

QUALITY DRILLING TOOLS



HAMMER DRILL BITS



CHISEL



PERCUSSION DRILL BITS



METAL DRILL BITS



WOOD DRILL BITS



SAWS

PRODUCT AND SERVICE CATALOGUE

CONTENT

IN ANY CASE SAFETY IS DEMANDED!

HAMMER DRILL BITS



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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 indentified.
- 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

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

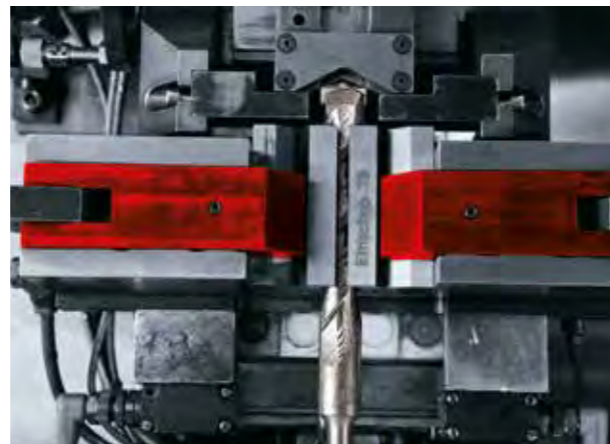
KEIL QUALITY DRILLING TOOLS

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

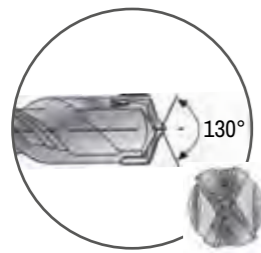
PROFESSIONAL WORK MEANS ECONOMICAL WORK



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
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272 SDS-plus TURBOCLEAN extraction drill bit	28
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259 Break-through core drill bit	31
259 Hammer hollow core	32-33
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264 SDS-plus locating shanks for chucks	37

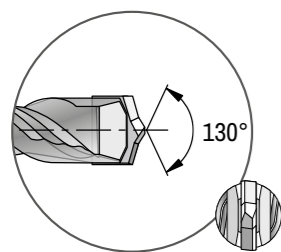
HAMMER DRILL BITS

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.



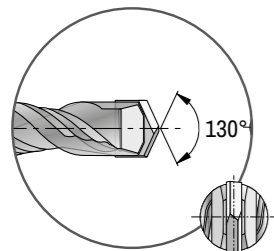
SDS-PLUS MS5 TURBOHEAD XPRO

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.



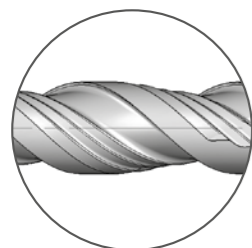
SDS-PLUS MS5 TURBOKEIL

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.



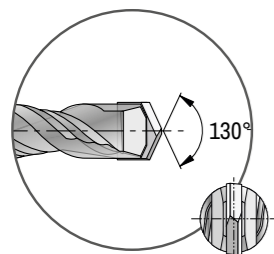
SDS-PLUS MS5 VARIO

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



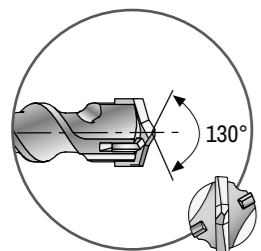
MS5 HELIX

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.



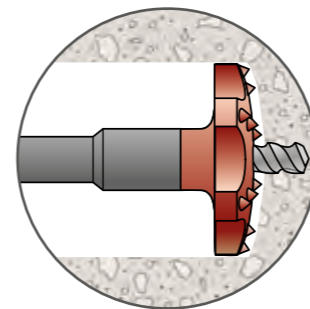
SDS-PLUS KEILRAPID

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



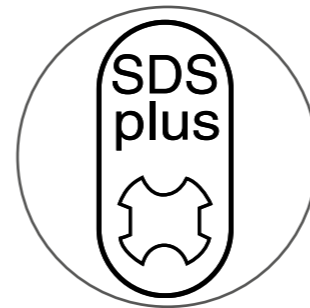
HAMMER DRILL BIT TURBOKEIL X-SHAPE

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.

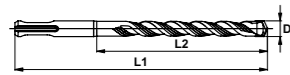


LOW HAND-ARM-VIBRATION

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!

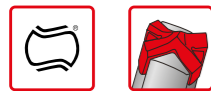
SDS-PLUS MS5 TURBOHEAD XPRO | 251



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

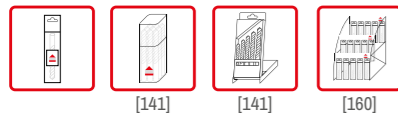
FOR USE IN



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 Ø mm	D Ø "	L2 mm	L1 mm	PK	EAN 4016707...	HT2345	€
5,0	3/16	50	110	10	902000	251 050 110	9,98
5,0	3/16	100	160	10	902017	251 050 160	11,53
5,0	3/16	150	210	10	902024	251 050 210	14,51
5,0	3/16	200	260	10	914553	251 050 260	19,82
5,5	7/32	50	110	10	912641	251 055 110	10,70
5,5	7/32	100	160	10	912634	251 055 160	12,40
5,5	7/32	150	210	10	912627	251 055 210	15,58
5,5	7/32	200	260	10	912757	251 055 260	20,64
6,0	15/64	50	110	10	902031	251 060 110	9,77
6,0	15/64	100	160	10	902048	251 060 160	10,98
6,0	15/64	150	210	10	902055	251 060 210	17,13
6,0	15/64	200	260	10	902062	251 060 260	20,23
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6,5	1/4	160	210	10	904639	251 065 210	18,15
6,5	1/4	200	260	10	904646	251 065 260	22,86
6,5	1/4	250	310	1	914560	251 065 310	26,28
8,0	5/16	50	110	10	902109	251 080 110	12,19
8,0	5/16	100	160	10	902116	251 080 160	13,28
8,0	5/16	150	210	10	902123	251 080 210	16,59
8,0	5/16	200	260	10	902130	251 080 260	19,55
8,0	5/16	250	310	1	904653	251 080 310	25,36
8,0	5/16	300	360	1	904660	251 080 360	30,93
8,0	5/16	400	460	1	904677	251 080 460	45,86
10,0	3/8	100	160	10	902154	251 100 160	16,11
10,0	3/8	150	210	10	902161	251 100 210	19,66
10,0	3/8	200	260	10	902178	251 100 260	22,75
10,0	3/8	250	310	1	902185	251 100 310	26,76
10,0	3/8	310	360	1	904684	251 100 360	32,79
10,0	3/8	400	460	1	902208	251 100 460	45,20
10,0	3/8	540	600	1	914577	251 100 600	58,10
12,0	15/32	100	160	10	902215	251 120 160	18,28
12,0	15/32	150	210	10	902222	251 120 210	21,57
12,0	15/32	200	260	10	902239	251 120 260	26,86
12,0	15/32	250	310	1	902246	251 120 310	31,73
12,0	15/32	400	450	1	902253	251 120 450	48,25
12,0	15/32	540	600	1	914584	251 120 600	67,06
14,0	17/32	100	160	10	902260	251 140 160	24,63
14,0	17/32	150	210	10	902277	251 140 210	28,29
14,0	17/32	200	260	10	902284	251 140 260	31,47
14,0	17/32	250	310	1	904691	251 140 310	35,73
14,0	17/32	400	450	1	902291	251 140 450	52,02
14,0	17/32	540	600	1	914591	251 140 600	70,02

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

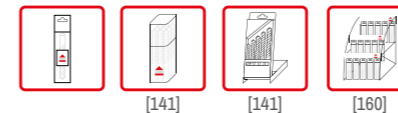
FOR USE IN



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 Ø mm	D Ø "	L2 mm	L1 mm	PK	EAN 4016707...	HT2345	€
16,0	39/64	100	160	1	904707	251 160 160	31,70
16,0	39/64	150	210	1	904714	251 160 210	35,36
16,0	39/64	200	260	1	904721	251 160 260	38,42
16,0	39/64	400	450	1	904738	251 160 450	56,23
16,0	39/64	540	600	1	914607	251 160 600	75,71
18,0	11/16	200	250	1	914614	251 180 250	56,83
18,0	11/16	400	450	1	914737	251 180 450	70,05
20,0	49/64	200	250	1	914744	251 200 250	69,17
20,0	49/64	400	450	1	914751	251 200 450	85,06
20,0	49/64	550	600	1	914768	251 200 600	103,01



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 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

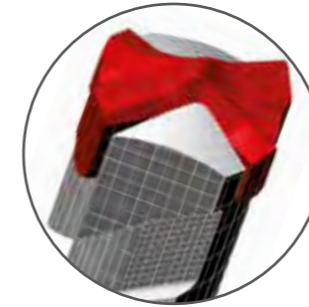
- Resistant against reinforced concrete
- Considerably less friction
- Faster removal of drill dust and optimum start of drilling
- High drilling speed with less wear
- Less heat development with lower power input

TURBOHEAD XPRO

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

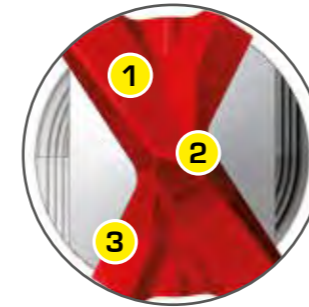
1. FASTER

- 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 und 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

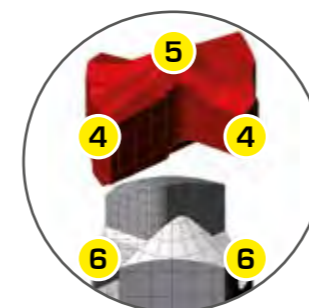
- For optimized use from the impact energy from hammer drill
- By a conception with six separate sections.

5. OPTIMAL USE

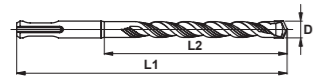
- By different setting depth of the full-head carbide.

6. SHEARING FORCES

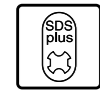
- Distribution of the shear forces on 2 levels
- By the different setting depths of the major and the side plates, the cutting forces will be spread on 2 levels and secure a long tool life.



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



DRIVE



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

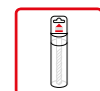
FOR USE IN



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

D Ø mm	D Ø "	L2 mm	L1 mm	Box	EAN 4016707...	12345	€
22,0	7/8	400	450	1	326066	252 122 450	57,26
24,0	15/16	400	450	1	326073	252 124 450	63,21
25,0	1	400	450	1	326080	252 125 450	68,77
28,0	1 1/8	400	450	1	326097	252 128 450	73,39
30,0	1 3/16	400	450	1	326103	252 130 450	79,58

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

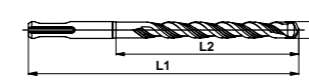
- Optimum vibration behaviour
- Reduced friction
- Maximum transfer of energy
- Guided centrally
- Stability against torsional loads
- Precise hole
- Reduced noise emissions
- Rapid spoil removal due to large grooves and double helix
- Protection of man and machine
- Noticeably longer life



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

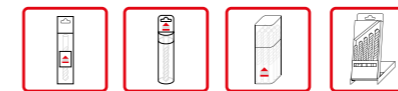
FOR USE IN



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

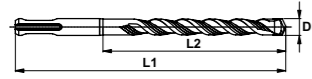


Comments

- 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 Ø mm	D Ø "	L2 mm	L1 mm	Box	EAN 4016707...	12345	€
3,5	9/64	35	100	10	323751	253 035 100	6,20
4,0	5/32	50	110	10	322136	253 040 110	6,80
4,0	5/32	100	160	10	328008	253 040 160	7,36
5,0	3/16	50	110	10	322006	253 050 110	5,35
5,0	3/16	100	160	10	322013	253 050 160	6,20
5,0	3/16	150	210	10	323560	253 050 210	7,79
5,0	3/16	200	260	10	324307	253 050 260	11,23
5,0	3/16	260	310	1	904769	253 050 310	13,05
5,0	3/16	350	410	1	904776	253 050 410	17,88
5,5	7/32	50	110	10	322952	253 055 110	5,93
5,5	7/32	100	160	10	322969	253 055 160	6,75
5,5	7/32	200	260	10	322976	253 055 260	11,23
6,0	15/64	50	110	10	322020	253 060 110	5,25
6,0	15/64	70	135	10	328015	253 060 135	5,87
6,0	15/64	100	160	10	322037	253 060 160	5,90
6,0	15/64	150	210	10	320903	253 060 210	9,61
6,0	15/64	200	260	10	320910	253 060 260	11,54
6,0	15/64	300	360	1	323768	253 060 360	14,66
6,0	15/64	400	460	1	328022	253 060 460	19,36
6,5	1/4	50	110	10	322143	253 065 110	6,24
6,5	1/4	100	160	10	322150	253 065 160	7,65
6,5	1/4	150	210	10	328039	253 065 210	10,89
6,5	1/4	200	260	10	328046	253 065 260	11,78
7,0	9/32	50	110	10	322167	253 070 110	7,01
7,0	9/32	100	160	10	322174	253 070 160	7,73
8,0	5/16	50	110	10	322044	253 080 110	7,01
8,0	5/16	100	160	10	322051	253 080 160	7,14
8,0	5/16	150	210	10	322068	253 080 210	8,90
8,0	5/16	200	260	10	320927	253 080 260	10,49
8,0	5/16	250	310	1	328060	253 080 310	13,70
8,0	5/16	400	460	1	323546	253 080 460	24,62
8,0	5/16	550	600	1	323775	253 080 600	37,33
9,0	11/32	100	160	10	323232	253 090 160	9,57
9,0	11/32	200	260	10	328077	253 090 260	12,69
10,0	3/8	50	110	10	322181	253 100 110	8,31
10,0	3/8	100	160	10	322075	253 100 160	8,63
10,0	3/8	150	210	10	322082	253 100 210	10,55
10,0	3/8	200	260	10	320934	253 100 260	12,21
10,0	3/8	250	310	1	328084	253 100 310	14,36
10,0	3/8	300	360	1	328091	253 100 360	17,30
10,0	3/8	350	410	1	328107	253 100 410	20,61
10,0	3/8	400	460	1	320941	253 100 460	24,03
10,0	3/8	550	600	1	328114	253 100 600	33,20
10,0	3/8	950	1.000	1	328121	253 101 000	70,62
11,0	13/32	100	160	10	328138	253 110 160	10,20
11,0	13/32	200	260	10	328145	253 110 260	13,90

