       | 75       | 1 | 10 | 043420            | 300 300 400 |
| 4,20      | 43       | 75       | 1 | 10 | 043444            | 300 300 420 |
| 4,50      | 47       | 80       | 1 | 10 | 043482            | 300 300 450 |
| 4,80      | 52       | 86       | 1 | 10 | 043529            | 300 300 480 |
| 5,00      | 52       | 86       | 1 | 10 | 043543            | 300 300 500 |
| 5,50      | 57       | 93       | 1 | 10 | 043604            | 300 300 550 |
| 6,00      | 57       | 93       | 1 | 10 | 043666            | 300 300 600 |
| 6,50      | 63       | 101      | 1 | 10 | 043727            | 300 300 650 |
| 7,00      | 69       | 109      | 1 | 10 | 043789            | 300 300 700 |
| 7,50      | 69       | 109      | 1 | 10 | 043840            | 300 300 750 |
| 8,00      | 75       | 117      | 1 | 10 | 043901            | 300 300 800 |
| 8,50      | 75       | 117      | 1 | 10 | 043963            | 300 300 850 |
| 9,00      | 81       | 125      | 1 | 10 | 044021            | 300 300 900 |
| 9,50      | 81       | 125      | 1 | 10 | 044083            | 300 300 950 |
| 10,00     | 87       | 133      | 1 | 10 | 044144            | 300 301 000 |
| 10,20     | 87       | 133      | 1 | 5  | 044151            | 300 301 020 |
| 10,50     | 87       | 133      | 1 | 5  | 044168            | 300 301 050 |
| 11,00     | 94       | 142      | 1 | 5  | 044175            | 300 301 100 |
| 11,50     | 94       | 142      | 1 | 5  | 044182            | 300 301 150 |
| 12,00     | 101      | 151      | 1 | 5  | 044199            | 300 301 200 |
| 12,50     | 101      | 151      | 1 | 5  | 044205            | 300 301 250 |
| 13,00     | 101      | 151      | 1 | 5  | 044212            | 300 301 300 |

### Comments

- Other dimensions S.85-87

# HSS DIN 338 STANDARD, SHANK REDUCED | 300



## DRIVE



## EXECUTION

- Right-hand cutting, type N
- High-performance high-speed steel
- Short, cylindrical
- 118° conical section
- Diametral tolerance h8

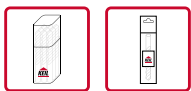
## FOR USE IN



## APPLICATION

- In all rotary and percussion drilling machines
- In machines for mechanical processing
- Only for rotary use

## PACKAGING

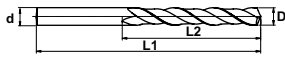


against surcharge

| D<br>Ø mm | L2<br>mm | L1<br>mm | d<br>Ø mm |   | EAN<br>4016707... |             |
|-----------|----------|----------|-----------|---|-------------------|-------------|
| 10,50     | 87       | 133      | 10,0      | 5 | 045516            | 300 105 100 |
| 11,00     | 94       | 142      | 10,0      | 5 | 045523            | 300 110 100 |
| 11,50     | 94       | 142      | 10,0      | 5 | 045530            | 300 115 100 |
| 12,00     | 101      | 151      | 10,0      | 5 | 045547            | 300 120 100 |
| 12,50     | 101      | 151      | 10,0      | 5 | 045554            | 300 125 100 |
| 13,00     | 101      | 151      | 10,0      | 5 | 045561            | 300 130 100 |
| 13,50     | 108      | 160      | 10,0      | 5 | 045578            | 300 135 100 |
| 13,50     | 108      | 160      | 13,0      | 5 | 045141            | 300 135 130 |
| 14,00     | 108      | 160      | 10,0      | 5 | 045585            | 300 140 100 |
| 14,00     | 108      | 160      | 13,0      | 5 | 045158            | 300 140 130 |
| 14,50     | 114      | 169      | 10,0      | 5 | 045592            | 300 145 100 |
| 14,50     | 114      | 169      | 13,0      | 5 | 045165            | 300 145 130 |
| 15,00     | 114      | 169      | 10,0      | 5 | 045608            | 300 150 100 |
| 15,00     | 114      | 169      | 13,0      | 5 | 045172            | 300 150 130 |
| 15,50     | 120      | 178      | 10,0      | 5 | 045615            | 300 155 100 |
| 15,50     | 120      | 178      | 13,0      | 5 | 045189            | 300 155 130 |
| 16,00     | 120      | 178      | 10,0      | 5 | 045622            | 300 160 100 |
| 16,00     | 120      | 178      | 13,0      | 5 | 045196            | 300 160 130 |
| 16,50     | 125      | 184      | 10,0      | 5 | 045646            | 300 165 100 |
| 16,50     | 125      | 184      | 13,0      | 5 | 045202            | 300 165 130 |
| 17,00     | 125      | 184      | 10,0      | 5 | 045639            | 300 170 100 |
| 17,00     | 125      | 184      | 13,0      | 5 | 045219            | 300 170 130 |
| 17,50     | 130      | 191      | 13,0      | 5 | 045226            | 300 175 130 |
| 18,00     | 130      | 191      | 10,0      | 5 | 045653            | 300 180 100 |
| 18,00     | 130      | 191      | 13,0      | 5 | 045233            | 300 180 130 |
| 18,50     | 135      | 198      | 13,0      | 5 | 045240            | 300 185 130 |
| 19,00     | 135      | 198      | 13,0      | 5 | 045257            | 300 190 130 |
| 19,50     | 140      | 205      | 13,0      | 5 | 045264            | 300 195 130 |
| 20,00     | 140      | 205      | 10,0      | 5 | 045660            | 300 200 100 |
| 20,00     | 140      | 205      | 13,0      | 5 | 045271            | 300 200 130 |

| Net surcharges<br>for self-service pouches HSS DIN 338 |             |
|--|-------------|
|  | 0,5 - 10,5  |
|  | 11,0 - 15,0 |
|  | 15,5 - 20,0 |

# HSS DIN 340 GROUND, SPLIT POINT, LONG | 340



## DRIVE



## EXECUTION

- Profile-ground
- Right-hand cutting, type N
- High-performance high-speed steel
- Long, cylindrical
- 118° conical section
- Diametral tolerance h8

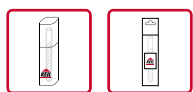
## FOR USE IN



## APPLICATION

- In all rotary and percussion drilling machines
- In machines for mechanical processing
- Only for rotary use

## PACKAGING



against surcharge

### Comments

- Other dimensions on request

| D<br>Ø mm | L2<br>mm | L1<br>mm | d<br>Ø mm |    | EAN<br>4016707... |             |
|-----------|----------|----------|-----------|----|-------------------|-------------|
| 2,00      | 56       | 85       | 2,0       | 10 | 070013            | 340 000 020 |
| 2,50      | 62       | 95       | 2,5       | 10 | 070020            | 340 000 025 |
| 2,90      | 66       | 100      | 2,9       | 10 | 070310            | 340 000 029 |
| 3,00      | 66       | 100      | 3,0       | 10 | 070037            | 340 000 030 |
| 3,20      | 69       | 106      | 3,2       | 10 | 070044            | 340 000 032 |
| 3,50      | 73       | 112      | 3,5       | 10 | 070051            | 340 000 035 |
| 3,80      | 78       | 119      | 3,8       | 10 | 070068            | 340 000 038 |
| 3,90      | 78       | 119      | 3,9       | 10 | 070327            | 340 000 039 |
| 4,00      | 78       | 119      | 4,0       | 10 | 070075            | 340 000 040 |
| 4,10      | 78       | 119      | 4,1       | 10 | 070082            | 340 000 041 |
| 4,20      | 78       | 119      | 4,2       | 10 | 070099            | 340 000 042 |
| 4,30      | 82       | 126      | 4,3       | 10 | 070105            | 340 000 043 |
| 4,50      | 82       | 126      | 4,5       | 10 | 070112            | 340 000 045 |
| 4,80      | 87       | 132      | 4,8       | 10 | 070129            | 340 000 048 |
| 4,90      | 87       | 132      | 4,9       | 10 | 070334            | 340 000 049 |
| 5,00      | 87       | 132      | 5,0       | 10 | 070136            | 340 000 050 |
| 5,10      | 87       | 132      | 5,1       | 10 | 070341            | 340 000 051 |
| 5,20      | 87       | 132      | 5,2       | 10 | 070143            | 340 000 052 |
| 5,50      | 91       | 139      | 5,5       | 10 | 070150            | 340 000 055 |
| 5,80      | 91       | 139      | 5,8       | 10 | 070174            | 340 000 058 |
| 6,00      | 91       | 139      | 6,0       | 10 | 070181            | 340 000 060 |
| 6,50      | 97       | 148      | 6,5       | 10 | 070198            | 340 000 065 |
| 7,00      | 102      | 156      | 7,0       | 10 | 070204            | 340 000 070 |
| 7,50      | 102      | 156      | 7,5       | 10 | 070211            | 340 000 075 |
| 8,00      | 109      | 165      | 8,0       | 10 | 070228            | 340 000 080 |
| 8,50      | 109      | 165      | 8,5       | 10 | 070235            | 340 000 085 |
| 9,00      | 115      | 175      | 9,0       | 10 | 070242            | 340 000 090 |
| 9,50      | 115      | 175      | 9,5       | 10 | 070259            | 340 000 095 |
| 10,00     | 121      | 184      | 10,0      | 10 | 070266            | 340 000 100 |
| 10,50     | 121      | 184      | 10,5      | 10 | 070273            | 340 000 105 |
| 11,00     | 128      | 195      | 11,0      | 10 | 070280            | 340 000 110 |
| 11,50     | 128      | 195      | 11,5      | 10 | 070297            | 340 000 115 |
| 12,00     | 134      | 205      | 12,0      | 10 | 070303            | 340 000 120 |

### Net surcharges for self-service pouches HSS DIN 338

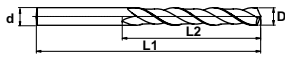


2,0 - 5,2

5,5 - 9,5

10,0 - 12,0

# HSS DIN 1869, GROUND, EXTRA LONG | 342



## DRIVE



## EXECUTION

- Profile-ground
- Right-hand cutting, type N
- High-performance high-speed steel
- Extra long, cylindrical
- 118° conical section
- Diametral tolerance h8
- Point thinning from 3,2 mm Ø

## FOR USE IN



## APPLICATION

- In all rotary and percussion drilling machines
- In machines for mechanical processing
- Only for rotary use

## PACKAGING

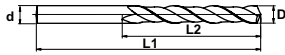


### Comments

- For drilling extremely deep holes
- Cutting speed and feed rate must not be too high for drill bit stability
- Please ensure swarf is removed frequently and cooling is sufficient
- Other dimensions on request

| D<br>Ø mm | L2<br>mm | L1<br>mm | d<br>Ø mm |   | EAN<br>4016707... |             |
|-----------|----------|----------|-----------|---|-------------------|-------------|
| 3,00      | 100      | 150      | 3,0       | 1 | 130014            | 342 030 150 |
| 3,00      | 130      | 190      | 3,0       | 1 | 130021            | 342 030 190 |
| 3,20      | 105      | 155      | 3,2       | 1 | 130038            | 342 032 155 |
| 3,20      | 135      | 200      | 3,2       | 1 | 130045            | 342 032 200 |
| 3,50      | 115      | 165      | 3,5       | 1 | 130052            | 342 035 165 |
| 3,50      | 145      | 210      | 3,5       | 1 | 130069            | 342 035 210 |
| 4,00      | 120      | 175      | 4,0       | 1 | 130076            | 342 040 175 |
| 4,00      | 150      | 220      | 4,0       | 1 | 130083            | 342 040 220 |
| 4,00      | 190      | 280      | 4,0       | 1 | 130090            | 342 040 280 |
| 4,20      | 120      | 175      | 4,2       | 1 | 130106            | 342 042 175 |
| 4,20      | 150      | 220      | 4,2       | 1 | 130113            | 342 042 220 |
| 4,50      | 125      | 185      | 4,5       | 1 | 130120            | 342 045 185 |
| 4,50      | 160      | 235      | 4,5       | 1 | 130137            | 342 045 235 |
| 5,00      | 135      | 195      | 5,0       | 1 | 130144            | 342 050 195 |
| 5,00      | 170      | 245      | 5,0       | 1 | 130151            | 342 050 245 |
| 5,00      | 210      | 315      | 5,0       | 1 | 130168            | 342 050 315 |
| 5,50      | 140      | 205      | 5,5       | 1 | 130175            | 342 055 205 |
| 5,50      | 180      | 260      | 5,5       | 1 | 130182            | 342 055 260 |
| 6,00      | 140      | 205      | 6,0       | 1 | 130199            | 342 060 205 |
| 6,00      | 180      | 260      | 6,0       | 1 | 130205            | 342 060 260 |
| 6,00      | 225      | 330      | 6,0       | 1 | 130212            | 342 060 330 |
| 6,50      | 150      | 215      | 6,5       | 1 | 130229            | 342 065 215 |
| 6,50      | 190      | 275      | 6,5       | 1 | 130236            | 342 065 275 |
| 6,50      | 235      | 350      | 6,5       | 1 | 130243            | 342 065 350 |
| 7,00      | 155      | 225      | 7,0       | 1 | 130250            | 342 070 225 |
| 7,00      | 200      | 290      | 7,0       | 1 | 130267            | 342 070 290 |
| 7,00      | 250      | 370      | 7,0       | 1 | 130274            | 342 070 370 |
| 7,50      | 155      | 225      | 7,5       | 1 | 130281            | 342 075 225 |
| 8,00      | 165      | 240      | 8,0       | 1 | 130298            | 342 080 240 |
| 8,00      | 210      | 305      | 8,0       | 1 | 130304            | 342 080 305 |
| 8,00      | 265      | 390      | 8,0       | 1 | 130311            | 342 080 390 |
| 8,50      | 165      | 240      | 8,5       | 1 | 130328            | 342 085 240 |
| 8,50      | 210      | 305      | 8,5       | 1 | 130335            | 342 085 305 |
| 8,50      | 265      | 390      | 8,5       | 1 | 130342            | 342 085 390 |
| 9,00      | 175      | 250      | 9,0       | 1 | 130359            | 342 090 250 |
| 9,00      | 220      | 320      | 9,0       | 1 | 130366            | 342 090 320 |
| 9,00      | 280      | 410      | 9,0       | 1 | 130373            | 342 090 410 |
| 10,00     | 185      | 265      | 10,0      | 1 | 130380            | 342 100 265 |
| 10,00     | 235      | 340      | 10,0      | 1 | 130397            | 342 100 340 |
| 10,00     | 295      | 430      | 10,0      | 1 | 130403            | 342 100 430 |

# HSS HOLLOW SECTION DRILL BIT / FACADE DRILL BIT | 344



## DRIVE



## EXECUTION

- Profile-ground
- Right-hand cutting, type N
- High-performance high-speed steel
- Cross ground as per DIN 1412
- Works standard

## FOR USE IN



## APPLICATION

- In all rotary and percussion drilling machines
- In machines for mechanical processing
- Only for rotary use

## VERPACKUNG



| D<br>Ø mm | L2<br>mm | L1<br>mm |   | EAN<br>4016707... | <br>12345   |
|-----------|----------|----------|---|-------------------|-------------|
| 5,00      | 30       | 100      | 1 | 230011            | 344 050 100 |
| 5,00      | 30       | 120      | 1 | 230028            | 344 050 120 |
| 5,00      | 30       | 150      | 1 | 230035            | 344 050 150 |
| 5,00      | 30       | 180      | 1 | 230042            | 344 050 180 |
| 5,00      | 30       | 210      | 1 | 230059            | 344 050 210 |
| 5,30      | 30       | 100      | 1 | 230066            | 344 053 100 |
| 5,30      | 30       | 120      | 1 | 230073            | 344 053 120 |
| 5,30      | 30       | 150      | 1 | 230080            | 344 053 150 |
| 5,30      | 30       | 180      | 1 | 230097            | 344 053 180 |
| 5,30      | 30       | 210      | 1 | 230103            | 344 053 210 |
| 5,50      | 30       | 100      | 1 | 230110            | 344 055 100 |
| 5,50      | 30       | 120      | 1 | 230127            | 344 055 120 |
| 5,50      | 30       | 150      | 1 | 230134            | 344 055 150 |
| 5,50      | 30       | 180      | 1 | 230141            | 344 055 180 |
| 5,50      | 30       | 210      | 1 | 230158            | 344 055 210 |
| 5,70      | 30       | 100      | 1 | 230165            | 344 057 100 |
| 5,70      | 30       | 120      | 1 | 230172            | 344 057 120 |
| 5,70      | 30       | 150      | 1 | 230189            | 344 057 150 |
| 5,70      | 30       | 180      | 1 | 230196            | 344 057 180 |
| 5,70      | 30       | 210      | 1 | 230202            | 344 057 210 |
| 5,80      | 30       | 100      | 1 | 230219            | 344 058 100 |
| 5,80      | 30       | 120      | 1 | 230226            | 344 058 120 |
| 5,80      | 30       | 150      | 1 | 230233            | 344 058 150 |
| 5,80      | 30       | 180      | 1 | 230240            | 344 058 180 |
| 5,80      | 30       | 210      | 1 | 230257            | 344 058 210 |

## HSS HOLLOW SECTION DRILL BIT / FACADE DRILL BIT

Ideal for drilling in metal sheet and aluminium constructions, sections and pipes, e.g. for assembly of windows, facade substructures or for roofing. No stucking and lower risk of breakage due to short chip flute (30 mm).

# HSS DIN 345 MORSE TAPER | 345



## DRIVE



## EXECUTION

- Right-hand cutting, type N
- High-performance high-speed steel
- 118° conical section
- Diametral tolerance h8

## FOR USE IN



## APPLICATION

- In machines for mechanical processing
- Only for rotary use

## PACKAGING



- Hanger with round hole

| D<br>Ø mm | L2<br>mm | L1<br>mm | MK |   | EAN<br>4016707... |             |
|-----------|----------|----------|----|---|-------------------|-------------|
| 8,00      | 75       | 156      | 1  | 1 | 080012            | 345 000 080 |
| 10,00     | 87       | 168      | 1  | 1 | 080050            | 345 000 100 |
| 10,50     | 87       | 168      | 1  | 1 | 080067            | 345 000 105 |
| 11,00     | 94       | 175      | 1  | 1 | 080074            | 345 000 110 |
| 12,00     | 101      | 182      | 1  | 1 | 080098            | 345 000 120 |
| 12,50     | 101      | 182      | 1  | 1 | 080104            | 345 000 125 |
| 13,00     | 101      | 182      | 1  | 1 | 080111            | 345 000 130 |
| 13,50     | 108      | 189      | 1  | 1 | 080128            | 345 000 135 |
| 14,00     | 108      | 189      | 1  | 1 | 080135            | 345 000 140 |
| 14,50     | 114      | 212      | 2  | 1 | 080142            | 345 000 145 |
| 15,00     | 114      | 212      | 2  | 1 | 080159            | 345 000 150 |
| 15,50     | 120      | 218      | 2  | 1 | 080166            | 345 000 155 |
| 16,00     | 120      | 218      | 2  | 1 | 080173            | 345 000 160 |
| 16,50     | 125      | 223      | 2  | 1 | 080180            | 345 000 165 |
| 17,00     | 125      | 223      | 2  | 1 | 080197            | 345 000 170 |
| 17,50     | 130      | 228      | 2  | 1 | 080203            | 345 000 175 |
| 18,00     | 130      | 228      | 2  | 1 | 080210            | 345 000 180 |
| 18,50     | 135      | 233      | 2  | 1 | 080227            | 345 000 185 |
| 19,00     | 135      | 233      | 2  | 1 | 080234            | 345 000 190 |
| 19,50     | 140      | 238      | 2  | 1 | 080241            | 345 000 195 |
| 20,00     | 140      | 238      | 2  | 1 | 080258            | 345 000 200 |
| 20,50     | 145      | 243      | 2  | 1 | 080265            | 345 000 205 |
| 21,00     | 145      | 243      | 2  | 1 | 080272            | 345 000 210 |
| 21,50     | 150      | 248      | 2  | 1 | 080289            | 345 000 215 |
| 22,00     | 150      | 248      | 2  | 1 | 080296            | 345 000 220 |
| 22,50     | 155      | 253      | 2  | 1 | 080302            | 345 000 225 |
| 23,00     | 155      | 253      | 2  | 1 | 080319            | 345 000 230 |
| 23,50     | 155      | 276      | 3  | 1 | 080326            | 345 000 235 |
| 24,00     | 155      | 281      | 3  | 1 | 080333            | 345 000 240 |
| 24,50     | 160      | 281      | 3  | 1 | 080340            | 345 000 245 |
| 25,00     | 160      | 281      | 3  | 1 | 080357            | 345 000 250 |
| 25,50     | 165      | 286      | 3  | 1 | 080364            | 345 000 255 |
| 26,00     | 165      | 286      | 3  | 1 | 080371            | 345 000 260 |
| 26,50     | 165      | 286      | 3  | 1 | 080388            | 345 000 265 |
| 27,00     | 170      | 291      | 3  | 1 | 080395            | 345 000 270 |
| 28,00     | 170      | 291      | 3  | 1 | 080418            | 345 000 280 |
| 28,50     | 175      | 296      | 3  | 1 | 080425            | 345 000 285 |
| 29,00     | 175      | 296      | 3  | 1 | 080432            | 345 000 290 |
| 29,50     | 175      | 296      | 3  | 1 | 080449            | 345 000 295 |
| 30,00     | 175      | 296      | 3  | 1 | 080456            | 345 000 300 |
| 30,50     | 180      | 301      | 3  | 1 | 080463            | 345 000 305 |

# HSS DIN 345 MORSE TAPER | 345



## DRIVE



## EXECUTION

- Right-hand cutting, type N
- High-performance high-speed steel
- 118° conical section
- Diametral tolerance h8

## FOR USE IN



## APPLICATION

- In machines for mechanical processing
- Only for rotary use

## PACKAGING

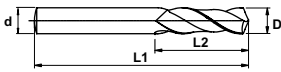


- Hanger with round hole

| D<br>Ø mm | L2<br>mm | L1<br>mm | MK<br>6 |   | EAN<br>4016707... |             |
|-----------|----------|----------|---------|---|-------------------|-------------|
| 31,00     | 180      | 301      | 3       | 1 | 080470            | 345 000 310 |
| 31,50     | 180      | 301      | 3       | 1 | 080487            | 345 000 315 |
| 32,00     | 185      | 334      | 4       | 1 | 080494            | 345 000 320 |
| 32,50     | 185      | 334      | 4       | 1 | 080500            | 345 000 325 |
| 33,00     | 185      | 334      | 4       | 1 | 080517            | 345 000 330 |
| 34,00     | 190      | 339      | 4       | 1 | 080531            | 345 000 340 |
| 35,00     | 190      | 339      | 4       | 1 | 080555            | 345 000 350 |
| 35,50     | 190      | 339      | 4       | 1 | 080562            | 345 000 355 |
| 36,00     | 195      | 344      | 4       | 1 | 080579            | 345 000 360 |
| 36,50     | 195      | 344      | 4       | 1 | 080586            | 345 000 365 |
| 37,00     | 195      | 344      | 4       | 1 | 080593            | 345 000 370 |
| 37,50     | 195      | 344      | 4       | 1 | 080609            | 345 000 375 |
| 38,00     | 200      | 349      | 4       | 1 | 080616            | 345 000 380 |
| 39,00     | 200      | 349      | 4       | 1 | 080630            | 345 000 390 |
| 39,50     | 200      | 349      | 4       | 1 | 080647            | 345 000 395 |
| 40,00     | 200      | 349      | 4       | 1 | 080654            | 345 000 400 |
| 40,50     | 205      | 354      | 4       | 1 | 080661            | 345 000 405 |
| 41,00     | 205      | 354      | 4       | 1 | 080678            | 345 000 410 |
| 42,00     | 205      | 354      | 4       | 1 | 080692            | 345 000 420 |
| 43,00     | 210      | 359      | 4       | 1 | 080715            | 345 000 430 |
| 44,00     | 210      | 359      | 4       | 1 | 080739            | 345 000 440 |
| 45,00     | 210      | 359      | 4       | 1 | 080753            | 345 000 450 |
| 46,00     | 215      | 364      | 4       | 1 | 080777            | 345 000 460 |
| 48,00     | 220      | 369      | 4       | 1 | 080814            | 345 000 480 |
| 50,00     | 220      | 369      | 4       | 1 | 080852            | 345 000 500 |



# HSS DIN 1897 PILOT DRILL BIT, GROUND, SPLIT POINT, EXTRA SHORT | 303



## DRIVE



## EXECUTION

- Profile-ground
- Right-hand cutting, type N
- Extra short, cylindrical
- High-performance high-speed steel
- 135° conical section
- Cross-ground finish to DIN 1412 C (from Ø 3,0 mm)
- Diametral tolerance h8

## FOR USE IN



- In thin sheets, steel and cast steel, alloyed and unalloyed, up to a strength of 800 N/mm<sup>2</sup>, cast iron, malleable iron, ductile iron, short chipping aluminium alloys, bronze, tough brass, gunmetal, pressure castings, diecastings
- KEIL HSS pilot drill bits to DIN 1897 make it possible to drill a very accurate pilot hole without slipping thanks to the special self-centring drill tip.
- It is not necessary to use a centre punch.
- This extra short drill bit is particularly suited for use with hand-held drills.

## APPLICATION

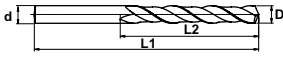
- In all rotary and percussion drilling machines
- In machines for mechanical processing
- Only for rotary use

## PACKAGING



| D<br>Ø mm | L2<br>mm | L1<br>mm | d<br>Ø mm |    | EAN<br>4016707... |             |
|-----------|----------|----------|-----------|----|-------------------|-------------|
| 2,00      | 12       | 38       | 2,0       | 10 | 090011            | 303 000 200 |
| 2,50      | 14       | 43       | 2,5       | 10 | 090028            | 303 000 250 |
| 3,00      | 16       | 46       | 3,0       | 10 | 090035            | 303 000 300 |
| 3,20      | 18       | 49       | 3,2       | 10 | 090059            | 303 000 320 |
| 3,30      | 18       | 49       | 3,3       | 10 | 090066            | 303 000 330 |
| 3,50      | 20       | 52       | 3,5       | 10 | 090080            | 303 000 350 |
| 3,70      | 20       | 52       | 3,7       | 10 | 090103            | 303 000 370 |
| 3,80      | 22       | 55       | 3,8       | 10 | 090110            | 303 000 380 |
| 4,00      | 22       | 55       | 4,0       | 10 | 090134            | 303 000 400 |
| 4,10      | 22       | 55       | 4,1       | 10 | 090141            | 303 000 410 |
| 4,20      | 22       | 55       | 4,2       | 10 | 090158            | 303 000 420 |
| 4,50      | 24       | 58       | 4,5       | 10 | 090189            | 303 000 450 |
| 4,80      | 26       | 62       | 4,8       | 10 | 090219            | 303 000 480 |
| 4,90      | 26       | 62       | 4,9       | 10 | 090226            | 303 000 490 |
| 5,00      | 26       | 62       | 5,0       | 10 | 090233            | 303 000 500 |
| 5,10      | 26       | 62       | 5,1       | 10 | 090240            | 303 000 510 |
| 5,20      | 26       | 62       | 5,2       | 10 | 090257            | 303 000 520 |
| 5,60      | 28       | 66       | 5,6       | 10 | 090295            | 303 000 560 |
| 5,70      | 28       | 66       | 5,7       | 10 | 090301            | 303 000 570 |
| 6,00      | 28       | 66       | 6,0       | 10 | 090332            | 303 000 600 |
| 6,50      | 31       | 70       | 6,5       | 10 | 090349            | 303 000 650 |
| 7,00      | 34       | 74       | 7,0       | 10 | 090356            | 303 000 700 |
| 7,50      | 34       | 74       | 7,5       | 10 | 090363            | 303 000 750 |
| 8,00      | 37       | 79       | 8,0       | 10 | 090370            | 303 000 800 |
| 8,50      | 37       | 79       | 8,5       | 10 | 090387            | 303 000 850 |
| 9,00      | 40       | 84       | 9,0       | 10 | 090394            | 303 000 900 |
| 9,50      | 40       | 84       | 9,5       | 10 | 090400            | 303 000 950 |
| 10,00     | 43       | 89       | 10,0      | 10 | 090417            | 303 001 000 |

# HSS DIN 8037 CARBIDE TIPPED | 310



## DRIVE



| D<br>Ø mm | L2<br>mm | L1<br>mm | d<br>Ø mm |   | EAN<br>4016707... |             |
|-----------|----------|----------|-----------|---|-------------------|-------------|
| 2,00      | 18       | 45       | 2,0       | 1 | 140013            | 310 000 020 |
| 2,50      | 18       | 45       | 2,5       | 1 | 140020            | 310 000 025 |
| 3,00      | 20       | 50       | 3,0       | 1 | 140037            | 310 000 030 |
| 3,50      | 25       | 56       | 3,5       | 1 | 140044            | 310 000 035 |
| 3,80      | 25       | 56       | 3,8       | 1 | 140051            | 310 000 038 |
| 4,00      | 25       | 56       | 4,0       | 1 | 140068            | 310 000 040 |
| 4,20      | 25       | 63       | 4,2       | 1 | 140075            | 310 000 042 |
| 4,50      | 25       | 63       | 4,5       | 1 | 140082            | 310 000 045 |
| 4,80      | 25       | 63       | 4,8       | 1 | 140099            | 310 000 048 |
| 5,00      | 25       | 63       | 5,0       | 1 | 140105            | 310 000 050 |
| 5,20      | 32       | 71       | 5,2       | 1 | 140129            | 310 000 052 |
| 5,50      | 32       | 71       | 5,5       | 1 | 140136            | 310 000 055 |
| 5,80      | 32       | 71       | 5,8       | 1 | 140143            | 310 000 058 |
| 6,00      | 32       | 71       | 6,0       | 1 | 140150            | 310 000 060 |
| 6,50      | 32       | 71       | 6,5       | 1 | 140167            | 310 000 065 |
| 6,80      | 40       | 80       | 6,8       | 1 | 140174            | 310 000 068 |
| 7,00      | 40       | 80       | 7,0       | 1 | 140181            | 310 000 070 |
| 7,50      | 40       | 80       | 7,5       | 1 | 140198            | 310 000 075 |
| 8,00      | 40       | 80       | 8,0       | 1 | 140204            | 310 000 080 |
| 8,50      | 50       | 90       | 8,5       | 1 | 140211            | 310 000 085 |
| 9,00      | 50       | 90       | 9,0       | 1 | 140228            | 310 000 090 |
| 9,50      | 50       | 90       | 9,5       | 1 | 140235            | 310 000 095 |
| 10,00     | 56       | 100      | 10,0      | 1 | 140242            | 310 000 100 |
| 11,00     | 56       | 100      | 11,0      | 1 | 140259            | 310 000 110 |
| 12,00     | 63       | 112      | 12,0      | 1 | 140266            | 310 000 120 |
| 13,00     | 63       | 112      | 13,0      | 1 | 140273            | 310 000 130 |
| 14,00     | 71       | 125      | 14,0      | 1 | 140280            | 310 000 140 |
| 16,00     | 80       | 140      | 16,0      | 1 | 140297            | 310 000 160 |

## EXECUTION

- Carbide tip according to DIN 8010
- Cutting angle 120°
- Profile-ground
- Right-hand cutting
- Short, cylindrical
- Driver on shaft as per DIN 1809
- Drill body of HSS
- Diametral tolerance h8
- With point thinning

## FOR USE IN



- For steel 800-1400 N/mm<sup>2</sup>, cast steel above 700 N/mm<sup>2</sup>, grey cast iron, chill casting, malleable iron, gunmetal, cast steel, tool steel, brass, bronze, manganese steel, cast iron, aluminium, bakelite, hard paper, glass, porcelain and many other special alloys which are difficult to machine

## APPLICATION

- In stationary drilling machines
- Only for rotary use

## PACKAGING



## HSS DIN 8037 CARBIDE TIPPED

- Ground with diamond wheels to the highest accuracy
- The 2-bevel sharpening of the cutting angle form an exact center which makes the drill bit self centering

### Advantages:

- Very precise holes with perfect surface
- Increased drilling length before retraction
- Less wear on the guide edge
- More holes until re-grinding
- High power for drilling with N.C. machines
- No need for drill bushes

# HSS-G SPEEDER DIN 338 RN METAL DRILL BIT | 312



## DRIVE



## EXECUTION

- HSS-G quality
- Fully ground helix design
- Aggressive, self-centring W tip

## FOR USE IN



## APPLICATION

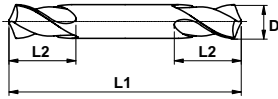
- Ideal for extremely precise work
- Great results in thin steel sheets
- Drills in cast iron, iron, non-ferrous metal, stainless steel and steel
- Ideal for cordless drills or box column drills

## PACKAGING





| D<br>Ø mm | L2<br>mm | L1<br>mm | d<br>Ø mm |   | EAN<br>4016707... |             |
|-----------|----------|----------|-----------|---|-------------------|-------------|
| 3,00      | 33       | 61       | 3         | 1 | 919893            | 312 000 030 |
| 3,20      | 36       | 65       | 3,2       | 1 | 919909            | 312 000 032 |
| 3,30      | 36       | 65       | 3,3       | 1 | 919916            | 312 000 033 |
| 3,50      | 39       | 70       | 3,5       | 1 | 919923            | 312 000 035 |
| 4,00      | 43       | 75       | 4         | 1 | 919930            | 312 000 040 |
| 4,20      | 43       | 75       | 4,2       | 1 | 919947            | 312 000 042 |
| 4,50      | 47       | 80       | 4,5       | 1 | 929954            | 312 000 045 |
| 4,80      | 52       | 86       | 4,8       | 1 | 919961            | 312 000 048 |
| 5,00      | 52       | 86       | 5         | 1 | 919985            | 312 000 050 |
| 5,50      | 57       | 93       | 5,5       | 1 | 919992            | 312 000 055 |
| 6,00      | 57       | 93       | 6         | 1 | 920004            | 312 000 060 |
| 6,50      | 63       | 101      | 6,5       | 1 | 920011            | 312 000 065 |
| 7,00      | 69       | 109      | 7         | 1 | 920028            | 312 000 070 |
| 7,50      | 69       | 109      | 7,5       | 1 | 920035            | 312 000 075 |
| 8,00      | 75       | 117      | 8         | 1 | 920042            | 312 000 080 |
| 8,50      | 75       | 117      | 8,5       | 1 | 920059            | 312 000 085 |
| 9,00      | 81       | 125      | 9         | 1 | 920066            | 312 000 090 |
| 9,50      | 81       | 125      | 9,5       | 1 | 920073            | 312 000 095 |
| 10,00     | 87       | 133      | 10        | 1 | 920080            | 312 000 100 |
| 10,50     | 87       | 133      | 10,5      | 1 | 920097            | 312 000 105 |
| 11,00     | 94       | 142      | 11        | 1 | 920103            | 312 000 110 |
| 11,50     | 94       | 142      | 11,5      | 1 | 920110            | 312 000 115 |
| 12,00     | 101      | 151      | 12        | 1 | 920127            | 312 000 120 |
| 12,50     | 101      | 151      | 12,5      | 1 | 920134            | 312 000 125 |
| 13,00     | 101      | 151      | 13        | 1 | 920141            | 312 000 130 |

# HSS DOUBLE-END DRILL BIT, GROUND, SPLIT POINT | 304



## DRIVE



| D<br>Ø mm | L2<br>mm | L1<br>mm |  | EAN<br>4016707... |  12345 |
|-----------|----------|----------|---|-------------------|---|
| 3,00      | 10       | 46       | 10  | 100017            | 304 000 300   |
| 3,10      | 10       | 46       | 10  | 100024            | 304 000 310   |
| 3,20      | 10       | 49       | 10  | 100031            | 304 000 320   |
| 3,30      | 10       | 49       | 10  | 100048            | 304 000 330   |
| 3,50      | 13       | 52       | 10  | 100062            | 304 000 350   |
| 4,00      | 13       | 55       | 10  | 100086            | 304 000 400   |
| 4,10      | 13       | 55       | 10  | 100093            | 304 000 410   |
| 4,20      | 13       | 55       | 10  | 100109            | 304 000 420   |
| 4,50      | 16       | 58       | 10  | 100123            | 304 000 450   |
| 4,80      | 16       | 58       | 10  | 100130            | 304 000 480   |
| 5,00      | 16       | 62       | 10  | 100147            | 304 000 500   |
| 5,10      | 16       | 62       | 10  | 100154            | 304 000 510   |
| 5,20      | 16       | 62       | 10  | 100161            | 304 000 520   |

## EXECUTION

- Double-ended, right-hand cutting, type N, works standard
- High-performance high-speed steel
- 118° conical section
- Diametral tolerance h8
- Profile-ground
- Cross-ground finish to DIN 1412 C

## FOR USE IN



- For drilling thin sheets for car bodies and metal fabrication, for rivet holes, screw holes etc., in steel, zinc, brass, aluminium, copper sheet and plastic panels.