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

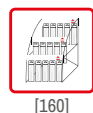
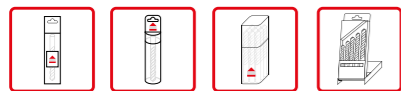
ANWENDUNG



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

D ø mm	D ø "	L2 mm	L1 mm	Box	EAN 4016707...	12345	€
12,0	15/32	100	160	10	322099	253 120 165	9,82
12,0	15/32	150	210	10	322105	253 120 215	11,57
12,0	15/32	200	260	10	320958	253 120 265	14,42
12,0	15/32	250	310	1	328152	253 120 310	17,89
12,0	15/32	350	400	1	328169	253 120 400	20,94
12,0	15/32	400	450	1	320965	253 120 450	24,16
12,0	15/32	550	600	1	328176	253 120 600	37,33
12,0	15/32	950	1.000	1	328183	253 121 000	82,22
13,0	1/2	100	160	10	328190	253 130 160	13,02
13,0	1/2	200	260	10	328206	253 130 265	15,86
14,0	17/32	100	160	10	322198	253 140 165	13,21
14,0	17/32	150	210	10	322204	253 140 215	15,97
14,0	17/32	200	260	10	320972	253 140 265	16,30
14,0	17/32	250	310	1	328213	253 140 310	19,63
14,0	17/32	400	450	1	320989	253 140 450	28,43
14,0	17/32	550	600	1	328220	253 140 600	39,24
14,0	17/32	950	1.000	1	328237	253 141 000	90,09
15,0	19/32	100	160	10	328244	253 150 160	15,54
15,0	19/32	150	210	10	328251	253 150 210	17,31
15,0	19/32	200	260	10	328268	253 150 260	20,11
15,0	19/32	400	450	1	323782	253 150 450	35,61
16,0	39/64	100	160	10	322662	253 160 165	18,29
16,0	39/64	150	210	10	322679	253 160 215	19,96
16,0	39/64	200	260	10	320996	253 160 265	19,43
16,0	39/64	250	310	1	328275	253 160 310	27,52
16,0	39/64	350	400	1	328282	253 160 400	34,60
16,0	39/64	400	450	1	321009	253 160 450	38,78
16,0	39/64	550	600	1	328299	253 160 600	42,41
16,0	39/64	750	800	1	328305	253 160 800	64,15
16,0	39/64	950	1.000	1	328312	253 161 000	94,38
17,0	21/32	150	210	5	328329	253 170 200	26,35
18,0	11/16	150	200	5	323256	253 180 200	32,40
18,0	11/16	250	300	1	328336	253 180 300	39,98
18,0	11/16	400	450	1	323263	253 180 450	43,14
18,0	11/16	550	600	1	323270	253 180 600	55,12
18,0	11/16	950	1.000	1	323430	253 181 000	98,24
19,0	23/32	200	250	5	323287	253 190 250	37,25
19,0	23/32	400	450	1	323294	253 190 450	44,99
20,0	49/64	150	200	5	323300	253 200 200	38,12
20,0	49/64	250	300	1	323317	253 200 300	46,08
20,0	49/64	400	450	1	323324	253 200 450	50,22
20,0	49/64	550	600	1	323331	253 200 600	62,28
20,0	49/64	950	1.000	1	323447	253 201 000	105,04
22,0	27/32	200	250	1	323348	253 220 250	57,59
22,0	27/32	400	450	1	323355	253 220 450	77,04
22,0	27/32	550	600	1	323362	253 220 600	87,06

SDS-PLUS MS5 TURBOKEIL | 253



DRIVE



EXECUTION



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

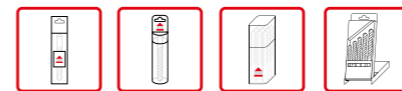
ANWENDUNG



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



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 ø mm	D ø "	L2 mm	L1 mm	Box	EAN 4016707...	12345	€
22,0	27/32	950	1.000	1	323454	253 221 000	120,23
24,0	59/64	200	250	1	323379	253 240 250	64,32
24,0	59/64	400	450	1	323386	253 240 450	81,96
25,0	31/32	200	250	1	323393	253 250 250	67,02
25,0	31/32	400	450	1	323409	253 250 450	93,46
25,0	31/32	950	1.000	1	323799	253 251 000	148,82
26,0	1	100	160	1	323980	253 260 160	64,53
26,0	1	200	250	1	323416	253 260 250	72,69
26,0	1	400	450	1	323423	253 260 450	89,22

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.

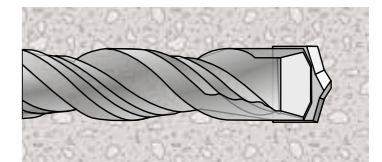
TURBOKEIL with centring tip for precisely drilling.

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

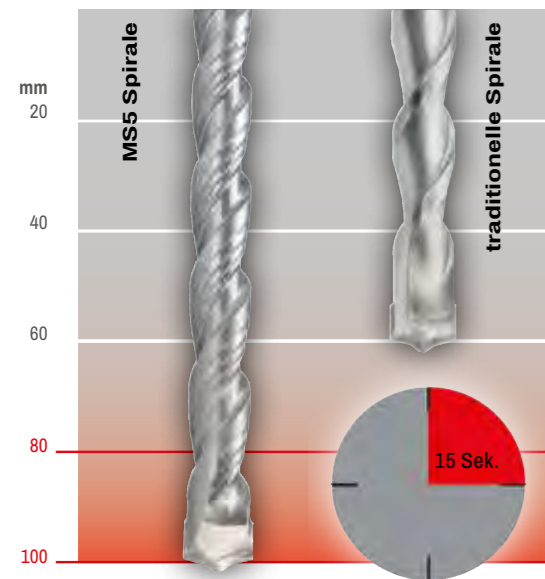
MULTI STEP FLUTE

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



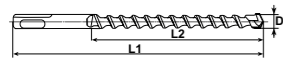
D ø mm	D ø "	L2 mm	L1 mm	Box	EAN 4016707...	Part No.	Price €
5,0	3/16	50	110	10	320026	255 050 115	4,94
5,0	3/16	100	160	10	320040	255 050 165	5,74
6,0	15/64	50	110	10	320071	255 060 115	4,87
6,0	15/64	100	160	10	320088	255 060 165	5,44
6,0	15/64	150	210	10	320095	255 060 210	8,74
6,0	15/64	200	260	10	320101	255 060 260	10,43
8,0	5/16	50	110	10	320156	255 080 115	6,47
8,0	5/16	100	160	10	320170	255 080 165	6,59
8,0	5/16	150	210	10	320187	255 080 215	8,24
8,0	5/16	200	260	10	320194	255 080 260	9,71
10,0	3/8	50	110	10	320200	255 100 110	7,68
10,0	3/8	100	160	10	320217	255 100 165	7,99
10,0	3/8	150	210	10	320224	255 100 215	9,77
10,0	3/8	200	260	10	320231	255 100 265	11,28
12,0	15/32	100	160	10	320309	255 120 165	9,09
12,0	15/32	150	210	10	320316	255 120 215	10,70
12,0	15/32	200	260	10	320323	255 120 265	13,33
14,0	17/32	100	160	10	320354	255 140 165	12,22
14,0	17/32	150	210	10	320361	255 140 215	13,85
14,0	17/32	200	260	10	320378	255 140 265	15,08

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

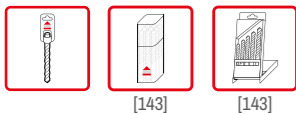
FOR USE IN



APPLICATION

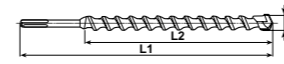
- Reliable entry-level hammer drill bits for all concrete and stone applications
- For drilling into masonry, concrete, aerated concrete and sand lime brick
- Adapter for SDS-plus [36]

PACKAGING



D ø mm	D ø "	L2 mm	L1 mm	PKT	EAN 4016707...	ART 12345	€
4	5/32	50	110	10	918889	256 040 110	5,47
4	5/32	100	160	10	918896	256 040 160	6,03
5	3/16	50	110	10	918902	256 050 110	4,44
5	3/16	100	160	10	918919	256 050 160	4,74
5.5	7/32	50	110	10	918926	256 055 110	4,44
5.5	7/32	100	160	10	918933	256 055 160	4,74
5.5	7/32	150	210	10	918940	256 055 210	5,64
6	15/64	50	110	10	918957	256 060 110	4,33
6	15/64	100	160	10	918971	256 060 160	4,74
6	15/64	150	210	10	918988	256 060 210	8,12
6	15/64	200	260	10	918995	256 060 260	9,81
6.5	1/4	100	180	10	919008	256 065 180	6,03
6.5	1/4	150	210	10	919015	256 065 210	9,33
7	9/32	100	160	10	919022	256 070 160	6,35
7	9/32	150	210	10	919039	256 070 210	7,96
8	5/16	50	110	10	919046	256 080 110	5,72
8	5/16	100	160	10	919053	256 080 160	5,88
8	5/16	150	210	10	919060	256 080 210	7,03
8	5/16	200	260	10	919077	256 080 260	7,87
9	11/32	100	160	10	919084	256 090 160	5,74
10	3/8	50	110	10	919091	256 100 110	6,60
10	3/8	100	160	10	919114	256 100 160	6,90
10	3/8	150	210	10	919121	256 100 210	7,96
10	3/8	200	260	10	919138	256 100 260	9,81
10	3/8	250	310	1	919145	256 100 310	11,17
10	3/8	400	450	1	919152	256 100 450	16,43
11	13/32	250	310	1	919169	256 110 310	15,70
12	15/32	100	160	1	919176	256 120 160	7,46
12	15/32	150	210	1	919183	256 120 210	8,79
12	15/32	200	260	10	919190	256 120 260	11,17
12	15/32	250	310	10	919206	256 120 310	15,52
12	15/32	400	450	10	919213	256 120 450	19,53
14	17/32	100	160	10	919220	256 140 160	11,42
14	17/32	150	210	10	919237	256 140 210	13,99
14	17/32	200	250	10	919244	256 140 250	15,45
14	17/32	250	310	1	919251	256 140 310	16,43
14	17/32	400	450	1	919268	256 140 450	24,04
16	39/64	100	160	10	919275	256 160 160	15,45
16	39/64	150	210	10	919282	256 160 210	17,12
16	39/64	250	300	1	919299	256 160 300	25,28
16	39/64	400	450	1	919305	256 160 450	33,32
18	11/16	200	260	1	919312	256 180 260	31,54
18	11/16	250	300	1	919329	256 180 300	34,53
18	11/16	400	450	1	919336	256 180 450	36,52
20	49/64	250	300	1	919343	256 200 300	39,67
20	49/64	400	450	1	919350	256 200 450	41,90
22	27/32	400	450	1	919367	256 220 450	66,59
25	1	400	450	1	919374	256 250 450	79,73