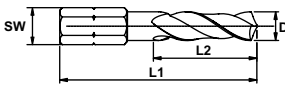
## APPLICATION

- In all rotary and percussion drilling machines
- In machines for mechanical processing
- Only for rotary use

## PACKAGING



# HSS BIT DRILL KEILBIT, GROUND | 315



## DRIVE



## EXECUTION

- Profile-ground
- Right-hand cutting, type N
- High-performance high-speed steel
- Short, cylindrical
- 118° conical section
- Diametral tolerance h8
- 1/4" bit drive DIN 3126 - C 6.3

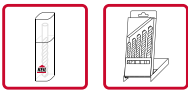
## FOR USE IN



## APPLICATION

- In all rotary and percussion drilling machines
- In machines for mechanical processing
- Only for rotary use
- In all drilling machines, cordless screw drivers and bit holders with 1/4" drill shank
- SDS-plus locating shank for Bits and KEILBIT [37]
- Quick bit holder for bits and KEILBIT [72]

## PACKAGING



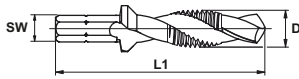
[154]

| D<br>Ø mm | L2<br>mm | L1<br>mm | SW<br>mm |   | EAN<br>4016707... |             |
|-----------|----------|----------|----------|---|-------------------|-------------|
| 2,00      | 30       | 50       | 6,35     | 1 | 105074            | 315 000 200 |
| 2,50      | 30       | 50       | 6,35     | 1 | 105081            | 315 000 250 |
| 3,00      | 30       | 50       | 6,35     | 1 | 105005            | 315 000 300 |
| 3,30      | 30       | 50       | 6,35     | 1 | 105098            | 315 000 330 |
| 3,50      | 30       | 50       | 6,35     | 1 | 105104            | 315 000 350 |
| 4,00      | 30       | 50       | 6,35     | 1 | 105012            | 315 000 400 |
| 4,20      | 30       | 50       | 6,35     | 1 | 105111            | 315 000 420 |
| 4,50      | 30       | 50       | 6,35     | 1 | 105128            | 315 000 450 |
| 5,00      | 30       | 50       | 6,35     | 1 | 105029            | 315 000 500 |
| 5,50      | 30       | 50       | 6,35     | 1 | 105135            | 315 000 550 |
| 6,00      | 30       | 50       | 6,35     | 1 | 105036            | 315 000 600 |
| 6,50      | 30       | 50       | 6,35     | 1 | 105142            | 315 000 650 |
| 6,80      | 35       | 55       | 6,35     | 1 | 105159            | 315 000 680 |
| 7,00      | 35       | 55       | 6,35     | 1 | 105166            | 315 000 700 |
| 7,50      | 35       | 55       | 6,35     | 1 | 105173            | 315 000 750 |
| 8,00      | 35       | 55       | 6,35     | 1 | 105043            | 315 000 800 |
| 8,50      | 35       | 55       | 6,35     | 1 | 105180            | 315 000 850 |
| 9,00      | 35       | 55       | 6,35     | 1 | 105197            | 315 000 900 |
| 9,50      | 35       | 55       | 6,35     | 1 | 105203            | 315 000 950 |
| 10,00     | 35       | 55       | 6,35     | 1 | 105050            | 315 001 000 |
| 10,20     | 35       | 55       | 6,35     | 1 | 105210            | 315 001 020 |

## HSS BIT DRILL KEILBIT, GROUND

- Modern cordless screw drivers are extremely efficient and can also be used for drilling without any problems. The KEILBIT was particularly developed for quick direct application in these machines.
- Machine changing is not necessary anymore.
- For drilling other materials we offer various types of KEILBIT.

# HSS COMBINATION TOOL KEILBIT | 317



## DRIVE



| D    | L1 | SW   | M  |   | EAN        |             |
|------|----|------|----|---|------------|-------------|
| Ø mm | mm | mm   |    |   | 4016707... | 12345       |
| 2,50 | 36 | 6,35 | 3  | 1 | 150319     | 317 000 030 |
| 3,30 | 39 | 6,35 | 4  | 1 | 150326     | 317 000 040 |
| 4,20 | 41 | 6,35 | 5  | 1 | 150333     | 317 000 050 |
| 5,00 | 44 | 6,35 | 6  | 1 | 150340     | 317 000 060 |
| 6,80 | 50 | 6,35 | 8  | 1 | 150357     | 317 000 080 |
| 8,50 | 59 | 6,35 | 10 | 1 | 150364     | 317 000 100 |

## EXECUTION

- Profile-ground with cross-ground finish
- High-performance high-speed steel
- 1/4" bit drive DIN 3126 - C 6.3

## FOR USE IN



## APPLICATION

- Up to max. 600 N/mm<sup>2</sup>
- In all rotary and percussion drilling machines
- In machines for mechanical processing
- Only for rotary use
- In all drilling machines, cordless screw drivers and bit holders with 1/4" drill shank
- SDS-plus locating shank for Bits and KEILBIT [37]
- Quick bit holder for bits and KEILBIT [72]

## HSS COMBINATION TOOL KEILBIT

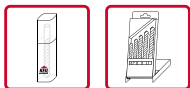
### In one step:

- Drilling
- Tapping
- Deburring

### Innovations:

- Optimal centring
- Low feedpower
- Better swarf removal
- Easier cutting
- Low torque
- Low cant-risk
- Better return guiding
- High bending and torsional elasticity
- Reduced risk of breakage
- Forgiving of incorrect use

## PACKAGING

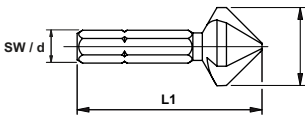


[154]

### Comments

- Material not thicker than 1 x D  
(e.g.: M 6 = 6 mm material thickness)

# HSS COUNTERSINK 90° KEILBIT | 329



## DRIVE



## EXECUTION

- Cutting head according to DIN 335 C
- 1/4" bit drive DIN 3126 - C 6.3
- 3 cutting edges
- Radial and axial relief

## FOR USE IN

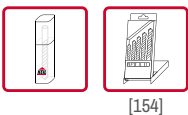


- Deburring and drilling of uniformly circular counter sink holes with a smooth surface
- Suitable for almost all materials
- The best results are obtained at low speeds and a high feedrate

## APPLICATION

- In all rotary and percussion drilling machines
- In machines for mechanical processing
- Only for rotary use
- In all drilling machines, cordless screw drivers and bit holders with 1/4" drill shank
- SDS-plus locating shank for Bits and KEILBIT [37]
- Quick bit holder for bits and KEILBIT [72]

## PACKAGING



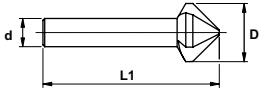
[154]

### Comments

- Individual packaging with hanger








| D<br>Ø mm | L1<br>mm | SW<br>mm | d<br>Ø mm | M  |   | EAN<br>4016707... |             |
|-----------|----------|----------|-----------|----|---|-------------------|-------------|
| 6,30      | 31       | 6,35     | 6,3       | 3  | 1 | 150388            | 329 000 063 |
| 8,30      | 31       | 6,35     | 6,3       | 4  | 1 | 150395            | 329 000 083 |
| 10,40     | 34       | 6,35     | 6,3       | 5  | 1 | 150401            | 329 000 104 |
| 12,40     | 35       | 6,35     | 6,3       | 6  | 1 | 150418            | 329 000 124 |
| 16,50     | 40       | 6,35     | 6,3       | 8  | 1 | 150425            | 329 000 165 |
| 20,50     | 41       | 6,35     | 6,3       | 10 | 1 | 150432            | 329 000 205 |

# HSS COUNTERSINK 90° DIN 335 C | 327



## DRIVE



|  D<br>Ø mm |  L1<br>mm |  d<br>Ø mm |  M |  |  EAN<br>4016707... |  12345 |
|---|--|---|--|---|---|---|
| 6,30  | 45   | 5,0   | 3  | 1   | 150142  | 327 000 063   |
| 8,30  | 50   | 6,0   | 4  | 1   | 150159  | 327 000 083   |
| 10,40   | 50   | 6,0   | 5  | 1   | 150166  | 327 000 104   |
| 12,40   | 56   | 8,0   | 6  | 1   | 150173  | 327 000 124   |
| 16,50   | 60   | 10,0  | 8  | 1   | 150180  | 327 000 165   |
| 20,50   | 63   | 10,0  | 10   | 1   | 150197  | 327 000 205   |
| 25,00   | 67   | 10,0  | 12   | 1   | 150203  | 327 000 250   |

## EXECUTION

- DIN 335 C, with cylindrical shank
- 3 cutting edges
- CBN profile ground
- Radial and axial relief
- Right-hand cutting
- Diametral tolerance h8

## FOR USE IN

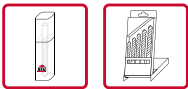


- Deburring and drilling of uniformly circular counter sink holes with a smooth surface
- Suitable for almost all materials
- The best results are obtained at low speeds and a high feedrate

## APPLICATION

- In all rotary and percussion drilling machines
- In machines for mechanical processing
- Only for rotary use

## PACKAGING



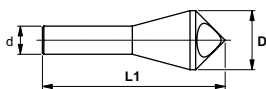
[154]

### Comments

- Up to Ø 20,5 mm individual packaging with round hole
- From Ø 25,0 mm individual packaging with Euro hole



# HSS DEBURRING COUNTERSINK 90° WITH CROSS HOLE | 328



## DRIVE



| D<br>Ø mm   | L1<br>mm | d<br>Ø mm |   | EAN<br>4016707... |             |
|-------------|----------|-----------|---|-------------------|-------------|
| 2,0 - 5,0   | 45       | 6,0       | 1 | 150227            | 328 020 050 |
| 5,0 - 10,0  | 48       | 8,0       | 1 | 150234            | 328 050 100 |
| 10,0 - 15,0 | 65       | 10,0      | 1 | 150241            | 328 100 150 |
| 15,0 - 20,0 | 84       | 12,0      | 1 | 150258            | 328 150 200 |
| 20,0 - 25,0 | 102      | 12,0      | 1 | 150265            | 328 200 250 |

## EXECUTION

- Countersinking angle 90°, with cylindrical shank to works standard
- High-performance high-speed steel

## FOR USE IN

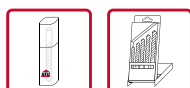


- Easy deburring of holes without vibration
- One step countersinking and deburring
- Suitable for soft long-chipping materials

## APPLICATION

- In all rotary and percussion drilling machines
- In machines for mechanical processing
- Only for rotary use

## PACKAGING

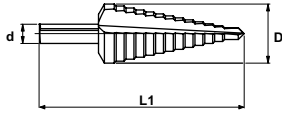


[154]

### Comments

- Up to Ø 10,0 - 15,0 mm individual packaging with Euro hole
- From Ø 15,0 - 20 mm individual packaging with Euro hole

# HSS TUBE & SHEET DRILL | 326



## EXECUTION

- CBN profile ground
- Right-hand cutting
- High-performance high-speed steel
- Laser marking
- Two cutters
- Conical drilling
- Centering tip

| No | D<br>ø mm   | L1<br>mm | d<br>ø mm |   | EAN<br>4016707... | 12345       |
|----|-------------|----------|-----------|---|-------------------|-------------|
| 1  | 3,0 - 14,0  | 58       | 6,0       | 1 | 150067            | 326 030 140 |
| 2  | 4,0 - 20,0  | 71       | 8,0       | 1 | 150074            | 326 060 200 |
| 3  | 16,0 - 30,5 | 76       | 9,0       | 1 | 150081            | 326 160 305 |
| 4  | 24,0 - 40,0 | 89       | 10,0      | 1 | 150098            | 326 240 400 |
| 5  | 36,0 - 50,0 | 97       | 12,0      | 1 | 150104            | 326 360 500 |
| 6  | 40,0 - 61,0 | 103      | 12,0      | 1 | 150111            | 326 400 610 |
| L  | 4,0 - 31,0  | 103      | 9,0       | 1 | 150128            | 326 040 310 |

## FOR USE IN

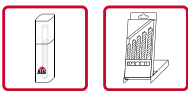


- For drilling large holes in thin material and reboring existing holes
- Steel sheet and stainless steel from 0.1 to 2 mm thick
- Non-ferrous metals from 0.1 to 5 mm thick
- Plastic up to 10 mm thick

## APPLICATION

- In all rotary and percussion drilling machines
- In machines for mechanical processing
- Only for rotary use

## PACKAGING

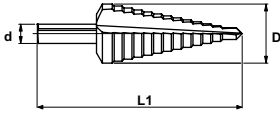


[154]

### Comments

- Up to No. 2 individual packaging with round hole
- From No. 3 individual packaging with Euro hole

# HSS STEP DRILLS | 325



## EXECUTION

- CBN profile ground
- Right-hand cutting
- High-performance high-speed steel
- Laser marking
- Two cutters

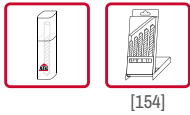
## FOR USE IN



## APPLICATION

- For drilling large holes in thin material and reboring existing holes
- Steel sheet and stainless steel from 0.1 to 2 mm thick
- Non-ferrous metals from 0.1 to 5 mm thick
- Plastic up to 10 mm thick

## PACKAGING



[154]

### Bemerkung

- Up to No. 2 individual packaging with round hole
- From No. 3 individual packaging with Euro hole

| No    | D<br>ø mm  | L1<br>mm | d<br>ø mm | 1    | EAN<br>4016707... | 12345  |             |
|-------|------------|----------|-----------|------|-------------------|--------|-------------|
| 1     | 4,0 - 12,0 | 1        | 80        | 6,0  | 1                 | 150012 | 325 040 120 |
| 2     | 4,0 - 20,0 | 2        | 67        | 8,0  | 1                 | 150029 | 325 040 200 |
| 3     | 6,0 - 30,0 | 2        | 98        | 10,0 | 1                 | 150036 | 325 060 300 |
| 4     | 9,0 - 36,0 | 3        | 80        | 12,0 | 1                 | 150043 | 325 090 360 |
| EC 10 | 7,0 - 32,5 |          | 96        | 6,0  | 1                 | 150005 | 325 070 325 |

## HSS STEP DRILL

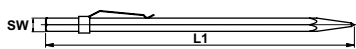
- Straight flute
- Cylindrical drilling

### For electricians:

- Spiral shaped flute for electricians for the use of cable screw connections according to latest European standard DIN EN 60423
- Applicable for thread and core holes into service cabinets with max. 5,5 mm wall depth

| HSS step drills for electricians            |          |          |          |          |          |      |
|---|----------|----------|----------|----------|----------|------|
| Drilling region for cable screw connections |          |          |          |          |          |      |
| M   | d        | d        | d        | d        | d        |      |
|   | ø mm     | ø mm     | ø mm     | ø mm     | ø mm     |      |
| Cable connection                            | M 12x1,5 | M 16x1,5 | M 20x1,5 | M 25x1,5 | M 32x1,5 |      |
| Thread core hole                            | ø 7      | 10,5     | 14,5     | 18,5     | 23,5     | 30,5 |
| Through-hole                                | ø 7      | 12,5     | 16,5     | 20,5     | 25,5     | 32,5 |

# SCRIBER | 140



## EXECUTION

- With carbide tip
- Chromated surface

|   |   |   |   |   |
|---|---|---|---|---|
|  |  |  |  |  |
| 140   | 6,00  | 10  | 010101  | 140 140 060   |

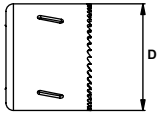
## FOR USE IN



## PACKAGING



# HOLE SAW BI-METAL | 320



## EXECUTION

- Variable tooth splitting for less vibration
- Less heat production
- Long life
- High precision of concentric running
- Smoother cutting
- Cutting depth up to max. 38 mm
- Up to Ø 30 mm R 1/4" thread
- Up to Ø 32 mm R 3/8" thread
- R = pipe thread

## FOR USE IN



- For iron, steel, nonferrous heavy metal, light alloy, cast iron, plastics, wood, plywood, plaster board

## APPLICATION

- In all rotary and percussion drilling machines
- In machines for mechanical processing
- Pillar drilling machines or lathes
- Only for rotary use

## PACKAGING

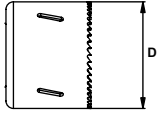


### Comments

- 1 = Recommended speed - Wrought Steel
- 2 = Recommended speed - Cast iron
- 3 = Recommended speed - Stainless Steel
- 4 = Recommended speed - Copper Brass
- 5 = Recommended speed - Aluminium

| Ø mm | D       | 1<br>Ø min | 2<br>Ø min | 3<br>Ø min | 4<br>Ø min | 5<br>Ø min | EAN      | 112345      |
|------|---------|------------|------------|------------|------------|------------|----------|-------------|
| 14,0 | 9/16    | 580        | 400        | 300        | 790        | 900        | 1 110016 | 320 000 014 |
| 16,0 | 5/8     | 550        | 365        | 275        | 730        | 825        | 1 110023 | 320 000 016 |
| 17,0 | 11/16   | 500        | 330        | 250        | 665        | 750        | 1 110030 | 320 000 017 |
| 19,0 | 3/4     | 460        | 300        | 230        | 600        | 690        | 1 110047 | 320 000 019 |
| 20,0 | 25/32   | 440        | 290        | 220        | 580        | 660        | 1 110054 | 320 000 020 |
| 21,0 | 13/16   | 425        | 280        | 210        | 560        | 635        | 1 110061 | 320 000 021 |
| 22,0 | 7/8     | 390        | 260        | 195        | 520        | 585        | 1 110078 | 320 000 022 |
| 24,0 | 15/16   | 370        | 245        | 185        | 495        | 555        | 1 110085 | 320 000 024 |
| 25,0 | 1       | 350        | 235        | 175        | 470        | 525        | 1 110092 | 320 000 025 |
| 27,0 | 1 1/16  | 325        | 215        | 160        | 435        | 480        | 1 110108 | 320 000 027 |
| 29,0 | 1 1/8   | 300        | 200        | 150        | 400        | 450        | 1 110115 | 320 000 029 |
| 30,0 | 1 3/16  | 285        | 190        | 145        | 380        | 425        | 1 110122 | 320 000 030 |
| 32,0 | 1 1/4   | 275        | 180        | 140        | 380        | 410        | 1 110139 | 320 000 032 |
| 33,0 | 1 5/16  | 260        | 175        | 135        | 345        | 390        | 1 110146 | 320 000 033 |
| 35,0 | 1 3/8   | 250        | 165        | 125        | 330        | 375        | 1 110153 | 320 000 035 |
| 37,0 | 1 7/16  | 240        | 160        | 120        | 315        | 360        | 1 110160 | 320 000 037 |
| 38,0 | 1 1/2   | 230        | 150        | 115        | 300        | 345        | 1 110177 | 320 000 038 |
| 40,0 | 1 9/16  | 220        | 145        | 110        | 290        | 330        | 1 110184 | 320 000 040 |
| 41,0 | 1 5/8   | 210        | 140        | 105        | 280        | 315        | 1 110191 | 320 000 041 |
| 43,0 | 1 11/16 | 205        | 135        | 100        | 270        | 305        | 1 110207 | 320 000 043 |
| 44,0 | 1 3/4   | 195        | 130        | 95         | 260        | 295        | 1 110214 | 320 000 044 |
| 45,0 | 1 25/32 | 190        | 125        | 95         | 250        | 285        | 1 110719 | 320 000 045 |
| 46,0 | 1 13/16 | 190        | 125        | 95         | 250        | 285        | 1 110221 | 320 000 046 |
| 48,0 | 1 7/8   | 180        | 120        | 90         | 240        | 270        | 1 110238 | 320 000 048 |
| 50,0 | 1 31/32 | 170        | 115        | 85         | 230        | 255        | 1 110726 | 320 000 050 |
| 51,0 | 2       | 170        | 115        | 85         | 230        | 255        | 1 110245 | 320 000 051 |
| 52,0 | 2 1/16  | 165        | 110        | 80         | 220        | 245        | 1 110252 | 320 000 052 |
| 54,0 | 2 1/8   | 160        | 105        | 80         | 210        | 240        | 1 110269 | 320 000 054 |
| 55,0 | 2 3/16  | 150        | 100        | 75         | 200        | 225        | 1 110733 | 320 000 055 |
| 57,0 | 2 1/4   | 150        | 100        | 75         | 200        | 225        | 1 110276 | 320 000 057 |
| 59,0 | 2 5/16  | 145        | 100        | 75         | 195        | 225        | 1 110283 | 320 000 059 |
| 60,0 | 2 3/8   | 140        | 95         | 70         | 190        | 220        | 1 110290 | 320 000 060 |
| 64,0 | 2 1/2   | 135        | 90         | 65         | 180        | 205        | 1 110306 | 320 000 064 |
| 65,0 | 2 9/16  | 130        | 85         | 65         | 175        | 200        | 1 110313 | 320 000 065 |
| 67,0 | 2 5/8   | 130        | 85         | 65         | 170        | 195        | 1 110320 | 320 000 067 |
| 68,0 | 2 11/16 | 125        | 80         | 60         | 160        | 185        | 1 110337 | 320 000 068 |
| 70,0 | 2 3/4   | 125        | 80         | 60         | 160        | 185        | 1 110344 | 320 000 070 |
| 73,0 | 2 7/8   | 120        | 80         | 60         | 160        | 180        | 1 110351 | 320 000 073 |
| 75,0 | 2 31/32 | 115        | 75         | 55         | 150        | 170        | 1 110740 | 320 000 075 |
| 76,0 | 3       | 115        | 75         | 55         | 150        | 170        | 1 110368 | 320 000 076 |
| 79,0 | 3 1/8   | 110        | 70         | 55         | 140        | 165        | 1 110375 | 320 000 079 |
| 83,0 | 3 1/4   | 105        | 70         | 50         | 140        | 155        | 1 110382 | 320 000 083 |
| 86,0 | 3 3/8   | 100        | 65         | 50         | 130        | 150        | 1 110399 | 320 000 086 |
| 89,0 | 3 1/2   | 95         | 65         | 50         | 130        | 145        | 1 110405 | 320 000 089 |
| 92,0 | 3 5/8   | 95         | 60         | 50         | 120        | 140        | 1 110412 | 320 000 092 |
| 95,0 | 3 3/4   | 90         | 60         | 50         | 120        | 133        | 1 110429 | 320 000 095 |

# HOLE SAW BI-METAL | 320



## EXECUTION

- Variable tooth splitting for less vibration
- Less heat production
- Long life
- High precision of concentric running
- Smoother cutting
- Cutting depth up to max. 38 mm
- Up to Ø 30 mm R 1/4" thread
- Up to Ø 32 mm R 3/8" thread
- R = pipe thread

## FOR USE IN



- For iron, steel, nonferrous heavy metal, light alloy, cast iron, plastics, wood, plywood, plaster board

## APPLICATION

- In all rotary and percussion drilling machines
- In machines for mechanical processing
- Pillar drilling machines or lathes
- Only for rotary use

## PACKAGING



### Comments

- 1 = Recommended speed - Wrought Steel
- 2 = Recommended speed - Cast iron
- 3 = Recommended speed - Stainless Steel
- 4 = Recommended speed - Copper Brass
- 5 = Recommended speed - Aluminium

| Ø mm  | D     | 1  | 2  | 3  | 4   | 5   | Icon | EAN    | 12345       |
|-------|-------|----|----|----|-----|-----|------|--------|-------------|
| 98,0  | 3 7/8 | 90 | 60 | 45 | 120 | 135 | 1    | 110436 | 320 000 098 |
| 102,0 | 4     | 85 | 55 | 40 | 110 | 130 | 1    | 110443 | 320 000 102 |
| 105,0 | 4 1/8 | 80 | 55 | 40 | 110 | 120 | 1    | 110450 | 320 000 105 |
| 108,0 | 4 1/4 | 80 | 55 | 40 | 110 | 120 | 1    | 110467 | 320 000 108 |
| 111,0 | 4 3/8 | 80 | 50 | 40 | 100 | 120 | 1    | 110474 | 320 000 111 |
| 114,0 | 4 1/2 | 75 | 50 | 35 | 100 | 105 | 1    | 110481 | 320 000 114 |
| 121,0 | 4 3/4 | 75 | 50 | 35 | 95  | 95  | 1    | 110498 | 320 000 121 |
| 127,0 | 5     | 65 | 45 | 30 | 90  | 90  | 1    | 110504 | 320 000 127 |
| 140,0 | 5 1/2 | 60 | 40 | 25 | 85  | 85  | 1    | 110511 | 320 000 140 |
| 146,0 | 5 3/4 | 55 | 35 | 25 | 75  | 75  | 1    | 110528 | 320 000 146 |
| 152,0 | 6     | 55 | 35 | 25 | 75  | 75  | 1    | 110535 | 320 000 152 |

## LOCATING SHANK FOR BI-METAL HOLE SAW



| No         | SW | d     | Icon      | Icon | EAN    | 12345       |
|------------|----|-------|-----------|------|--------|-------------|
| 1          |    | 6,3   | LS 14-30  | 1    | 110580 | 320 300 006 |
| 2          |    | 9,50  | LS 14-30  | 1    | 110597 | 320 300 095 |
| 3          |    | 11,00 | LS 14-30  | 1    | 110603 | 320 300 011 |
| SDS-plus 4 |    |       | LS 14-30  | 1    | 110696 | 320 255 001 |
| 5          |    | 9,50  | LS 32-152 | 1    | 110627 | 320 400 095 |
| 6          |    | 11,00 | LS 32-152 | 1    | 110610 | 320 301 011 |
| 7          |    | 11,00 | LS 32-152 | 1    | 110634 | 320 400 011 |
| 8          |    | 16,00 | LS 32-152 | 1    | 110641 | 320 400 016 |
| SDS-plus 9 |    |       | LS 32-152 | 1    | 110702 | 320 255 002 |

## CENTRE DRILL BIT FOR BI-METAL HOLE SAW



| L1  | d   | Icon                | Icon | EAN    | 12345       |
|-----|-----|---------------------|------|--------|-------------|
| 75  | 6,3 | Chuck 2•3•4•5•6•7•9 | 1    | 110658 | 320 100 080 |
| 105 | 6,3 | Chuck 1•8           | 1    | 110665 | 320 100 115 |

## LOCATING SHANK FOR BI-METAL HOLE SAW



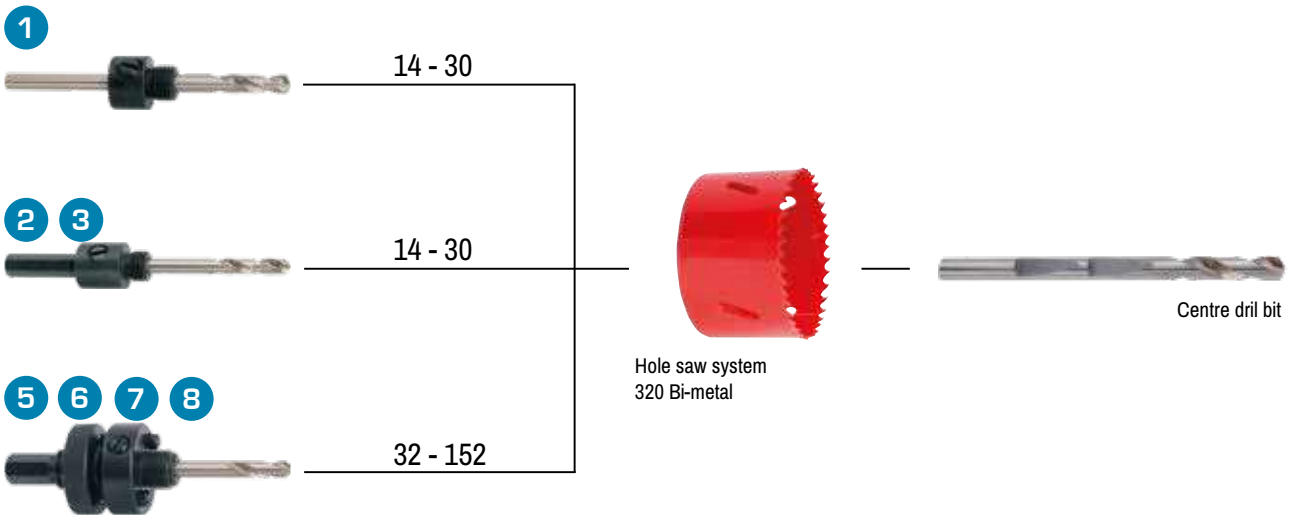
| L1  | SW    | Icon        | Icon | EAN    | 12345       |
|-----|-------|-------------|------|--------|-------------|
| 300 | 11,00 | Chuck 3•6•7 | 1    | 110689 | 320 500 100 |

# HSS HOLE SAW BI-METAL



## PRODUCT INFORMATION:

- Designed for long lifetime and high cutting performance
- Always use the recommended operating speed, speed to be increased slowly till a slight cutting is noticed; to avoid overheating, abrasive or breaking out of cutting teeth.
- When drilling in metals (except cast iron) always use sufficient cutting-oil
- Remove regularly drilling chips from the cutting spiral
- Do not use high working pressure and assure that the saw does really cut.
- The centre drill must exceed the saw teeth by approximate 3 - 4 mm but no more than the thickness of the workpiece
- Make sure that the hole saw always is in vertical position to the work piece surface



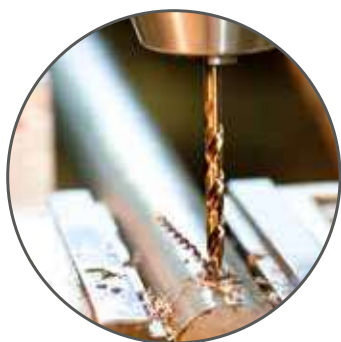
### Item numbers for locating shanks of various hole saw manufacturers

| KEIL        | American SAW | MILFORD | Milwaukee  | RULE | SANDVIK    | STARRETT | MORSE  |
|-------------|--------------|---------|------------|------|------------|----------|--------|
| 320 300 006 | 4 L          | 45136   | 49-56 6950 | 5514 | 3834-0630  | A4       | M 24 K |
| 320 300 095 | 5 L          | 45319   |            |      |            | A1       | M 34   |
| 320 300 011 | 1 L          | 45313   | 49-56 7000 | 5518 | 3834-1130  | A11      | M 44   |
| 320 400 016 | 2 L          | 45315   | 49-56 7130 | 5573 | 3834-16152 | A3       | M 55 P |
| 320 400 011 | 2 L          | 45314   |            | 5545 | 3834-11152 |          | M 45 P |

# HSS HOLE SAW BI-METAL

## WORKING CONDITIONS:

- Incorrect technical working conditions frequently lead to breakage of the drill bit or to premature wear of the drilling tool.
- Our speed table gives recommendations on cutting speeds and feed rates.
- Depending on the actual working conditions it may, however, be necessary to determine individual cutting values by means of tests.
- The cutting values should be reduced by 20 to 40 per cent for horizontal holes and for drilling depths which are five times larger than the hole diameter ( $5 \times \varnothing$ ).





## DO NOT OVERHEAT DRILL BIT:

- High-alloy and heat-resistant materials can only be properly cut with the use of coolants, with special cutting oils forming a tightly adhering lubricating film in the cutting zone.
- A cooling emulsion is usually sufficient for normal steel or materials with a low tendency to adhesion. Materials forming short chips, such as brass and cast iron, but also plastics, should be machined without coolant.
- The drill must be briefly lifted off from time to time so that the coolant can penetrate properly into the hole.
- In particular, this must be observed for holes which are three times deeper than the diameter ( $3 \times \varnothing$ ). This also ensures that the flutes can clear out the chips.

## CORRECT RE-GRINDING:

Guidelines for the drilling of pilot holes for threaded holes, depending on thread quality required for thread drill bit  $\varnothing$ .

| M   | D   |
|---|---|
|  |  |
|   | $\varnothing$ mm  |
| 3   | 2,4 - 2,5   |
| 4   | 3,2 - 3,3   |
| 5   | 4,0 - 4,2   |
| 6   | 4,8 - 5,0   |
| 8   | 6,4 - 6,8   |
| 10  | 7,9 - 8,5   |
| 12  | 9,6 - 10,2  |

- The correct tip grind of a drill bit is the basic condition for economic drilling. Thus timely re-grinding and, in particular, grinding to the correct shape of the cutting edges is essential for uninterrupted production.
- KEIL recommends re-grinding with one of the tip grinding machines for twist drill bits available in the market, as only these machines ensure the setup for optimum re-grinding of the main cutters, cutter corners, land and chisel edges.
- Manual regrinding is not recommended as this is too imprecise, leads to early nonrecoverable wear of the drill bits and does not allow accurate holes to be drilled.



# TECHNICAL INFORMATION HSS DRILL BITS

| INCH FRACTION | INCH DECIMAL | MM METRIC |
|---------------|--------------|-----------|
| 1/64"         | 0,015625"    | 0,397     |
| 1/32"         | 0,03125"     | 0,794     |
| 3/64"         | 0,046875"    | 1,191     |
| 1/16"         | 0,0625"      | 1,588     |
| 5/64"         | 0,078125"    | 1,984     |
| 3/32"         | 0,09375"     | 2,381     |
| 7/64"         | 0,109375"    | 2,778     |
| 1/8"          | 0,125"       | 3,175     |
| 9/64"         | 0,140625"    | 3,572     |
| 5/32"         | 0,15625"     | 3,969     |
| 11/64"        | 0,171875"    | 4,366     |
| 3/16"         | 0,1875"      | 4,763     |
| 13/64"        | 0,203125"    | 5,159     |
| 7/32"         | 0,21875"     | 5,556     |
| 15/64"        | 0,234375"    | 5,953     |
| 1/4"          | 0,25"        | 6,350     |
| 17/64"        | 0,265625"    | 6,747     |
| 9/32"         | 0,28125"     | 7,144     |
| 19/64"        | 0,296875"    | 7,541     |
| 5/16"         | 0,3125"      | 7,938     |
| 21/64"        | 0,328125"    | 8,334     |
| 11/32"        | 0,34375"     | 8,731     |
| 23/64"        | 0,359375"    | 9,128     |
| 3/8"          | 0,375"       | 9,525     |
| 25/64"        | 0,390625"    | 9,922     |
| 13/32"        | 0,40625"     | 10,319    |
| 27/64"        | 0,421875"    | 10,716    |
| 7/16"         | 0,4375"      | 11,113    |
| 29/64"        | 0,453125"    | 11,509    |
| 15/32"        | 0,46875"     | 11,906    |
| 31/64"        | 0,484375"    | 12,303    |
| 1/2"          | 0,5"         | 12,700    |
| 33/64"        | 0,515625"    | 13,097    |
| 17/32"        | 0,53125"     | 13,494    |
| 35/64"        | 0,546875"    | 13,891    |
| 9/16"         | 0,5625"      | 14,288    |
| 37/64"        | 0,578125"    | 14,684    |
| 19/32"        | 0,59375"     | 15,081    |
| 39/64"        | 0,609375"    | 15,478    |
| 5/8"          | 0,625"       | 15,875    |
| 41/64"        | 0,640625"    | 16,272    |
| 21/32"        | 0,65625"     | 16,669    |
| 43/64"        | 0,671875"    | 17,066    |
| 11/16"        | 0,6875"      | 17,463    |
| 45/64"        | 0,703125"    | 17,859    |
| 23/32"        | 0,71875"     | 18,256    |
| 47/64"        | 0,734375"    | 18,653    |
| 3/4"          | 0,75"        | 19,050    |

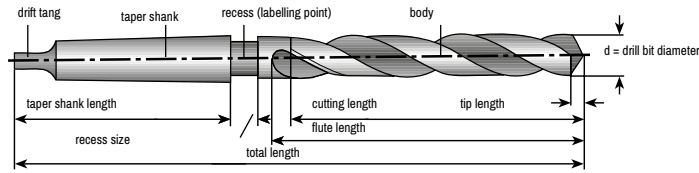
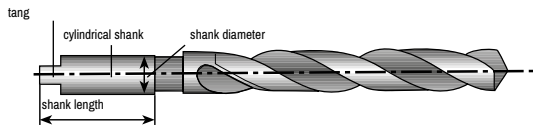
| INCH FRACTION | INCH DECIMAL | MM METRIC |
|---------------|--------------|-----------|
| 49/64"        | 0,765625"    | 19,447    |
| 25/32"        | 0,78125"     | 19,844    |
| 51/64"        | 0,796875"    | 20,241    |
| 13/16"        | 0,8125"      | 20,638    |
| 53/64"        | 0,828125"    | 21,034    |
| 27/32"        | 0,84375"     | 21,431    |
| 55/64"        | 0,859375"    | 21,828    |
| 7/8"          | 0,875"       | 22,225    |
| 57/64"        | 0,890625"    | 22,622    |
| 29/32"        | 0,90625"     | 23,019    |
| 59/64"        | 0,921875"    | 23,416    |
| 15/16"        | 0,9375"      | 23,813    |
| 61/64"        | 0,953125"    | 24,209    |
| 31/32"        | 0,96875"     | 24,606    |
| 63/64"        | 0,984375"    | 25,003    |
| 1"            | 1"           | 25,400    |
| 1 1/64"       | 1,015625"    | 25,797    |
| 1 1/32"       | 1,03125"     | 26,194    |
| 1 3/64"       | 1,046875"    | 26,591    |
| 1 1/16"       | 1,0625"      | 26,988    |
| 1 5/64"       | 1,078125"    | 27,384    |
| 1 3/32"       | 1,09375"     | 27,781    |
| 1 7/64"       | 1,109375"    | 28,178    |
| 1 1/8"        | 1,125"       | 28,575    |
| 1 9/64"       | 1,140625"    | 28,972    |
| 1 5/32"       | 1,15625"     | 29,369    |
| 1 11/64"      | 1,171875"    | 29,766    |
| 1 3/16"       | 1,1875"      | 30,163    |
| 1 13/64"      | 1,203125"    | 30,559    |
| 1 7/32"       | 1,21875"     | 30,956    |
| 1 15/64"      | 1,234375"    | 31,353    |
| 1 1/4"        | 1,25"        | 31,750    |
| 1 17/64"      | 1,265625"    | 32,147    |
| 1 9/32"       | 1,28125"     | 32,544    |
| 1 19/64"      | 1,296875"    | 32,941    |
| 1 5/16"       | 1,3125"      | 33,338    |
| 1 21/64"      | 1,328125"    | 33,734    |
| 1 11/32"      | 1,34375"     | 34,131    |
| 1 23/64"      | 1,359375"    | 34,528    |
| 1 3/8"        | 1,375"       | 34,925    |
| 1 25/64"      | 1,390625"    | 35,322    |
| 1 12/32"      | 1,40625"     | 35,719    |
| 1 27/64"      | 1,421875"    | 36,116    |
| 1 7/16"       | 1,4375"      | 36,513    |
| 1 29/64"      | 1,453125"    | 36,909    |
| 1 15/32"      | 1,46875"     | 37,306    |
| 1 31/64"      | 1,484375"    | 37,703    |
| 1 1/2"        | 1,5"         | 38,100    |

| INCH FRACTION | INCH DECIMAL | MM METRIC |
|---------------|--------------|-----------|
| 1 33/64"      | 1,515625"    | 38,497    |
| 1 17/32"      | 1,53125"     | 38,894    |
| 1 35/64"      | 1,546875"    | 39,291    |
| 1 9/16"       | 1,5625"      | 39,688    |
| 1 37/64"      | 1,578125"    | 40,084    |
| 1 19/32"      | 1,59375"     | 40,481    |
| 1 39/64"      | 1,609375"    | 40,878    |
| 1 5/8"        | 1,625"       | 41,275    |
| 1 41/64"      | 1,640625"    | 41,672    |
| 1 21/32"      | 1,65625"     | 42,069    |
| 1 43/64"      | 1,671875"    | 42,466    |
| 1 11/16"      | 1,6875"      | 42,863    |
| 1 45/64"      | 1,703125"    | 43,259    |
| 1 23/32"      | 1,71875"     | 43,656    |
| 1 47/64"      | 1,734375"    | 44,053    |
| 1 3/4"        | 1,75"        | 44,450    |
| 1 49/64"      | 1,765625"    | 44,847    |
| 1 25/32"      | 1,78125"     | 45,244    |
| 1 51/64"      | 1,796875"    | 45,641    |
| 1 13/16"      | 1,8125"      | 46,038    |
| 1 53/64"      | 1,828125"    | 46,434    |
| 1 27/32"      | 1,84375"     | 46,831    |
| 1 55/64"      | 1,859375"    | 47,228    |
| 1 7/8"        | 1,875"       | 47,625    |
| 1 57/64"      | 1,890625"    | 48,022    |
| 1 29/32"      | 1,90625"     | 48,419    |
| 1 59/64"      | 1,921875"    | 48,816    |
| 1 15/16"      | 1,9375"      | 49,213    |
| 1 61/64"      | 1,953125"    | 49,609    |
| 1 31/32"      | 1,96875"     | 50,006    |
| 1 63/64"      | 1,984375"    | 50,403    |
| 2"            | 2"           | 50,800    |

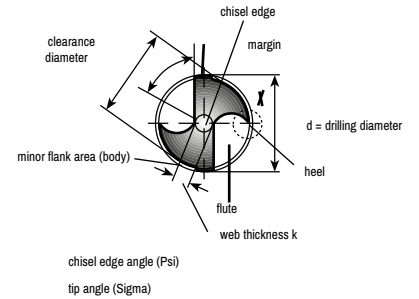
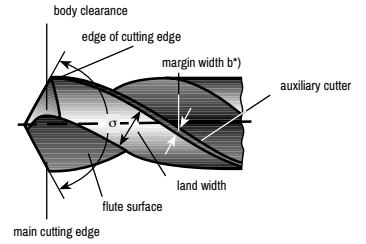


# TECHNICAL INFORMATION METAL DRILL BITS

## Twist drill bits with cylindrical shank/taper shank

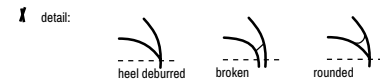
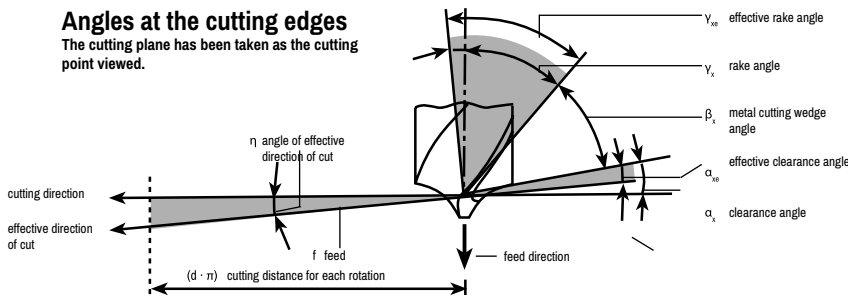


### body



### Angles at the cutting edges

The cutting plane has been taken as the cutting point viewed.



Excerpt from DIN 1412 (issue 12/66)

## Speed table - guide values for KEIL HSS twist drill bits

| Material   | Drill bit | Drill bit type | Tip angle quality | Coolant        | Cutting speed m/min | Average rpm Feed s (mm/rotation) for bit dia. |               |               |             |             |             |             |             |             |  |
|--|-----------|----------------|-------------------|----------------|---------------------|---|---------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|--|
|  |           |                |                   |                |                     | 2   | 5             | 8             | 12          | 16          | 25          | 40          | 63          | 80          |  |
| Free-cutting steel (S,P-PB alloy) up to 50 kgf/mm <sup>2</sup> | N         | HSS            | 118°              | Emulsion       | 30 - 50             | 5.600<br>0,05                                 | 2.250<br>0,12 | 1.400<br>0,20 | 930<br>0,25 | 700<br>0,30 | 450<br>0,40 | 280<br>0,50 | 180<br>0,50 | 160         |  |
| Unalloyed mild steel up to 50 kgf/mm <sup>2</sup>              | N         | HSS            | 118°              | Emulsion       | 30 - 40             | 5.600<br>0,05                                 | 2.250<br>0,12 | 1.400<br>0,20 | 930<br>0,25 | 700<br>0,30 | 450<br>0,40 | 280<br>0,40 | 180<br>0,50 | 140<br>0,60 |  |
| Unalloyed mild steel 50 - 70 kgf/mm <sup>2</sup>               | N         | HSS            | 118°              | Emulsion       | 25 - 35             | 4.750<br>0,05                                 | 1.900<br>0,12 | 1.200<br>0,20 | 800<br>0,25 | 600<br>0,30 | 400<br>0,40 | 240<br>0,40 | 180<br>0,50 | 120<br>0,60 |  |
| Unalloyed mild steel 70 - 90 kgf/mm <sup>2</sup>               | N         | HSS            | 118°              | Emulsion       | 10 - 15             | 2.100<br>0,07                                 | 860<br>0,10   | 540<br>0,16   | 360<br>0,20 | 270<br>0,25 | 170<br>0,32 | 110<br>0,40 | 68<br>0,50  | 50          |  |
| Unalloyed mild steel up to 70 kgf/mm <sup>2</sup>              | N         | HSS            | 118°              | Emulsion       | 20 - 30             | 3.980<br>0,03                                 | 1.580<br>0,07 | 995<br>0,10   | 665<br>0,16 | 495<br>0,20 | 320<br>0,25 | 200<br>0,32 | 125<br>0,40 | 100<br>0,50 |  |
| Alloyed cast steel   | N         | HSS            | 118°              | Emulsion (oil) | 10 - 20             | 2.380<br>0,02                                 | 950<br>0,05   | 595<br>0,08   | 400<br>0,12 | 300<br>0,14 | 190<br>0,18 | 120<br>0,23 | 75<br>0,27  | 60<br>0,32  |  |
| Alloyed steel 70 - 90 kgf/mm <sup>2</sup>                      | N         | HSS            | 118°              | Emulsion       | 10 - 15             | 2.100<br>0,02                                 | 860<br>0,05   | 540<br>0,08   | 360<br>0,12 | 270<br>0,14 | 170<br>0,18 | 110<br>0,23 | 68<br>0,27  | 50<br>0,32  |  |
| Alloyed Cr-Ni steel 90 - 110 kgf/mm <sup>2</sup>               | N         | HSS            | 118°              | Emulsion (oil) | 8 - 12              | 1.590<br>0,02                                 | 635<br>0,05   | 400<br>0,08   | 265<br>0,12 | 200<br>0,14 | 125<br>0,18 | 80<br>0,23  | 50<br>0,27  | 40<br>0,32  |  |
| Cast iron up to 200 HB   | N         | HSS            | 118°              | Dry Comp. air  | 15 - 25             | 3.185<br>0,05                                 | 1.265<br>0,12 | 795<br>0,20   | 530<br>0,25 | 400<br>0,30 | 255<br>0,40 | 160<br>0,40 | 100<br>0,50 | 80<br>0,60  |  |
| Cast iron up to 350 HB (white iron)                            | N         | HSS            | 118°              | Dry Comp. air  | 5 - 15              | 1.590<br>0,03                                 | 635<br>0,07   | 400<br>0,10   | 265<br>0,16 | 200<br>0,20 | 165<br>0,25 | 80<br>0,32  | 50<br>0,40  | 40<br>0,50  |  |
| Nickel Monell metal  | N         | HSS            | 118°              | Emulsion (oil) | 10 - 15             | 2.100<br>0,02                                 | 860<br>0,05   | 540<br>0,08   | 360<br>0,12 | 270<br>0,14 | 170<br>0,18 | 110<br>0,23 | 68<br>0,27  | 50<br>0,32  |  |
| Gunmetal, bronze (soft)  | N         | HSS            | 118°              | Emulsion (oil) | 20 - 40             | 4.745<br>0,05                                 | 1.900<br>0,08 | 1.193<br>0,14 | 795<br>0,20 | 595<br>0,25 | 380<br>0,30 | 240<br>0,40 | 150<br>0,50 | 120<br>0,60 |  |
| Alu bronze (semi-hard, hard)                                   | N         | HSS            | 118°              | Emulsion (oil) | 15 - 35             | 3.980<br>0,05                                 | 1.585<br>0,08 | 995<br>0,14   | 665<br>0,20 | 495<br>0,25 | 320<br>0,30 | 200<br>0,40 | 125<br>0,50 | 100<br>0,60 |  |

**Comments:** These guide values apply to drilling depths of about 3 - 4 times the drill bit diameter. For greater drilling depths, the cutting speed and feed rate must be reduced. In case of very deep holes under severe working conditions, the cutting values must be determined by tests.

HAMMER DRILL BITS  
 CHISEL DRILL BITS  
 STONE AND SPECIAL DRILL BITS  
 METAL DRILL BITS  
 WOOD DRILL BITS  
 SAWS  
 ASSORTMENTS  
 MODULES - SHELVES

# OVERVIEW OF 1/4" HEXAGONAL SHAFT TOOLS



- 1
- 2
- 3

## PERCUSSION DRILL

- 1 Glass drill bit KEILBIT
- 2 Universal drill bit KEILBIT
- 3 Quick bit holder for bits and KEILBIT



- 1
- 2
- 3

## METAL DRILL BITS

- 1 HSS bit drill KEILBIT, ground
- 2 HSS combination tool KEILBIT
- 3 HSS countersink 90° KEILBIT



- 1
- 2
- 3

## WOOD DRILL BITS

- 1 Wood twist drill bit KEILBIT
- 2 Flat bit
- 3 Extension for flat bit

# WOOD DRILL BITS

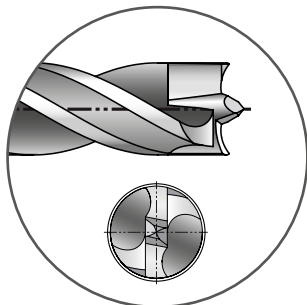
WOOD WORKING WITH PROFESSIONAL TOOLS



|   |         |
|---|---------|
| 184   Wood twist drill bit TURBOWOOD                  | 119-120 |
| 180   280   Wood twist drill bit                      | 121-122 |
| 186   HSS wood twist drill bit                        | 123     |
| 187   Wood twist drill bit KEILBIT                    | 124     |
| 181   Auger bit lewis shape                           | 125     |
| 182   Auger drill bit lewis shape with SDS-plus shaft | 126     |
| 183   Machine forstner bit                            | 127     |
| 185   Flat bit KEILBIT                                | 128     |
| 185   Extension for flat bit KEILBIT                  | 129     |
| 350   Drill bit for timbering, round shank            | 130     |
| 355   SDS-plus drill bit for timbering                | 131     |

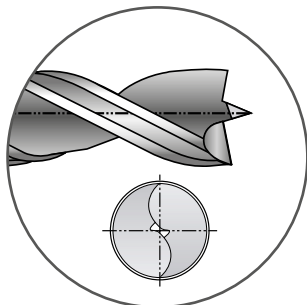
# WOOD DRILL BITS

Professional wood drill bits make perfect holes in all kinds of wood



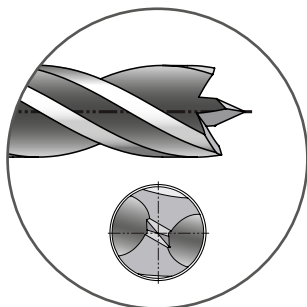
## WOOD TWIST DRILL BIT TURBOWOOD

Our TURBOWOOD raises the bar when it comes to drilling speediness. It is perfectly suitable for professional and industrial application due to its patented and self-cutting centring tip, as well as its extremely sharply and precisely ground carbide plate.



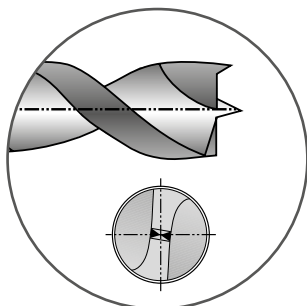
## WOOD TWIST DRILL BIT

The double chamfer allows an exact lead in the drilling hole, also in low drilling depths and prevents sticking of chips between drill bit and hole walls. These drill bits are particularly suitable for drilling plug holes and for drilling fibre board, ply wood, pine, beech, oak and similar soft and hard wood. The precisely ground shoulder cutting edges make cylindrical, tear-free holes.



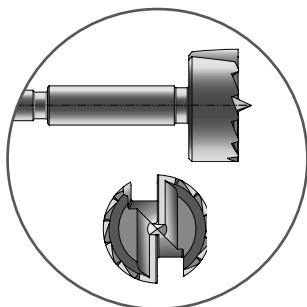
## HSS WOOD TWIST DRILL BIT

Made of HSS steel. The specialist for bankirai: Due to its special geometry of grooves and the optimal chip flow our HSS wood twist drill bit is very much suitable for boring in hard and tropical wood as well as laminated boards and plastics.



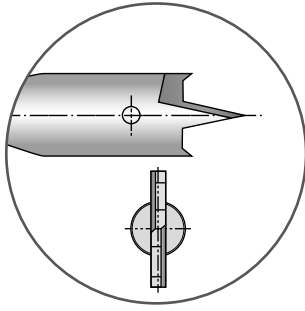
## AUGER BIT LEWIS SHAPE

The auger bit has a thread tip, a pre-cutter and a hexagonal shaft. It has a milled and surface ground flute and allows exact and precise drilling in veneered wooden boards as well as all natural soft and hard woods.



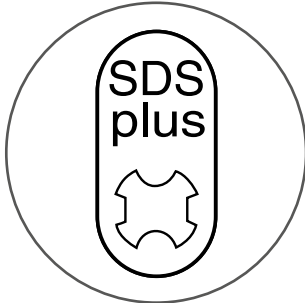
## MACHINE FORSTNER DRILL BIT

This drill bit is made from special steel and ground mechanically to its cylindrical shape. Only a very low contact pressure is needed. It has a very good drilling progress and a long tool life. Moreover the power consumption is very low.



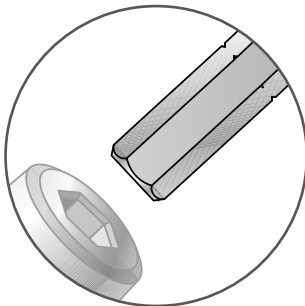
## FLAT BITS

Due to its fast and easy tool changing the flat bit is ideal for the DIY-sector. The standardised 1/4" hexagonal shank can be easily exchanged and is therefore perfect for screwing and drilling one after another.



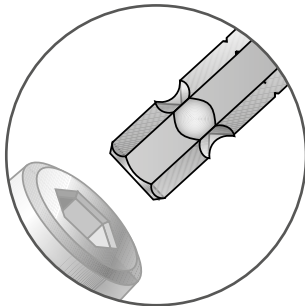
## SDS-PLUS LOCKING

The SDS-plus shaft is directly fitting into all hammer drilling machines with SDS-plus and Hilti TE-C chuck.



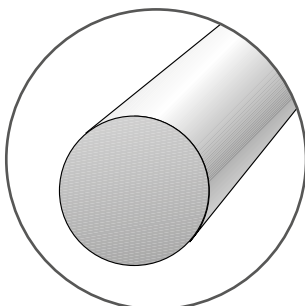
## KEILBIT (C 6.3 MM)

This is a different kind of shaft of the KEILBIT with short hexagonal shank and short drill bit.



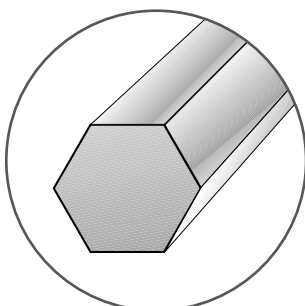
## KEILBIT (E 6.3 MM)

Modern cordless screwdrivers are extremely powerful and can definitely be used for drilling. The KEILBIT has specially been invented for the fast and direct application in these machines. No change of machines is necessary anymore. For the various materials we offer different alternatives of the KEILBIT.



## CYLINDRICAL SHAFT

Tools with round shaft are the top selling drilling tools. The round shaft is fitting into all three-jaw chucks and quick change chuck.



## HEXAGONAL SCHAFT (10.0 MM)

The hexagonal shank offers a better transmission of rotation especially when working with big diameters and long drill bits.

# TUNGSTEN CARBIDE WOOD TWIST DRILL BIT TURBOWOOD | 184



## DRIVE



## EXECUTION



- Carbide cutting tip
- Patented, self-cutting centring tip
- With carvers
- Double chamfer
- Ground shaft
- Grey blasted surface

## FOR USE IN

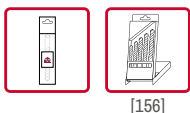


- Especially suitable for hardwood
- Recommended speed of 1400 to 3500 rpm, depending on material and hole diameter

## APPLICATION

- In all rotary and percussion drilling machines
- In machines for mechanical processing
- Only for rotary use

## PACKAGING



| D<br>Ø mm | L2<br>mm | L1<br>mm |    | EAN<br>4016707... |             |
|-----------|----------|----------|----|-------------------|-------------|
| 4,0       | 40       | 75       | 20 | 026010            | 184 000 040 |
| 5,0       | 40       | 86       | 20 | 026027            | 184 000 050 |
| 6,0       | 45       | 93       | 20 | 026034            | 184 000 060 |
| 8,0       | 63       | 117      | 20 | 026041            | 184 000 080 |
| 10,0      | 61       | 120      | 20 | 026058            | 184 000 100 |
| 12,0      | 100      | 151      | 10 | 905018            | 184 000 120 |

## CARBIDE WOOD TWIST DRILL BIT TURBOWOOD

The KEIL TURBOWOOD drill bit is characterized by an extremely fast drilling progress, a long life and clean and precise holes. The discernible benefits of this tool set high standards, in particular when used in hardwood.

This innovative manufacturing technique provides the TURBOWOOD with a wear resistance which allows prolonged use of this drill bit, even in bangkirai wood.



# CARBIDE WOOD TWIST DRILL BIT TURBOWOOD



## HIGH CUTTING SPEED:

- The self-cutting centring tip is patented. Its geometry leads to additional speed while drilling and reduced drilling time.
- Less requirement of power guarantees energy-efficient working also when working with cordless tools.



## LONG SERVICE LIFE:

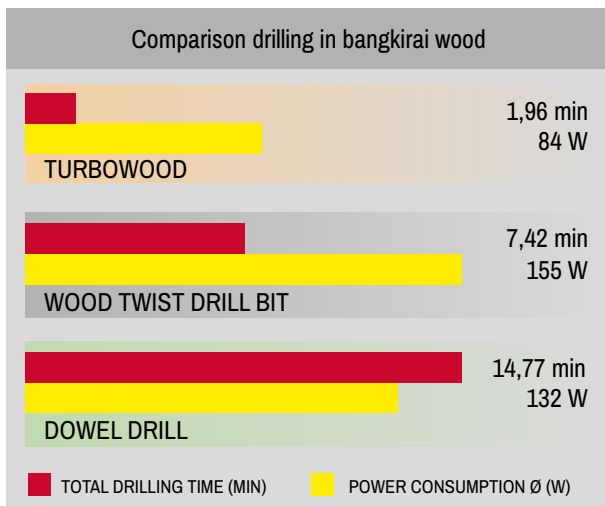
- The TURBOWOOD has a tip with a completely milled and sintered carbide plate. The tip had its geometry already before being inserted into the drill bit. It therefore guarantees long durability.
- The carbide plate is sharpened by a precise diamond grinding. A high and constant quality of the tip geometry can be assured.



## EXACT AND CLEAN HOLES:

- The double chamfer avoids the „jamming“ of drilling chips and reduces the friction between drill bit body and wall. By this design feature the development of heat can be reduced. and the drilling hole does not show combustion.
- The centring tip allows an exact start of the drilling process without drifting of the drill bit.
- Disruptions which can be caused by conventional wood drill bits can be minimized by the pre-cutting .

## NOTICEABLE SUCCESS:

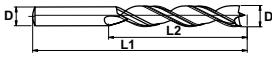


Internal tests have demonstrated the clear superiority of the TURBOWOOD compared to commonly offered wood drill bits. For example, 100 holes in Bangkirai with a depth of 3 centimetres were drilled with this bit in a net drilling time of less than two seconds.

|                  |           |
|------------------|-----------|
| Drill diameter   | 8 mm      |
| Drill holes      | 100 holes |
| Hole depth       | 3 cm      |
| Total hole depth | 300 cm    |
| Speed            | 2000 rpm  |



# WOOD TWIST DRILL BIT | 180 | 280



## DRIVE



## EXECUTION

- Similar to DIN 7487
- Double chamfer from 5 mm Ø for Art. 180
- Milled and hardened
- Made of CV-alloyed silver steel
- CBN ground tip
- With carvers
- Burnished and ground surface

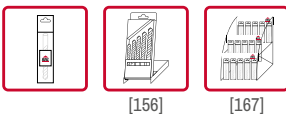
## FOR USE IN



## APPLICATION



- In all rotary and percussion drilling machines
- In machines for mechanical processing
- Only for rotary use

## PACKAGING



### Comments

- Other dimensions on request



| D<br>Ø mm | L2<br>mm | L1<br>mm | d<br>Ø mm |  | EAN<br>4016707... |  12345 |
|-----------|----------|----------|-----------|---|-------------------|---|
| 3,0       | 33       | 61       | 3,0       | 20  | 020018            | 180 000 030   |
| 4,0       | 43       | 75       | 4,0       | 20  | 020025            | 180 000 040   |
| 5,0       | 52       | 86       | 5,0       | 20  | 020032            | 180 000 050   |
| 6,0       | 57       | 93       | 6,0       | 20  | 020049            | 180 000 060   |
| 6,0       | 190      | 250      | 6,0       | 1   | 029011            | 280 060 250   |
| 7,0       | 69       | 109      | 7,0       | 20  | 020056            | 180 000 070   |
| 8,0       | 75       | 117      | 8,0       | 20  | 020063            | 180 000 080   |
| 8,0       | 190      | 250      | 8,0       | 1   | 029028            | 280 080 250   |
| 9,0       | 80       | 120      | 9,0       | 20  | 020070            | 180 000 090   |
| 10,0      | 87       | 120      | 10,0      | 20  | 020087            | 180 000 100   |
| 10,0      | 190      | 250      | 10,0      | 1   | 029035            | 280 100 250   |
| 11,0      | 89       | 142      | 8,0       | 10  | 020094            | 180 000 110   |
| 12,0      | 96       | 151      | 8,0       | 10  | 020100            | 180 000 120   |
| 12,0      | 190      | 250      | 10,0      | 1   | 029042            | 280 120 250   |
| 13,0      | 96       | 151      | 8,0       | 10  | 020117            | 180 000 130   |
| 14,0      | 96       | 151      | 10,0      | 10  | 020124            | 180 000 140   |
| 14,0      | 190      | 250      | 10,0      | 1   | 029059            | 280 140 250   |
| 15,0      | 100      | 160      | 10,0      | 10  | 020131            | 180 000 150   |
| 16,0      | 100      | 160      | 10,0      | 10  | 020148            | 180 000 160   |
| 16,0      | 190      | 250      | 10,0      | 1   | 029066            | 280 160 250   |
| 18,0      | 130      | 180      | 10,0      | 5   | 020155            | 180 000 180   |
| 18,0      | 190      | 250      | 10,0      | 1   | 029073            | 280 180 250   |
| 20,0      | 140      | 200      | 10,0      | 5   | 020162            | 180 000 200   |
| 20,0      | 190      | 250      | 10,0      | 1   | 029080            | 280 200 250   |
| 22,0      | 140      | 205      | 13,0      | 5   | 020179            | 180 000 220   |
| 24,0      | 140      | 215      | 13,0      | 5   | 020186            | 180 000 240   |
| 26,0      | 145      | 215      | 13,0      | 5   | 020193            | 180 000 260   |
| 28,0      | 145      | 220      | 13,0      | 4   | 020209            | 180 000 280   |
| 30,0      | 145      | 220      | 13,0      | 4   | 020216            | 180 000 300   |

# WOOD TWIST DRILL BIT

## PRODUCT INFORMATION:



### Recommended speed for KEIL wood twist drill bits 180

| D<br>Ø mm |  r/min |  r/min |
|-----------|---|---|
| 3,0       | 1800  | 2600  |
| 4,0       | 1650  | 2500  |
| 5,0       | 1450  | 2200  |
| 6,0       | 1300  | 2000  |
| 7,0       | 1250  | 1900  |
| 8,0       | 1200  | 1800  |
| 9,0       | 1100  | 1700  |
| 10,0      | 1050  | 1600  |
| 11,0      | 1000  | 1500  |
| 12,0      | 900   | 1400  |
| 13,0      | 850   | 1300  |
| 14,0      | 800   | 1200  |
| 16,0      | 650   | 1000  |
| 18,0      | 500   | 800   |
| 20,0      | 400   | 600   |
| 22,0      | 400   | 600   |
| 24,0      | 350   | 500   |
| 26,0      | 300   | 450   |
| 28,0      | 250   | 400   |
| 30,0      | 200   | 300   |

- The double chamfer allows an exact lead in the drilling hole, also in low drilling depths and prevents chips of sticking between drill bit and hole walls
- These drill bits are particularly suitable for drilling plug holes and for drilling fibreboard, plywood, pine, beech, oak and similar hardwood and softwood.
- The precisely ground shoulder cutters provide completely round holes without any tearing.
- The special centring tip makes drilling of exact pilot holes possible.
- The KEIL wood drill bits are ideal professional tools for the expert.
- To be used only in rotary drilling machines (hammer action, if any, must be switched off).
- The centring tip makes it possible to dispense with marking or scoring when this drill bit is used.
- Bit to be tensioned firmly and centred in chuck.
- Always place drill at right angle and then switch on start (slowly) with a low speed. Then continue drilling with the speed stated or recommended.
- Drilling always with constant pressure do not use a coolant.
- Lift out regularly, at least every 30 mm, and remove spoil from the flute. If this is not done and the flutes fill up, the bit will jam in the hole become hot and stop.
- The work piece should always be clamped tightly. Never let the centring tip impact on a hard underground (metal/stone) or drill into it.
- Blunt drill bits result in imprecise holes. Only sharp drill bits achieve optimum drilling results.
- Observe the safety regulations for all drilling work.