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

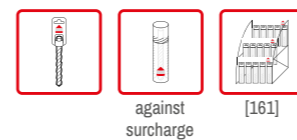
FOR USE IN



APPLICATION

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

PACKAGING

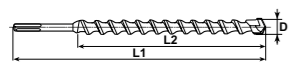


Comments

- 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 ø mm	D ø "	L2 mm	L1 mm	PKT	EAN 4016707...	ART 12345	€
8,0	5/16	200	340	4	914775	270 080 341	35,49
10,0	3/8	200	340	4	914782	270 100 341	36,26
12,0	15/32	200	340	4	914799	270 120 341	37,11
12,0	15/32	400	540	4	914805	270 120 541	45,02
12,0	15/32	550	690	4	914812	270 120 691	56,93
14,0	9/16	200	340	4	914829	270 140 341	38,85
14,0	9/16	400	540	4	914836	270 140 541	47,08
15,0	19/32	200	340	2	360282	270 150 340	40,24
15,0	19/32	400	540	2	360459	270 150 540	47,96
16,0	5/8	200	340	4	914843	270 160 341	43,56
16,0	5/8	400	540	4	914850	270 160 541	52,80
16,0	5/8	800	940	4	914867	270 160 941	77,63
18,0	11/16	200	340	4	914874	270 180 341	44,89
18,0	11/16	400	540	4	914881	270 180 541	55,27
18,0	11/16	800	940	4	914898	270 180 941	80,30
20,0	3/4	200	320	4	914904	270 200 321	46,76
20,0	3/4	400	520	4	914911	270 200 521	55,27
20,0	3/4	800	920	4	914928	270 200 921	87,66
20,0	3/4	1.200	1.320	4	914935	270 201 321	183,13
22,0	7/8	200	320	4	360114	270 220 320	53,76
22,0	7/8	400	520	4	360121	270 220 520	59,76
22,0	7/8	800	920	4	360398	270 220 920	90,06
22,0	7/8	1.200	1.320	4	360756	270 221 320	191,23
24,0	15/16	200	320	4	360138	270 240 320	58,91
24,0	15/16	400	520	4	360367	270 240 520	67,50
25,0	1	200	320	4	360145	270 250 320	60,12
25,0	1	400	520	4	360152	270 250 520	66,21
25,0	1	800	920	4	360169	270 250 920	108,03
25,0	1	1.200	1.320	4	360428	270 251 320	212,13
28,0	1 1/8	250	370	4	360176	270 280 370	66,21
28,0	1 1/8	450	570	4	360183	270 280 570	77,14
28,0	1 1/8	550	670	4	360848	270 280 670	85,07
30,0	1 3/16	250	370	4	360190	270 300 370	71,88
30,0	1 3/16	450	570	4	360206	270 300 570	83,62
32,0	1 1/4	250	370	4	360213	270 320 370	76,04
32,0	1 1/4	450	570	4	360220	270 320 570	91,74
32,0	1 1/4	800	920	4	360237	270 320 920	134,14
32,0	1 1/4	1.200	1.320	4	360435	270 321 320	230,56
35,0	1 3/8	250	370	4	360244	270 350 370	88,92
35,0	1 3/8	450	570	4	360251	270 350 570	105,38
35,0	1 3/8	550	670	4	360855	270 350 670	114,28
38,0	1 1/2	250	370	4	360268	270 380 370	107,77
38,0	1 1/2	450	570	4	360275	270 380 570	121,19
40,0	1 9/16	250	370	4	360862	270 400 370	139,21
40,0	1 9/16	450	570	4	360299	270 400 570	154,07
40,0	1 9/16	800	920	4	360404	270 400 920	202,46

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



DRIVE



D Ø mm	D Ø 1/2"	L2 mm	L1 mm	2/4	SE	EAN 4016707	12345	€
40,0	1 9/16	1.200	1.320	4	1	360442	270 401 320	292,14
45,0	1 3/4	450	570	4	1	360763	270 450 570	195,48
45,0	1 3/4	800	920	4	1	360770	270 450 920	260,14
50,0	2	450	570	4	1	360794	270 500 570	237,45

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

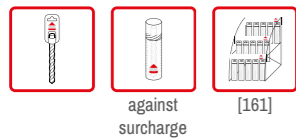
FOR USE IN



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

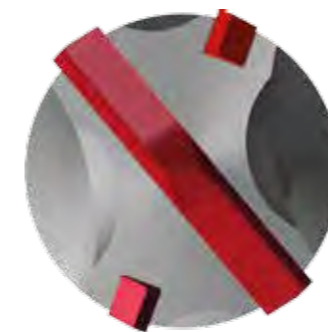
- Maximum transfer of energy
- Guided centrally
- Optimum vibration behaviour
- Reduced friction
- Stability against torsional loads
- Precise hole
- Optimum spoil removal due to large grooves and double helix
- Protection of operator and machine
- Reduced noise emissions
- Noticeably longer life

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.

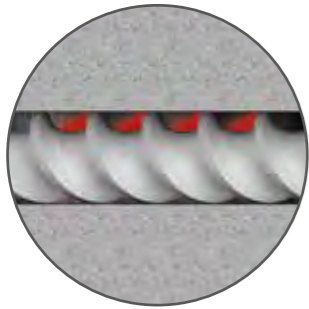


SDS-MAX W2

TURBOHEAD XPRO UND TURBOKEIL X-FORM

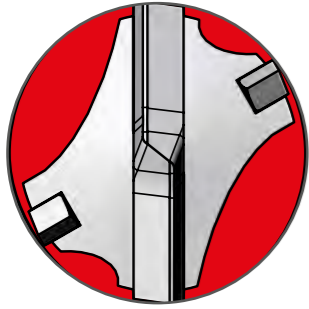
APPROVED DOUBLE FLUTE W2

- 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.



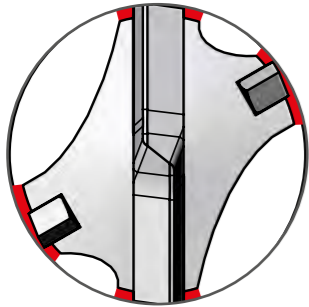
LARGE ENTRY GROOVES

- 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



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



D Ø mm	D Ø "	L2 mm	L1 mm	Box	EAN 4016707...	12345	€	
14,0	17/32	400	600	1	919480	273 140 600	196,79	
16,0	39/64	400	600	1	919497	273 160 600	207,15	
18,0	11/16	400	600	1	919503	273 180 600	217,51	
20,0	49/64	400	600	1	919510	273 200 600	227,87	
22,0	27/32	400	600	1	919527	273 220 600	238,23	
24,0	59/64	400	600	1	919534	273 240 600	248,59	
25,0	31/32	400	600	1	919541	273 250 600	258,95	
28,0	1 1/8	400	600	1	919558	273 280 600	269,31	
30,0	1 3/16	400	600	1	919565	273 300 600	300,39	
32,0	1 1/4	400	600	1	919572	273 320 600	331,47	
35,0	1 3/8	400	600	1	919589	273 350 600	352,19	
				SDS-max Adapter	1	919596	273 000 001	20,15

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-PLUS TURBOCLEAN EXTRACTION DRILL BIT | 272



DRIVE



D Ø mm	D Ø "	L2 mm	L1 mm		EAN 4016707...		€
8	5/16	150	270	1	919381	272 080 270	44,50
10	3/8	150	270	1	919398	272 100 270	45,53
12	15/32	200	320	1	919404	272 120 320	46,57
14	17/32	250	370	1	919411	272 140 370	56,93
16	39/64	250	370	1	919428	272 160 370	62,11
18	11/16	250	370	1	919435	272 180 370	82,83
20	49/64	250	370	1	919442	272 200 370	103,55
24	59/64	250	370	1	919459	272 240 370	124,27
SDS-plus Adapter				1	919466	272 000 001	19,08

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

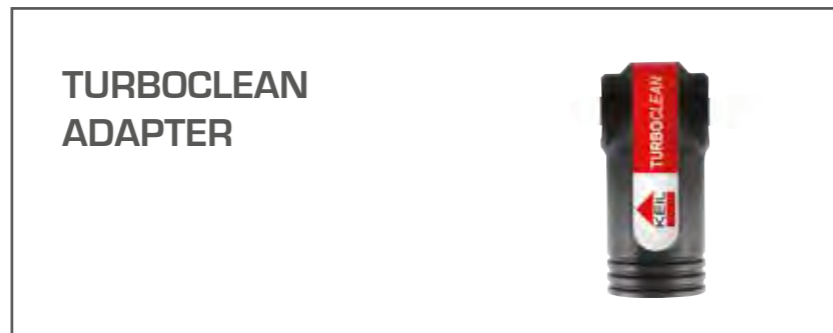
FOR USE IN



APPLICATION

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

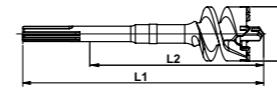
PACKAGING



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 Ø mm	D Ø "	L2 mm	L1 mm		EAN 4016707...		€
55,0	2 3/16	480	590	1	91808	269 551 590	267,03
55,0	2 3/16	880	990	1	91809	269 551 990	314,04
65,0	2 5/8	480	590	1	91807	269 651 590	292,04
65,0	2 5/8	880	990	1	91810	269 651 990	338,93
80,0	3 1/8	480	590	1	91811	269 801 590	324,33
80,0	3 1/8	880	990	1	91812	269 801 990	420,35

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

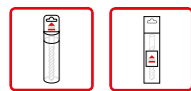
FOR USE IN



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"	25,67	35,93	26,46	37,04	27,25	38,15	28,05	39,27
	6	15/64"	27,13	37,98	27,97	39,16	28,81	40,33	29,65	41,50
	6,5	1/4"	29,27	40,97	30,17	42,24	31,08	43,51	31,98	44,78
	8	5/16"	31,52	44,13	32,49	45,49	33,47	46,86	34,44	48,22
	10	3/8"	33,09	46,33	34,12	47,77	35,14	49,20	36,17	50,63



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"	32,08	44,91	33,07	46,30	34,07	47,69	35,06	49,08
	6	15/64"	33,91	47,48	34,96	48,94	36,01	50,41	37,06	51,88
	6,5	1/4"	36,58	51,22	37,72	52,80	38,85	54,39	39,98	55,97
	8	5/16"	39,40	55,16	40,62	56,86	41,84	58,57	43,05	60,28
	10	3/8"	41,37	57,92	42,65	59,71	43,93	61,50	45,21	63,29



A-CONE MS5 HAMMER DRILL BIT

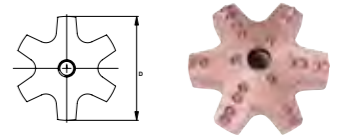
Working length up to collar in mm	Ø mm	Ø ANSI	TURBO-KEIL	TURBO-HEAD	TURBO-KEIL	TURBO-HEAD	TURBO-KEIL	TURBO-HEAD	TURBO-KEIL	TURBO-HEAD
			50/110	100/160	150/210	200/160				
Production to order, delivery time on request, minimum order quantity of 100 pcs. per desired item. Other sizes available upon request	5	3/16"	6,41	11,87	7,44	13,76	9,35	17,29	13,47	24,92
	6	15/64"	6,30	11,65	7,08	13,10	10,33	19,12	10,92	20,21
	6,5	1/4"	7,49	13,86	9,18	16,98	10,81	19,99	11,81	21,84
	8	5/16"	8,41	15,56	8,57	15,85	10,68	19,76	12,59	23,28
	10	3/8"	9,97	18,45	10,36	19,16	12,66	23,43	14,65	27,10



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	183,87
	500	229,90
	650	267,93
	800	297,40

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 Ø mm	D Ø "	1	EAN 4016707...	259 000 035	126,24
35,0	1 3/8	1	300011	259 000 035	126,24
42,0	1 11/16	1	300035	259 000 042	152,72
45,0	1 3/4	1	300042	259 000 045	169,16
52,0	2 1/16	1	300066	259 000 052	192,71
55,0	2 3/16	1	300073	259 000 055	194,14
60,0	2 3/8	1	300080	259 000 060	223,99
65,0	2 5/8	1	300097	259 000 065	260,75
70,0	2 3/4	1	300103	259 000 070	277,06
80,0	3 1/16	1	300110	259 000 080	294,15
90,0	3 9/16	1	300127	259 000 090	343,30
100,0	3 15/16	1	300134	259 000 100	367,80
110,0	4 3/8	1	300141	259 000 110	459,62
125,0	5	1	300158	259 000 125	526,33
135,0	5 5/16	1	300165	259 000 135	704,87
150,0	6	1	300172	259 000 150	771,49

BREAK-THROUGH CORE DRILL BIT WITH RATIO THREAD

With self-sharpening carbide studs:

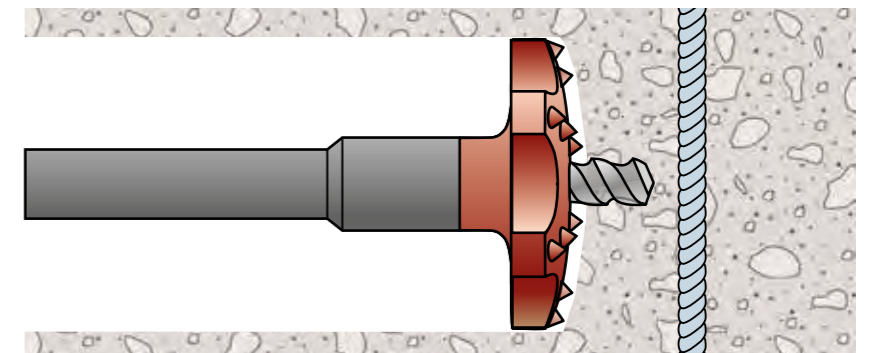
- High drilling power due to wear-resistant carbide studs which sharpen automatically during cutting
- Ideal for use in hard, dry concrete, granite and very hard stone

The advantages:

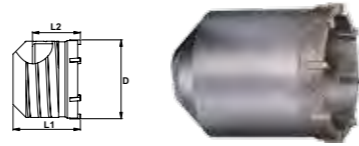
- Economic drilling in concrete, masonry and lightly reinforced concrete from Ø35 to Ø150mm diameter and to a depth of up to 2 metres
- Above average tool life
- Smooth breakthroughs through concrete and masonry up to large diameters due to practical designs.
- The system can be extended as required 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)

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 Ø mm	D Ø "	L2 mm	L1 mm		EAN 4016707...	12345	€
40,0	1 9/16	75	100	1	300523	259 700 040	74,85
50,0	2	75	100	1	300462	259 700 050	83,31
60,0	2 3/8	75	100	1	300592	259 700 060	95,67
65,0	2 5/8	75	100	1	300479	259 700 065	99,23
80,0	3 1/8	75	100	1	300486	259 700 080	118,05
90,0	3 9/16	75	100	1	300493	259 700 090	136,00
100,0	3 15/16	75	100	1	300509	259 700 100	156,94
110,0	4 3/8	75	100	1	300547	259 700 110	163,85
125,0	5	75	100	1	300608	259 700 125	234,01

FOR USE IN



CUTTING HELIX



APPLICATION

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

PACKAGING



EXTENSION WITH RATIO THREADED BOLT



L1 mm		EAN 4016707...	12345	€
300	1	300189	259 300 000	75,85
450	1	300196	259 450 000	93,08

THREADED BOLT WITH RATIO THREAD



L1 mm		EAN 4016707...	12345	€
60	1	300219	259 000 001	10,05

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 Ø mm	D Ø "	L1 mm		EAN 4016707...	12345	€	
12,0	15/32	155	Hammer hollow core	1	300516	259 120 155	21,42
16,0	5/8	124	Break through core	1	300226	259 160 124	22,97
16,0	5/8	174	Break through core	1	300233	259 160 174	24,80

THREAD GREASE 120 GRAMS, WATERPROOF, HEAT RESISTANT



	EAN 4016707...	12345	€
1	300554	259 008 010	5,45

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 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).