# HSS WOOD TWIST DRILL BIT | 186



## DRIVE



## EXECUTION

- High-performance high-speed steel
- Milled flute
- 2 guiding phases bevels for better drill hole guidance
- Large groove for optimal chip flow
- Self cutting centre tip

## FOR USE IN



- Especially suitable for furniture making
- Recommended speed of 1400 to 3500 rpm, depending on material and hole diameter

## APPLICATION

- In all rotary and percussion drilling machines as well as CNC machines
- In machines for mechanical processing
- Only for rotary use
- Exact, accurately centered and splinter free drilling in coated panel materials, chipboards, MDF-fiber boards as well as plastic and all kinds of soft and hard woods.

## PACKAGING



### Comments

- Other dimensions on request

| D<br>Ø mm | L2<br>mm | L1<br>mm | d<br>Ø mm |    | EAN<br>4016707... |             |
|-----------|----------|----------|-----------|----|-------------------|-------------|
| 4,0       | 43       | 75       | 4,0       | 20 | 027017            | 186 000 040 |
| 5,0       | 52       | 86       | 5,0       | 20 | 027024            | 186 000 050 |
| 6,0       | 57       | 93       | 6,0       | 20 | 027031            | 186 000 060 |
| 7,0       | 69       | 109      | 7,0       | 20 | 027048            | 186 000 070 |
| 8,0       | 75       | 117      | 8,0       | 20 | 027055            | 186 000 080 |
| 10,0      | 87       | 133      | 10,0      | 20 | 027079            | 186 000 100 |
| 12,0      | 96       | 151      | 8,0       | 10 | 027093            | 186 000 120 |

## HSS WOOD TWIST DRILL BIT

The two self guiding chamfers allow splinter-proof entry and exit drillings.

In contrary to the present type of drill bits no underlay is necessary anymore due to the new tip geometry.









# WOOD TWIST DRILL BIT KEILBIT | 187



## DRIVE



|  D<br>Ø mm |  L1<br>mm |  SW<br>mm |  |  EAN<br>4016707... |  |
|---|--|---|---|---|---|
| 3,0   | 40   | 6,35  | 20  | 028014  | 187 000 030   |
| 4,0   | 40   | 6,35  | 20  | 028021  | 187 000 040   |
| 5,0   | 50   | 6,35  | 20  | 028038  | 187 000 050   |
| 6,0   | 60   | 6,35  | 20  | 028045  | 187 000 060   |
| 8,0   | 70   | 6,35  | 20  | 028052  | 187 000 080   |
| 10,0  | 80   | 6,35  | 20  | 028069  | 187 000 100   |

## EXECUTION

- Profile-ground
- Made of CV-alloyed silver steel
- Ground carbide tip
- With carvers
- Short, cylindrical
- 1/4" bit drive DIN 3126 - C 6.3

## FOR USE IN



## WOOD TWIST DRILL BIT KEILBIT

- Modern cordless screw drivers are extremely efficient and can also be used for drilling without any problems. The KEILBIT was particularly developed for quick direct application in these machines.
- Machine changing is not necessary anymore.
- For drilling other materials we offer various types of KEILBIT.

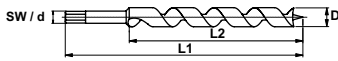
## APPLICATION

- In all rotary and percussion drilling machines
- In machines for mechanical processing
- Only for rotary use
- In all drilling machines, cordless screw drivers and bit holders with 1/4" drill shank
- SDS-plus locating shank for Bits and KEILBIT [37]
- Quick bit holder for bits and KEILBIT [72]

## PACKAGING



# AUGER BIT LEWIS SHAPE | 181



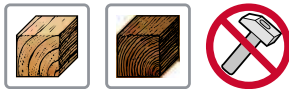
## DRIVE



## EXECUTION

- Wood drill bit with threaded tip
- Carver and hexagonal shank
- With milled and ground spiral

## FOR USE IN



## APPLICATION

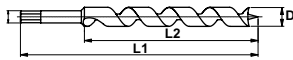
- In all rotary and percussion drilling machines
- In machines for mechanical processing
- Only for rotary use
- Precise and splinter-free drilling with point accuracy in veneered boards and all natural softwood and hardwood

## PACKAGING



| D<br>Ø mm | D<br>Ø " | L2<br>mm | L1<br>mm | SW<br>mm | d<br>mm | Icons | EAN<br>4016707... | 12345       |
|-----------|----------|----------|----------|----------|---------|-------|-------------------|-------------|
| 6,0       | 15/64    | 150      | 235      |          | 6,0     | 1     | 031403            | 181 060 250 |
| 8,0       | 5/16     | 150      | 235      | 7,00     |         | 1     | 031410            | 181 080 250 |
| 8,0       | 5/16     | 380      | 460      | 7,00     |         | 1     | 031151            | 181 080 450 |
| 10,0      | 3/8      | 150      | 235      | 9,00     |         | 1     | 031427            | 181 100 250 |
| 10,0      | 3/8      | 380      | 460      | 9,00     |         | 1     | 031168            | 181 100 450 |
| 10,0      | 3/8      | 530      | 600      | 9,00     |         | 1     | 031281            | 181 100 600 |
| 12,0      | 15/32    | 150      | 235      | 11,00    |         | 1     | 031434            | 181 120 250 |
| 12,0      | 15/32    | 380      | 460      | 11,00    |         | 1     | 031175            | 181 120 450 |
| 12,0      | 15/32    | 530      | 600      | 11,00    |         | 1     | 031298            | 181 120 600 |
| 14,0      | 9/16     | 150      | 235      | 12,00    |         | 1     | 031441            | 181 140 250 |
| 14,0      | 9/16     | 380      | 460      | 12,00    |         | 1     | 031182            | 181 140 450 |
| 14,0      | 9/16     | 530      | 600      | 12,00    |         | 1     | 031304            | 181 140 600 |
| 16,0      | 5/8      | 150      | 235      | 12,00    |         | 1     | 031458            | 181 160 250 |
| 16,0      | 5/8      | 380      | 460      | 12,00    |         | 1     | 031199            | 181 160 450 |
| 16,0      | 5/8      | 530      | 600      | 12,00    |         | 1     | 031311            | 181 160 600 |
| 18,0      | 11/16    | 150      | 235      | 12,00    |         | 1     | 031465            | 181 180 250 |
| 18,0      | 11/16    | 380      | 460      | 12,00    |         | 1     | 031205            | 181 180 450 |
| 18,0      | 11/16    | 530      | 600      | 12,00    |         | 1     | 031328            | 181 180 600 |
| 20,0      | 3/4      | 150      | 235      | 12,00    |         | 1     | 031472            | 181 200 250 |
| 20,0      | 3/4      | 380      | 460      | 12,00    |         | 1     | 031212            | 181 200 450 |
| 20,0      | 3/4      | 530      | 600      | 12,00    |         | 1     | 031335            | 181 200 600 |
| 22,0      | 7/8      | 150      | 235      | 12,00    |         | 1     | 031489            | 181 220 250 |
| 22,0      | 7/8      | 380      | 460      | 12,00    |         | 1     | 031229            | 181 220 450 |
| 22,0      | 7/8      | 530      | 600      | 12,00    |         | 1     | 031342            | 181 220 600 |
| 24,0      | 15/16    | 150      | 235      | 12,00    |         | 1     | 031496            | 181 240 250 |
| 24,0      | 15/16    | 380      | 460      | 12,00    |         | 1     | 031236            | 181 240 450 |
| 24,0      | 15/16    | 530      | 600      | 12,00    |         | 1     | 031359            | 181 240 600 |
| 26,0      | 1 1/32   | 150      | 235      | 12,00    |         | 1     | 031502            | 181 260 250 |
| 26,0      | 1 1/32   | 380      | 460      | 12,00    |         | 1     | 031243            | 181 260 450 |
| 28,0      | 1 1/8    | 150      | 235      | 12,00    |         | 1     | 031519            | 181 280 250 |
| 28,0      | 1 1/8    | 380      | 460      | 12,00    |         | 1     | 031250            | 181 280 450 |
| 30,0      | 1 3/16   | 150      | 235      | 12,00    |         | 1     | 031526            | 181 300 250 |
| 30,0      | 1 3/16   | 380      | 460      | 12,00    |         | 1     | 031267            | 181 300 450 |
| 32,0      | 1 1/4    | 150      | 235      | 12,00    |         | 1     | 031533            | 181 320 250 |
| 32,0      | 1 1/4    | 380      | 460      | 12,00    |         | 1     | 031274            | 181 320 450 |

# AUGER DRILL BITS LEWIS SHAPE WITH SDS-PLUS SHAFT | 182



## DRIVE

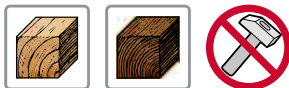


| D<br>Ø mm | D<br>Ø " | L2<br>mm | L1<br>mm |   | EAN<br>4016707... | 12345       |
|-----------|----------|----------|----------|---|-------------------|-------------|
| 8,0       | 5/16     | 100      | 200      | 1 | 918810            | 182 080 200 |
| 10,0      | 3/8      | 160      | 235      | 1 | 918827            | 182 100 235 |
| 12,0      | 15/32    | 160      | 235      | 1 | 918834            | 182 120 235 |
| 16,0      | 5/8      | 160      | 235      | 1 | 918841            | 182 160 235 |
| 20,0      | 3/4      | 160      | 235      | 1 | 918858            | 182 200 235 |
| 22,0      | 7/8      | 160      | 235      | 1 | 918865            | 182 220 235 |
| 25,0      | 1        | 160      | 235      | 1 | 918872            | 182 250 235 |

## EXECUTION

- Long service life thanks to special alloying
- Wear-resistant CV steel guarantees high strength and resistance to breakage
- Reduced SDS-plus shaft with open helix runout

## FOR USE IN



## APPLICATION

- Directly suitable for all hammer drill bits with SDS-plus and HILTI TE-C shank
- Only for rotating use
- Exact, precise and splinter-free drilling in coated board materials, chipboard, MDF boards as well as plastics and all kinds of soft and hardwoods.

## PACKAGING



# MACHINE FORSTNER DRILL BITS, TOOTHED | 183



## DRIVE



| D<br>Ø mm | L1<br>mm | d<br>Ø mm | Icon | EAN<br>4016767... | Icon        |
|-----------|----------|-----------|------|-------------------|-------------|
| 15,0      | 90       | 8,0       | 1    | 033223            | 183 000 150 |
| 18,0      | 90       | 8,0       | 1    | 033230            | 183 000 180 |
| 20,0      | 90       | 8,0       | 1    | 033247            | 183 000 200 |
| 22,0      | 90       | 8,0       | 1    | 033254            | 183 000 220 |
| 24,0      | 90       | 8,0       | 1    | 033261            | 183 000 240 |
| 25,0      | 90       | 8,0       | 1    | 033278            | 183 000 250 |
| 26,0      | 90       | 8,0       | 1    | 033285            | 183 000 260 |
| 28,0      | 90       | 8,0       | 1    | 033292            | 183 000 280 |
| 30,0      | 90       | 8,0       | 1    | 033308            | 183 000 300 |
| 35,0      | 90       | 10,0      | 1    | 033315            | 183 000 350 |
| 40,0      | 90       | 10,0      | 1    | 033322            | 183 000 400 |
| 45,0      | 90       | 10,0      | 1    | 033339            | 183 000 450 |

## EXECUTION

- Forged from special steel
- Machine-ground to round shape
- According to DIN 7483
- Toothed execution from D=25mm

## FOR USE IN



## APPLICATION

- In all rotary and percussion drilling machines
- In machines for mechanical processing
- Only for rotary use
- Precise and splinter-free drilling with point accuracy in veneered boards and natural wood

## PACKAGING

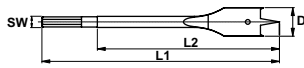


### MACHINE FORSTNER DRILL BITS, TOOTHED

- Lower contact pressure
- Better and faster drilling progress
- Significantly longer life
- Less current consumption



# FLAT BIT KEILBIT | 185



## DRIVE



| D<br>Ø mm | L2<br>mm | L1<br>mm | SW<br>mm |   | EAN<br>4016707... |             |
|-----------|----------|----------|----------|---|-------------------|-------------|
| 6,0       | 100      | 152      | 6,35     | 1 | 025013            | 185 060 150 |
| 8,0       | 100      | 152      | 6,35     | 1 | 025020            | 185 080 150 |
| 10,0      | 100      | 152      | 6,35     | 1 | 025037            | 185 100 150 |
| 12,0      | 100      | 152      | 6,35     | 1 | 025044            | 185 120 150 |
| 13,0      | 100      | 152      | 6,35     | 1 | 025051            | 185 130 150 |
| 14,0      | 100      | 152      | 6,35     | 1 | 025068            | 185 140 150 |
| 16,0      | 100      | 152      | 6,35     | 1 | 025075            | 185 160 150 |
| 18,0      | 100      | 152      | 6,35     | 1 | 025082            | 185 180 150 |
| 20,0      | 100      | 152      | 6,35     | 1 | 025099            | 185 200 150 |
| 22,0      | 100      | 152      | 6,35     | 1 | 025105            | 185 220 160 |
| 24,0      | 100      | 152      | 6,35     | 1 | 025112            | 185 240 160 |
| 25,0      | 100      | 152      | 6,35     | 1 | 025129            | 185 250 160 |
| 28,0      | 100      | 152      | 6,35     | 1 | 025136            | 185 280 160 |
| 30,0      | 100      | 152      | 6,35     | 1 | 025143            | 185 300 160 |
| 32,0      | 100      | 152      | 6,35     | 1 | 025150            | 185 320 160 |
| 35,0      | 100      | 152      | 6,35     | 1 | 025167            | 185 350 160 |
| 38,0      | 100      | 152      | 6,35     | 1 | 025174            | 185 380 160 |
| 40,0      | 100      | 152      | 6,35     | 1 | 025181            | 185 400 160 |

## EXECUTION

- Tip and cutting edges profile ground
- Right-hand cutting
- Hardened tool steel
- 1/4" bit drive DIN 3126 - E 6.3

## FOR USE IN

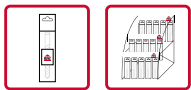


- For drilling in soft wood, beams and chip board

## APPLICATION

- In all rotary and percussion drilling machines
- In machines for mechanical processing
- Only for rotary use
- In all drilling machines, cordless screw drivers and bit holders with 1/4" drill shank
- SDS-plus locating shank for Bits and KEILBIT [37]
- Quick bit holder for bits and KEILBIT [72]

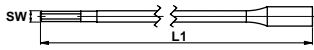
## PACKAGING



[168]



# EXTENSION FOR FLAT BIT KEILBIT | 185



## DRIVE



|                 |                 |   |                          |             |
|-----------------|-----------------|---|--------------------------|-------------|
| <b>L1</b><br>mm | <b>SW</b><br>mm |   | <b>EAN</b><br>4016707... |             |
| 300             | 6,35            | 1 | 025198                   | 185 000 001 |

## EXECUTION

- 1/4" bit drive DIN 3126 - E 6.3

## FOR USE IN

- Can be used for through-holes from 16 mm drill bit diameter

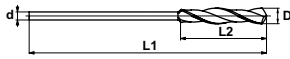
## APPLICATION

- In all rotary and percussion drilling machines
- In machines for mechanical processing
- In all drilling machines, cordless screw drivers and bit holders with 1/4" drill shank

## PACKAGING



# DRILL BIT FOR TIMBERING, ROUND SHANK | 350



## DRIVE



## EXECUTION

- Made of wear resistant CV steel
- Long tool life due to special alloying
- Offset shank with open spiral outfall prevents from drill bit getting jammed
- Optimal true running accuracy as well as chip removal also in deep holes

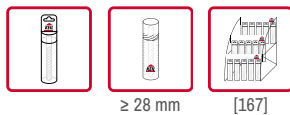
## FOR USE IN



## APPLICATION

- In all rotary and percussion drilling machines
- To break through outer and inner covering boards in one operation
- Only for rotary use
- Also with concrete leftovers

## PACKAGING

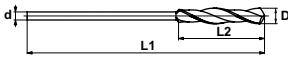


### Comments

- Largest clamping shank (d) 13 mm Ø
- Other dimensions on request

| D<br>Ø mm | D<br>Ø " | L2<br>mm | L1<br>mm | d<br>Ø mm |   | EAN<br>4016707... | 12345       |
|-----------|----------|----------|----------|-----------|---|-------------------|-------------|
| 6,0       | 1/4      | 100      | 400      | 6,0       | 1 | 030130            | 350 060 400 |
| 6,0       | 1/4      | 100      | 600      | 6,0       | 1 | 030000            | 350 060 600 |
| 8,0       | 5/16     | 100      | 400      | 8,0       | 1 | 030017            | 350 080 400 |
| 8,0       | 5/16     | 100      | 600      | 8,0       | 1 | 030208            | 350 080 600 |
| 8,0       | 5/16     | 100      | 800      | 8,0       | 1 | 030710            | 350 080 800 |
| 10,0      | 3/8      | 100      | 400      | 8,0       | 1 | 030024            | 350 100 400 |
| 10,0      | 3/8      | 100      | 600      | 8,0       | 1 | 030215            | 350 100 600 |
| 10,0      | 3/8      | 100      | 800      | 8,0       | 1 | 030727            | 350 100 800 |
| 12,0      | 15/32    | 100      | 400      | 10,0      | 1 | 030031            | 350 120 400 |
| 12,0      | 15/32    | 100      | 600      | 10,0      | 1 | 030222            | 350 120 600 |
| 12,0      | 15/32    | 100      | 800      | 10,0      | 1 | 030734            | 350 120 800 |
| 14,0      | 9/16     | 100      | 400      | 10,0      | 1 | 030048            | 350 140 400 |
| 14,0      | 9/16     | 100      | 600      | 10,0      | 1 | 030239            | 350 140 600 |
| 14,0      | 9/16     | 100      | 800      | 10,0      | 1 | 030741            | 350 140 800 |
| 16,0      | 5/8      | 100      | 400      | 10,0      | 1 | 030055            | 350 160 400 |
| 16,0      | 5/8      | 100      | 600      | 10,0      | 1 | 030246            | 350 160 600 |
| 16,0      | 5/8      | 100      | 800      | 10,0      | 1 | 030758            | 350 160 800 |
| 18,0      | 11/16    | 100      | 400      | 13,0      | 1 | 030062            | 350 180 400 |
| 18,0      | 11/16    | 100      | 600      | 13,0      | 1 | 030253            | 350 180 600 |
| 18,0      | 11/16    | 100      | 800      | 13,0      | 1 | 030765            | 350 180 800 |
| 20,0      | 3/4      | 100      | 400      | 13,0      | 1 | 030079            | 350 200 400 |
| 20,0      | 3/4      | 100      | 600      | 13,0      | 1 | 030260            | 350 200 600 |
| 20,0      | 3/4      | 100      | 800      | 13,0      | 1 | 030772            | 350 200 800 |
| 22,0      | 7/8      | 100      | 400      | 13,0      | 1 | 030086            | 350 220 400 |
| 22,0      | 7/8      | 100      | 600      | 13,0      | 1 | 030277            | 350 220 600 |
| 22,0      | 7/8      | 100      | 800      | 13,0      | 1 | 030789            | 350 220 800 |
| 24,0      | 15/16    | 100      | 400      | 13,0      | 1 | 030093            | 350 240 400 |
| 24,0      | 15/16    | 100      | 600      | 13,0      | 1 | 030284            | 350 240 600 |
| 24,0      | 15/16    | 100      | 800      | 13,0      | 1 | 030796            | 350 240 800 |
| 26,0      | 1 1/32   | 100      | 400      | 13,0      | 1 | 030109            | 350 260 400 |
| 28,0      | 1 1/8    | 100      | 400      | 13,0      | 1 | 030116            | 350 280 400 |
| 30,0      | 1 3/16   | 100      | 400      | 13,0      | 1 | 030123            | 350 300 400 |

# SDS-PLUS DRILL BIT FOR TIMBERING | 355



## DRIVE



## EXECUTION

- Made of wear resistant CV steel
- Long tool life due to special alloying
- Offset shank with open spiral outfall prevents from drill bit getting jammed
- Optimal true running accuracy as well as chip removal also in deep holes

## FOR USE IN



## APPLICATION

- Fits directly into all hammer drilling machines with SDS-plus and HILTI TE-C drive
- Only for rotary use
- To break through outer and inner covering boards in one operation
- Also with concrete leftovers
- Adapters for SDS-plus [36]

## PACKAGING



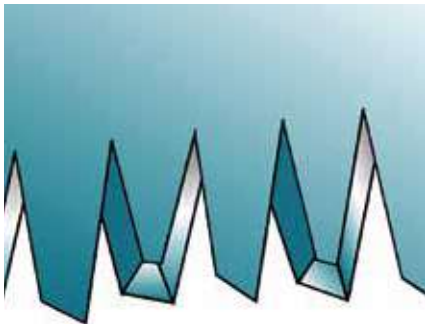
### Comments

- Other dimensions on request

| D<br>Ø mm | D<br>Ø " | L2<br>mm | L1<br>mm | d<br>Ø mm |   | EAN<br>4016707... | 12345       |
|-----------|----------|----------|----------|-----------|---|-------------------|-------------|
| 10,0      | 3/8      | 100      | 400      | 10,0      | 1 | 030406            | 355 100 400 |
| 10,0      | 3/8      | 100      | 600      | 10,0      | 1 | 030604            | 355 100 600 |
| 12,0      | 15/32    | 100      | 400      | 10,0      | 1 | 030413            | 355 120 400 |
| 12,0      | 15/32    | 100      | 600      | 10,0      | 1 | 030611            | 355 120 600 |
| 12,0      | 15/32    | 100      | 800      | 10,0      | 1 | 030963            | 355 120 800 |
| 14,0      | 9/16     | 100      | 400      | 10,0      | 1 | 030420            | 355 140 400 |
| 14,0      | 9/16     | 100      | 600      | 10,0      | 1 | 030628            | 355 140 600 |
| 14,0      | 9/16     | 100      | 800      | 10,0      | 1 | 030970            | 355 140 800 |
| 16,0      | 5/8      | 100      | 400      | 10,0      | 1 | 030437            | 355 160 400 |
| 16,0      | 5/8      | 100      | 600      | 10,0      | 1 | 030635            | 355 160 600 |
| 16,0      | 5/8      | 100      | 800      | 10,0      | 1 | 030987            | 355 160 800 |
| 18,0      | 11/16    | 100      | 400      | 10,0      | 1 | 030444            | 355 180 400 |
| 18,0      | 11/16    | 100      | 600      | 10,0      | 1 | 030642            | 355 180 600 |
| 18,0      | 11/16    | 100      | 800      | 10,0      | 1 | 030994            | 355 180 800 |
| 20,0      | 3/4      | 100      | 400      | 10,0      | 1 | 030451            | 355 200 400 |
| 20,0      | 3/4      | 100      | 600      | 10,0      | 1 | 030659            | 355 200 600 |
| 20,0      | 3/4      | 100      | 800      | 10,0      | 1 | 031007            | 355 200 800 |
| 22,0      | 7/8      | 100      | 400      | 10,0      | 1 | 030468            | 355 220 400 |
| 22,0      | 7/8      | 100      | 600      | 10,0      | 1 | 030666            | 355 220 600 |
| 22,0      | 7/8      | 100      | 800      | 10,0      | 1 | 031014            | 355 220 800 |
| 24,0      | 15/16    | 100      | 400      | 10,0      | 1 | 030475            | 355 240 400 |
| 24,0      | 15/16    | 100      | 600      | 10,0      | 1 | 030673            | 355 240 600 |
| 24,0      | 15/16    | 100      | 800      | 10,0      | 1 | 031021            | 355 240 800 |

# SAWS

EASY SAWING, EASY GOING



|  |     |
|--|-----|
| 100   Carpentry saw                        | 135 |
| 100   Fine cut saw                         | 135 |
| 100   NEO fine cut saw                     | 136 |
| 100   Fine cut saw with double edged blade | 136 |
| 100   MICRO pull saw with metal blade      | 137 |
| 100   Drywall saw                          | 137 |
| 100   Pruning saw                          | 138 |
| 100   Large pruning saw                    | 138 |

# SAWS

Shark saw, the precision pull saw. With only 20 % of your physical power you cut 5 times more than with classical saws.

**HAIFISCHSÄGE**  
Die Präzisions-Zugsäge



## SHARKSAW

The shark saw has three cutting edges which allows cross and rip cutting. The electronic pulse hardening provides up to 3 times longer tool life and the teeth are individually ground by diamonds. In spite of the thin blade it is easy and safe to start sawing without bending or unevenness.

## SAW BLADE

The thinner the saw blade the faster the cut. This saw blade is made of high quality carbon steel. The thin saw blade allows thin, clean and flush cuts.



## CARPENTRY SAW

The carpentry saw is available in two different sizes. The 14 teeth/inch saw is suitable for general carpentry in plywood, treated wood, plastics and hard wood. The 10 teeth/inch saw is better suitable for beams, branches, framing timber, standing timber etc.



## FINE CUT SAW

The fine cut saw perfectly works in plywood, thin PVC, hard wood etc. With this saw fine and thin cuts can be made. Therefore the saw is suitable for model making.



## PRUNING SAW

The garden saw is suitable for timber, branches, construction timber and natural wood, ABS-and PVC pipes. The saw for gardening.



## DRYWALL SAW

The drywall saw is well suitable for interior works. It is for plasterboards, gypsum fiber boards, plywood, tree roots etc.

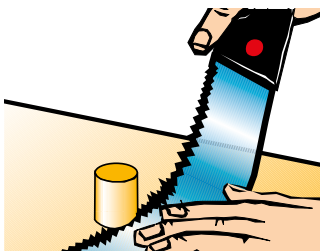
## EASY SAWING, EASY GOING

- Clamp the work piece or provide a firm support with stop in the direction of the pull.
- Check the work piece for obstructions (screws, nails, etc.). These may damage the saw.
- Maintain a cutting angle of less than 10°.
- The weight of the saw executes the cut on its own.
- Slightly increase the pressure on the saw once a small groove has been cut.
- Always pull the saw briskly and without great application of force.
- Use the full length of the saw blade by pulling the saw uniformly through.
- Always fit the protector over the teeth when finished. This ensures a long life of the shark saw.
- Store the saw safely away from children.



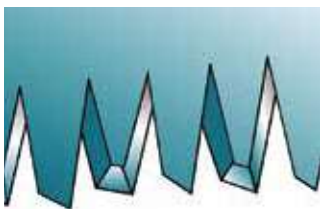
### PRECISION - THE PULL CUT

- Makes possible a thin saw blade
- Easy and safe start
- No bending, no unevenness
- Precise and controlled cut



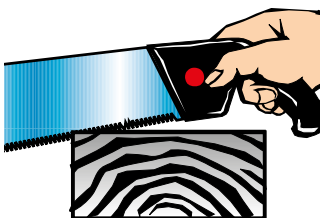
### PEED - THIN SAW BLADE

- The thinner the blade, the faster the cut
- Made of high-quality carbon steel
- Thin and clean cuts
- Flush cut due to the flexible blade



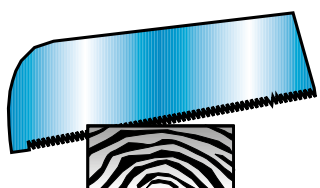
### HANDLING - TEETH

- The triple edge teeth make possible cross and rip cutting
- Electronic pulse hardening provides up to 3 times longer tool life
- The teeth are ground individually using diamond



### LITTLE FORCE REQUIRED

- Hold the handle lightly
- The pulling cut does not require great force or strength
- Guide the saw and let it make the cut itself using its own weight



### CUTTING ANGLE LESS THAN 10 °

- It is important that the cutting angle is less than 10°

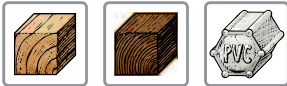
# CARPENTRY SAW | 100

## EXECUTION

- Replaceable saw blade
- Two-components safety handle



## FOR USE IN



- 14 teeth/inch suitable for general carpentry, plywood, treated material, PVC and ABS, hard wood, etc.
- 10 teeth/inch suitable for wooden beams, framing timber, treated material, standing timber, branches, etc.

| mm  | Teeth/inch | Packaging | EAN    | Product Code |
|-----|------------|-----------|--------|--------------|
| 300 | 14         | 4         | 530326 | 100 112 312  |
| 380 | 10         | 4         | 530340 | 100 112 415  |

## PACKAGING



[168]

### Comments

- Each 300 mm blades and 380 mm blades fit in the same handle

## REPLACEMENT SAW BLADE FOR CARPENTRY SAW



| mm  | Teeth/inch | Packaging | EAN    | Product Code |
|-----|------------|-----------|--------|--------------|
| 300 | 14         | 4         | 530333 | 100 022 312  |
| 380 | 10         | 4         | 530357 | 100 022 415  |

# FINE CUT SAW | 100

## EXECUTION

- Replaceable saw blade
- Two-components safety handle



## FOR USE IN



- For fine cuts, plywood, thin PVC, hard wood, etc.

| mm  | Teeth/inch | Packaging | EAN    | Product Code |
|-----|------------|-----------|--------|--------------|
| 270 | 19         | 4         | 530043 | 100 112 410  |

## PACKAGING



[168]

### Comments

- Well suitable for model making because it allows very fine and thin cuts

## REPLACEMENT SAW BLADE FOR FINE CUT SAW



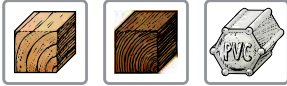
| mm  | Teeth/inch | Packaging | EAN    | Product Code |
|-----|------------|-----------|--------|--------------|
| 270 | 19         | 4         | 530050 | 100 022 410  |

# NEO FINE CUT SAW | 100

## EXECUTION

- Replaceable saw blade
- Traditionally long bast wrapped handle

## FOR USE IN



- 15 teeth/inch suitable for general fine cuts, plywood, furniture making, treated wood, etc.
- 12 teeth/inch suitable for general carpentry, plywood, treated material, PVC and ABS, hard wood, etc.

### Comments

- Each 265 mm blades and 300 mm blades fit in the same handle



| mm  | Teeth/inch | Packaging | EAN    | 12345       |
|-----|------------|-----------|--------|-------------|
| 265 | 15         | 4         | 530364 | 100 110 265 |
| 300 | 12         | 4         | 530388 | 100 110 300 |

## REPLACEMENT SAW BLADE FOR NEO FINE CUT SAW



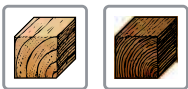
| mm  | Teeth/inch | Packaging | EAN    | 12345       |
|-----|------------|-----------|--------|-------------|
| 265 | 15         | 4         | 530371 | 100 020 265 |
| 300 | 12         | 4         | 530395 | 100 020 300 |

# FINE CUT SAW WITH DOUBLE EDGED BLADE | 100

## EXECUTION

- Replaceable saw blade
- Long handle

## FOR USE IN



- For flush cuts, stair cases, plywood and general fine cuts

## PACKAGING



[168]

## REPLACEMENT SAW BLADE WITH DOUBLE EDGE



| mm  | Teeth/inch | Packaging | EAN    | 12345       |
|-----|------------|-----------|--------|-------------|
| 240 | 9-17       | 4         | 530098 | 100 022 440 |

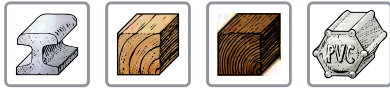


# MICRO PULL SAW WITH METAL BLADE | 100

## EXECUTION

- Replaceable saw blade
- Two-components handle

## FOR USE IN



- Fine cuts in softwood and hard wood
- Suitable for handicrafts and fine cut
- Replacement saw blade metal for cutting thin metal panels, aluminium and mild steel

## PACKAGING



[168]



|     |    |   |        |             |
|-----|----|---|--------|-------------|
|     |    |   |        |             |
| 160 | 29 | 4 | 530296 | 100 100 554 |

## REPLACEMENT SAW BLADE FOR MICRO PULL SAW



|     |    |   |        |                        |
|-----|----|---|--------|------------------------|
|     |    |   |        |                        |
| 160 | 19 | 4 | 530302 | für Holz 100 010 554   |
| 160 | 29 | 4 | 530319 | für Metall 100 010 555 |

# DRYWALL SAW | 100

## EXECUTION

- Ergonomically designed handle
- Extremely stiff and fixed blade
- Thinned tip

## FOR USE IN



- For plasterboard, fibrous plasterboard, gypsum, plywood, tree roots, etc.

### Comments

- Well suitable for interior works



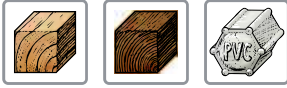
|     |   |   |        |             |
|-----|---|---|--------|-------------|
|     |   |   |        |             |
| 155 | 8 | 4 | 530401 | 100 112 206 |

# PRUNING SAW | 100

## EXECUTION

- Saw with folding blade
- Partially replaceable saw blade

## FOR USE IN



- Standing timber, branches, construction timber natural wood, ABS- and plastic tubes.

## PACKAGING



[168]

### Commenst

- Well suitable for gardening
- ECO model with a working length of 180 mm



| mm  | X" | Box | EAN    | 12345       |
|-----|----|-----|--------|-------------|
| 180 | 7  | 6   | 530135 | 100 105 418 |
| 210 | 9  | 4   | 530104 | 100 105 427 |

## REPLACEMENT SAW BLADE FOR PRUNING SAW



| mm  | X" | Box | EAN    | 12345       |
|-----|----|-----|--------|-------------|
| 180 | 7  | 1   | 530128 | 100 015 418 |
| 210 | 9  | 1   | 530111 | 100 015 427 |

# LARGE PRUNING SAW | 100

## EXECUTION

- With sheath and belt holder

## FOR USE IN



- Standing timber, branches, construction timber natural wood, ABS- and plastic tubes.

## PACKAGING



[168]

### Comments

- Well suitable for gardening



| mm  | X" | Box | EAN    | 12345       |
|-----|----|-----|--------|-------------|
| 240 | 7  | 10  | 530142 | 100 105 424 |

## REPLACEMENT SAW BLADE FOR PRUNING SAW



| mm  | X" | Box | EAN    | 12345       |
|-----|----|-----|--------|-------------|
| 240 | 7  | 1   | 530159 | 100 015 424 |

# ASSORTMENTS

EVERYTHING AT YOUR FINGERTIPS



Hammer drill bit  
Percussion drill bit  
Metal drill bit  
Wood drill bit

141-143  
144-145  
146-155  
156

# EVERYTHING AT YOUR FINGERTIPS

No matter if RoseBox, case or a sales display:

KEIL always offers a possibility to store your tools and to protect it from damage.



## ROSEBOX

The RoseBox is a tool cassette made of ABS plastic. It can be stacked and it is resistant against impact and breakage. In contrary to the classic metal cassettes the RoseBox does not rust and has no sharp edges. With its modern design it is a high quality storing box for professional tools.



## INDUSTRIAL PACKS/RECTANGLEPACK

In contrary to the craftsman the industrial user continuously needs the same diameter. For this purpose we offer HSS drill bits and hammer drill bits with SDS-plus drive in 10 pcs./respectively 5 pcs. of the same diameter in plastic pack.



## CASE

We offer high quality plastic and metal cases equipped with premium tools for various fields of applications, e.g. HSS bi-metal hole saws, HSS drill bits or drill bits for ceramics.



## MULTIPACK

MultiPacks can be found for many types of drill bits out of our assortment. These packs are impact-proofed and space saving. Within the tool presentation in the shops drilling tools are noticeable due to its transparent material.



## SALES DISPLAY

The KEIL sales displays provide presentation and storage of the tools with minimum space.




# HAMMER DRILL BITS




**251**

**MultiPack**  
**SDS-plus MS5 TURBOHEAD Xpro**

[12-13]

|   |  D<br>Ø mm |  L2<br>mm |  L1<br>mm |
|---|---|--|--|
| 1 | 5,0   | 50   | 110  |
| 1 | 6,0   | 50   | 110  |
| 1 | 6,0   | 100  | 160  |
| 1 | 8,0   | 100  | 160  |
| 1 | 10,0  | 100  | 160  |





 5 10 904745 251 350 510




**251**

**MultiPack**  
**SDS-plus MS5 TURBOHEAD Xpro**

[12-13]

|   |  D<br>Ø mm |  L2<br>mm |  L1<br>mm |
|---|---|--|--|
| 1 | 5,0   | 100  | 160  |
| 2 | 6,0   | 100  | 160  |
| 2 | 8,0   | 100  | 160  |
| 1 | 10,0  | 100  | 160  |
| 1 | 12,0  | 100  | 160  |





 7 10 904752 251 370 512




**251**

**RoseBox**  
**SDS-plus MS5 TURBOHEAD Xpro**

[12-13]

|   |  D<br>Ø mm |  L2<br>mm |  L1<br>mm |
|---|---|--|--|
| 1 | 5,0   | 50   | 110  |
| 1 | 6,0   | 50   | 110  |
| 1 | 6,0   | 100  | 160  |
| 1 | 8,0   | 50   | 110  |
| 1 | 8,0   | 100  | 160  |
| 1 | 10,0  | 100  | 160  |
| 1 | 12,0  | 100  | 160  |





 7 1 902505 251 500 512



**251**


**Display**  
**SDS-plus MS5 TURBOHEAD Xpro**

[12-13]

|    |  D<br>Ø mm |  L2<br>mm |  L1<br>mm |
|----|---|--|--|
| 15 | 5,0   | 50   | 110  |
| 30 | 6,0   | 50   | 110  |
| 30 | 6,0   | 100  | 160  |
| 15 | 8,0   | 50   | 110  |
| 30 | 8,0   | 100  | 160  |
| 10 | 10,0  | 100  | 160  |
| 10 | 12,0  | 100  | 160  |

RoseBox 5

Info flyer 50










 145 1 902512 251 801 145



**251**

**RectanglePack**  
**SDS-plus MS5 TURBOHEAD Xpro**

[12-13]

|  D<br>Ø mm |  D<br>Ø " |  L2<br>mm |  L1<br>mm |  |  |  |  |
|---|--|--|--|--|---|---|---|
| 5,0   | 3/16   | 50   | 110  | 10   | 1   | 902703  | 251 950 110   |
| 5,0   | 3/16   | 100  | 160  | 10   | 1   | 902710  | 251 950 160   |
| 6,0   | 15/64  | 50   | 110  | 10   | 1   | 902727  | 251 960 110   |
| 6,0   | 15/64  | 100  | 160  | 10   | 1   | 902734  | 251 960 160   |
| 6,0   | 15/64  | 150  | 210  | 10   | 1   | 902741  | 251 960 210   |
| 6,0   | 15/64  | 200  | 260  | 10   | 1   | 902758  | 251 960 260   |
| 8,0   | 5/16   | 50   | 110  | 10   | 1   | 902765  | 251 980 110   |
| 8,0   | 5/16   | 100  | 160  | 10   | 1   | 902772  | 251 980 160   |
| 8,0   | 5/16   | 150  | 210  | 10   | 1   | 902789  | 251 980 210   |
| 8,0   | 5/16   | 200  | 260  | 10   | 1   | 902796  | 251 980 260   |
| 10,0  | 3/8  | 100  | 160  | 10   | 1   | 902811  | 251 900 160   |
| 10,0  | 3/8  | 150  | 210  | 10   | 1   | 902828  | 251 900 210   |
| 10,0  | 3/8  | 200  | 260  | 10   | 1   | 902835  | 251 900 260   |
| 12,0  | 15/32  | 100  | 160  | 10   | 1   | 902842  | 251 920 160   |
| 12,0  | 15/32  | 150  | 210  | 10   | 1   | 902859  | 251 920 210   |
| 12,0  | 15/32  | 200  | 260  | 10   | 1   | 902866  | 251 920 260   |
| 14,0  | 17/32  | 100  | 160  | 5  | 1   | 902873  | 251 940 160   |
| 14,0  | 17/32  | 150  | 210  | 5  | 1   | 902880  | 251 940 210   |
| 14,0  | 17/32  | 200  | 260  | 5  | 1   | 902897  | 251 940 260   |

# HAMMER DRILL BITS

HAMMER DRILL BITS

CHISEL

STONE AND SPECIAL DRILL BITS

METAL DRILL BITS

WOOD DRILL BITS

SAWS

ASSORTMENTS




MODULES - SHELVES







**253**

**MultiPack  
SDS-plus MS5 TURBOKEIL**

[17-19]

|   |  |  |  |
|---|---|---|---|
|   | Ø mm  | mm  | mm  |
| 1 | 5,0   | 50  | 110   |
| 1 | 6,0   | 50  | 110   |
| 1 | 6,0   | 100   | 160   |
| 1 | 8,0   | 100   | 160   |
| 1 | 10,0  | 100   | 160   |




5    10    904790    253 350 510







**253**

**MultiPack  
SDS-plus MS5 TURBOKEIL**

[17-19]

|   |  |  |  |
|---|---|---|---|
|   | Ø mm  | mm  | mm  |
| 1 | 5,0   | 100   | 160   |
| 2 | 6,0   | 100   | 160   |
| 2 | 8,0   | 100   | 160   |
| 1 | 10,0  | 100   | 160   |
| 1 | 12,0  | 100   | 160   |




7    10    904806    253 370 512







**253**

**RoseBox  
SDS-plus MS5 TURBOKEIL**

[17-19]

|   |  |  |  |
|---|---|---|---|
|   | Ø mm  | mm  | mm  |
| 1 | 5,0   | 50  | 110   |
| 1 | 6,0   | 50  | 110   |
| 1 | 6,0   | 100   | 160   |
| 1 | 8,0   | 50  | 110   |
| 1 | 8,0   | 100   | 160   |
| 1 | 10,0  | 100   | 160   |
| 1 | 12,0  | 100   | 160   |





7    1    322396    253 500 512







**253**    **502**

**RoseBox  
SDS-plus MS5 TURBOKEIL**

[17+42]

|              |  |  |  |  |
|--------------|---|---|---|---|
|              | Ø mm  | mm  | mm  | mm  |
| 2            | 6,0   | 100   | 160   |   |
| 1            | 8,0   | 100   | 160   |   |
| 1            | 10,0  | 100   | 160   |   |
| 1            | 12,0  | 100   | 160   |   |
| Point chisel | 1   |   | 140   |   |
| Flat chisel  | 1   |   | 140   | 20  |









7    1    329944    253 273 274



**253**

**RectanglePack  
SDS-plus MS5 TURBOKEIL**

[17-19]

|      |  |  |  |  |  |  |  |  |
|------|---|---|---|---|---|---|---|---|
|      | Ø mm  | Ø "   | mm  | mm  |   |   | 4016707...  | T2345   |
| 5,0  | 3/16  | 50  | 110   | 10  | 1   | 322211  | 253 950 115   |   |
| 5,0  | 3/16  | 100   | 160   | 10  | 1   | 322228  | 253 950 165   |   |
| 6,0  | 15/64   | 50  | 110   | 10  | 1   | 322235  | 253 960 115   |   |
| 6,0  | 15/64   | 100   | 160   | 10  | 1   | 322242  | 253 960 165   |   |
| 6,0  | 15/64   | 150   | 210   | 10  | 1   | 323539  | 253 960 210   |   |
| 6,0  | 15/64   | 200   | 260   | 10  | 1   | 323461  | 253 960 260   |   |
| 8,0  | 5/16  | 50  | 110   | 10  | 1   | 322259  | 253 980 115   |   |
| 8,0  | 5/16  | 100   | 160   | 10  | 1   | 322266  | 253 980 160   |   |
| 8,0  | 5/16  | 150   | 210   | 10  | 1   | 322273  | 253 980 215   |   |
| 8,0  | 5/16  | 200   | 260   | 10  | 1   | 323478  | 253 980 260   |   |
| 10,0 | 3/8   | 50  | 110   | 10  | 1   | 322655  | 253 900 110   |   |
| 10,0 | 3/8   | 100   | 160   | 10  | 1   | 322280  | 253 900 165   |   |
| 10,0 | 3/8   | 150   | 210   | 10  | 1   | 322297  | 253 900 210   |   |
| 10,0 | 3/8   | 200   | 260   | 10  | 1   | 323485  | 253 900 260   |   |
| 12,0 | 15/32   | 100   | 160   | 10  | 1   | 322303  | 253 920 165   |   |
| 12,0 | 15/32   | 150   | 210   | 10  | 1   | 322310  | 253 920 215   |   |
| 12,0 | 15/32   | 200   | 260   | 10  | 1   | 323492  | 253 920 265   |   |
| 14,0 | 17/32   | 100   | 160   | 5   | 1   | 323508  | 253 940 165   |   |
| 14,0 | 17/32   | 150   | 210   | 5   | 1   | 323515  | 253 940 215   |   |
| 14,0 | 17/32   | 200   | 260   | 5   | 1   | 323522  | 253 940 265   |   |




# HAMMER DRILL BITS







256

## MultiPack SDS-plus hammer drill bit KEILRAPID

[22]

|   |  |  |  |
|---|---|---|---|
|   | Ø mm  | mm  | mm  |
| 1 | 5,0   | 50  | 110   |
| 1 | 6,0   | 50  | 110   |
| 1 | 6,0   | 100   | 160   |
| 1 | 8,0   | 100   | 160   |
| 1 | 10,0  | 100   | 160   |




|   |   |   |   |
|---|---|---|---|
|  |  |  |  |
| 5   | 10  | 920165  | 256 350 510   |







256

## MultiPack SDS-plus hammer drill bit KEILRAPID

[22]

|   |  |  |  |
|---|---|---|---|
|   | Ø mm  | mm  | mm  |
| 1 | 5,0   | 100   | 160   |
| 2 | 6,0   | 100   | 160   |
| 2 | 8,0   | 100   | 160   |
| 1 | 10,0  | 100   | 160   |
| 1 | 12,0  | 100   | 160   |









|  |   |   |   |
|--|---|---|---|
|  |  |  |  |
| 7  | 10  | 920158  | 256 370 512   |



256

## RectanglePack SDS-plus hammer drill bit KEILRAPID

[22]

|  |  |  |  |  |  |  |  |
|---|---|---|---|--|---|---|---|
| Ø mm  | Ø "   | mm  | mm  |  |   | 4016707   | 12345   |
| 5,0   | 3/16  | 50  | 110   | 10   | 1   | 920172  | 256 950 110   |
| 5,0   | 3/16  | 100   | 160   | 10   | 1   | 920189  | 256 950 160   |
| 6,0   | 15/64   | 50  | 110   | 10   | 1   | 920196  | 256 960 110   |
| 6,0   | 15/64   | 100   | 160   | 10   | 1   | 920202  | 256 960 160   |
| 6,0   | 15/64   | 150   | 210   | 10   | 1   | 920219  | 256 960 210   |
| 6,0   | 15/64   | 200   | 260   | 10   | 1   | 920226  | 256 960 260   |
| 8,0   | 5/16  | 50  | 110   | 10   | 1   | 920233  | 256 980 110   |
| 8,0   | 5/16  | 100   | 160   | 10   | 1   | 920240  | 256 980 160   |
| 8,0   | 5/16  | 150   | 210   | 10   | 1   | 920257  | 256 980 210   |
| 8,0   | 5/16  | 200   | 260   | 10   | 1   | 920264  | 256 980 260   |
| 10,0  | 3/8   | 50  | 110   | 10   | 1   | 921131  | 256 900 110   |
| 10,0  | 3/8   | 100   | 160   | 10   | 1   | 920271  | 256 900 160   |
| 10,0  | 3/8   | 150   | 210   | 10   | 1   | 920288  | 256 900 210   |
| 10,0  | 3/8   | 200   | 260   | 10   | 1   | 920295  | 256 900 260   |
| 12,0  | 15/32   | 100   | 160   | 10   | 1   | 920301  | 256 920 160   |
| 12,0  | 15/32   | 150   | 210   | 10   | 1   | 920318  | 256 920 210   |
| 12,0  | 15/32   | 200   | 260   | 10   | 1   | 920325  | 256 920 260   |
| 14,0  | 17/32   | 100   | 160   | 5  | 1   | 920332  | 256 940 160   |
| 14,0  | 17/32   | 150   | 210   | 5  | 1   | 920349  | 256 940 210   |
| 14,0  | 17/32   | 200   | 250   | 5  | 1   | 920356  | 256 940 250   |

HAMMER DRILL BITS

CHISEL

STONE AND SPECIAL DRILL BITS

METAL DRILL BITS

WOOD DRILL BITS

SAWS

ASSORTMENTS

MODULES - SHELVES

# STONE AND SPECIAL DRILL BITS

HAMMER DRILL BITS

CHISEL

STONE AND SPECIAL DRILL BITS

METAL DRILL BITS

WOOD DRILL BITS

SAWS

ASSORTMENTS

MODULES - SHELVES



119

## MultiPack Universal drill bit GOLDCRAFT

[48]

| 1 |  | 4,0  | 40 | 75  |
|---|--|------|----|-----|
| 1 |  | 5,0  | 50 | 85  |
| 1 |  | 6,0  | 60 | 100 |
| 1 |  | 8,0  | 80 | 120 |
| 1 |  | 10,0 | 80 | 120 |

5 10 904820 119 350 410



119

## MultiPack Universal drill bit GOLDCRAFT

[48]

| 1 |  | 4,0  | 40 | 75  |
|---|--|------|----|-----|
| 1 |  | 5,0  | 50 | 85  |
| 2 |  | 6,0  | 60 | 100 |
| 1 |  | 8,0  | 80 | 120 |
| 1 |  | 10,0 | 80 | 120 |
| 1 |  | 12,0 | 90 | 150 |

7 10 904837 119 370 412



119

## RoseBox Universal drill bit GOLDCRAFT

[48]

| 1 |  | 4,0  | 40 | 75  |
|---|--|------|----|-----|
| 1 |  | 5,0  | 50 | 85  |
| 2 |  | 6,0  | 60 | 100 |
| 1 |  | 8,0  | 80 | 120 |
| 1 |  | 10,0 | 80 | 120 |
| 1 |  | 12,0 | 90 | 150 |

7 1 212628 119 501 412



151

## MultiPack Tile/brick drill bit KERAMIK with TSM carbide tip

[52]

| 1 |  | 4,0  | 40 | 75  |
|---|--|------|----|-----|
| 1 |  | 5,0  | 50 | 85  |
| 1 |  | 6,0  | 60 | 100 |
| 1 |  | 8,0  | 80 | 120 |
| 1 |  | 10,0 | 80 | 120 |

5 10 904868 151 350 410



786

## Plastic case Tile drill bit/KERAMIK diamond - dry drill

[54]

| KERAMIK Diamond            | 1 | 6,0  |    | 67  |
|----------------------------|---|------|----|-----|
| KERAMIK Diamond            | 1 | 8,0  |    | 80  |
| KERAMIK Diamond            | 1 | 10,0 |    | 80  |
| Spray bottle 100ml (empty) | 1 |      |    |     |
| Vacuum guide small 4-13mm  | 1 |      |    |     |
| KERAMIK TSM                | 1 | 4,0  | 40 | 75  |
| KERAMIK TSM                | 1 | 5,0  | 50 | 85  |
| KERAMIK TSM                | 1 | 6,0  | 60 | 100 |

8 1 905834 786 151 098



168

## MultiPack Hard stone drill bit HARDTEC

[51]

| 1 |  | 4,0  | 40 | 75  |
|---|--|------|----|-----|
| 1 |  | 5,0  | 50 | 85  |
| 1 |  | 6,0  | 60 | 100 |
| 1 |  | 8,0  | 75 | 120 |
| 1 |  | 10,0 | 75 | 120 |

5 10 916045 168 350 410



715

## Cardboard box Universal hollow core

[65]

| Universal hollow core | 1 | 33,0 |     |
|-----------------------|---|------|-----|
| Universal hollow core | 1 | 53,0 |     |
| Universal hollow core | 1 | 67,0 |     |
| Universal hollow core | 1 | 73,0 |     |
| Locating plate        | 1 |      |     |
| Centre drill bits     | 1 | 9,0  | 140 |

6 1 250019 715 033 073








# STONE AND SPECIAL DRILL BITS






258

## MultiPack Concrete drill bit MS5 TURBOKEIL

[60]

|   |  D<br>Ø mm |  L2<br>mm |  L1<br>mm |
|---|---|--|--|
| 1 | 4,0   | 40   | 85   |
| 1 | 5,0   | 50   | 85   |
| 1 | 6,0   | 60   | 100  |
| 1 | 8,0   | 75   | 120  |
| 1 | 10,0  | 75   | 120  |


 4016707...
  12345




5 10 904929 258 350 410






154

## MultiPack Granite drill bit PRIMUS

[61]

|   |  D<br>Ø mm |  L2<br>mm |  L1<br>mm |
|---|---|--|--|
| 1 | 4,0   | 40   | 75   |
| 1 | 5,0   | 50   | 85   |
| 1 | 6,0   | 60   | 100  |
| 1 | 8,0   | 80   | 120  |
| 1 | 10,0  | 80   | 120  |


 4016707...
  12345




5 10 904899 154 350 410






154

## MultiPack Granite drill bit PRIMUS

[61]

|   |  D<br>Ø mm |  L2<br>mm |  L1<br>mm |
|---|---|--|--|
| 1 | 4,0   | 40   | 75   |
| 1 | 5,0   | 50   | 85   |
| 2 | 6,0   | 60   | 100  |
| 1 | 8,0   | 80   | 120  |
| 1 | 10,0  | 80   | 120  |
| 1 | 12,0  | 90   | 150  |


 4016707...
  12345




7 10 904905 154 370 412






154

## RoseBox Granite drill bit PRIMUS

[61]

|   |  D<br>Ø mm |  L2<br>mm |  L1<br>mm |
|---|---|--|--|
| 1 | 4,0   | 40   | 75   |
| 1 | 5,0   | 50   | 85   |
| 2 | 6,0   | 60   | 100  |
| 1 | 8,0   | 80   | 120  |
| 1 | 10,0  | 80   | 120  |
| 1 | 12,0  | 90   | 150  |


 4016707...
  12345




7 1 192951 154 501 412






150

## MultiPack Percussion drill bit KEILER

[62-63]

|   |  D<br>Ø mm |  L2<br>mm |  L1<br>mm |
|---|---|--|--|
| 1 | 4,0   | 40   | 75   |
| 1 | 5,0   | 50   | 85   |
| 1 | 6,0   | 60   | 100  |
| 1 | 8,0   | 80   | 120  |
| 1 | 10,0  | 80   | 120  |


 4016707...
  12345




5 10 904851 150 350 410






190

## MultiPack Masonry drill bit OPAL

[64]

|   |  D<br>Ø mm |  L2<br>mm |  L1<br>mm |
|---|---|--|--|
| 1 | 4,0   | 40   | 75   |
| 1 | 5,0   | 50   | 85   |
| 1 | 6,0   | 60   | 100  |
| 1 | 8,0   | 80   | 120  |
| 1 | 10,0  | 80   | 120  |


 4016707...
  12345




5 10 904912 190 350 410






166

## MultiPack Universal drill bit KEILBIT

[58]

|   |  D<br>Ø mm |  L2<br>mm |  L1<br>mm |
|---|---|--|--|
| 1 | 4,0   | 45   | 85   |
| 1 | 5,0   | 50   | 95   |
| 1 | 6,0   | 60   | 100  |
| 1 | 8,0   | 70   | 120  |
| 1 | 10,0  | 70   | 120  |


 4016707...
  12345




5 10 220074 166 350 410






238

## MultiPack Concrete drill bit MS5 TURBOHEAD Xpro

[59]

|   |  D<br>Ø mm |  L2<br>mm |  L1<br>mm |
|---|---|--|--|
| 1 | 5,0   | 50   | 85   |
| 1 | 6,0   | 60   | 100  |
| 1 | 6,0   | 60   | 100  |
| 1 | 8,0   | 75   | 120  |
| 1 | 10,0  | 75   | 120  |


 4016707...
  12345

5 10 912795 238 350 410



# METAL DRILL BITS

HAMMER DRILL BITS

CHISEL

STONE AND SPECIAL DRILL BITS

METAL DRILL BITS

WOOD DRILL BITS

SAWS

ASSORTMENTS




MODULES - SHELVES






**307**

**MultiPack**  
HSS-E DIN 338 cobalt, ground, split point

[76-78]

|   |  |  |  |
|---|---|---|---|
|   | D<br>Ø mm   | L2<br>mm  | L1<br>mm  |
| 1 | 4,0   | 43  | 75  |
| 1 | 5,0   | 52  | 86  |
| 1 | 6,0   | 57  | 93  |
| 1 | 8,0   | 75  | 117   |
| 1 | 10,0  | 87  | 133   |




5 10 904950 307 350 410






**307**

**Plastic cassette**  
HSS-E DIN 338 cobalt, ground, split point

[76-78]

|   |  |  |  |
|---|---|---|---|
|   | D<br>Ø mm   | L2<br>mm  | L1<br>mm  |
| 1 | 1,5   | 18  | 40  |
| 1 | 2,0   | 24  | 49  |
| 1 | 2,5   | 30  | 57  |
| 1 | 3,0   | 33  | 61  |
| 1 | 3,2   | 36  | 65  |
| 1 | 3,5   | 39  | 70  |
| 1 | 4,0   | 43  | 75  |
| 1 | 4,5   | 47  | 80  |
| 1 | 4,8   | 52  | 86  |
| 1 | 5,0   | 52  | 86  |
| 1 | 5,5   | 57  | 93  |
| 1 | 6,0   | 57  | 93  |
| 1 | 6,5   | 63  | 101   |




13 10 062506 307 213 165






**307**

**RoseBox**  
HSS-E DIN 338 cobalt, ground, split point

[76-78]

|   |  |  |  |
|---|---|---|---|
|   | D<br>Ø mm   | L2<br>mm  | L1<br>mm  |
| 1 | 1,0   | 12  | 34  |
| 1 | 1,5   | 18  | 40  |
| 1 | 2,0   | 24  | 49  |
| 1 | 2,5   | 30  | 57  |
| 1 | 3,0   | 33  | 61  |
| 1 | 3,5   | 39  | 70  |
| 1 | 4,0   | 43  | 75  |
| 1 | 4,5   | 47  | 80  |
| 1 | 5,0   | 52  | 86  |
| 1 | 5,5   | 57  | 93  |
| 1 | 6,0   | 57  | 93  |
| 1 | 6,5   | 63  | 101   |
| 1 | 7,0   | 69  | 109   |
| 1 | 7,5   | 69  | 109   |
| 1 | 8,0   | 75  | 117   |
| 1 | 8,5   | 75  | 117   |
| 1 | 9,0   | 81  | 125   |
| 1 | 9,5   | 81  | 125   |
| 1 | 10,0  | 87  | 133   |




19 1 065507 307 501 110






**307**

**Metal box**  
HSS-E DIN 338 cobalt, ground, split point

[76-78]

|   |  |  |  |
|---|---|---|---|
|   | D<br>Ø mm   | L2<br>mm  | L1<br>mm  |
| 1 | 1,0   | 12  | 34  |
| 1 | 1,5   | 18  | 40  |
| 1 | 2,0   | 24  | 49  |
| 1 | 2,5   | 30  | 57  |
| 1 | 3,0   | 33  | 61  |
| 1 | 3,5   | 39  | 70  |
| 1 | 4,0   | 43  | 75  |
| 1 | 4,5   | 47  | 80  |
| 1 | 5,0   | 52  | 86  |
| 1 | 5,5   | 57  | 93  |
| 1 | 6,0   | 57  | 93  |
| 1 | 6,5   | 63  | 101   |
| 1 | 7,0   | 69  | 109   |
| 1 | 7,5   | 69  | 109   |
| 1 | 8,0   | 75  | 117   |
| 1 | 8,5   | 75  | 117   |
| 1 | 9,0   | 81  | 125   |
| 1 | 9,5   | 81  | 125   |
| 1 | 10,0  | 87  | 133   |

19 1 062513 307 500 110




# METAL DRILL BITS







**307**

**RoseBox**  
HSS-E DIN 338 cobalt, ground,  
split point

[76-78]

|   |  D<br>Ø mm |  L2<br>mm |  L1<br>mm |
|---|---|--|--|
| 1 | 1,0   | 12   | 34   |
| 1 | 1,5   | 18   | 40   |
| 1 | 2,0   | 24   | 49   |
| 1 | 2,5   | 30   | 57   |
| 1 | 3,0   | 33   | 61   |
| 1 | 3,5   | 39   | 70   |
| 1 | 4,0   | 43   | 75   |
| 1 | 4,5   | 47   | 80   |
| 1 | 5,0   | 52   | 86   |
| 1 | 5,5   | 57   | 93   |
| 1 | 6,0   | 57   | 93   |
| 1 | 6,5   | 63   | 101  |
| 1 | 7,0   | 69   | 109  |
| 1 | 7,5   | 69   | 109  |
| 1 | 8,0   | 75   | 117  |
| 1 | 8,5   | 75   | 117  |
| 1 | 9,0   | 81   | 125  |
| 1 | 9,5   | 81   | 125  |
| 1 | 10,0  | 87   | 133  |
| 1 | 10,5  | 87   | 133  |
| 1 | 11,0  | 94   | 142  |
| 1 | 11,5  | 94   | 142  |
| 1 | 12,0  | 101  | 151  |
| 1 | 12,5  | 101  | 151  |
| 1 | 13,0  | 101  | 151  |




25 1 065514 307 501 113







**307**

**Metal box**  
HSS-E DIN 338 cobalt, ground,  
split point

[76-78]

|   |  D<br>Ø mm |  L2<br>mm |  L1<br>mm |
|---|---|--|--|
| 1 | 1,0   | 12   | 34   |
| 1 | 1,5   | 18   | 40   |
| 1 | 2,0   | 24   | 49   |
| 1 | 2,5   | 30   | 57   |
| 1 | 3,0   | 33   | 61   |
| 1 | 3,5   | 39   | 70   |
| 1 | 4,0   | 43   | 75   |
| 1 | 4,5   | 47   | 80   |
| 1 | 5,0   | 52   | 86   |
| 1 | 5,5   | 57   | 93   |
| 1 | 6,0   | 57   | 93   |
| 1 | 6,5   | 63   | 101  |
| 1 | 7,0   | 69   | 109  |
| 1 | 7,5   | 69   | 109  |
| 1 | 8,0   | 75   | 117  |
| 1 | 8,5   | 75   | 117  |
| 1 | 9,0   | 81   | 125  |
| 1 | 9,5   | 81   | 125  |
| 1 | 10,0  | 87   | 133  |
| 1 | 10,5  | 87   | 133  |
| 1 | 11,0  | 94   | 142  |
| 1 | 11,5  | 94   | 142  |
| 1 | 12,0  | 101  | 151  |
| 1 | 12,5  | 101  | 151  |
| 1 | 13,0  | 101  | 151  |




25 1 062520 307 500 113







**307**

**Metal case**  
HSS-E DIN 338 cobalt, ground,  
split point

[76-78]

|    |  D<br>Ø mm |  L2<br>mm |  L1<br>mm |
|----|---|--|--|
| 10 | 1,0   | 12   | 34   |
| 10 | 1,5   | 18   | 40   |
| 10 | 2,0   | 24   | 49   |
| 10 | 2,5   | 30   | 57   |
| 10 | 3,0   | 33   | 61   |
| 10 | 3,5   | 39   | 70   |
| 10 | 4,0   | 43   | 75   |
| 10 | 4,5   | 47   | 80   |
| 10 | 5,0   | 52   | 86   |
| 10 | 5,5   | 57   | 93   |
| 10 | 6,0   | 57   | 93   |
| 10 | 6,5   | 63   | 101  |
| 10 | 7,0   | 69   | 109  |
| 10 | 7,5   | 69   | 109  |
| 10 | 8,0   | 75   | 117  |
| 5  | 8,5   | 75   | 117  |
| 5  | 9,0   | 81   | 125  |
| 5  | 9,5   | 81   | 125  |
| 5  | 10,0  | 87   | 133  |