The principle:

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

ADAPTERS WITH RATIO THREAD | 259



EXECUTION

- Internal thread RATIO rd 14 2gg

APPLICATION

- For locking of core bits with ratio thread

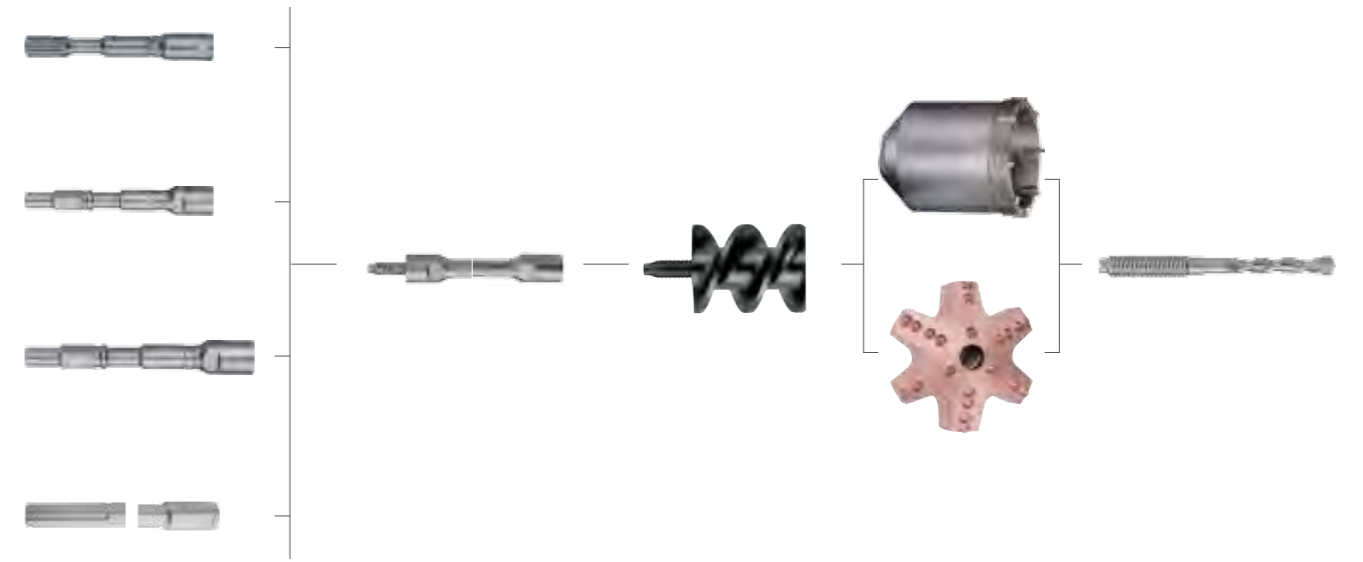
PACKAGING



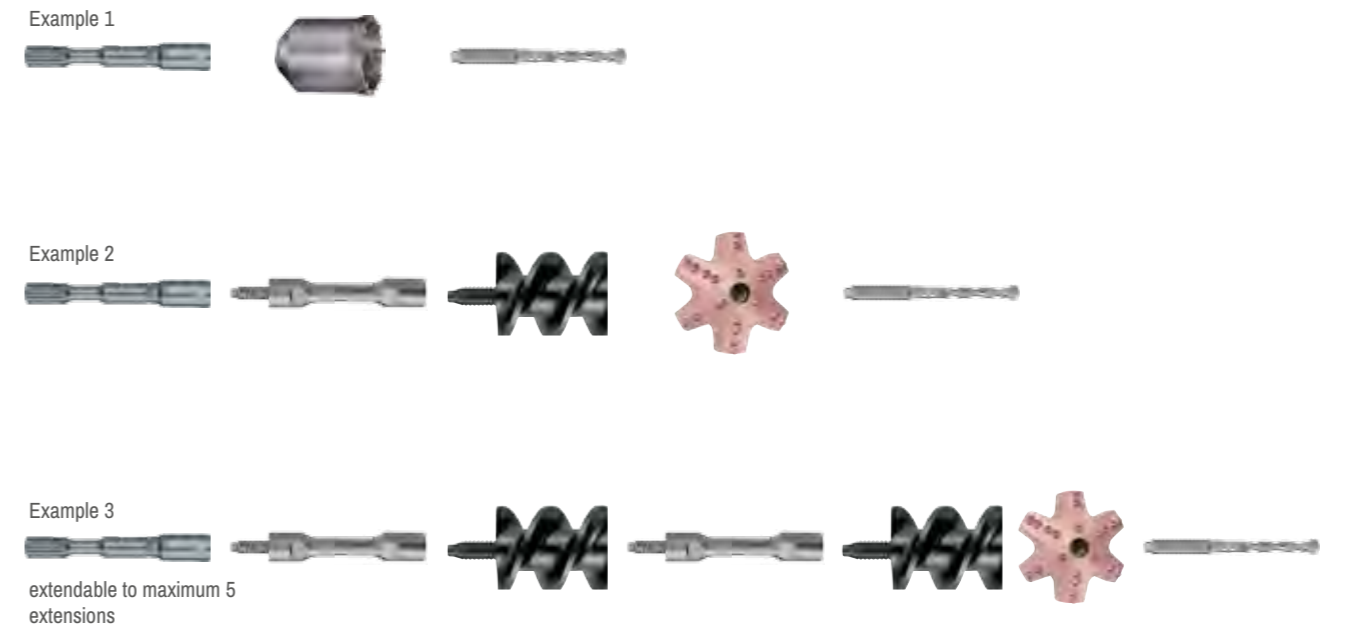
DRIVE		L1 mm	12345	EAN 4016707...	€
	SDS-plus HILTI TE-C	110	259 170 000	300271	41,23
	SDS-max HILTI TE-Y	190 400 575 975	259 150 000 259 150 400 259 150 575 259 150 975	300301 300615 300578 300585	50,25 68,78 72,74 110,07
	Spline Shank	175	259 110 000	300240	53,56
	Hitachi DH 38 YB, DH 45 SA, H 41 SA, H 65 SB, VRY 38, DH 28 Y; Makita 8022B-8035B, Ryobi CH 450 P, ER 382 K	170	259 120 000	300257	53,56
	Duss P60 - P90	200	259 180 000	300318	64,37
	Kango 950, 950x, 900x, 928 1400; Hitachi DH50SA	210	259 160 000	300295	64,37
	Wacker E HUB 10 Y, EH8/220, BHB 14	185	259 190 000	300325	64,37

SYSTEM 259 PRODUCT OVERVIEW | 259

ADAPTOR EXTENSION WITH THREADED BOLT STEEL HELIX CORE DRILL BIT DRILL BIT



EXAMPLES



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		L1 mm		EAN 4016707...	€
	SDS-top HILTI TE-T		225	265 160 000 270314	103,01
	SDS-max HILTI TE-Y		225	265 150 000 270239	66,79
	spline shank		225	265 110 000 270192	88,98
	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		225	265 120 000 270208	92,70
	Duss P20 - P30; Duss P28, P28S, P30		225	265 130 000 270215	93,55

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

DRIVE



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

PACKAGING



DRIVE



EXECUTION

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

PACKAGING



SDS-PLUS LOCATING SHANK FOR CHUCKS



	EAN 4016707...		€
1	270260	264 000 002	7,13

SDS-PLUS LOCATING SHANK FOR BITS AND KEILBIT



	EAN 4016707...		€
1	270253	264 000 001	8,32



KEIL SPECIAL TOOLS

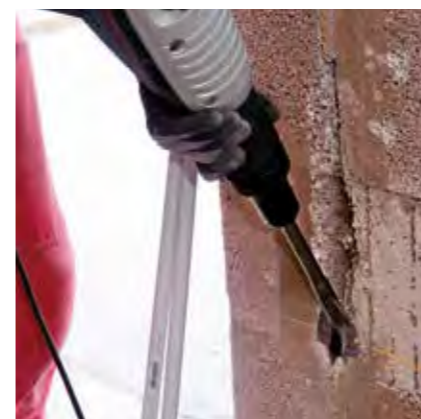
If you are looking for products which cope with your particular exigencies or products which are required for special fields of application, do not hesitate to contact us.

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

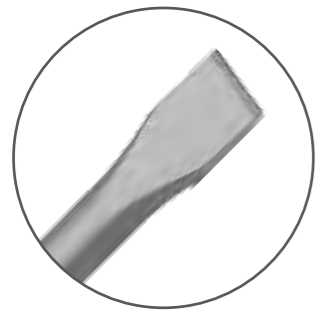
MORTISING, SLOT MILLING OR BREAKING THROUGH



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

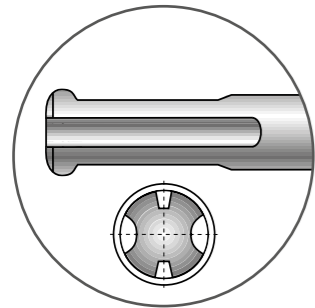
CHISEL

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.



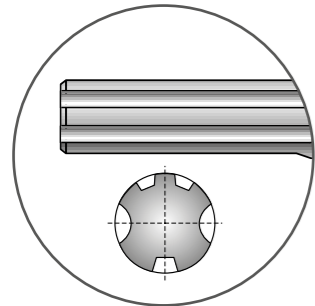
CHISEL

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.



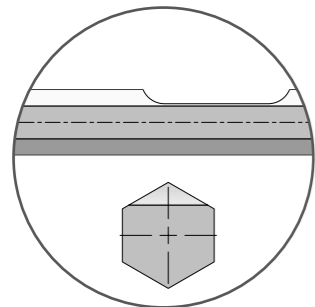
SDS-PLUS DRIVE

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.



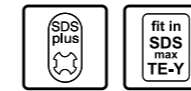
HEXAGONAL DRIVE

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

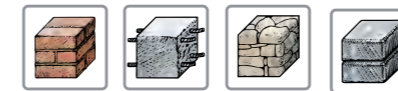
CHISEL RS SDS-PLUS UND SDS-MAX | 500 | 501 | SELF SHARPENING



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 constantly slim surface and strengthening ribs on the sides
- Shot peened and hardened high quality and wear-resistant tool steel

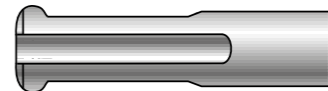
SDS-PLUS / HILTI TE-C

	L1 mm	B mm	EAN 4016707...	12345	€
Point chisel	250		916434	500 000 250	9,12
Flat chisel	250	20	916458	500 120 250	9,12
Spade chisel	250	40	916472	500 240 250	15,84
Scraping chisel	250	60	916489	500 260 250	19,80




SDS-MAX / HILTI TE-Y

	L1 mm	B mm	EAN 4016707...	12345	€
Point chisel	400		916441	501 000 400	15,01
Flat chisel	400	25	916465	501 125 400	15,01
Spade chisel	400	80	916496	501 280 400	47,10



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 continuous 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 mm	B mm	12345	EAN 4016707	€
SDS-plus HILTI TE-C without disabling of rotation		250	502 000 250	260117	8,23	
		140	502 000 140	260254	10,59	
SDS-plus HILTI TE-C		250	502 000 251	260100	6,35	
		140	502 000 140	260254	10,59	
SDS-max HILTI TE-Y		280	503 000 280	260018	9,16	
		400	503 000 400	260025	10,59	
		600	503 000 600	260032	16,81	
Bosch GSH27, USH27, HSH28		400	505 028 400	266010	33,41	
		SW 28				
Makita HM1300, HM1303, HM1304, HM 1400, HM1500, 8900N Hitachi H65SB, H70SA		400	509 030 400	266102	41,21	
		SW 30 Ø 24 x 55 mm				

FLAT CHISEL



EXECUTION

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

FOR USE IN



PACKAGING



SDS-plus
SDS-max [161]

DRIVE		L1 mm	B mm	12345	EAN 4016707	€
SDS-plus HILTI TE-C		140	20	502 120 140	260261	6,27
		250	20	502 120 250	260131	6,52
SDS-max HILTI TE-Y		280	25	503 125 280	260049	9,32
		400	25	503 125 400	260056	10,59
		600	25	503 125 600	260063	16,81
Bosch GSH27, USH27, HSH28		400	35	505 128 400	266027	34,17
		SW 28				
Makita HM1300, HM1303, HM1304, HM 1400, HM1500, 8900N Hitachi H65SB, H70SA		400	32	509 130 400	266119	42,07
		SW 30 Ø 24 x 55 mm				

SPADE CHISEL



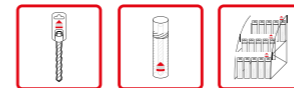
EXECUTION

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

FOR USE IN



PACKAGING



SDS-plus
SDS-max [161]

DRIVE		L1 mm	B mm	12345	EAN 4016707	€
SDS-plus HILTI TE-C		140	30	502 230 140	260278	6,97
		250	40	502 240 250	260148	11,13
SDS-max HILTI TE-Y		300	80	503 280 300	260070	24,64
		400	50	503 250 400	260087	23,25
Bosch GSH27, USH27, HSH28		400	80	505 228 400	266034	62,90
		SW 28				
Makita HM1300, HM1303, HM1304, HM 1400, HM1500, 8900N - HITACHI H65SB, H70SA		400	75	509 230 400	266126	84,23
		SW 30 Ø 24 x 55 mm				

HOLLOW CHISEL



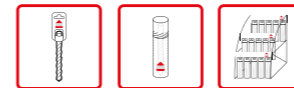
EXECUTION

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

FOR USE IN



PACKAGING



SDS-plus
SDS-max [161]

DRIVE		L1 mm	B mm	12345	EAN 4016707	€
SDS-plus HILTI TE-C		250	22	502 322 250	260155	12,70
		250	22	502 322 250	260155	12,70
SDS-max HILTI TE-Y		300	26	503 326 300	260094	22,89
		300	26	503 326 300	260094	22,89

CHISEL WITH CHANNEL AND GLIDES



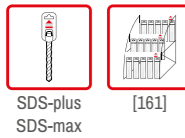
EXECUTION

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

FOR USE IN



PACKAGING



TILE CHISEL



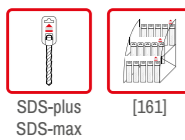
EXECUTION

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

FOR USE IN



PACKAGING

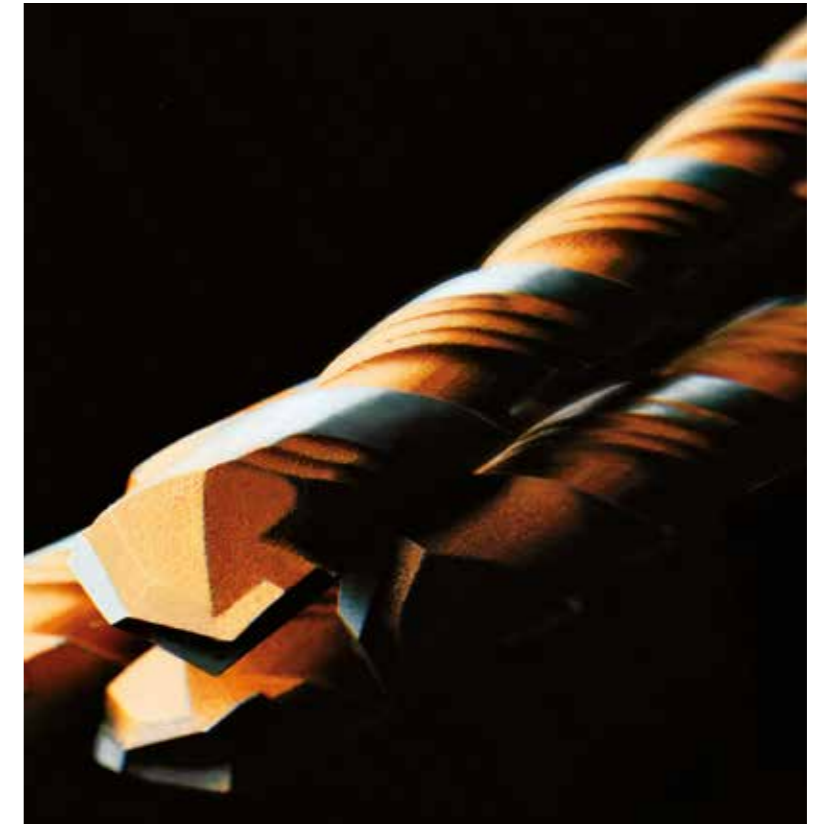


DRIVE		L1 mm	B mm	12345	EAN 4016707...	€
	SDS-plus HILTI TE-C	250	22	502 422 250	260179	33,78
	SDS-max HILTI TE-Y	380	35	503 435 380	260186	62,26

DRIVE		L1 mm	B mm	12345	EAN 4016707...	€
	SDS-plus HILTI TE-C	200	40	502 540 200	260162	16,28
	SDS-max HILTI TE-Y	300	50	503 550 300	260193	21,31

STONE AND SPECIAL DRILL BITS

SIMPLE AND PRECISE

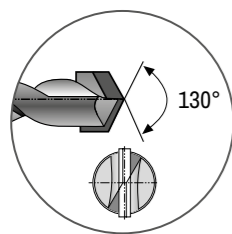


119 219 Universal drill bit GOLDCRAFT	48-49
119 SDS-plus MS5 universal drill bit GOLDCRAFT	50
168 Hard stone drill bit HARDTEC	51
151 Tile / brick drill bit KERAMIK	52-53
786 Tile drill bit KERAMIK diamond - dry drill	54-55
788 Tile drill bit KERAMIK diamond - dry drill M14	54-55
130 Glass drill bit	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

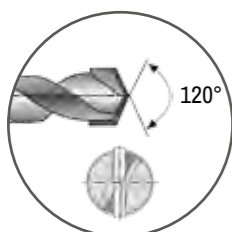
No problem at all.

The percussion drill bit easily and precisely manages each challenge.



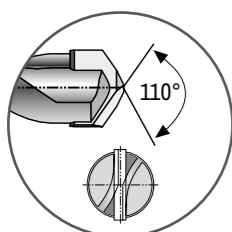
UNIVERSAL DRILL BITS GOLDCRAFT

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.



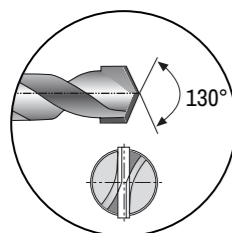
HARD STONE DRILL BIT HARDTEC

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.



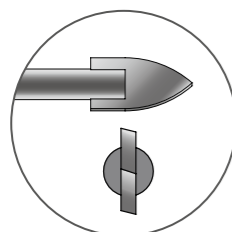
TILE / BRICK DRILL BITS

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.



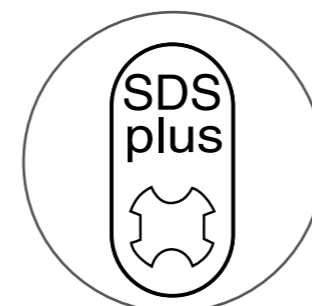
ROTASTOP

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

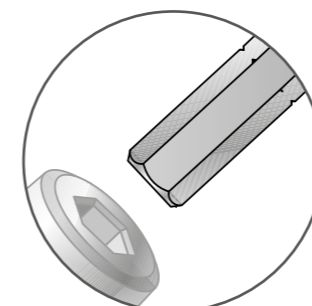
No problem at all.

The percussion drill bit easily and precisely manages each challenge.



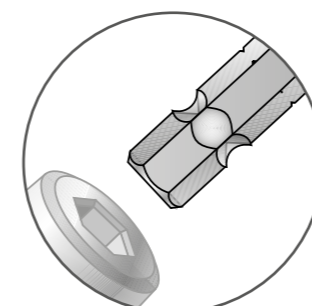
SDS-PLUS LOCKING

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



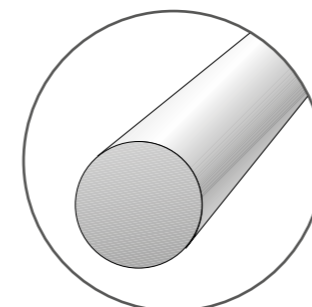
KEILBIT (C 6.3 MM)

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



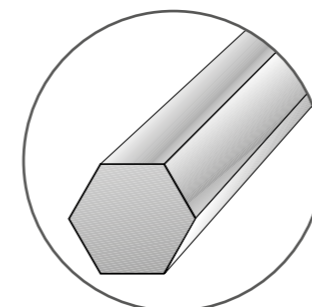
KEILBIT (E 6.3 MM)

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

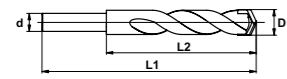
Tools with round shaft are the top selling drilling tools. The round shaft is fitting into all three-jaw chucks and quick change chuck.



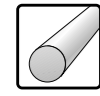
HEXAGONAL SHAFT (10.0 MM)

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

UNIVERSAL DRILL BIT GOLDCRAFT



DRIVE

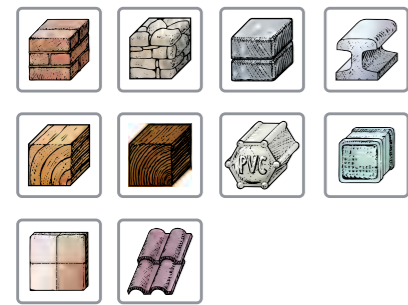


EXECUTION



- 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

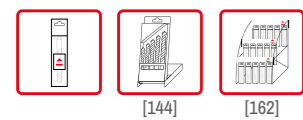
FOR USE IN



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	D	L2	L1	d		EAN		€
Ø mm	Ø "	mm	mm	Ø mm		4016707...	12345	
3,0	1/8	40	70	2,8	20	210013	119 000 030	3,79
4,0	5/32	40	75	3,6	20	210020	119 000 040	3,72
5,0	3/16	50	85	4,6	20	210037	119 000 050	3,99
5,0	3/16	110	150	4,6	10	212017	219 000 050	5,61
5,5	7/32	50	85	5,1	20	210044	119 000 055	4,31
6,0	15/64	60	100	5,6	20	210051	119 000 060	4,37
6,0	15/64	110	150	5,6	10	212024	219 000 060	6,43
6,0	15/64	200	250	5,6	10	916878	219 060 250	10,72
6,5	1/4	60	100	6,1	20	210068	119 000 065	4,66
6,5	1/4	110	150	6,1	10	212031	219 000 065	6,70
6,5	1/4	200	250	6,1	10	916885	219 065 250	11,17
7,0	9/32	60	100	6,6	20	210075	119 000 070	4,95
7,0	9/32	200	250	6,6	10	916892	219 070 250	12,38
8,0	5/16	80	120	7,1	20	210082	119 000 080	5,43
8,0	5/16	135	200	7,3	10	212048	219 000 080	7,99
9,0	11/32	80	120	8,1	20	210099	119 000 090	6,24
10,0	3/8	80	120	8,7	20	210105	119 000 100	7,14
10,0	3/8	135	200	8,7	10	212055	219 000 100	10,25
12,0	15/32	90	150	10,0	10	210112	119 000 120	9,77
12,0	15/32	135	200	10,0	10	212062	219 000 120	13,41
14,0	9/16	90	150	10,0	10	210129	119 000 140	12,34
16,0	5/8	90	150	10,0	10	210310	119 000 160	15,55

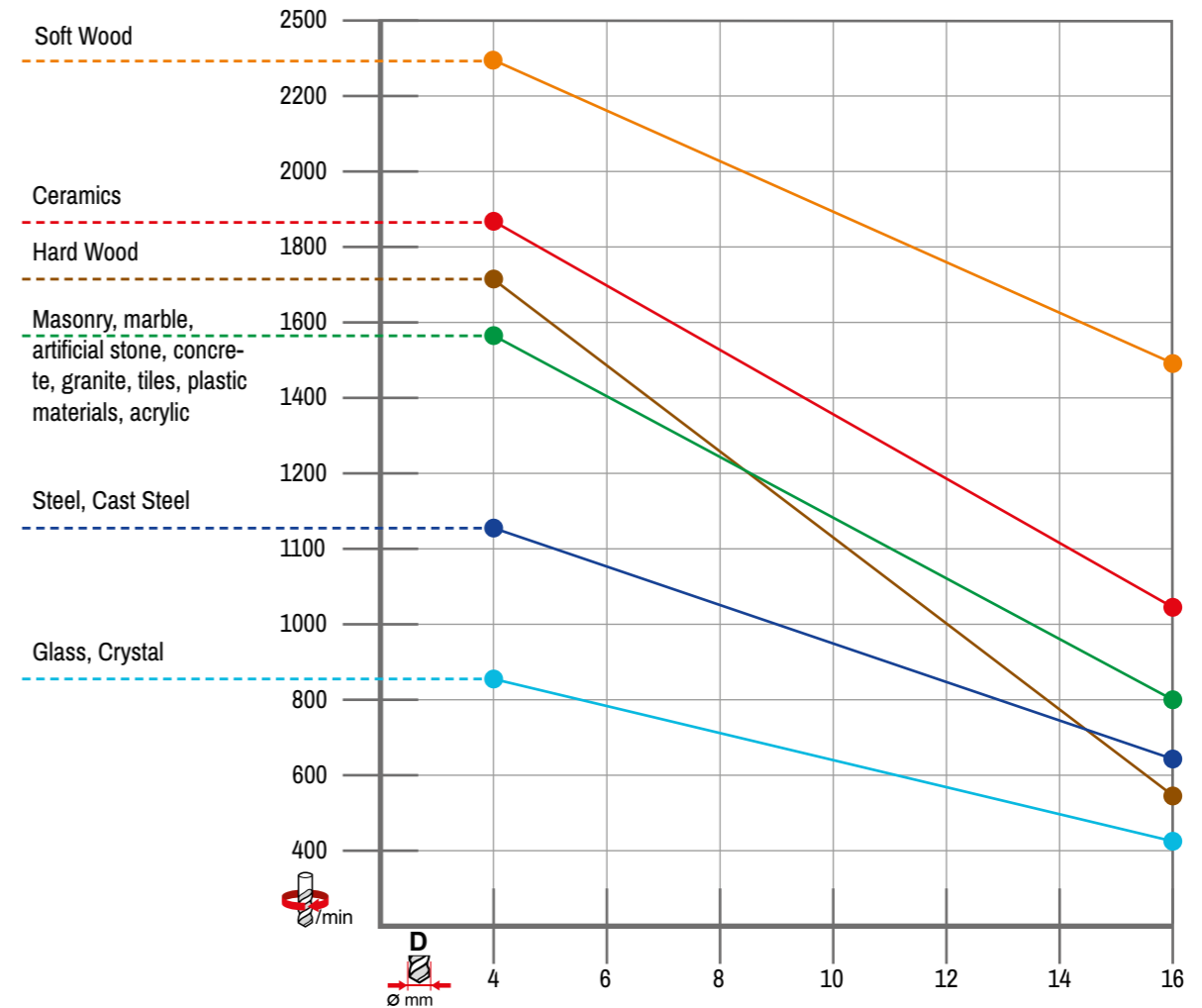
UNIVERSAL DRILL BIT GOLDCRAFT

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.