170 1 062537 307 800 170

HAMMER DRILL BITS

CHISEL

STONE AND SPECIAL DRILL BITS

METAL DRILL BITS

WOOD DRILL BITS

SAWS

ASSORTMENTS

MODULES - SHELVES



# METAL DRILL BITS

HAMMER DRILL BITS

CHISEL

STONE AND SPECIAL DRILL BITS

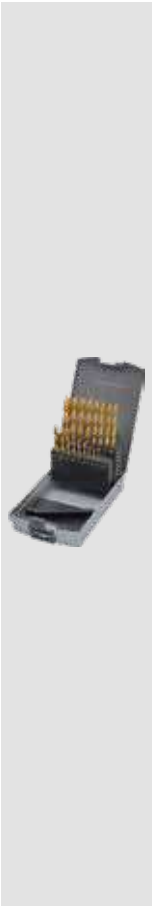
METAL DRILL BITS

WOOD DRILL BITS

SAWS

ASSORTMENTS





MODULES - SHELVES







311

RoseBox  
HSS TIN DIN 338 steel drill bit

[80]

|   |  |  |  |  |
|---|---|---|---|---|
|   | $\varnothing$ mm  | mm  | mm  | mm  |
| 1 | 1,0   | 12  | 34  |   |
| 1 | 1,5   | 18  | 40  |   |
| 1 | 2,0   | 24  | 49  |   |
| 1 | 2,5   | 30  | 57  |   |
| 1 | 3,0   | 33  | 61  |   |
| 1 | 3,5   | 39  | 70  |   |
| 1 | 4,0   | 43  | 75  |   |
| 1 | 4,5   | 47  | 80  |   |
| 1 | 5,0   | 52  | 86  |   |
| 1 | 5,5   | 57  | 93  |   |
| 1 | 6,0   | 57  | 93  |   |
| 1 | 6,5   | 63  | 101   |   |
| 1 | 7,0   | 69  | 109   |   |
| 1 | 7,5   | 69  | 109   |   |
| 1 | 8,0   | 75  | 117   |   |
| 1 | 8,5   | 75  | 117   |   |
| 1 | 9,0   | 81  | 125   |   |
| 1 | 9,5   | 81  | 125   |   |
| 1 | 10,0  | 87  | 133   |   |





|   |   |   |   |
|---|---|---|---|
|  |  |  |  |
| 19  | 1   | 920653  | 311 501 110   |







311

RoseBox  
HSS TIN DIN 338 steel drill bit

[80]

|   |  |  |  |  |
|---|---|---|---|---|
|   | $\varnothing$ mm  | mm  | mm  | mm  |
| 1 | 1,0   | 12  | 34  |   |
| 1 | 1,5   | 18  | 40  |   |
| 1 | 2,0   | 24  | 49  |   |
| 1 | 2,5   | 30  | 57  |   |
| 1 | 3,0   | 33  | 61  |   |
| 1 | 3,5   | 39  | 70  |   |
| 1 | 4,0   | 43  | 75  |   |
| 1 | 4,5   | 47  | 80  |   |
| 1 | 5,0   | 52  | 86  |   |
| 1 | 5,5   | 57  | 93  |   |
| 1 | 6,0   | 57  | 93  |   |
| 1 | 6,5   | 63  | 101   |   |
| 1 | 7,0   | 69  | 109   |   |
| 1 | 7,5   | 69  | 109   |   |
| 1 | 8,0   | 75  | 117   |   |
| 1 | 8,5   | 75  | 117   |   |
| 1 | 9,0   | 81  | 125   |   |
| 1 | 9,5   | 81  | 125   |   |
| 1 | 10,0  | 87  | 133   |   |
| 1 | 10,5  | 87  | 133   |   |
| 1 | 11,0  | 94  | 142   |   |
| 1 | 11,5  | 94  | 142   |   |
| 1 | 12,0  | 101   | 151   |   |
| 1 | 12,5  | 101   | 151   |   |
| 1 | 13,0  | 101   | 151   |   |

|  |   |   |   |
|--|---|---|---|
|  |  |  |  |
| 25   | 1   | 920660  | 311 501 113   |




# METAL DRILL BITS







**302**

**MultiPack**  
HSS DIN 338 ground, split point

[82-84]

|   |  |  |  |
|---|---|---|---|
|   | Ø mm  | mm  | mm  |
| 1 | 4,0   | 43  | 75  |
| 1 | 5,0   | 52  | 86  |
| 1 | 6,0   | 57  | 93  |
| 1 | 8,0   | 75  | 117   |
| 1 | 10,0  | 87  | 133   |




5 10 904943 302 350 410







**302**

**Plastic cassette**  
HSS DIN 338 ground, split point

[82-84]

|   |  |  |  |
|---|---|---|---|
|   | Ø mm  | mm  | mm  |
| 1 | 1,5   | 18  | 40  |
| 1 | 2,0   | 24  | 49  |
| 1 | 2,5   | 30  | 57  |
| 1 | 3,0   | 33  | 61  |
| 1 | 3,2   | 36  | 65  |
| 1 | 3,5   | 39  | 70  |
| 1 | 4,0   | 43  | 75  |
| 1 | 4,5   | 47  | 80  |
| 1 | 4,8   | 52  | 86  |
| 1 | 5,0   | 52  | 86  |
| 1 | 5,5   | 57  | 93  |
| 1 | 6,0   | 57  | 93  |
| 1 | 6,5   | 63  | 101   |




13 10 122200 302 213 165







**302**

**RoseBox**  
HSS DIN 338 ground, split point

[82-84]

|   |  |  |  |
|---|---|---|---|
|   | Ø mm  | mm  | mm  |
| 1 | 1,0   | 12  | 34  |
| 1 | 1,5   | 18  | 40  |
| 1 | 2,0   | 24  | 49  |
| 1 | 2,5   | 30  | 57  |
| 1 | 3,0   | 33  | 61  |
| 1 | 3,5   | 39  | 70  |
| 1 | 4,0   | 43  | 75  |
| 1 | 4,5   | 47  | 80  |
| 1 | 5,0   | 52  | 86  |
| 1 | 5,5   | 57  | 93  |
| 1 | 6,0   | 57  | 93  |
| 1 | 6,5   | 63  | 101   |
| 1 | 7,0   | 69  | 109   |
| 1 | 7,5   | 69  | 109   |
| 1 | 8,0   | 75  | 117   |
| 1 | 8,5   | 75  | 117   |
| 1 | 9,0   | 81  | 125   |
| 1 | 9,5   | 81  | 125   |
| 1 | 10,0  | 87  | 133   |




19 1 122224 302 501 110







**302**

**Metal box**  
HSS DIN 338 ground, split point

[82-84]

|   |  |  |  |
|---|---|---|---|
|   | Ø mm  | mm  | mm  |
| 1 | 1,0   | 12  | 34  |
| 1 | 1,5   | 18  | 40  |
| 1 | 2,0   | 24  | 49  |
| 1 | 2,5   | 30  | 57  |
| 1 | 3,0   | 33  | 61  |
| 1 | 3,5   | 39  | 70  |
| 1 | 4,0   | 43  | 75  |
| 1 | 4,5   | 47  | 80  |
| 1 | 5,0   | 52  | 86  |
| 1 | 5,5   | 57  | 93  |
| 1 | 6,0   | 57  | 93  |
| 1 | 6,5   | 63  | 101   |
| 1 | 7,0   | 69  | 109   |
| 1 | 7,5   | 69  | 109   |
| 1 | 8,0   | 75  | 117   |
| 1 | 8,5   | 75  | 117   |
| 1 | 9,0   | 81  | 125   |
| 1 | 9,5   | 81  | 125   |
| 1 | 10,0  | 87  | 133   |

19 1 120350 302 500 110

HAMMER DRILL BITS

CHISEL

STONE AND SPECIAL DRILL BITS

METAL DRILL BITS

WOOD DRILL BITS

SAWS

ASSORTMENTS

MODULES - SHELVES

# METAL DRILL BITS

HAMMER DRILL BITS

CHISEL

STONE AND SPECIAL DRILL BITS

METAL DRILL BITS

WOOD DRILL BITS

SAWS

ASSORTMENTS




MODULES - SHELVES



302

## RoseBox HSS DIN 338 ground, split point

[82-84]

|   |  D<br>Ø mm |  L2<br>mm |  L1<br>mm |
|---|---|--|--|
| 1 | 1,0   | 12   | 34   |
| 1 | 1,5   | 18   | 40   |
| 1 | 2,0   | 24   | 49   |
| 1 | 2,5   | 30   | 57   |
| 1 | 3,0   | 33   | 61   |
| 1 | 3,5   | 39   | 70   |
| 1 | 4,0   | 43   | 75   |
| 1 | 4,5   | 47   | 80   |
| 1 | 5,0   | 52   | 86   |
| 1 | 5,5   | 57   | 93   |
| 1 | 6,0   | 57   | 93   |
| 1 | 6,5   | 63   | 101  |
| 1 | 7,0   | 69   | 109  |
| 1 | 7,5   | 69   | 109  |
| 1 | 8,0   | 75   | 117  |
| 1 | 8,5   | 75   | 117  |
| 1 | 9,0   | 81   | 125  |
| 1 | 9,5   | 81   | 125  |
| 1 | 10,0  | 87   | 133  |
| 1 | 10,5  | 87   | 133  |
| 1 | 11,0  | 94   | 142  |
| 1 | 11,5  | 94   | 142  |
| 1 | 12,0  | 101  | 151  |
| 1 | 12,5  | 101  | 151  |
| 1 | 13,0  | 101  | 151  |








25 1 122231 302 501 113

302

## Metal box HSS DIN 338 ground, split point

[82-84]

|   |  D<br>Ø mm |  L2<br>mm |  L1<br>mm |
|---|---|--|--|
| 1 | 1,0   | 12   | 34   |
| 1 | 1,5   | 18   | 40   |
| 1 | 2,0   | 24   | 49   |
| 1 | 2,5   | 30   | 57   |
| 1 | 3,0   | 33   | 61   |
| 1 | 3,5   | 39   | 70   |
| 1 | 4,0   | 43   | 75   |
| 1 | 4,5   | 47   | 80   |
| 1 | 5,0   | 52   | 86   |
| 1 | 5,5   | 57   | 93   |
| 1 | 6,0   | 57   | 93   |
| 1 | 6,5   | 63   | 101  |
| 1 | 7,0   | 69   | 109  |
| 1 | 7,5   | 69   | 109  |
| 1 | 8,0   | 75   | 117  |
| 1 | 8,5   | 75   | 117  |
| 1 | 9,0   | 81   | 125  |
| 1 | 9,5   | 81   | 125  |
| 1 | 10,0  | 87   | 133  |
| 1 | 10,5  | 87   | 133  |
| 1 | 11,0  | 94   | 142  |
| 1 | 11,5  | 94   | 142  |
| 1 | 12,0  | 101  | 151  |
| 1 | 12,5  | 101  | 151  |
| 1 | 13,0  | 101  | 151  |








25 1 120367 302 500 113

302

## Metal case HSS DIN 338 ground, split point

[82-84]

|    |  D<br>Ø mm |  L2<br>mm |  L1<br>mm |
|----|---|--|--|
| 10 | 1,0   | 12   | 34   |
| 10 | 1,5   | 18   | 40   |
| 10 | 2,0   | 24   | 49   |
| 10 | 2,5   | 30   | 57   |
| 10 | 3,0   | 33   | 61   |
| 10 | 3,5   | 39   | 70   |
| 10 | 4,0   | 43   | 75   |
| 10 | 4,5   | 47   | 80   |
| 10 | 5,0   | 52   | 86   |
| 10 | 5,5   | 57   | 93   |
| 10 | 6,0   | 57   | 93   |
| 10 | 6,5   | 63   | 101  |
| 10 | 7,0   | 69   | 109  |
| 10 | 7,5   | 69   | 109  |
| 10 | 8,0   | 75   | 117  |
| 5  | 8,5   | 75   | 117  |
| 5  | 9,0   | 81   | 125  |
| 5  | 9,5   | 81   | 125  |
| 5  | 10,0  | 87   | 133  |





170 1 122606 302 800 170






# METAL DRILL BITS






**300**

**MultiPack  
HSS DIN 338, standard**

[86-88]

|   |  |  |  |
|---|---|---|---|
|   | D<br>Ø mm   | L2<br>mm  | L1<br>mm  |
| 1 | 4,0   | 43  | 75  |
| 1 | 5,0   | 52  | 86  |
| 1 | 6,0   | 57  | 93  |
| 1 | 8,0   | 75  | 117   |
| 1 | 10,0  | 87  | 133   |




5 10 904936 300 350 410






**300**

**Plastic cassette  
HSS DIN 338, standard**

[86-88]

|   |  |  |  |
|---|---|---|---|
|   | D<br>Ø mm   | L2<br>mm  | L1<br>mm  |
| 1 | 1,5   | 18  | 40  |
| 1 | 2,0   | 24  | 49  |
| 1 | 2,5   | 30  | 57  |
| 1 | 3,0   | 33  | 61  |
| 1 | 3,2   | 36  | 65  |
| 1 | 3,5   | 39  | 70  |
| 1 | 4,0   | 43  | 75  |
| 1 | 4,5   | 47  | 80  |
| 1 | 4,8   | 52  | 86  |
| 1 | 5,0   | 52  | 86  |
| 1 | 5,5   | 57  | 93  |
| 1 | 6,0   | 57  | 93  |
| 1 | 6,5   | 63  | 101   |




13 10 042492 300 213 165






**300**

**RoseBox  
HSS DIN 338, standard**

[86-88]

|   |  |  |  |
|---|---|---|---|
|   | D<br>Ø mm   | L2<br>mm  | L1<br>mm  |
| 1 | 1,0   | 12  | 34  |
| 1 | 1,5   | 18  | 40  |
| 1 | 2,0   | 24  | 49  |
| 1 | 2,5   | 30  | 57  |
| 1 | 3,0   | 33  | 61  |
| 1 | 3,5   | 39  | 70  |
| 1 | 4,0   | 43  | 75  |
| 1 | 4,5   | 47  | 80  |
| 1 | 5,0   | 52  | 86  |
| 1 | 5,5   | 57  | 93  |
| 1 | 6,0   | 57  | 93  |
| 1 | 6,5   | 63  | 101   |
| 1 | 7,0   | 69  | 109   |
| 1 | 7,5   | 69  | 109   |
| 1 | 8,0   | 75  | 117   |
| 1 | 8,5   | 75  | 117   |
| 1 | 9,0   | 81  | 125   |
| 1 | 9,5   | 81  | 125   |
| 1 | 10,0  | 87  | 133   |




19 1 042553 300 501 110






**300**

**Metal box  
HSS DIN 338, standard**

[86-88]

|   |  |  |  |
|---|---|---|---|
|   | D<br>Ø mm   | L2<br>mm  | L1<br>mm  |
| 1 | 1,0   | 12  | 34  |
| 1 | 1,5   | 18  | 40  |
| 1 | 2,0   | 24  | 49  |
| 1 | 2,5   | 30  | 57  |
| 1 | 3,0   | 33  | 61  |
| 1 | 3,5   | 39  | 70  |
| 1 | 4,0   | 43  | 75  |
| 1 | 4,5   | 47  | 80  |
| 1 | 5,0   | 52  | 86  |
| 1 | 5,5   | 57  | 93  |
| 1 | 6,0   | 57  | 93  |
| 1 | 6,5   | 63  | 101   |
| 1 | 7,0   | 69  | 109   |
| 1 | 7,5   | 69  | 109   |
| 1 | 8,0   | 75  | 117   |
| 1 | 8,5   | 75  | 117   |
| 1 | 9,0   | 81  | 125   |
| 1 | 9,5   | 81  | 125   |
| 1 | 10,0  | 87  | 133   |

19 1 042515 300 500 110

HAMMER DRILL BITS

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# METAL DRILL BITS

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300

## RoseBox HSS DIN 338, standard

[86-88]




|   |  D<br>Ø mm |  L2<br>mm |  L1<br>mm |
|---|---|--|--|
| 1 | 1,0   | 12   | 34   |
| 1 | 1,5   | 18   | 40   |
| 1 | 2,0   | 24   | 49   |
| 1 | 2,5   | 30   | 57   |
| 1 | 3,0   | 33   | 61   |
| 1 | 3,5   | 39   | 70   |
| 1 | 4,0   | 43   | 75   |
| 1 | 4,5   | 47   | 80   |
| 1 | 5,0   | 52   | 86   |
| 1 | 5,5   | 57   | 93   |
| 1 | 6,0   | 57   | 93   |
| 1 | 6,5   | 63   | 101  |
| 1 | 7,0   | 69   | 109  |
| 1 | 7,5   | 69   | 109  |
| 1 | 8,0   | 75   | 117  |
| 1 | 8,5   | 75   | 117  |
| 1 | 9,0   | 81   | 125  |
| 1 | 9,5   | 81   | 125  |
| 1 | 10,0  | 87   | 133  |
| 1 | 10,5  | 87   | 133  |
| 1 | 11,0  | 94   | 142  |
| 1 | 11,5  | 94   | 142  |
| 1 | 12,0  | 101  | 151  |
| 1 | 12,5  | 101  | 151  |
| 1 | 13,0  | 101  | 151  |

 25 1  042560  300 501 113

300

## Metal box HSS DIN 338, standard

[86-88]




|   |  D<br>Ø mm |  L2<br>mm |  L1<br>mm |
|---|---|--|--|
| 1 | 1,0   | 12   | 34   |
| 1 | 1,5   | 18   | 40   |
| 1 | 2,0   | 24   | 49   |
| 1 | 2,5   | 30   | 57   |
| 1 | 3,0   | 33   | 61   |
| 1 | 3,5   | 39   | 70   |
| 1 | 4,0   | 43   | 75   |
| 1 | 4,5   | 47   | 80   |
| 1 | 5,0   | 52   | 86   |
| 1 | 5,5   | 57   | 93   |
| 1 | 6,0   | 57   | 93   |
| 1 | 6,5   | 63   | 101  |
| 1 | 7,0   | 69   | 109  |
| 1 | 7,5   | 69   | 109  |
| 1 | 8,0   | 75   | 117  |
| 1 | 8,5   | 75   | 117  |
| 1 | 9,0   | 81   | 125  |
| 1 | 9,5   | 81   | 125  |
| 1 | 10,0  | 87   | 133  |
| 1 | 10,5  | 87   | 133  |
| 1 | 11,0  | 94   | 142  |
| 1 | 11,5  | 94   | 142  |
| 1 | 12,0  | 101  | 151  |
| 1 | 12,5  | 101  | 151  |
| 1 | 13,0  | 101  | 151  |

 25 1  042522  300 500 113

300

## Metal case HSS DIN 338, standard


[86-88]

|    |  D<br>Ø mm |  L2<br>mm |  L1<br>mm |
|----|---|--|--|
| 10 | 1,0   | 12   | 34   |
| 10 | 1,5   | 18   | 40   |
| 10 | 2,0   | 24   | 49   |
| 10 | 2,5   | 30   | 57   |
| 10 | 3,0   | 33   | 61   |
| 10 | 3,5   | 39   | 70   |
| 10 | 4,0   | 43   | 75   |
| 10 | 4,5   | 47   | 80   |
| 10 | 5,0   | 52   | 86   |
| 10 | 5,5   | 57   | 93   |
| 10 | 6,0   | 57   | 93   |
| 10 | 6,5   | 63   | 101  |
| 10 | 7,0   | 69   | 109  |
| 10 | 7,5   | 69   | 109  |
| 10 | 8,0   | 75   | 117  |
| 5  | 8,5   | 75   | 117  |
| 5  | 9,0   | 81   | 125  |
| 5  | 9,5   | 81   | 125  |
| 5  | 10,0  | 87   | 133  |

 170 1  042539  300 800 170




# METAL DRILL BITS




**300**

**Metal display**  
**HSS DIN 338, standard**

[86-88]




435 1 042546 300 800 435




**302**

**Metal display**  
**HSS DIN 338, ground, split point**

[82-84]




435 1 042805 302 800 435




**307**

**Metal display**  
**HSS-E DIN 338 cobalt, ground, split point**

[76-78]




435 1 042829 307 800 435







**384**

**Metal display**  
**375x235x205 mm, empty**



1 042843 384 300 030

|    |  D<br>Ø mm |  L2<br>mm |  L1<br>mm |
|----|---|--|--|
|    |              |  |  |
| 20 | 1,0   | 12   | 34   |
| 20 | 1,5   | 18   | 40   |
| 20 | 2,0   | 24   | 49   |
| 20 | 2,5   | 30   | 57   |
| 20 | 3,0   | 33   | 61   |
| 20 | 3,3   | 36   | 65   |
| 20 | 3,5   | 39   | 70   |
| 20 | 4,0   | 43   | 75   |
| 20 | 4,2   | 43   | 75   |
| 20 | 4,5   | 47   | 80   |
| 20 | 5,0   | 52   | 86   |
| 20 | 5,5   | 57   | 93   |
| 20 | 6,0   | 57   | 93   |
| 20 | 6,5   | 63   | 101  |
| 20 | 6,8   | 69   | 109  |
| 20 | 7,0   | 69   | 109  |
| 20 | 7,5   | 69   | 109  |
| 20 | 8,0   | 75   | 117  |
| 10 | 8,5   | 75   | 117  |
| 10 | 9,0   | 81   | 125  |
| 10 | 9,5   | 81   | 125  |
| 10 | 10,0  | 87   | 133  |
| 5  | 10,2  | 87   | 133  |
| 5  | 10,5  | 87   | 133  |
| 5  | 11,0  | 94   | 142  |
| 5  | 11,5  | 94   | 142  |
| 5  | 12,0  | 101  | 151  |
| 5  | 12,5  | 101  | 151  |
| 5  | 13,0  | 101  | 151  |

HAMMER DRILL BITS

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STONE AND SPECIAL DRILL BITS

METAL DRILL BITS

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# METAL DRILL BITS

HAMMER DRILL BITS

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**315**

**MultiPack**  
HSS bits drill KEILBIT, ground

[101]

|   | D<br>Ø mm | L2<br>mm | L1<br>mm |
|---|-----------|----------|----------|
| 1 | 3,0       | 30       | 50       |
| 1 | 4,0       | 30       | 50       |
| 1 | 5,0       | 30       | 50       |
| 1 | 6,0       | 30       | 50       |
| 1 | 8,0       | 35       | 55       |

5 10 105067 315 350 380

**317**

**Plastic cassette**  
HSS combination tool KEILBIT + universal bit holder

[102]

|   | D<br>Ø mm | L1<br>mm |
|---|-----------|----------|
| 1 | 2,5       | 36       |
| 1 | 3,3       | 39       |
| 1 | 4,2       | 41       |
| 1 | 5,0       | 44       |
| 1 | 6,8       | 50       |
| 1 | 8,5       | 59       |

7 1 150371 317 500 310

**329**

**RoseBox**  
HSS countersink 90° KEILBIT + cutting paste + bit holder

[103]

|   | D<br>Ø mm | L1<br>mm |
|---|-----------|----------|
| 1 | 6,3       | 31       |
| 1 | 8,3       | 31       |
| 1 | 10,4      | 34       |
| 1 | 12,4      | 35       |
| 1 | 16,5      | 40       |
| 1 | 20,5      | 41       |

9 1 150449 329 500 620

**327**

**RoseBox**  
HSS countersink 90° DIN 335 C

[104]

|   | D<br>Ø mm | L1<br>mm |
|---|-----------|----------|
| 1 | 6,3       | 45       |
| 1 | 8,3       | 50       |
| 1 | 10,4      | 50       |
| 1 | 12,4      | 56       |
| 1 | 16,5      | 60       |
| 1 | 20,5      | 63       |

6 1 150210 327 500 620

**328**

**RoseBox**  
HSS deburring countersink 90° with cross hole

[105]

|   | D<br>Ø mm   | L1<br>mm |
|---|-------------|----------|
| 1 | 2,0 - 5,0   | 45       |
| 1 | 5,0 - 10,0  | 48       |
| 1 | 10,0 - 15,0 | 65       |
| 1 | 15,0 - 20,0 | 84       |

4 1 150272 328 500 520

**326**

**RoseBox**  
HSS tube & sheet drill + cutting paste

[106]

|   | D<br>Ø mm   | L1<br>mm |
|---|-------------|----------|
| 1 | 3,0 - 14,0  | 58       |
| 2 | 4,0 - 20,0  | 71       |
| 3 | 16,0 - 30,5 | 76       |

4 1 150135 326 500 103

**325**

**RoseBox**  
HSS step drills

[107]

|   | D<br>Ø mm  | L1<br>mm |
|---|------------|----------|
| 1 | 4,0 - 12,0 | 80       |
| 2 | 4,0 - 20,0 | 67       |
| 3 | 6,0 - 30,0 | 98       |



3 1 150050 325 500 103

# METAL DRILL BITS


**320**

**Plastic case**  
**Hole saw bi-metal electrician's set I**

[109-110]

|                                     |   |      |
|-------------------------------------|---|------|
| Hole saw bi-metal                   | 1 | 22,0 |
| Hole saw bi-metal                   | 1 | 29,0 |
| Hole saw bi-metal                   | 1 | 35,0 |
| Hole saw bi-metal                   | 1 | 44,0 |
| Hole saw bi-metal                   | 1 | 51,0 |
| Hole saw bi-metal                   | 1 | 64,0 |
| Locating shank AF 11 (14-30)        | 1 |      |
| Quick-rel.loc. shank AF 11 (32-152) | 1 |      |





8 1 110566 320 251 264


**320**

**Plastic case**  
**Hole saw bi-metal electrician's set II**

[109-110]

|                                     |   |      |
|-------------------------------------|---|------|
| Hole saw bi-metal                   | 1 | 35,0 |
| Hole saw bi-metal                   | 1 | 68,0 |
| Hole saw bi-metal                   | 1 | 83,0 |
| Quick-rel.loc. shank AF 11 (32-152) | 1 |      |





4 1 110757 320 251 383


**320**

**Plastic case**  
**Hole saw bi-metal plumber's set**

[109-110]

|                                     |   |      |
|-------------------------------------|---|------|
| Hole saw bi-metal                   | 1 | 19,0 |
| Hole saw bi-metal                   | 1 | 22,0 |
| Hole saw bi-metal                   | 1 | 29,0 |
| Hole saw bi-metal                   | 1 | 38,0 |
| Hole saw bi-metal                   | 1 | 44,0 |
| Hole saw bi-metal                   | 1 | 57,0 |
| Locating shank AF 11 (14-30)        | 1 |      |
| Quick-rel.loc. shank AF 11 (32-152) | 1 |      |





8 1 110559 320 251 957


**320**

**Plastic case**  
**Hole saw bi-metal fitter's set**

[109-110]

|                                     |   |      |
|-------------------------------------|---|------|
| Hole saw bi-metal                   | 1 | 22,0 |
| Hole saw bi-metal                   | 1 | 25,0 |
| Hole saw bi-metal                   | 1 | 29,0 |
| Hole saw bi-metal                   | 1 | 35,0 |
| Hole saw bi-metal                   | 1 | 44,0 |
| Hole saw bi-metal                   | 1 | 51,0 |
| Hole saw bi-metal                   | 1 | 57,0 |
| Hole saw bi-metal                   | 1 | 64,0 |
| Hole saw bi-metal                   | 1 | 68,0 |
| Locating shank AF 11 (14-30)        | 1 |      |
| Quick-rel.loc. shank AF 11 (32-152) | 1 |      |



11 1 904967 320 252 268

HAMMER DRILL BITS

CHISEL

STONE AND SPECIAL DRILL BITS

METAL DRILL BITS

WOOD DRILL BITS

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# WOOD DRILL BITS

HAMMER DRILL BITS

CHISEL

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184

**MultiPack**  
Wood twist drill bit with tungsten carbide  
Tip **TURBOWOOD**

[119]

|   |  | ∅ mm | mm |
|---|--|------|----|
| 1 |  | 4,0  | 40 |
| 1 |  | 5,0  | 40 |
| 1 |  | 6,0  | 45 |
| 1 |  | 8,0  | 63 |
| 1 |  | 10,0 | 61 |

5 10 904998 184 350 410



180

**MultiPack**  
Wood twist drill bit

[121]

|   |  | ∅ mm | mm |
|---|--|------|----|
| 1 |  | 4,0  | 43 |
| 1 |  | 5,0  | 52 |
| 1 |  | 6,0  | 57 |
| 1 |  | 8,0  | 70 |
| 1 |  | 10,0 | 87 |

5 10 904974 180 350 410



180

**MultiPack**  
Wood twist drill bit

[121]

|   |  | ∅ mm | mm |
|---|--|------|----|
| 1 |  | 3,0  | 33 |
| 1 |  | 4,0  | 43 |
| 1 |  | 5,0  | 52 |
| 1 |  | 6,0  | 57 |
| 1 |  | 7,0  | 69 |
| 1 |  | 8,0  | 75 |
| 1 |  | 10,0 | 87 |

7 10 904981 180 370 310



300

190

180

**Plastic cassette**  
HSS - Stone - Wood

[86-88]

|                      |  | ∅ mm | mm |
|----------------------|--|------|----|
| Masonry drill bit    |  | 5,0  | 52 |
| Masonry drill bit    |  | 6,0  | 57 |
| Masonry drill bit    |  | 8,0  | 75 |
| Wood twist drill bit |  | 5,0  | 50 |
| Wood twist drill bit |  | 6,0  | 60 |
| Wood twist drill bit |  | 8,0  | 80 |
| HSS DIN 338          |  | 5,0  | 52 |
| HSS DIN 338          |  | 6,0  | 57 |
| HSS DIN 338          |  | 8,0  | 75 |

9 9 905049 300 190 180

# MODULES

INDIVIDUAL AND FLEXIBLE - OUR MODULES



|                      |         |
|----------------------|---------|
| Hammer drill bit     | 160-161 |
| Chisel               | 161     |
| Percussion drill bit | 162-164 |
| Metal drill bit      | 165-166 |
| Wood drill bit       | 167-168 |
| Saws                 | 168     |

HAMMER DRILL  
BITS

CHISEL

STONE AND SPECIAL  
DRILL BITS

METAL DRILL BITS

WOOD DRILL BITS

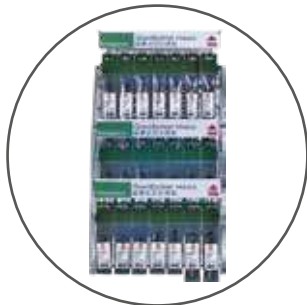
SAWS

ASSORTMENTS

MODULES -  
SHELVES

# MODULES

We equip your module the way you want it.



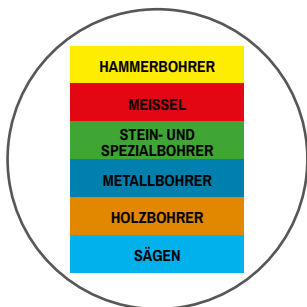
## INDIVIDUAL COMBINATION

Combination of a module can be flexible and individually. There are two ways to set up your personal drill bit centre. The standard module and the individual combinations - select the drilling tools you need.



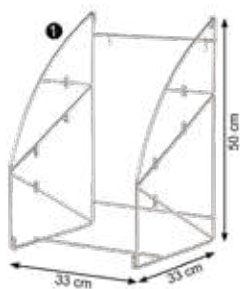
## PRODUCT GROUP LABEL

The product group label shows the drill bit type, its precise specification and the material in which it can be used. On the bottom side there is place for your information of rack maintenance like article numbers and EAN codes.





## COLOUR GUIDANCE SYSTEM

Our colour guidance system guarantees fast orientation within the drill bit center. You are easily led to the products you look for.



### Drill bit centre individual components - NET PRICE -

|   |   |
|---|---|
|  |  |
| 1 - Base frame 3 sections   | 000 101 003   |
| 2 - Strip for product group label   | 000 401 001   |
| 3 - Hook strip, flexible  | 000 201 002   |
| 4 - Round hook, single 10 cm  | 000 501 001   |
| 5 - EURO - hook, single 8 cm  | 000 501 003   |
| 5 - EURO - hook, single 10 cm   | 000 501 002   |
| 6 - EURO hook strip, 7 part   | 000 201 003   |
| 7 - Display basket, standard  | 000 201 004   |
| Header sign for Tego perforated wall  | 000 301 001   |
| Label card  | 000 501 005   |
| Tego perforated metal wall, approx- 250 x 100 cm incl. top and bottom section       | 000 101 004   |

# MODULES

We equip your module the way you want it.



## DESIGNED FOR YOUR REQUIREMENTS

The perforated wall can be assembled with carefully composed modules or according to your individual demands. The usable area of the drill bit center is 190 x 100 x 47 cm. The height including head sign is 250 cm.



## FLEXIBLE AND INDIVIDUAL

Putting together of module is flexible and individually. There are two ways to set up your personal drill bit centre:



## ALTERNATIVE 1 FOR INDIVIDUAL EQUIPMENT

You decide - choose the drilling tools you need for your customers. Basically each drilling tool can be offered with self-service packing or on self-service hanger.



## ALTERNATIVE 2 FOR STANDARD MODULES

Order proven combinations quickly and easily.