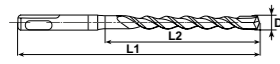
The very hard tungsten-titanium carbide tip makes the drill bit extremely wear resistant.

UNIVERSAL DRILL BIT

GUIDE VALUES FOR UNIVERSAL DRILL BITS GOLDCRAFT



SDS-PLUS UNIVERSAL DRILL BIT GOLDCRAFT | 119



DRIVE



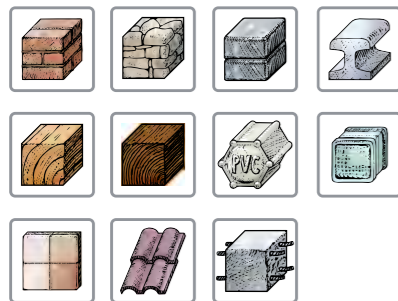
EXECUTION



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

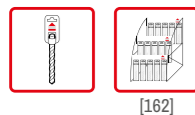
FOR USE IN



APPLICATION

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

PACKAGING



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 Ø mm	D Ø "	L2 mm	L1 mm		EAN 4016707...	12345	€
5,0	3/16	50	110	1	213090	119 255 010	8,96
6,0	15/64	50	110	1	213106	119 255 011	8,91
6,0	15/64	100	160	1	213014	119 255 001	10,05
8,0	5/16	50	110	1	213113	119 255 012	11,65
8,0	5/16	100	160	1	213021	119 255 002	12,03
8,0	5/16	150	210	1	213038	119 255 003	14,28
10,0	3/8	100	160	1	213045	119 255 004	13,99
10,0	3/8	200	260	1	213052	119 255 005	20,02
12,0	15/32	100	165	1	213069	119 255 006	15,37
12,0	15/32	200	260	1	213076	119 255 007	23,67
14,0	9/16	200	265	1	213083	119 255 008	26,63

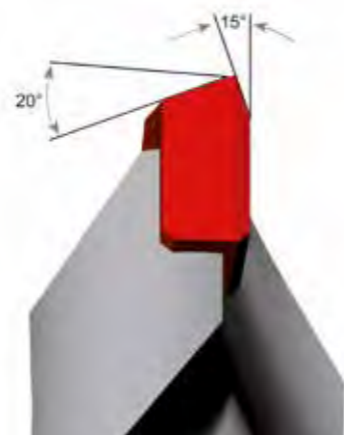
SDS-PLUS MS 5 UNIVERSAL DRILL BIT GOLDCRAFT

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.

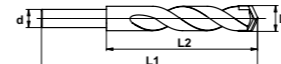
The very hard tungsten-titanium carbide tip makes the drill bit extremely wear resistant.

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



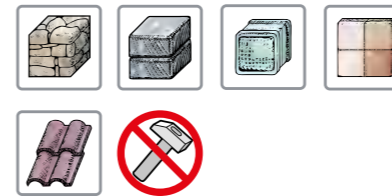
EXECUTION



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

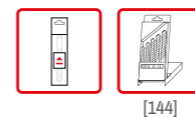
FOR USE IN



APPLICATION

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

PACKAGING



D Ø mm	D Ø "	L2 mm	L1 mm	d Ø mm		EAN 4016707...	12345	€
4,0	5/32	40	75	4	20	915772	168 000 040	3,35
5,0	3/16	50	85	5	20	915789	168 000 050	3,72
6,0	15/64	60	100	6	20	915796	168 000 060	4,15
8,0	5/16	75	120	8	20	915802	168 000 080	5,19
10,0	3/8	75	120	10	20	915857	168 000 100	6,72

SPECIAL FEATURES

Special carbide tip:

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

Materials:

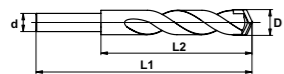
- Expert for granite, gneissic rock, slate, basalt
- Specially suitable for hard ceramic tiles, porcelain and other hard materials

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



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



DRIVE



D Ø mm	D Ø "	L2 mm	L1 mm	d Ø mm	PKT	EAN 4016707	12345	€
4,0	5/32	40	75	3,6	20	510106	151 018 040	4,24
5,0	3/16	50	85	4,6	20	510113	151 018 050	4,58
5,5	7/32	50	85	5,1	20	904875	151 018 055	4,78
6,0	15/64	60	100	5,6	20	510120	151 018 060	5,03
6,5	1/4	60	100	6,1	20	904882	151 018 065	5,43
8,0	5/16	80	120	7,1	20	510137	151 018 080	6,21
10,0	3/8	80	120	8,7	20	510144	151 018 100	8,15
12,0	15/32	90	150	10,0	10	510151	151 018 120	11,15
14,0	9/16	90	150	10,0	10	510090	151 017 140	13,35

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

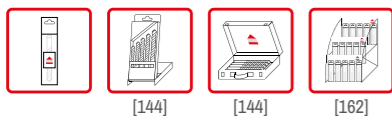
FOR USE IN



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



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:

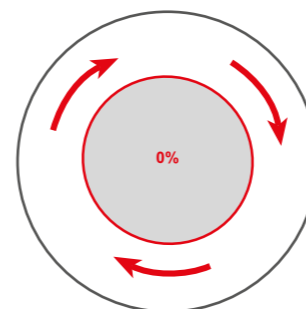
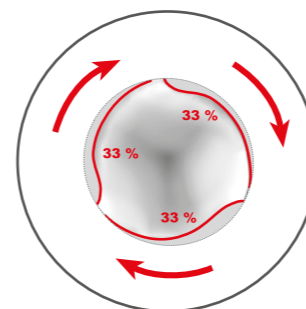
- A recommended speed of 600 to 1,200 rpm and sufficient contact pressure, which is always required for the exclusively rotary drilling of hard materials, are the prerequisites for good drilling progress and a long life of the drill tip.
- When used with rechargeable drilling machines the drill bit provides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

ROTASTOP:

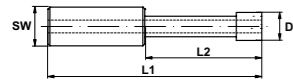
- The polygonal shape of the ROTASTOP section on the outside of the drill bit reduces surface contact to 3 points which leads to a reduction in the frictional resistance and thus to a considerably higher rate of work with noticeably improved performance of the drill bit.
- ROTASTOP allows easy tool changing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

PRODUKT INFORMATION ROTASTOP:

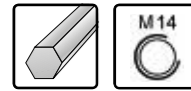
- Strength from the contour. The new performance shank for optimum torque transmission
- An unmatched 99 % of the contour of the ROTASTOP tool bit ensure optimum transmission of the torque, as ROTASTOP practically chucks itself automatically by means of the rising contours.
- The result: No slipping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



TILE DRILL BIT/KERAMIK DIAMOND - DRY DRILL | 786



DRIVE



EXECUTION

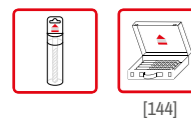
- Vacuum-soldered diamonds
- Burnished surface
- Hollow section completely filled with cooling liquid (up to Ø 15mm)

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

PACKAGING



TILE DRILL BIT/KERAMIK DIAMOND | 786



D Ø mm	L1 mm	SW mm	1/min	1	EAN 4016707...	12345	€
5,0	67	9,00	2.000	1	905735	786 090 050	20,81
6,0	67	9,00	2.000	1	905742	786 090 060	20,81
8,0	80	9,00	1.800	1	905759	786 090 080	20,81
10,0	80	9,00	1.600	1	905766	786 090 100	20,81
12,0	80	9,00	1.400	1	905773	786 090 120	23,10
15,0	80	9,00	1.400	1	905780	786 090 150	25,40
20,0	70	9,00	1.400	1	905797	786 090 200	25,40
25,0	70	9,00	1.400	1	905803	786 090 250	25,40
30,0	70	9,00	1.200	1	905810	786 090 300	29,72
35,0	70	9,00	1.200	1	905827	786 090 350	34,68
68,0	70	9,00	800	1	905865	786 090 680	69,47

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



D Ø mm	L1 mm	SW mm	1/min	1	EAN 4016707...	12345	€
5,0	62	M14	10.000	1	915673	788 140 050	25,34
6,0	62	M14	10.000	1	915680	788 140 060	25,34
8,0	62	M14	10.000	1	915697	788 140 080	25,34
10,0	62	M14	10.000	1	915703	788 140 100	25,34
12,0	62	M14	10.000	1	915710	788 140 120	27,80
15,0	62	M14	10.000	1	915727	788 140 150	31,48
20,0	60	M14	10.000	1	915734	788 140 200	25,50
25,0	60	M14	10.000	1	915741	788 140 250	25,88
30,0	60	M14	10.000	1	915758	788 140 300	30,57
35,0	60	M14	10.000	1	915765	788 140 350	35,32

ACCESSORIES FOR TILE DRILL BIT KERAMIK DIAMOND



No	1	2	3	4
	1	1	1	1
	580086	580093	580130	580123
	786 100 000	786 100 002	786 200 000	786 200 001
	4,79	12,00	20,22	20,97

TILE DRILL BIT KERAMIK DIAMOND - DRY DRILL

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

ADVANTAGES:

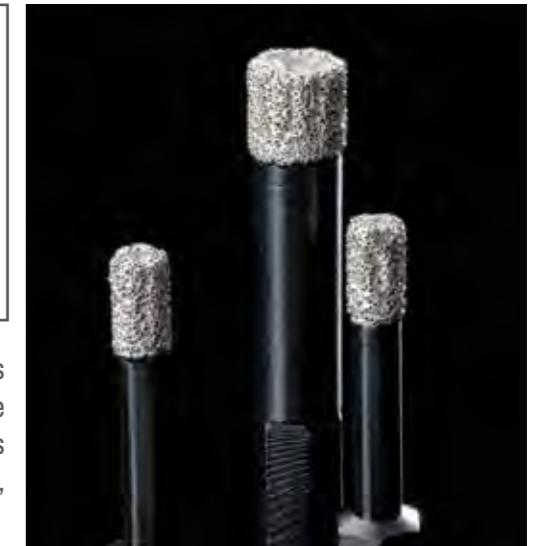
- Fast drill progress
- Long tool life
- Clean cutting edge
- Dry drilling



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 Ø mm	1/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

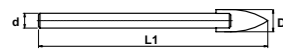
PILOT DRILLING WITHOUT ANY FACILITIES



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

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

GLASS DRILL BIT | 130



DRIVE



D Ø mm	D Ø "	L1 mm	d Ø mm	Box	EAN 4016707...	12345	€
3,0	1/8	58	3,0	20	010019	130 000 030	2,04
4,0	5/32	58	3,5	20	010026	130 000 040	2,09
5,0	3/16	58	4,0	20	010033	130 000 050	2,16
5,5	7/32	58	4,0	20	010200	130 000 055	2,27
6,0	15/64	58	5,0	20	010040	130 000 060	2,35
7,0	9/32	78	5,0	20	010057	130 000 070	2,40
8,0	5/16	78	6,0	20	010064	130 000 080	2,50
9,0	11/32	98	6,0	20	010071	130 000 090	2,60
10,0	3/8	98	6,0	20	010088	130 000 100	3,55
12,0	15/32	98	8,0	20	010095	130 000 120	4,81