# HAMMER DRILL BITS



**251**

## Module shelf SDS-plus MS5 TURBOHEAD Xpro

[12-13]

|   |  D<br>ø mm |  L2<br>mm |  L1<br>mm |  EAN<br>4016707 |  12345 |
|---|---|--|--|--|---|
|    |   |  |  |  |   |
| 3   | 8,0   | 200  | 260  | 902130   | 251 080 260   |
| 3   | 10,0  | 200  | 260  | 902178   | 251 100 260   |
| 3   | 12,0  | 200  | 260  | 902239   | 251 120 260   |
| 3   | 12,0  | 400  | 450  | 902253   | 251 120 450   |
| 3   | 14,0  | 200  | 260  | 902284   | 251 140 260   |
| 3   | 14,0  | 400  | 450  | 902291   | 251 140 450   |
| 3   | 16,0  | 400  | 450  | 904738   | 251 160 450   |
|  |   |  |  |  |   |
| 5   | 8,0   | 150  | 210  | 902123   | 251 080 210   |
| 5   | 10,0  | 150  | 210  | 902161   | 251 100 210   |
| 5   | 12,0  | 100  | 160  | 902215   | 251 120 160   |
| 5   | 12,0  | 150  | 210  | 902222   | 251 120 210   |
| 5   | 14,0  | 100  | 160  | 902260   | 251 140 160   |
| 5   | 14,0  | 150  | 210  | 902277   | 251 140 210   |
| 5   | 16,0  | 150  | 210  | 904714   | 251 160 210   |
|  |   |  |  |  |   |
| 10  | 5,0   | 50   | 110  | 902000   | 251 050 110   |
| 10  | 5,0   | 100  | 160  | 902017   | 251 050 160   |
| 10  | 6,0   | 50   | 110  | 902031   | 251 060 110   |
| 10  | 6,0   | 100  | 160  | 902048   | 251 060 160   |
| 10  | 8,0   | 50   | 110  | 902109   | 251 080 110   |
| 10  | 8,0   | 100  | 160  | 902116   | 251 080 160   |
| 5   | 10,0  | 100  | 160  | 902154   | 251 100 160   |
|  |   |  |  |  |   |
|  |   |  |  |  |   |











121 251 800 121



**253**

## Module shelf SDS-plus hammer drill bit MS5 TURBOKEIL

[17-19]

|   |  D<br>ø mm |  L2<br>mm |  L1<br>mm |  EAN<br>4016707 |  12345 |
|---|---|--|--|--|---|
|      |   |  |  |  |   |
| 3   | 8,0   | 200  | 260  | 320927   | 253 080 260   |
| 3   | 10,0  | 200  | 260  | 320934   | 253 100 260   |
| 3   | 12,0  | 200  | 260  | 320958   | 253 120 265   |
| 3   | 12,0  | 400  | 450  | 320965   | 253 120 450   |
| 3   | 14,0  | 200  | 260  | 320972   | 253 140 265   |
| 3   | 14,0  | 400  | 450  | 320989   | 253 140 450   |
| 3   | 16,0  | 400  | 450  | 321009   | 253 160 450   |
|    |   |  |  |  |   |
| 5   | 8,0   | 150  | 210  | 322068   | 253 080 210   |
| 5   | 10,0  | 150  | 210  | 322082   | 253 100 210   |
| 5   | 12,0  | 100  | 160  | 322099   | 253 120 165   |
| 5   | 12,0  | 150  | 210  | 322105   | 253 120 215   |
| 5   | 14,0  | 100  | 160  | 322198   | 253 140 165   |
| 5   | 14,0  | 150  | 210  | 322204   | 253 140 215   |
| 5   | 16,0  | 150  | 210  | 322679   | 253 160 215   |
|    |   |  |  |  |   |
| 10  | 5,0   | 50   | 110  | 322006   | 253 050 110   |
| 10  | 5,0   | 100  | 160  | 322013   | 253 050 160   |
| 10  | 6,0   | 50   | 110  | 322020   | 253 060 110   |
| 10  | 6,0   | 100  | 160  | 322037   | 253 060 160   |
| 10  | 8,0   | 50   | 110  | 322044   | 253 080 110   |
| 10  | 8,0   | 100  | 160  | 322051   | 253 080 160   |
| 5   | 10,0  | 100  | 160  | 322075   | 253 100 160   |
|  |   |  |  |  |   |
|  |   |  |  |  |   |

121 253 800 121

HAMMER DRILL BITS  
CHISEL  
STONE AND SPECIAL DRILL BITS  
METAL DRILL BITS  
WOOD DRILL BITS  
SAWS  
ASSORTMENTS  
MODULES - SHELVES



# HAMMER DRILL BITS | CHISELS



**270**

## Module shelf SDS-max hammer drill bit X-shape

[23-24]



|   | D<br>ø mm | L2<br>mm | L1<br>mm | EAN<br>4016707... | 12345       |
|---|-----------|----------|----------|-------------------|-------------|
| 2 | 20,0      | 400      | 520      | 360107            | 270 200 521 |
| 2 | 22,0      | 400      | 520      | 360121            | 270 220 520 |
| 2 | 25,0      | 400      | 520      | 360152            | 270 250 520 |
| 1 | 30,0      | 450      | 570      | 360206            | 270 300 570 |
| 1 | 32,0      | 450      | 570      | 360220            | 270 320 570 |
| 1 | 35,0      | 450      | 570      | 360251            | 270 350 570 |
| 1 | 38,0      | 450      | 570      | 360275            | 270 380 570 |
| 2 | 12,0      | 200      | 340      | 360015            | 270 120 341 |
| 2 | 14,0      | 200      | 340      | 360039            | 270 140 341 |
| 2 | 16,0      | 200      | 340      | 360053            | 270 160 341 |
| 2 | 18,0      | 200      | 340      | 360077            | 270 180 341 |
| 2 | 20,0      | 200      | 320      | 360091            | 270 200 321 |
| 2 | 22,0      | 200      | 320      | 360114            | 270 220 320 |
| 2 | 24,0      | 200      | 320      | 360138            | 270 240 320 |



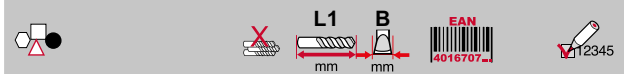
24 270 800 024



**503**

## Module shelf SDS-plus, SDS-max chisels

[42-44]



|                            |   |     |           |             |
|----------------------------|---|-----|-----------|-------------|
| SDS-max Point Chisel       | 3 | 400 | 260025    | 503 000 400 |
| SDS-max Flat Chisel        | 3 | 400 | 25 260056 | 503 125 400 |
| SDS-max Spade Chisel       | 3 | 300 | 80 260070 | 503 280 300 |
| SDS-max Spade Chisel       | 3 | 400 | 50 260087 | 503 250 400 |
| SDS-max Hollow Chisel      | 3 | 300 | 26 260094 | 503 326 300 |
| SDS-max Channel with glide | 3 | 380 | 35 260186 | 503 435 380 |
| SDS-max Tile Chisel        | 3 | 300 | 50 260193 | 503 550 300 |
| SDS-plus Tile Chisel       | 3 | 200 | 40 260162 | 502 540 200 |

|                             |   |     |           |             |
|-----------------------------|---|-----|-----------|-------------|
| SDS-plus Point Chisel       | 3 | 250 | 260117    | 502 000 250 |
| SDS-plus Point Chisel       | 3 | 250 | 260100    | 502 000 251 |
| SDS-plus Flat Chisel        | 3 | 250 | 20 260131 | 502 120 250 |
| SDS-plus Spade Chisel       | 3 | 250 | 40 260148 | 502 240 250 |
| SDS-plus Hollow Chisel      | 3 | 250 | 22 260155 | 502 322 250 |
| SDS-plus Channel with glide | 3 | 250 | 22 260179 | 502 422 250 |



42 503 800 042











# STONE AND SPECIAL DRILL BITS



154 204 404

## Module shelf Granit drill bit PRIMUS

[61]

|   |  D<br>ø mm |  L2<br>mm |  L1<br>mm |  EAN<br>4016707... |  |
|---|---|--|--|---|---|
|    |   |  |  |   |   |
| 3   | 8,0   | 350  | 400  | 194016  | 404 000 080   |
| 3   | 10,0  | 350  | 400  | 194023  | 404 000 100   |
| 3   | 12,0  | 350  | 400  | 194030  | 404 000 120   |
| 3   | 14,0  | 350  | 400  | 194054  | 404 000 140   |
| 3   | 16,0  | 350  | 400  | 194061  | 404 000 160   |
| 3   | 18,0  | 350  | 400  | 194078  | 404 000 180   |
| 3   | 20,0  | 350  | 400  | 194085  | 404 000 200   |
|  |   |  |  |   |   |
| 5   | 10,0  | 80   | 120  | 190100  | 154 000 100   |
| 5   | 12,0  | 90   | 150  | 190117  | 154 000 120   |
| 5   | 14,0  | 90   | 150  | 190131  | 154 000 140   |
| 5   | 6,0   | 110  | 150  | 192012  | 204 000 060   |
| 5   | 8,0   | 135  | 200  | 192036  | 204 000 080   |
| 5   | 10,0  | 135  | 200  | 192043  | 204 000 100   |
| 5   | 12,0  | 135  | 200  | 192050  | 204 000 120   |
|  |   |  |  |   |   |
| 10  | 3,0   | 40   | 70   | 190018  | 154 000 030   |
| 10  | 4,0   | 40   | 75   | 190025  | 154 000 040   |
| 10  | 5,0   | 50   | 85   | 190032  | 154 000 050   |
| 20  | 6,0   | 60   | 100  | 190056  | 154 000 060   |
| 20  | 8,0   | 80   | 120  | 190087  | 154 000 080   |









126 154 800 126



150 200 400

## Module shelf Percussion drill bit KEILER

[62-63]

|   |  D<br>ø mm |  L2<br>mm |  L1<br>mm |  EAN<br>4016707... |  |
|---|---|--|--|---|---|
|    |   |  |  |   |   |
| 3   | 8,0   | 350  | 400  | 180033  | 400 000 080   |
| 3   | 10,0  | 350  | 400  | 180040  | 400 000 100   |
| 3   | 12,0  | 350  | 400  | 180057  | 400 000 120   |
| 3   | 14,0  | 350  | 400  | 180071  | 400 000 140   |
| 3   | 16,0  | 350  | 400  | 180088  | 400 000 160   |
| 3   | 18,0  | 350  | 400  | 180095  | 400 000 180   |
| 3   | 20,0  | 350  | 400  | 180101  | 400 000 200   |
|  |   |  |  |   |   |
| 5   | 12,0  | 90   | 150  | 200151  | 150 000 120   |
| 5   | 14,0  | 90   | 150  | 200175  | 150 000 140   |
| 5   | 6,0   | 110  | 150  | 203039  | 200 000 060   |
| 5   | 8,0   | 135  | 200  | 203060  | 200 000 080   |
| 5   | 10,0  | 135  | 200  | 203077  | 200 000 100   |
| 5   | 12,0  | 135  | 200  | 203084  | 200 000 120   |
| 5   | 14,0  | 135  | 200  | 203091  | 200 000 140   |
|  |   |  |  |   |   |
| 10  | 3,0   | 40   | 70   | 200014  | 150 000 030   |
| 10  | 4,0   | 40   | 75   | 200038  | 150 000 040   |
| 10  | 5,0   | 50   | 85   | 200052  | 150 000 050   |
| 20  | 6,0   | 60   | 100  | 200076  | 150 000 060   |
| 10  | 8,0   | 80   | 120  | 200106  | 150 000 080   |
| 10  | 10,0  | 80   | 120  | 200137  | 150 000 100   |

126 150 800 126



HAMMER DRILL BITS

CHISEL

STONE AND SPECIAL DRILL BITS

METAL DRILL BITS

WOOD DRILL BITS

SAWS

ASSORTMENTS

MODULES - SHELVES

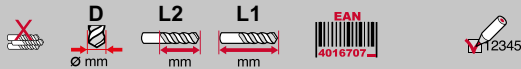
# STONE AND SPECIAL DRILL BITS



190 290 400

## Module shelf Masonry drill bit OPAL / KEILER

[64]



|  |    |      |     |     |        |             |
|--|----|------|-----|-----|--------|-------------|
|  | 3  | 8,0  | 350 | 400 | 180033 | 400 000 080 |
|  | 3  | 10,0 | 350 | 400 | 180040 | 400 000 100 |
|  | 3  | 12,0 | 350 | 400 | 180057 | 400 000 120 |
|  | 3  | 14,0 | 350 | 400 | 180071 | 400 000 140 |
|  | 3  | 16,0 | 350 | 400 | 180088 | 400 000 160 |
|  | 3  | 18,0 | 350 | 400 | 180095 | 400 000 180 |
|  | 3  | 20,0 | 350 | 400 | 180101 | 400 000 200 |
|  | 5  | 12,0 | 90  | 150 | 170119 | 190 000 120 |
|  | 5  | 14,0 | 90  | 150 | 170133 | 190 000 140 |
|  | 5  | 6,0  | 110 | 150 | 172014 | 290 000 060 |
|  | 5  | 8,0  | 135 | 200 | 172038 | 290 000 080 |
|  | 5  | 10,0 | 135 | 200 | 172045 | 290 000 100 |
|  | 5  | 12,0 | 135 | 200 | 172052 | 290 000 120 |
|  | 5  | 14,0 | 135 | 200 | 172069 | 290 000 140 |
|  | 10 | 3,0  | 40  | 70  | 170195 | 190 000 030 |
|  | 10 | 4,0  | 40  | 75  | 170010 | 190 000 040 |
|  | 10 | 5,0  | 50  | 85  | 170027 | 190 000 050 |
|  | 20 | 6,0  | 60  | 100 | 170041 | 190 000 060 |
|  | 10 | 8,0  | 80  | 120 | 170072 | 190 000 080 |
|  | 10 | 10,0 | 80  | 120 | 170096 | 190 000 100 |



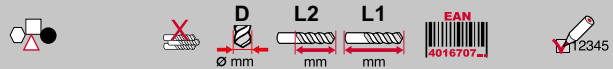
126 190 800 126



710 711 713 715

## Module shelf Hollow core M16 with accessoires

[68-71]



|  |   |    |      |    |     |        |             |
|--|---|----|------|----|-----|--------|-------------|
|  | Hollow cores complete with SDS-plus holder and centre drill bit                 | 2  | 68,0 | 52 | 72  | 160219 | 711 713 068 |
|  | Hollow cores complete with SDS-plus holder and centre drill bit                 | 2  | 80,0 | 60 | 80  | 160189 | 711 713 080 |
|  | Universal hollow core 6-pieces item 715 incl. centre drill bit + locating plate | 1  |      |    |     | 250019 | 715 033 073 |
|  | Hollow cores M 16   | 2  | 50,0 | 60 | 80  | 160073 | 710 000 050 |
|  | Hollow cores M 16   | 2  | 65,0 | 52 | 72  | 160103 | 711 000 065 |
|  | Locating shanks SDS-plus  | 2  |      |    | 105 | 160301 | 713 080 120 |
|  | Centre drill bits   | 2  | 8,0  | 72 | 120 | 916168 | 715 080 120 |
|  |   | 13 |      |    |     |        | 710 800 001 |



13 710 800 001








# METAL DRILL BITS



**307**

**Module shelf**  
HSS-E DIN 338 cobalt, ground, split point

[76-78]

|   |  D<br>ø mm |  L2<br>mm |  L1<br>mm |  EAN<br>4016707... |  12345 |
|---|---|--|--|---|---|
|    |   |  |  |   |   |
| 10  | 6,5   | 63   | 101  | 063152  | 307 300 650   |
| 10  | 8,0   | 75   | 117  | 063190  | 307 300 800   |
| 10  | 8,5   | 75   | 117  | 063206  | 307 300 850   |
| 10  | 10,0  | 87   | 133  | 063237  | 307 301 000   |
| 5   | 12,0  | 101  | 151  | 063282  | 307 301 200   |
| 5   | 12,5  | 101  | 151  | 063299  | 307 301 250   |
| 5   | 13,0  | 101  | 151  | 063305  | 307 301 300   |
|  |   |  |  |   |   |
| 10  | 4,0   | 43   | 75   | 063084  | 307 300 400   |
| 10  | 4,2   | 43   | 75   | 063091  | 307 300 420   |
| 10  | 4,5   | 47   | 80   | 063107  | 307 300 450   |
| 10  | 4,8   | 52   | 86   | 063336  | 307 300 480   |
| 10  | 5,0   | 52   | 86   | 063114  | 307 300 500   |
| 10  | 6,0   | 57   | 93   | 063145  | 307 300 600   |
| 5   | 3,5   | 39   | 70   | 062995  | 307 320 350   |
|  |   |  |  |   |   |
| 5   | 1,0   | 12   | 34   | 062926  | 307 320 100   |
| 5   | 1,5   | 18   | 40   | 062933  | 307 320 150   |
| 5   | 2,0   | 24   | 49   | 062940  | 307 320 200   |
| 5   | 2,5   | 30   | 57   | 062957  | 307 320 250   |
| 5   | 3,0   | 33   | 61   | 062964  | 307 320 300   |
| 5   | 3,2   | 36   | 65   | 062971  | 307 320 320   |
| 5   | 3,3   | 36   | 65   | 062988  | 307 320 330   |









195 307 800 195



**302**

**Module shelf**  
HSS DIN 338 ground, split point

[82-84]

|   |  D<br>ø mm |  L2<br>mm |  L1<br>mm |  EAN<br>4016707... |  12345 |
|---|---|--|--|---|---|
|    |   |  |  |   |   |
| 10  | 6,5   | 63   | 101  | 120558  | 302 300 650   |
| 10  | 8,0   | 75   | 117  | 120596  | 302 300 800   |
| 10  | 8,5   | 75   | 117  | 120602  | 302 300 850   |
| 10  | 10,0  | 87   | 133  | 120633  | 302 301 000   |
| 5   | 12,0  | 101  | 151  | 120688  | 302 301 200   |
| 5   | 12,5  | 101  | 151  | 120695  | 302 301 250   |
| 5   | 13,0  | 101  | 151  | 120701  | 302 301 300   |
|  |   |  |  |   |   |
| 10  | 4,0   | 43   | 75   | 120459  | 302 300 400   |
| 10  | 4,2   | 43   | 75   | 120473  | 302 300 420   |
| 10  | 4,5   | 47   | 80   | 120480  | 302 300 450   |
| 10  | 4,8   | 52   | 86   | 120497  | 302 300 480   |
| 10  | 5,0   | 52   | 86   | 120503  | 302 300 500   |
| 10  | 6,0   | 57   | 93   | 120541  | 302 300 600   |
| 5   | 3,5   | 39   | 70   | 120749  | 302 320 350   |
|  |   |  |  |   |   |
| 5   | 1,0   | 12   | 34   | 122637  | 302 320 100   |
| 5   | 1,5   | 18   | 40   | 122644  | 302 320 150   |
| 5   | 2,0   | 24   | 49   | 122651  | 302 320 200   |
| 5   | 2,5   | 30   | 57   | 120718  | 302 320 250   |
| 5   | 3,0   | 33   | 61   | 120725  | 302 320 300   |
| 5   | 3,2   | 36   | 65   | 120732  | 302 320 320   |
| 5   | 3,3   | 36   | 65   | 122668  | 302 320 330   |

195 302 800 195

HAMMER DRILL  
BITS

CHISEL

STONE AND SPECIAL  
DRILL BITS

METAL DRILL BITS

WOOD DRILL BITS

SAWS

ASSORTMENTS

MODULES -  
SHELVES



# METAL DRILL BITS



300

## Module shelf HSS DIN 338 standard

[86-88]

|   |  D<br>ø mm |  L2<br>mm |  L1<br>mm |  EAN<br>4016707... |  12345 |
|---|---|--|--|---|---|
|    |   |  |  |   |   |
| 10  | 6,5   | 63   | 101  | 043727  | 300 300 650   |
| 10  | 8,0   | 75   | 117  | 043901  | 300 300 800   |
| 10  | 8,5   | 75   | 117  | 043963  | 300 300 850   |
| 10  | 10,0  | 87   | 133  | 044144  | 300 301 000   |
| 5   | 12,0  | 101  | 151  | 044199  | 300 301 200   |
| 5   | 12,5  | 101  | 151  | 044205  | 300 301 250   |
| 5   | 13,0  | 101  | 151  | 044212  | 300 301 300   |
|  |   |  |  |   |   |
| 10  | 4,0   | 43   | 75   | 043420  | 300 300 400   |
| 10  | 4,2   | 43   | 75   | 043444  | 300 300 420   |
| 10  | 4,5   | 47   | 80   | 043482  | 300 300 450   |
| 10  | 4,8   | 52   | 86   | 043529  | 300 300 480   |
| 10  | 5,0   | 52   | 86   | 043543  | 300 300 500   |
| 10  | 6,0   | 57   | 93   | 043666  | 300 300 600   |
| 5   | 3,5   | 39   | 70   | 044755  | 300 320 350   |
|  |   |  |  |   |   |
| 5   | 1,0   | 12   | 34   | 044458  | 300 320 100   |
| 5   | 1,5   | 18   | 40   | 044519  | 300 320 150   |
| 5   | 2,0   | 24   | 49   | 044571  | 300 320 200   |
| 5   | 2,5   | 30   | 57   | 044632  | 300 320 250   |
| 5   | 3,0   | 33   | 61   | 044694  | 300 320 300   |
| 5   | 3,2   | 36   | 65   | 044717  | 300 320 320   |
| 5   | 3,3   | 36   | 65   | 044731  | 300 320 330   |







195 300 800 195



320

## Module shelf Hole saw bi-metal and accessoires

[109-110]

|   |  D<br>ø mm |  EAN<br>4016707... |  12345 |
|---|---|---|---|
|    |   |   |   |
| Hole saw bi-metal   | 2 22,0  | 110078  | 320 000 022   |
| Hole saw bi-metal   | 2 25,0  | 110092  | 320 000 025   |
| Quick-rel.loc. shank<br>SDS-plus (32-152)   | 1   | 110702  | 320 255 002   |
| Locating shank AF 11<br>(14-30)   | 1   | 110603  | 320 300 011   |
| Quick-rel.loc. shank<br>SDS-plus (32-152)   | 1   | 110634  | 320 400 011   |
|  |   |   |   |
| Hole saw bi-metal   | 2 29,0  | 110115  | 320 000 029   |
| Hole saw bi-metal   | 2 32,0  | 110139  | 320 000 032   |
| Hole saw bi-metal   | 2 35,0  | 110153  | 320 000 035   |
| Hole saw bi-metal   | 2 38,0  | 110177  | 320 000 038   |
| Hole saw bi-metal   | 2 51,0  | 110245  | 320 000 051   |
|  |   |   |   |
| Hole saw bi-metal   | 1 60,0  | 110290  | 320 000 060   |
| Hole saw bi-metal   | 1 64,0  | 110306  | 320 000 064   |
| Hole saw bi-metal   | 1 68,0  | 110337  | 320 000 068   |
| Hole saw bi-metal   | 1 83,0  | 110382  | 320 000 083   |

21 320 800 024



HAMMER DRILL BITS  
 CHISEL  
 STONE AND SPECIAL DRILL BITS  
 METAL DRILL BITS  
 WOOD DRILL BITS  
 SAWS  
 ASSORTMENTS  
 MODULES - SHELVES

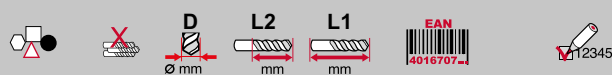
# WOOD DRILL BITS



**181 180 183**

## Module shelf Forstner / wood twist / auger drill bit

[121]



|     |   | D    | L2  | L1  | EAN     |             |
|-----|---|------|-----|-----|---------|-------------|
|     |   | ∅ mm | mm  | mm  | 4016707 | 12345       |
| 181 | 5 | 6,0  | 150 | 235 | 031403  | 181 060 250 |
| 181 | 5 | 8,0  | 150 | 235 | 031410  | 181 080 250 |
| 181 | 5 | 10,0 | 150 | 235 | 031427  | 181 100 250 |
| 181 | 5 | 12,0 | 380 | 460 | 031175  | 181 120 450 |
| 181 | 5 | 14,0 | 380 | 460 | 031182  | 181 140 450 |
| 181 | 5 | 16,0 | 380 | 460 | 031199  | 181 160 450 |
| 181 | 5 | 18,0 | 380 | 460 | 031205  | 181 180 450 |

|     |    | D    | L2 | L1  | EAN     |             |
|-----|----|------|----|-----|---------|-------------|
|     |    | ∅ mm | mm | mm  | 4016707 | 12345       |
| 180 | 10 | 3,0  | 33 | 61  | 020018  | 180 000 030 |
| 180 | 10 | 4,0  | 43 | 75  | 020025  | 180 000 040 |
| 180 | 10 | 5,0  | 52 | 86  | 020032  | 180 000 050 |
| 180 | 10 | 6,0  | 57 | 93  | 020049  | 180 000 060 |
| 180 | 10 | 8,0  | 75 | 117 | 020063  | 180 000 080 |
| 180 | 10 | 10,0 | 87 | 120 | 020087  | 180 000 100 |
| 180 | 10 | 12,0 | 96 | 151 | 020100  | 180 000 120 |

|     |   | D    | L2 | L1 | EAN     |             |
|-----|---|------|----|----|---------|-------------|
|     |   | ∅ mm | mm | mm | 4016707 | 12345       |
| 183 | 3 | 15,0 |    | 90 | 033223  | 183 000 150 |
| 183 | 3 | 20,0 |    | 90 | 033247  | 183 000 200 |
| 183 | 3 | 25,0 |    | 90 | 033278  | 183 000 250 |
| 183 | 3 | 26,0 |    | 90 | 033285  | 183 000 260 |
| 183 | 3 | 30,0 |    | 90 | 033308  | 183 000 300 |
| 183 | 3 | 35,0 |    | 90 | 033315  | 183 000 350 |
| 183 | 3 | 40,0 |    | 90 | 033322  | 183 000 400 |



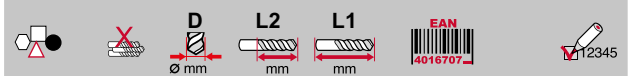
126 183 800 126



**180 181 350**

## Module shelf Wood twist / auger / timbering drill bit

[121]



|     |   | D    | L2  | L1  | EAN     |             |
|-----|---|------|-----|-----|---------|-------------|
|     |   | ∅ mm | mm  | mm  | 4016707 | 12345       |
| 350 | 3 | 10,0 | 100 | 600 | 030215  | 350 100 600 |
| 350 | 3 | 12,0 | 100 | 600 | 030222  | 350 120 600 |
| 350 | 3 | 14,0 | 100 | 600 | 030239  | 350 140 600 |
| 350 | 3 | 16,0 | 100 | 600 | 030246  | 350 160 600 |
| 350 | 3 | 18,0 | 100 | 600 | 030253  | 350 180 600 |
| 350 | 3 | 20,0 | 100 | 600 | 030260  | 350 200 600 |
| 350 | 3 | 22,0 | 100 | 600 | 030277  | 350 220 600 |

|     |   | D    | L2  | L1  | EAN     |             |
|-----|---|------|-----|-----|---------|-------------|
|     |   | ∅ mm | mm  | mm  | 4016707 | 12345       |
| 181 | 5 | 12,0 | 380 | 460 | 031175  | 181 120 450 |
| 181 | 3 | 12,0 | 530 | 600 | 031298  | 181 120 600 |
| 181 | 5 | 14,0 | 380 | 460 | 031182  | 181 140 450 |
| 181 | 3 | 14,0 | 530 | 600 | 031304  | 181 140 600 |
| 181 | 5 | 16,0 | 380 | 460 | 031199  | 181 160 450 |
| 181 | 5 | 18,0 | 380 | 460 | 031205  | 181 180 450 |
| 181 | 3 | 18,0 | 530 | 600 | 031328  | 181 180 600 |

|     |    | D    | L2 | L1  | EAN     |             |
|-----|----|------|----|-----|---------|-------------|
|     |    | ∅ mm | mm | mm  | 4016707 | 12345       |
| 180 | 10 | 3,0  | 33 | 61  | 020018  | 180 000 030 |
| 180 | 10 | 4,0  | 43 | 75  | 020025  | 180 000 040 |
| 180 | 10 | 5,0  | 52 | 86  | 020032  | 180 000 050 |
| 180 | 10 | 6,0  | 57 | 93  | 020049  | 180 000 060 |
| 180 | 10 | 8,0  | 75 | 117 | 020063  | 180 000 080 |
| 180 | 10 | 10,0 | 87 | 120 | 020087  | 180 000 100 |
| 180 | 10 | 12,0 | 96 | 151 | 020100  | 180 000 120 |



120 180 800 120

HAMMER DRILL BITS

CHISEL

STONE AND SPECIAL DRILL BITS

METAL DRILL BITS

WOOD DRILL BITS

SAWS

ASSORTMENTS

MODULES - SHELVES

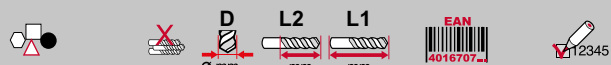
# WOOD DRILL BITS | SAWS



185

## Module shelf Flat bit KEILBIT

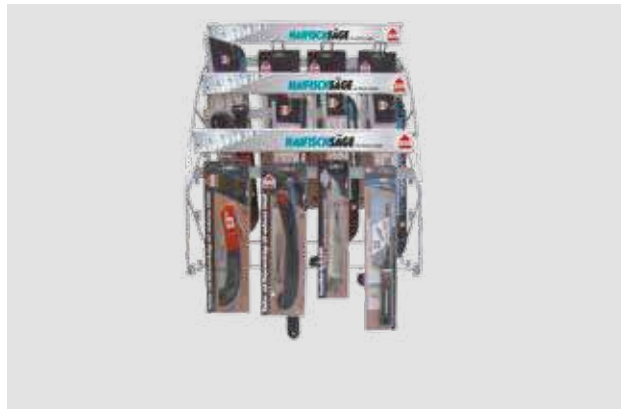
[128]



| Extensions |      |     |     |        |             |  |
|------------|------|-----|-----|--------|-------------|--|
| 3          |      |     | 300 | 025198 | 185 000 001 |  |
| 5          | 28,0 | 100 | 160 | 025136 | 185 280 160 |  |
| 5          | 30,0 | 100 | 160 | 025143 | 185 300 160 |  |
| 5          | 32,0 | 100 | 160 | 025150 | 185 320 160 |  |
| 5          | 35,0 | 100 | 160 | 025167 | 185 350 160 |  |
| 5          | 38,0 | 100 | 160 | 025174 | 185 380 160 |  |
| 5          | 40,0 | 100 | 160 | 025181 | 185 400 160 |  |
|            |      |     |     |        |             |  |
| 5          | 10,0 | 100 | 150 | 025037 | 185 100 150 |  |
| 5          | 14,0 | 100 | 150 | 025068 | 185 140 150 |  |
| 5          | 16,0 | 100 | 150 | 025075 | 185 160 150 |  |
| 5          | 18,0 | 100 | 150 | 025082 | 185 180 150 |  |
| 5          | 20,0 | 100 | 150 | 025099 | 185 200 150 |  |
| 5          | 22,0 | 100 | 160 | 025105 | 185 220 160 |  |
| 5          | 24,0 | 100 | 160 | 025112 | 185 240 160 |  |
| 5          | 25,0 | 100 | 160 | 025129 | 185 250 160 |  |
|            |      |     |     |        |             |  |
| 10         | 6,0  | 100 | 150 | 025013 | 185 060 150 |  |
| 10         | 8,0  | 100 | 150 | 025020 | 185 080 150 |  |
| 5          | 12,0 | 100 | 150 | 025044 | 185 120 150 |  |
| 5          | 13,0 | 100 | 150 | 025051 | 185 130 150 |  |



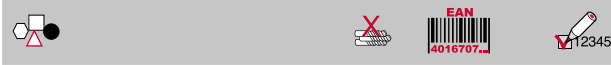
103 185 800 103



100

## Module shelf Sharksaw

[135]



|                                      |   |        |             |
|--------------------------------------|---|--------|-------------|
| Replacement saw blade                | 3 | 530333 | 100 022 312 |
| Replacement saw blade                | 3 | 530050 | 100 022 410 |
| Replacement saw blade                | 3 | 530098 | 100 022 440 |
| Carpentry saw                        | 3 | 530340 | 100 112 415 |
|                                      |   |        |             |
| Large Pruning saw                    | 3 | 530142 | 100 105 424 |
| Carpentry saw                        | 3 | 530326 | 100 112 312 |
| Fine cut saw                         | 3 | 530043 | 100 112 410 |
| Fine cut saw with double edged blade | 3 | 530081 | 100 112 440 |
|                                      |   |        |             |
| Replacement saw blade                | 3 | 530111 | 100 015 427 |
| MICRO pull saw                       | 3 | 530296 | 100 100 554 |
| Pruning saw                          | 3 | 530135 | 100 105 418 |
| Pruning saw                          | 3 | 530104 | 100 105 427 |

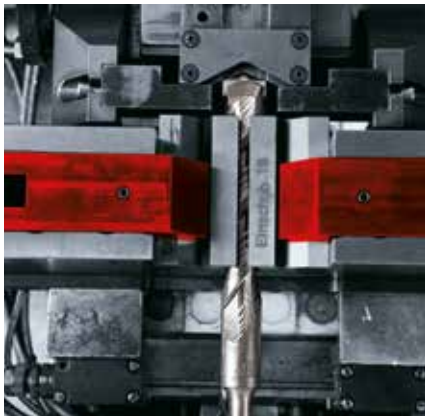


36 100 800 001



# INFO


ALL AT ONE SIGHT



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# THIS IS HOW TO FIND US

## KEIL WERKZEUGFABRIK KARL EISCHEID GMBH

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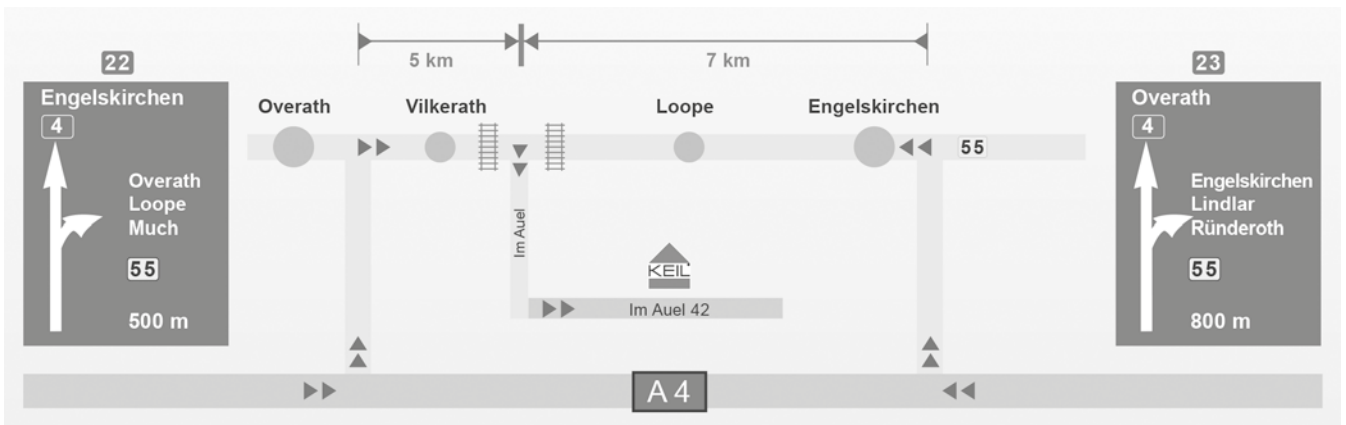
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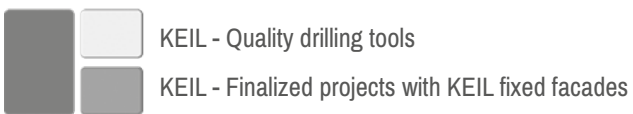
 +49 (0)2263 807 - 333

 mail@keil.eu

 www.keil.eu



# WORLDWIDE



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| Wood twist drill bit                                | 180 Wood drill bits         | Assortments | 156   |
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# QUALITY MANAGEMENT

## KEIL DRILL BITS: FROM PROFESSIONALS FOR PROFESSIONALS – DEVELOPED FOR HIGHEST REQUIREMENTS AND TESTED UNDER EXTREME CONDITIONS!

All masonry- and concrete drill bits from KEIL comply with highest requirements and go through extensive trials and test processes during their development. Your demand is our inducement only to bring first class products in the market and continuously improve our own standards. With the example of SDS-plus hammer drill bits our claim is established: Until the drill bits diameter is below the so called nominal diameter hit produced many drilling meters in C35/45 concrete.

### Example: SDS-plus MS5 TURBOKEIL



Quality of concrete: C35/45  
 Drill hammer: 2 KG hammer drill SDS-plus  
 Trial: drilling on working length  
 Mode of drilling: by hand or CNC-drill automat

| Nominal-Ø (mm) | Drilling meters | Numbr of holes per 100 mm |
|----------------|-----------------|---------------------------|
| 5              | 7,5             | 75                        |
| 6 - 7          | 10,0            | 100                       |
| 8              | 15,0            | 150                       |
| > 8            | 20,0            | 200                       |

### Compensation due to complaints (nominal tool life)

If a complaint is justified will be detected by checking the wear of spiral or shank (measured at about 5 -15 mm below carbide). Is the complaint justified the drill bit will be replaced depending on its tool life.

KEIL drill bits' basics: The following are some tips how you can check by yourself before contacting KEIL.



#### Checking manufacturers stamping

KEIL drill bits carry the manufacturer's number 40. Please contact equivalent manufacturer with different number.



#### Deformed shank

When the shank is deformed the chuck of the drilling machine mostly has a defect which has to be repaired. No right for replacement of drill bit.



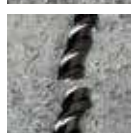
#### Carbide tip broken

A right of replacement is given when this claim occurs before going below nominal diameter. After reaching nominal diameter no right of replacement is given. Drill bit has reached its end of tool life.



#### Carbide tip fell out

After the carbide tip fell out the drill bit was continuously used in stone or concrete. The drill bit will be replaced if the claim occurred before drill bit reached end of tool life. After that not replacement is possible.



#### Fracture of spiral

When the complaint occurs before reaching the end of tool life, the drill bit will be replaced. After reaching nominal diameter, no replacement is possible.

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On our website you will find all information about our products and services in various languages clearly arranged.

Please find all details about our products, look at product videos and get information about product innovations and promotions!

With its interactive and intuitive operation, for example our “product finder” or the “drive finder” you will easily find on our website exactly the right tool for your application – all from a single source!

**KEIL** QUALITÄTSBOHRWERKZEUGE

HOME | PRODUKTE | UNTERNEHMEN | SERVICE | KARRIERE | KONTAKT

QUALITÄTSBOHRWERKZEUGE VON KEIL

**Immer der richtige Bohrer. Für Profis, die wissen, worauf es ankommt.**

Wir sind weltweit einer der führenden Hersteller hochwertiger Bohrwerkzeuge für den Einsatz in unterschiedlichen Materialien und setzen dabei konsequent auf den Entwicklungs- und Produktionsstandort Deutschland. Egal ob Mauerwerk, Stahlbeton, Naturstein, Metall oder Holz: Unsere Bohrer bringen Sie durch!

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Mauerwerk | Stahlbeton | Naturstein | Kunststein | Stahl | Frostfrei | Weichholz | Hartholz | Kunststoffe | Glas | Keramik | Ziegel | Lochziegel

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# TERMS AND CONDITIONS

Valid from 01.04.2018

## I. Geltungsbereich

1. Unsere Lieferungen und Leistungen erfolgen ausschließlich aufgrund der nachstehenden Bedingungen. Die Allgemeinen Geschäftsbedingungen gelten auch für alle künftigen Verträge und Geschäfte mit dem Partner. Geschäftsbedingungen des Partners, die von uns nicht ausdrücklich anerkannt werden, haben keine Gültigkeit.

2. Diese Allgemeinen Geschäftsbedingungen gelten nur gegenüber Unternehmern, juristischen Personen des öffentlichen Rechts und öffentlich-rechtlichen Sondervermögen i.S.d. § 310 Abs. 1 BGB.

## II. Allgemeine Bestimmungen

1. Verträge kommen zustande, wenn wir den Auftrag ausdrücklich annehmen oder die bestellte Ware zusenden oder wenn wir den Auftrag des Partners nicht unverzüglich, spätestens innerhalb von 14 Tagen schriftlich ablehnen.

2. Die in Prospekten und Katalogen enthaltenen Angaben und Abbildungen sind branchenübliche Näherungswerte, es sei denn, dass sie von uns ausdrücklich als verbindlich bezeichnet wurden.

## III. Langfrist- und Abrufverträge, Vertragsanpassung

1. Unbefristete Verträge sind für beide Vertragspartner mit einer Frist von 2 Monaten kündbar.

2. Tritt bei Langfristverträgen (Verträge mit einer Laufzeit von mehr als 12 Monaten und unbefristete Verträge) eine wesentliche Änderung der Lohn-, Material- oder Energiekosten ein, so ist jeder Vertragspartner berechtigt, eine angemessene Anpassung des Preises unter Berücksichtigung dieser Faktoren zu verlangen.

3. Ist eine verbindliche Bestellmenge nicht vereinbart, so legen wir unserer Kalkulation die vom Partner für einen bestimmten Zeitraum erwartete, unverbindliche Bestellmenge (Zielmenge) zugrunde. Nimmt der Partner weniger als die Zielmenge ab, sind wir berechtigt, den Stückpreis angemessen zu erhöhen. Nimmt er mehr als die Zielmenge ab, senken wir den Stückpreis angemessen, soweit der Partner den Mehrbedarf mindestens 2 Monate vor der Lieferung angekündigt hat.

4. Bei Lieferverträgen auf Abruf sind uns, wenn nichts anderes vereinbart ist, verbindliche Mengen mindestens 2 Monate vor dem Liefertermin durch Abruf mitzuteilen. Mehrkosten, die durch einen verspäteten Abruf oder nachträgliche Änderungen des Abrufs hinsichtlich Zeit oder Menge durch unseren Partner verursacht sind, gehen zu Lasten des Partners; dabei ist unsere Kalkulation maßgebend.

5. Wesentliche Änderungen, Zusatzwünsche oder ergänzende Leistungsvorgaben nach Vertragsschluss verpflichten beide Teile zur angemessenen Anpassung der Vergütung, der Termine und der Leistungsbeschreibung. Dies gilt entsprechend für bei der Auftragsannahme nicht absehbare technische Probleme.

## IV. Vertraulichkeit

1. Jeder Vertragspartner wird alle Unterlagen (dazu zählen auch Muster, Modelle und Daten) und Kenntnisse, die er aus der Geschäftsverbindung erhält, nur für die gemeinsam verfolgten Zwecke verwenden und mit der gleichen Sorgfalt wie entsprechende eigene Unterlagen und Kenntnisse gegenüber Dritten geheim halten, wenn der andere Vertragspartner sie als vertraulich bezeichnet oder an ihrer Geheimhaltung ein offenkundiges Interesse hat. Diese Verpflichtung beginnt ab erstmaligem Erhalt der Unterlagen oder Kenntnisse und gilt zeitlich unbeschränkt.

2. Die Verpflichtung gilt nicht für Unterlagen und Kenntnisse, die allgemein bekannt sind oder die bei Erhalt dem Vertragspartner bereits bekannt waren, ohne dass er zur Geheimhaltung verpflichtet war, oder die danach von einem zur Weitergabe berechtigten Dritten übermittelt werden oder die von dem empfangenden Vertragspartner ohne Verwertung geheimzuhaltender Unterlagen oder Kenntnisse des anderen Vertragspartners entwickelt werden.

## V. Zeichnungen und Beschreibungen, Muster und Fertigungsmittel

1. Stellt ein Vertragspartner dem anderen Zeichnungen oder technische Unterlagen über die zu liefernde Ware oder ihre Herstellung zur Verfügung, bleiben diese Eigentum des vorlegenden Vertragspartners.

2. Die Herstellungskosten für Muster und Fertigungsmittel (Werkzeuge, Formen, Schablonen etc.) werden, sofern nichts anderes vereinbart ist, von der zu liefernden Ware gesondert in Rechnung gestellt. Dies gilt auch für Fertigungsmittel, die infolge von Verschleiß ersetzt oder instandgesetzt werden müssen.

3. Setzt der Partner während der Anfertigungszeit der Muster oder Fertigungsmittel die Zusammenarbeit aus oder beendet er sie, gehen alle bis dahin entstandenen Herstellungskosten zu seinen Lasten.

4. Die Fertigungsmittel bleiben, auch wenn der Partner sie bezahlt hat, mindestens bis zur Abwicklung des Liefervertrages in unserem Besitz. Danach ist der Partner berechtigt, die Fertigungsmittel herauszuverlangen, wenn über den Zeitpunkt der Herausgabe eine einvernehmliche Regelung erzielt wurde und der Partner seinen vertraglichen Verpflichtungen in vollem Umfang nachgekommen ist.

5. Abnehmerbezogene Fertigungsmittel dürfen von uns nur mit vorheriger schriftlicher Zustimmung unseres Partners für Zulieferungen an Dritte verwendet werden.

## VI. Preise und Zahlungsbedingungen

1. Unsere Preise verstehen sich in Euro zuzüglich Umsatzsteuer, Verpackung, Fracht, Porto und Versicherung.

2. Der Partner erklärt sich einverstanden, dass wir automatisch in den im Katalog aufgeführten Verpackungseinheiten liefern.

3. Alle Rechnungen sind mit ihrem Zugang sowie Zugang der Ware zur Zahlung fällig, falls keine andere Vereinbarung getroffen wurde. Hinsichtlich der Folgen des Zahlungsverzugs gelten die gesetzlichen Bestimmungen.

4. Haben wir unstreitig teilweise fehlerhafte Ware geliefert, ist unser Partner dennoch verpflichtet, die Zahlung für den fehlerfreien Anteil zu leisten, es sei denn, dass die Teillieferung für ihn nicht von Interesse ist.

5. Der Partner kann nur mit rechtskräftig festgestellten oder unbstrittenen Gegenansprüchen aufrechnen. Zur Ausübung eines Zurückbehaltungsrechts ist der Partner insoweit befreit, als sein Gegenanspruch auf dem gleichen Vertragsverhältnis beruht.

6. Bei Zahlungsverzug sind wir berechtigt, Verzugszinsen in der jeweiligen gesetzlichen Höhe gemäß §§ 288 Abs. 2, 247 BGB (8 Prozentpunkten über dem jeweiligen Basiszinssatz) in Rechnung zu stellen. Die Geltendmachung eines weitergehenden Verzugschadens bleibt unberührt.

7. Bei Zahlungsverzug können wir nach schriftlicher Mitteilung an den Partner die Erfüllung unserer Verpflichtungen bis zum Erhalt der Zahlungen einstellen.

8. Schecks werden nur erfüllungshalber und unter der Voraussetzung ihrer ordnungsgemäßen Einlösung angenommen.

9. Wenn nach Vertragsschluss erkennbar wird, dass unser Zahlungsanspruch durch mangelnde Leistungsfähigkeit des Partners gefährdet wird, so können wir die Leistung zurückhalten und dem Partner eine angemessene Frist bestimmen, in welcher er Zug um Zug gegen Lieferung zu zahlen oder Sicherheit zu leisten hat. Bei Verweigerung des Partners oder erfolglosem Fristablauf sind wir berechtigt, vom Vertrag zurückzutreten und Schadenersatz zu verlangen.

## VII. Lieferung, Versand, Gefährübergang

1. Sofern nichts anderes vereinbart ist, liefern wir „EXW Engelskirchen“ (Incoterms 2010). Maßgebend für die Einhaltung des Liefertermins oder der Lieferfrist ist die Meldung der Versand- bzw. Abholbereitschaft durch uns. Mangels besonderer Vereinbarung wählen wir das Transportmittel und den Transportweg.

2. Die Lieferfrist beginnt mit der Absendung unserer Auftragsbestätigung und verlängert sich angemessen, wenn die Voraussetzungen von Ziffer XII vorliegen. 3. Teillieferungen sind in zumutbarem Umfang zulässig. Sie werden gesondert in Rechnung gestellt.

4. Innerhalb einer Toleranz von 10 Prozent der Gesamtauftragsmenge sind fertigungsbedingte Mehr- oder Minderlieferungen bei Sonderanfertigungen zulässig. Ihrem Umfang entsprechend ändert sich dadurch der Gesamtpreis.

5. Versandbereit gemeldete Ware ist vom Partner unverzüglich zu übernehmen. Anderenfalls sind wir berechtigt, sie nach eigener Wahl zu versenden oder auf Kosten und Gefahr des Partners zu lagern.

6. Mit der Übergabe an die Bahn, den Spediteur oder den Frachtführer bzw. mit Beginn der Lagerung, spätestens jedoch mit Verlassen des Werkes oder Lagers, geht die Gefahr auf den Partner über, und zwar auch, wenn wir die Anlieferung übernehmen haben.

7. Alle Sendungen ab einem Warenwert von € 250,- netto werden innerhalb der Bundesrepublik Deutschland frei Haus einschließlich Verpackung abgefertigt. Expressgebühr bzw. Eilzustellung wird grundsätzlich berechnet. Alle Post- und Paketdienstgebühren werden frankiert. Sofern der Warenwert unter € 250,- liegt, wird die Fracht in Rechnung gestellt.

## VIII. Lieferverzug

1. Können wir absehen, dass die Ware nicht innerhalb der Lieferfrist geliefert werden kann, so werden wir den Partner unverzüglich und schriftlich davon in Kenntnis setzen, ihm die Gründe hierfür mitteilen, sowie nach Möglichkeit den voraussichtlichen Lieferzeitpunkt nennen.

2. Verzögert sich die Lieferung durch einen in Ziffer XII aufgeführten Umstand oder durch ein Handeln oder Unterlassen des Partners, so wird eine den Umständen angemessene Verlängerung der Lieferfrist gewährt.

3. Der Partner ist zum Rücktritt vom Vertrag nur berechtigt, wenn wir die Nichteinhaltung des Liefertermins zu vertreten haben und er uns erfolglos eine angemessene Nachfrist gesetzt hat.

## IX. Eigentumsvorbehalt

1. Wir behalten uns das Eigentum an der gelieferten Ware bis zur Erfüllung aller, auch künftig entstehender Forderungen aus der Geschäftsverbindung mit dem Partner vor. Besteht zwischen uns und dem Partner ein Kontokorrentverhältnis, behalten wir uns das Eigentum an der Ware bis zur Zahlung der Forderungen aus einem anerkannten Kontokorrentsaldo vor.

2. Der Partner ist berechtigt, diese Waren im ordentlichen Geschäftsgang zu veräußern und Forderungen einzuziehen, solange er seinen Verpflichtungen aus der Geschäftsverbindung mit uns rechtzeitig nachkommt. Nimmt der Partner die Forderung in ein Kontokorrentverhältnis mit seinem Vertragspartner auf, tritt er bereits jetzt seine Forderung aus dem Schlussaldo im Sinne von § 355 HGB in Höhe unserer fälligen Forderungen an uns ab. Wird die Vorbehaltsware zusammen mit anderer Ware weiterveräußert, so erstreckt sich die Vorausabtretung nur bis zur Höhe des Wertes der

Vorbehaltsware. Der Partner darf jedoch die Vorbehaltsware weder verpfänden noch zur Sicherheit übereignen. Er ist verpflichtet, unsere Rechte beim kreditierten Weiterverkauf der Vorbehaltsware zu sichern.

3. Alle Forderungen und Rechte aus dem Verkauf oder einer gegebenenfalls dem Partner gestatteten Vermietung von Waren, an denen uns Eigentumsrechte zustehen, tritt der Partner schon jetzt zur Sicherung an uns ab. Wir nehmen die Abtretung hiermit an.

4. Bei Pflichtverletzungen des Partners, insbesondere bei Zahlungsverzug, sind wir nach erfolglosem Ablauf einer dem Partner gesetzlich angemessenen Frist zur Leistung zum Rücktritt und zur Rücknahme berechtigt; die gesetzlichen Bestimmungen über die Entbehrlichkeit einer Fristsetzung bleiben unberührt. Der Partner ist zur Herausgabe verpflichtet. Wir sind zum Rücktritt vom Vertrag berechtigt, wenn Antrag auf Eröffnung des Insolvenzverfahrens über das Vermögen des Partners gestellt wird.

5. Wir sind berechtigt, die Ermächtigungen zur Weiterveräußerung und Einziehung der abgetretenen Forderungen zu widerrufen, wenn der Partner seinen Zahlungsverpflichtungen aus den vereinnahmten Erlösen nicht nachkommt, in Zahlungsverzug gerät, ein Antrag auf Eröffnung eines Insolvenzverfahrens gestellt ist oder Zahlungseinstellung vorliegt. Ist dies der Fall, ist der Partner auf unser Verlangen bei Widerruf der Einziehungsermächtigung verpflichtet, uns die abgetretenen Forderungen und deren Schuldner bekannt zu geben, den Schuldner die Abtretung mitzuteilen, alle zum Einzug der Forderungen durch uns erforderlichen Angaben zu machen und Unterlagen herauszugeben.

6. Eine etwaige Be- oder Verarbeitung der Vorbehaltsware nimmt der Partner stets für uns vor, ohne dass uns hieraus Verpflichtungen treffen. Wird die Vorbehaltsware mit anderen, nicht uns gehörenden Gegenständen verarbeitet oder untrennbar vermischt, so erwerben wir das Miteigentum an der neuen Sache im Verhältnis des Rechnungswertes der Vorbehaltsware zu den anderen verarbeiteten oder vermischten Gegenständen zum Zeitpunkt der Verarbeitung oder Vermischung. Werden unsere Waren mit anderen beweglichen Gegenständen zu einer einheitlichen Sache verbunden oder untrennbar vermischt und ist die andere Sache als Hauptsache anzusehen, so überträgt der Partner uns anteilmäßig Miteigentum, soweit die Hauptsache ihm gehört. Der Partner verwirft das Eigentum oder Miteigentum unentgeltlich für uns. Für die durch Verarbeitung oder Verbindung bzw. Vermischung entstehende Sache gilt im übrigen das gleiche wie für die Vorbehaltsware.

7. Über Zwangsvollstreckungsmaßnahmen Dritter in die Vorbehaltsware, in die uns abgetretenen Forderungen oder in sonstige Sicherheiten hat der Partner uns unverzüglich über Übergabe der für eine Intervention notwendigen Unterlagen zu unterrichten. Dies gilt auch für Pfändungen oder sonstige rechtliche oder tatsächliche Beeinträchtigungen durch Dritte. Der Partner ist verpflichtet, den Dritten auf unseren Eigentumsvorbehalt hinzuweisen.

8. Überstigt der Wert der bestehenden Sicherheiten die gesicherten Forderungen insgesamt um mehr als 10 Prozent, so sind wir auf Verlangen des Partners insoweit zur Freigabe von Sicherheiten nach unserer Wahl verpflichtet.

9. Sofern die verkauften Waren in den Geltungsbereich eines anderen Staates verbracht werden, ist der Partner verpflichtet, auf seine eigenen Kosten vor Beginn der Lieferung sicherzustellen, dass die Rechtsordnung des Staates, in den die Waren verbracht werden, einen Eigentumsvorbehalt kennt, der mit den Regelungen dieser Ziffer IX. vergleichbar ist. Der Partner ist insoweit verpflichtet, alle Handlungen vorzunehmen, Maßnahmen zu ergreifen und Registrierungen durchzuführen, die erforderlich und durchführbar sind, um unsere Eigentumsrechte an den verkauften Waren zu sichern. Hierzu verpflichten wir uns, den Partner mit allen rechtlich erforderlichen Handlungen zu unterstützen und dem Partner die notwendigen Informationen schriftlich zu erteilen und entsprechende Unterlagen zur Verfügung zu stellen. Der Partner haftet uns gegenüber für jeden entstandenen Schaden, der sich daraus ergibt, dass keine ausreichende Sicherung unseres Eigentums an den verkauften Waren besteht oder der Eigentumsvorbehalt nach dieser Ziffer IX. ganz oder teilweise von dem Recht des Staates, in den die verkauften Waren verbracht wurden, nicht anerkannt wird.

## X. Sachmängel, Mängelrügen, Gewährleistung, Verjährung

1. Die Beschaffenheit der Ware richtet sich ausschließlich nach den vereinbarten technischen Liefervorschriften. Das Risiko der Eignung der Waren für den vorgesehenen Verwendungszweck trägt der Partner. Entscheidend für die Bestimmung des vertragsgemäßen Zustands der Ware ist der Zeitpunkt des Gefährübergangs gemäß Ziffer VII. 6.

2. Die von uns gelieferten Waren hat der Partner unverzüglich nach dem Eintreffen am Bestimmungsort auf Fehler oder Mängel zu untersuchen, auch wenn Muster übersandt waren. Die Lieferung bzw. Leistung gilt als genehmigt, wenn erkennbare oder bei der Untersuchung festgestellte Mängel nicht ohne schuldhaftes Zögern bei uns gerügt werden. Versteckte Mängel hat der Partner ohne schuldhaftes Zögern nach ihrer Entdeckung, spätestens jedoch innerhalb von einem Jahr ab Erhalt der Ware unter gleichzeitiger Übergabe der beanstandeten Waren bei uns zu rügen. Entscheidend für die Einhaltung der Frist ist die Absendung der Mängelanzeige.

3. Uns ist Gelegenheit zu geben, den gerügten Mangel festzustellen. Beanstandete Ware ist auf Verlangen unverzüglich an uns zurückzusenden; wir übernehmen die Transportkosten, wenn die Mängelrüge berechtigt ist. Wenn der Partner diesen Verpflichtungen nicht nachkommt oder ohne unsere Zustimmung Änderungen an der bereits beanstandeten Ware vornimmt, verliert er etwaige Sachmängelansprüche.

4. Unsere Gewährleistung ist zunächst beschränkt auf Nachbesserung bzw. Ersatzlieferung nach unserer Wahl. Hierzu hat uns der Partner in angemessener Weise Zeit und Gelegenheit zu geben. Schlagen Nachbesserungen oder Ersatzlieferungen fehl oder wird die Beseitigung des Mangels infolge eines unvernünftigmäßig hohen Aufwandes von uns verweigert, kann der Partner Minderung des Preises verlangen oder vom Vertrag zurücktreten. Eine Kostenerstattung ist ausgeschlossen, soweit die Aufwendungen sich erhöhen, weil die Ware nach unserer Lieferung an einen anderen Ort verbracht worden ist, es sei denn, dies entspricht dem bestimmungsgemäßen Gebrauch der Ware. Das Recht des Partners auf Nacherfüllung bei unerheblichen Mängeln ist ausgeschlossen.

5. Für Sachmängel, die durch ungeeignete oder unsachgemäße Verwendung, fehlerhafte Montage bzw. Inbetriebsetzung durch den Partner oder Dritte, übliche Abnutzung, fehlerhafte oder nachlässige Behandlung entstehen, stehen wir ebenso wenig ein wie für die Folgen unsachgemäßer und ohne unsere Einwilligung vorgenommener Änderungen oder Instandsetzungsarbeiten des Partners oder Dritter. Gleiches gilt für Mängel, die den Wert oder die Tauglichkeit der Ware nur unerheblich mindern.

6. Sachmängelansprüche verjähren in einem Jahr ab Gefährübergang. Dies gilt nicht, soweit das Gesetz längere Fristen zwingend vorschreibt, insbesondere für Mängel bei einem Bauwerk und bei einer Ware, die entsprechend ihrer üblichen Verwendungsweise für ein Bauwerk verwendet wurde und dessen Mangelhaftigkeit verursacht hat. In Fällen des Lieferregresses im Verbrauchsgüterkauf gelten die Verjährungsfristen gemäß §§ 478, 479 BGB.

7. Gesetzliche Rückgriffsansprüche des Partners gegen uns bestehen nur insoweit, als der Partner mit seinem Abnehmer keine Vereinbarungen getroffen hat, die über die gesetzlichen Mängelansprüche hinausgehen. Für den Umfang der Rückgriffsansprüche gilt ferner Ziffer X. 4 Satz 4 entsprechend.

8. § 444 BGB bleibt von den Bestimmungen dieser Ziffer X. unberührt.

## XI. Sonstige Ansprüche, Haftung

1. Wir haften nach Maßgabe der nachfolgenden Bestimmungen für Schäden – gleich aus welchem Rechtsgrund –, wenn wir, unser gesetzlicher Vertreter oder Erfüllungshelfe sie schuldhaft verursacht haben.

2. Bei Vorsatz, grober Fahrlässigkeit und bei leicht fahrlässiger Verletzung des Lebens, des Körpers oder der Gesundheit haften wir – mit Ausnahme des nachfolgenden Satzes – unbeschränkt. Unsere Haftung bei grober Fahrlässigkeit ist auf den bei Vertragsschluss vorhersehbaren, typischen Schaden begrenzt, wenn nicht dieser Schaden auf einer Verletzung des Lebens, des Körpers oder der Gesundheit beruht.

3. Im übrigen gilt bei leichter Fahrlässigkeit folgendes: Unsere Haftung für leichte Fahrlässigkeit ist – mit Ausnahme bei der Verletzung von Kardinalpflichten – ausgeschlossen. Ansonsten ist unsere Haftung für leichte Fahrlässigkeit auf den bei Vertragsschluss vorhersehbaren, typischen Schaden begrenzt.

4. Verschuldensunabhängige, gesetzliche Haftungstatbestände, insbesondere die Haftung nach dem Produkthaftungsgesetz, bleiben unberührt. Wir haften unbeschränkt, sofern Ansprüche des Partners gegen uns bereits vor Vertragsschluss entstanden sind.

5. Die Rechte des Partners aus Gewährleistung oder wegen Lieferverzugs bleiben unberührt.

6. Wir haften nicht für Schäden, die auf unsachgemäßer Verwendung und Lagerung, fehlerhaftem Einbau oder natürlicher Abnutzung beruhen.

7. Soweit die Schadenersatzhaftung uns gegenüber ausgeschlossen oder eingeschränkt ist, gilt dies auch im Hinblick auf die persönliche Schadenersatzhaftung unserer Angestellten, Arbeitnehmer, Mitarbeiter, Vertreter und Erfüllungsgehilfen.

## XII. Höhere Gewalt

Höhere Gewalt, Arbeitskämpfe, Unruhen, behördliche Maßnahmen, Ausbleiben von Zulieferungen unserer Lieferanten und sonstige unvorhersehbare, unabwendbare und schwerwiegende Ereignisse befreien die Vertragspartner für die Dauer der Störung und im Umfang ihrer Wirkung von den Leistungspflichten. Dies gilt auch, wenn diese Ereignisse zu einem Zeitpunkt eintreten, in dem sich der betroffene Vertragspartner in Verzug befindet, es sei denn, dass er den Verzug vorsätzlich oder grob fahrlässig verursacht hat. Die Vertragspartner sind verpflichtet, im Rahmen des Zumutbaren unverzüglich die erforderlichen Informationen zu geben und ihre Verpflichtungen den veränderten Verhältnissen nach Treu und Glauben anzupassen.

## XIII. Erfüllungsort, Gerichtsstand und anwendbares Recht

1. Sofern sich aus der Auftragsbestätigung nichts anderes ergibt, ist unser Geschäftssitz Erfüllungsort.

2. Für alle Rechtsstreitigkeiten, auch im Rahmen eines Scheckprotestes, ist unser Geschäftssitz Gerichtsstand. Wir sind auch berechtigt, am Sitz des Partners zu klagen.

3. Die Vertragsbeziehungen unterliegen ausschließlich deutschem Recht. Die Geltung des UN-Kaufrechts (CISG) ist ausgeschlossen.



**CHART EXPLANATION**

|  |                          |
|--|--------------------------|
|  | Diameter mm              |
|  | Diameter Inch            |
|  | Working length           |
|  | Total length             |
|  | 4-/2-cutter              |
|  | Shank diameter           |
|  | Hex shank length         |
|  | Spanner size             |
|  | Width                    |
|  | Length of locating shank |
|  | Metric thread            |
|  | Morse taper MK           |
|  | Working length saw (L2)  |
|  | Teeth/inch               |
|  | Suitable in / for / with |
|  | Packaging unit           |
|  | Quantity units           |
|  | Content per item         |
|  | Rise                     |
|  | Type                     |
|  | Number / Size            |
|  | EAN                      |
|  | Item number              |
|  | Price in EUR per item    |

**DRIVE**

|  |                   |
|--|-------------------|
|  | SDS-plus          |
|  | SDS-max           |
|  | Straight shank    |
|  | Hexagon           |
|  | Bit drive (C 6.3) |
|  | Bit drive (E 6.3) |
|  | ROTASTOP          |
|  | Morse taper       |
|  | Cone              |
|  | M 14              |

**INFORMATION ABOUT PACKAGING**

|  |  |
|--|--|
|  | Self-service pouch                           |
|  | Self-service tube                            |
|  | Hanger                                       |
|  | Twist tube                                   |
|  | QuadroPack / RectanglePack (content 1 piece) |
|  | QuadroPack / RectanglePack                   |
|  | Cardboard box                                |
|  | Blister package                              |
|  | Assortment                                   |
|  | Case   |
|  | Module                                       |
|  | Other packaging                              |
|  | Module - Level 1                             |
|  | Modul - Level 2                              |
|  | Modul - Level 3                              |

**FOR USE IN**

|  |                                    |
|--|------------------------------------|
|  | Masonry                            |
|  | Concrete / Reinforced concrete     |
|  | Natural stone                      |
|  | Artificial stone                   |
|  | Steel / Cast steel / various metal |
|  | Stainless steel                    |
|  | Wood                               |
|  | Hardwood                           |
|  | PVC / Acrylic                      |
|  | Glass                              |
|  | Ceramics                           |
|  | Tiles / hard burnt brick           |

**FURTHER INFORMATION**

|  |                                    |
|--|------------------------------------|
|  | TURBOHEAD Xpro                     |
|  | TURBOKEIL centring tip 4-cutter    |
|  | TURBOKEIL centring tip 2-cutter    |
|  | TURBOKEIL centring tip 3-cutter    |
|  | VARIO tip 130° 2-cutter            |
|  | Hammer drill bit tip 130° 2-cutter |
|  | Carbide tipped                     |
|  | The PGM-mark                       |
|  | Not suitable for hammer action     |
|  | Max 1500 revolutions / min         |
|  | Diamond-tipped                     |
|  | Wet drill                          |
|  | Dry drill                          |
|  | Page                               |



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