EXECUTION

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

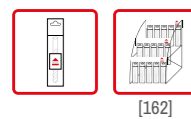
FOR USE IN



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

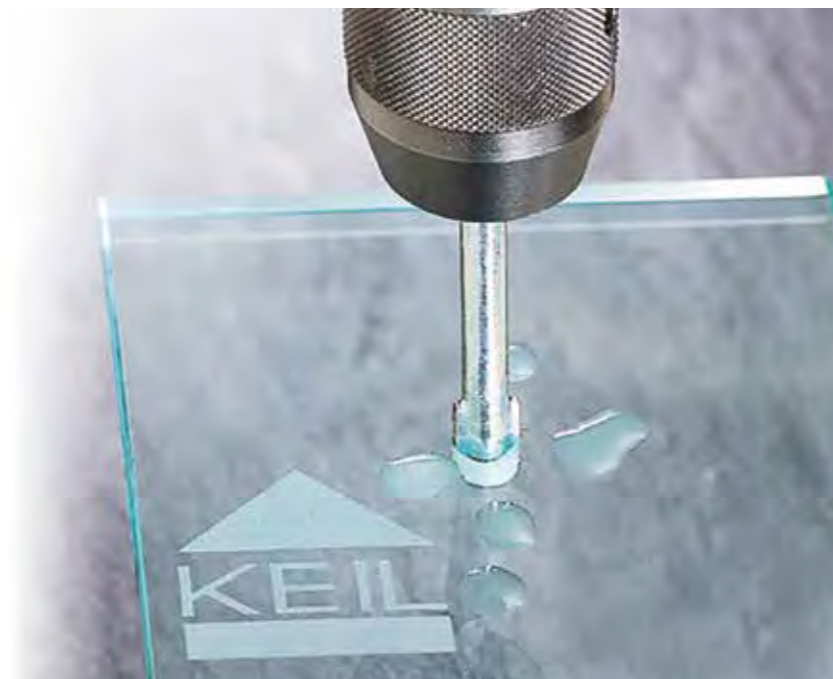


Comments

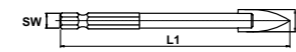
- Set a low speed
- Cool sufficiently with water, turpentine, vinegar or paraffin
- Regrind frequently when drilling in hard materials

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



D Ø mm	D Ø "	L1 mm	SW mm	Box	EAN 4016707...	12345	€
3,0	1/8	75	6,35	20	010224	131 000 300	2,87
4,0	5/32	75	6,35	20	010231	131 000 400	2,74
5,0	3/16	75	6,35	20	010248	131 000 500	2,69
6,0	15/64	75	6,35	20	010255	131 000 600	2,66
8,0	5/16	85	6,35	20	010262	131 000 800	2,92
10,0	3/8	85	6,35	20	010279	131 001 000	3,81

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

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 Ø mm	D Ø "	L2 mm	L1 mm	SW mm	Icon	EAN 4016707...	Icon	Icon	€
3,0	1/8	35	75	6,35	20	220098	166 000 030		2,07
4,0	5/32	45	85	6,35	20	220012	166 000 040		1,92
5,0	3/16	50	95	6,35	20	220029	166 000 050		1,90
6,0	15/64	60	100	6,35	20	220036	166 000 060		1,94
8,0	5/16	70	120	6,35	20	220043	166 000 080		2,69
10,0	3/8	70	120	6,35	20	220050	166 000 100		3,39
12,0	15/32	85	140	6,35	10	220067	166 000 120		3,75

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

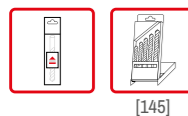
FOR USE IN



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]

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.

CONCRETE DRILL BIT MS5 TURBOHEAD XPRO | 238



DRIVE



D Ø mm	D Ø "	L2 mm	L1 mm	d Ø mm	Icon	EAN 4016707...	Icon	Icon	€
5,0	3/16	50	85	4,6	20	912689	238 000 050		2,86
6,0	15/64	60	100	5,6	20	912696	238 000 060		3,02
8,0	5/16	75	120	7,3	20	912702	238 000 080		3,76
10,0	3/8	75	120	9,4	20	912719	238 000 100		4,78
12,0	15/32	100	160	10,0	10	912726	238 000 120		7,60
14,0	9/16	100	160	10,0	10	912733	238 000 140		9,95

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

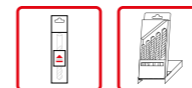
FOR USE IN



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

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:

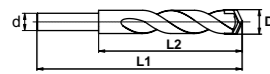
- Full carbide head
- Centering tip
- Better performance in armed concrete
- Drills exact round holes

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

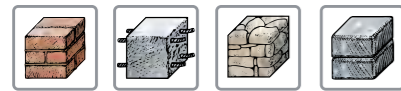


EXECUTION



- 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

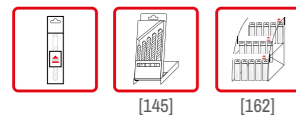
FOR USE IN



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	D	L2	L1	d		EAN		€
Ø mm	Ø "	mm	mm	Ø mm		4016707	T12345	
3,0	1/8	40	70	2,8	20	290145	258 000 030	1,84
4,0	5/32	40	75	3,6	20	290015	258 000 040	1,77
5,0	3/16	50	85	4,6	20	290022	258 000 050	1,88
6,0	15/64	60	100	5,6	20	290039	258 000 060	1,97
7,0	9/32	60	100	6,6	20	290046	258 000 070	2,27
8,0	5/16	75	120	7,3	20	290053	258 000 080	2,68
9,0	11/32	75	120	7,3	20	290060	258 000 090	3,21
10,0	3/8	75	120	9,4	20	290077	258 000 100	3,65
12,0	15/32	100	150	10,0	10	290084	258 000 120	5,18
14,0	9/16	100	150	10,0	10	290091	258 000 140	7,03
16,0	5/8	100	150	10,0	10	290107	258 000 160	8,91

CONCRETE DRILL BIT MS5 TURBOKEIL

The hammer drill bit with round shank:

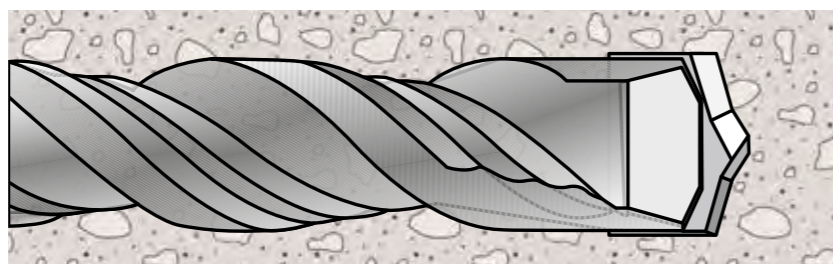
- Simple precise drilling of pilot holes
- Considerably faster drilling progress
- Significantly longer life

Features:

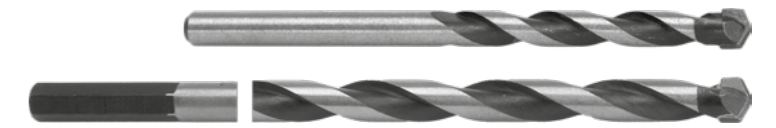
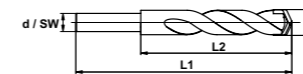
- Centring tip
- Patented MS5 flute (see p. 19)
- Larger cutting angle
- Strengthened carbide tip
- Harder carbide quality
- Cleaner drilling holes

MS5 spiral for ergonomic and ecological work flow:

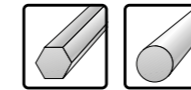
- High drilling speed
- Fast transport of drilling dust
- High grade of stiffness and long service life
- High resistance against breakage



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

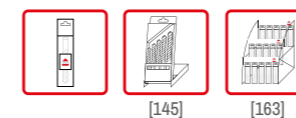
FOR USE IN



APPLICATION

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

PACKAGING

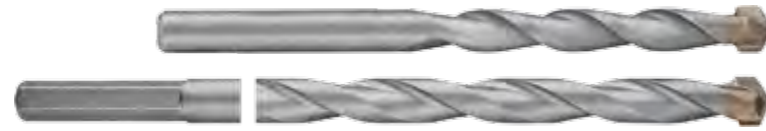
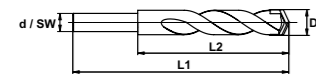


Comments

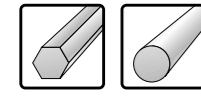
- SW = Hexagonal clamping shank with 45 mm length / wrench size

D	D	L2	L1	SW	d		EAN		€
Ø mm	Ø "	mm	mm	mm	Ø mm		4016707	T12345	
3,0	1/8	40	70		2,8	20	190018	154 000 030	2,00
3,5	9/64	40	70		3,2	20	190209	154 000 035	2,00
4,0	5/32	40	75		3,6	20	190025	154 000 040	1,85
4,5	11/64	50	85		4,1	20	190193	154 000 045	1,97
5,0	3/16	50	85		4,6	20	190032	154 000 050	1,97
5,0	3/16	110	150		4,6	10	192005	204 000 050	2,99
5,5	7/32	50	85		5,1	20	190049	154 000 055	2,10
5,5	7/32	110	150		5,1	10	192074	204 000 055	3,27
6,0	15/64	60	100		5,6	20	190056	154 000 060	2,10
6,0	15/64	110	150		5,6	10	192012	204 000 060	3,28
6,5	1/4	60	100		6,1	20	190063	154 000 065	2,23
6,5	1/4	110	150		6,1	10	192029	204 000 065	3,36
7,0	9/32	60	100		6,6	20	190070	154 000 070	2,40
8,0	5/16	80	120		7,1	20	190087	154 000 080	2,66
8,0	5/16	135	200		7,3	10	192036	204 000 080	4,23
8,0	5/16	350	400		7,3	1	194016	404 000 080	6,78
9,0	11/32	80	120		8,1	20	190094	154 000 090	3,06
10,0	3/8	80	120		8,7	20	190100	154 000 100	3,62
10,0	3/8	135	200		8,7	10	192043	204 000 100	5,60
10,0	3/8	350	400		9,3	1	194023	404 000 100	7,67
11,0	7/16	90	150		10,0	10	190186	154 000 110	5,30
12,0	15/32	90	150		10,0	10	190117	154 000 120	5,30
12,0	15/32	135	200		10,0	10	192050	204 000 120	7,58
12,0	15/32	350	400	10,00		1	194030	404 000 120	8,96
13,0	1/2	90	150		10,0	10	190124	154 000 130	6,25
14,0	9/16	90	150		10,0	10	190131	154 000 140	6,93
14,0	9/16	350	400	10,00		1	194054	404 000 140	11,31
15,0	19/32	90	150		10,0	10	190148	154 000 150	8,91
16,0	5/8	90	150		10,0	10	190155	154 000 160	8,91
16,0	5/8	350	400	10,00		1	194061	404 000 160	12,85
18,0	11/16	100	160		10,0	5	190162	154 000 180	10,49
20,0	3/4	100	160		13,0	5	190179	154 000 200	11,68

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

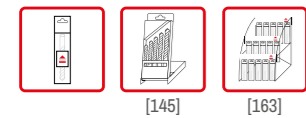
FOR USE IN



APPLICATION

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

PACKAGING

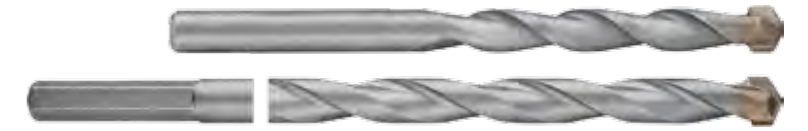
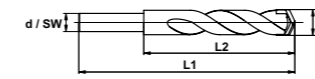


Comments

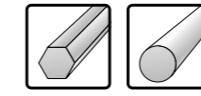
- SW = Hexagonal clamping shank with 45 mm length / wrench size

D	D	L2	L1	SW	d		EAN		€
mm	mm	mm	mm	mm	mm		4016707	112345	
3,0	1/8	40	70	2,8	20	200014	150 000 030	1,05	
3,5	9/64	40	70	3,2	20	200021	150 000 035	1,05	
4,0	5/32	40	75	3,6	20	200038	150 000 040	1,00	
4,5	11/64	50	85	4,1	20	200045	150 000 045	1,04	
5,0	3/16	50	85	4,6	20	200052	150 000 050	1,04	
5,0	3/16	110	150	4,6	10	203015	200 000 050	1,55	
5,5	7/32	50	85	5,1	20	200069	150 000 055	1,08	
5,5	7/32	110	150	5,1	10	203022	200 000 055	1,68	
6,0	15/64	60	100	5,6	20	200076	150 000 060	1,08	
6,0	15/64	110	150	5,6	10	203039	200 000 060	1,68	
6,0	15/64	135	200	5,6	10	203138	200 060 200	2,03	
6,0	15/64	350	400	5,6	1	180019	400 000 060	3,53	
6,5	1/4	60	100	6,1	20	200083	150 000 065	1,14	
6,5	1/4	110	150	6,1	10	203046	200 000 065	1,77	
6,5	1/4	350	400	6,1	1	180026	400 000 065	3,86	
7,0	9/32	60	100	6,6	20	200090	150 000 070	1,28	
7,0	9/32	110	150	6,6	10	203053	200 000 070	1,91	
8,0	5/16	80	120	7,1	20	200106	150 000 080	1,46	
8,0	5/16	135	200	7,3	10	203060	200 000 080	2,27	
8,0	5/16	350	400	7,3	1	180033	400 000 080	4,23	
8,0	5/16	550	600	7,3	1	180170	600 000 080	6,64	
8,5	21/64	80	120	7,1	20	200113	150 000 085	1,60	
9,0	11/32	80	120	8,1	20	200120	150 000 090	1,75	
10,0	3/8	80	120	8,7	20	200137	150 000 100	1,97	
10,0	3/8	135	200	8,7	10	203077	200 000 100	3,01	
10,0	3/8	350	400	9,3	1	180040	400 000 100	5,38	
10,0	3/8	550	600	9,3	1	180187	600 000 100	7,99	
11,0	7/16	90	150	10,0	10	200144	150 000 110	2,74	
12,0	15/32	90	150	10,0	10	200151	150 000 120	3,01	
12,0	15/32	135	200	10,0	10	203084	200 000 120	4,13	
12,0	15/32	350	400	10,00	1	180057	400 000 120	6,45	
12,0	15/32	550	600	10,00	1	180194	600 000 120	9,37	
13,0	1/2	90	150	10,0	10	200168	150 000 130	3,68	
13,0	1/2	350	400	10,00	1	180064	400 000 130	7,20	
14,0	9/16	90	150	10,0	10	200175	150 000 140	3,98	
14,0	9/16	135	200	10,0	10	203091	200 000 140	5,75	
14,0	9/16	350	400	10,00	1	180071	400 000 140	8,15	
14,0	9/16	550	600	10,00	1	180200	600 000 140	10,82	
15,0	19/32	90	150	10,0	10	200182	150 000 150	5,03	
16,0	5/8	90	150	10,0	10	200199	150 000 160	5,03	
16,0	5/8	135	200	10,0	10	203107	200 000 160	6,56	
16,0	5/8	350	400	10,00	1	180088	400 000 160	9,29	
16,0	5/8	550	600	10,00	1	180217	600 000 160	12,05	
18,0	11/16	100	160	10,0	5	200205	150 000 180	6,15	
18,0	11/16	350	400	10,00	1	180095	400 000 180	11,07	
18,0	11/16	550	600	10,00	1	180224	600 000 180	15,18	

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

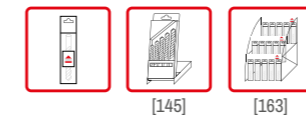
FOR USE IN



APPLICATION

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

PACKAGING



Comments

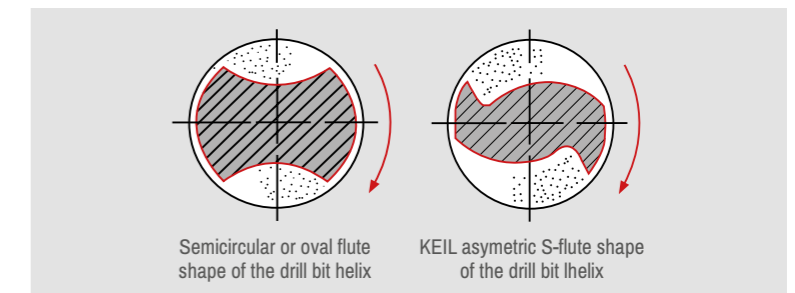
- SW = Hexagonal clamping shank with 45 mm length / wrench size

D	D	L2	L1	SW	d		EAN		€
mm	mm	mm	mm	mm	mm		4016707	112345	
20,0	3/4	100	160	13,0	5	200212	150 000 200	6,87	
20,0	3/4	135	200	13,0	5	203114	200 000 200	8,91	
20,0	3/4	350	400	12,00	1	180101	400 000 200	12,94	
20,0	3/4	550	600	12,00	1	180231	600 000 200	16,81	
22,0	7/8	100	160	13,0	5	200229	150 000 220	10,13	
22,0	7/8	135	200	13,0	5	203121	200 000 220	10,71	
22,0	7/8	350	400	12,00	1	180118	400 000 220	15,81	
22,0	7/8	550	600	12,00	1	180248	600 000 220	19,88	
25,0	1	100	160	13,0	5	200236	150 000 250	12,44	
25,0	1	350	400	12,00	1	180125	400 000 250	19,83	
25,0	1	550	600	12,00	1	180255	600 000 250	24,94	

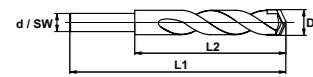
PERCUSSION DRILL BIT KEILER

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.



MASONRY DRILL BIT OPAL | 190 | 290



DRIVE



EXECUTION

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

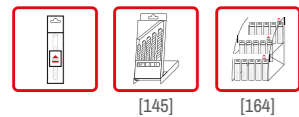
FOR USE IN



APPLICATION

- In all rotary and percussion drilling machines

PACKAGING



D Ø mm	D "	L2 mm	L1 mm	d mm	Box	EAN 4016707...	12345	€
3,0	1/8	40	70	2,8	20	170195	190 000 030	0,82
3,5	9/64	40	70	3,2	20	170171	190 000 035	0,84
4,0	5/32	40	75	3,2	20	170010	190 000 040	0,83
5,0	3/16	50	85	3,8	20	170027	190 000 050	0,84
5,0	3/16	110	150	3,8	10	172083	290 000 050	1,24
5,5	7/32	50	85	4,4	20	170034	190 000 055	0,85
6,0	15/64	60	100	4,7	20	170041	190 000 060	0,88
6,0	15/64	110	150	4,7	10	172014	290 000 060	1,29
6,5	1/4	60	100	5,0	20	170058	190 000 065	0,94
7,0	9/32	60	100	5,4	20	170065	190 000 070	0,97
7,0	9/32	110	150	5,4	10	172106	290 000 070	1,43
8,0	5/16	80	120	6,4	20	170072	190 000 080	1,09
8,0	5/16	135	200	6,4	10	172038	290 000 080	1,68
9,0	11/32	80	120	7,1	20	170089	190 000 090	1,31
10,0	3/8	80	120	7,8	20	170096	190 000 100	1,42
10,0	3/8	135	200	7,8	10	172045	290 000 100	1,89
11,0	7/16	90	150	8,5	10	170102	190 000 110	2,01
12,0	15/32	90	150	8,5	10	170119	190 000 120	2,01
12,0	15/32	135	200	8,5	10	172052	290 000 120	3,16
13,0	1/2	90	150	10,0	10	170126	190 000 130	2,61
14,0	9/16	90	150	10,0	10	170133	190 000 140	3,02
14,0	9/16	135	200	10,0	10	172069	290 000 140	3,59
16,0	5/8	90	150	10,0	10	170140	190 000 160	4,01
16,0	5/8	135	200	10,0	10	172076	290 000 160	4,99
20,0	3/4	100	160	13,0	5	170157	190 000 200	6,33

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

D Ø mm	Box	EAN 4016707...	12345	€
33,0	3	250026	715 000 033	4,86
53,0	2	250033	715 000 053	6,40
67,0	1	250040	715 000 067	7,50
73,0	1, 2	250057	715 000 073	8,09
83,0	2	250064	715 000 083	8,75

LOCATING PLATE FOR UNIVERSAL HOLLOW CORE



Box	EAN 4016707...	12345	€
1	250071	715 000 090	5,06

CENTRE DRILL BIT FOR UNIVERSAL HOLLOW CORE



D Ø mm	D "	L1 mm	Box	EAN 4016707...	12345	€
9,0	11/32	140	1	250095	715 090 140	3,31

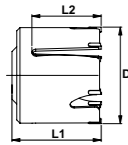
UNIVERSAL HOLLOW CORE

- 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

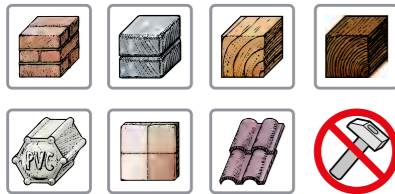
UNIVERSAL HOLE SAW M16 GOLDCRAFT | 719



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



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

D Ø mm	L2 mm	L1 mm			EAN 4016707...	12345	€
25,0	65	100	1	1	240010	719 000 025	32,53
30,0	65	100	1	1	240027	719 000 030	33,22
35,0	65	100	1, 2, 3	1	240034	719 000 035	34,63
40,0	65	100	4, 5, 3	1	240041	719 000 040	35,52
45,0	65	100	4, 5, 3	1	240058	719 000 045	37,43
50,0	65	100	4, 5, 3	1	240065	719 000 050	38,77
60,0	65	100	7	1	240096	719 000 060	47,68
65,0	65	100	9	1	240119	719 000 065	50,11
68,0	65	100	9	1	240126	719 000 068	50,85
74,0	65	100	10	1	240133	719 000 074	57,67
76,0	65	100	10	1	921124	719 000 076	59,10
80,0	65	100	11, 12	1	240140	719 000 080	60,79
82,0	65	100	6	1	240157	719 000 082	66,50
105,0	65	100	13	1	240164	719 000 105	91,76

APPLICATION

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

PACKAGING



Comments

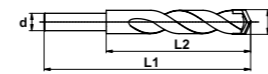
- Other dimensions on request
- 1 = Sanitary and heating pipes
- 2 = Junction boxes
- 3 = Halogen spot lamps
- 4 = Sanitary waste pipes
- 5 = Water and heating pipes with insulation
- 6 = Recessed lights
- 7 = Case bushings
- 8 = Switch sockets
- 9 = Cavity wall sockets
- 10 = Cavity wall junction boxes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



APPLICATION

- Universal hole saw M16 GOLDCRAFT [66]

PACKAGING



D Ø mm	L2 mm	L1 mm		EAN 4016707...	12345	€
8,0	70	120	1	240003	719 080 120	6,36

HOLLOW CORE M16 ASSEMBLY, SDS-PLUS | 711



DRIVE

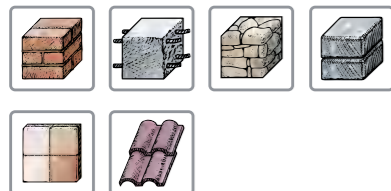


D Ø mm	D Ø "	L2 mm	L1 mm		EAN 4016707...	 712345	€
50,0	1 3/32	60	80	1	160165	711 713 050	49,62
65,0	2 9/16	52	72	1	160172	711 713 065	49,62
68,0	2 11/16	52	72	1	160219	711 713 068	53,43
80,0	3 5/32	60	80	1	160189	711 713 080	60,24

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



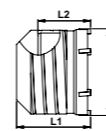
APPLICATION

- 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 from 90 mm diameter
- Burnished and hardened
- Made of high tempered steel with extra thick wall from 65 mm Ø without cross-bore

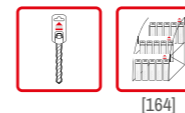
FOR USE IN



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]

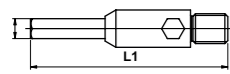
PACKAGING



[164]

D Ø mm	D Ø "	L2 mm	L1 mm		EAN 4016707...	 712345	€
25,0	1	60	80	1	160011	710 000 025	31,01
30,0	1 3/16	60	80	1	160028	710 000 030	31,01
35,0	1 1/8	60	80	1	160042	710 000 035	32,69
40,0	1 1/16	60	80	1	160059	710 000 040	32,69
45,0	1 1/4	60	80	1	160066	710 000 045	34,80
50,0	1 3/32	60	80	1	160073	710 000 050	34,80
55,0	2 3/16	52	72	1	160271	711 000 055	34,80
60,0	2 3/8	52	72	1	160158	711 000 060	35,11
65,0	2 9/16	52	72	1	160103	711 000 065	35,11
68,0	2 11/16	52	72	1	160134	711 000 068	42,86
80,0	3 5/32	60	80	1	160110	711 000 080	49,65
90,0	3 17/32	60	80	1	160127	711 000 090	57,41
100,0	3 15/16	60	80	1	160196	711 000 100	93,47

LOCATING SHANK M16 HEXAGON | 712



DRIVE



L1 mm	SW mm		EAN 4016707...	12345	€
100	11,00	1	160202	712 080 120	10,55
200	11,00	1	160226	712 200 120	20,36
350	11,00	1	160240	712 350 120	27,60

EXECUTION

- With external M16 thread
- With hexagonal drive

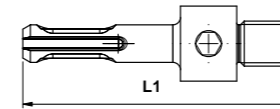
APPLICATION

- 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 mm		EAN 4016707...	12345	€
105	1	160301	713 080 120	15,29
200	1	160332	713 200 120	24,99
350	1	160325	713 300 120	32,37

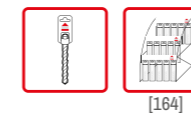
EXECUTION

- 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 Ø mm	D Ø "	L2 mm	L1 mm		EAN 4016707...	12345	€
8,0	5/16	72	120	1	916168	715 080 120	2,01

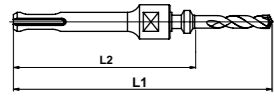
APPLICATION

- Hollow core M16 [69]

PACKAGING



LOCATING SHANK M16 SDS-PLUS TURBOKEIL COMPLETE | 714



DRIVE



L1 mm	L mm		EAN 4016707	12345	€
178	110	1	160424	714 110 178	25,62
268	200	1	160431	714 200 268	33,77
418	350	1	160448	714 350 418	47,89

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 4016707	12345	€
1	270321	800 000 008	7,30

EXECUTION

- Non-magnetic bit holder with 1/4" bit locking
- DIN 3126 - E 6.3 and C 6.3

APPLICATION

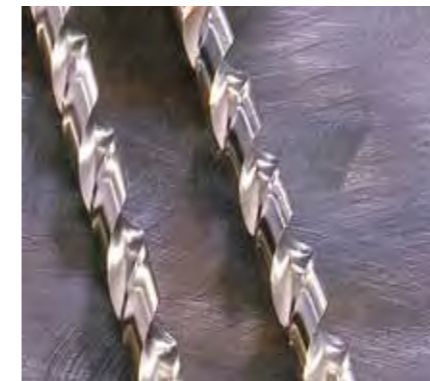
- Only for rotary use

PACKAGING



METAL DRILL BITS

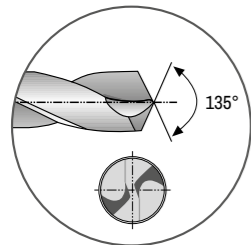
STRONGER THAN STEEL



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

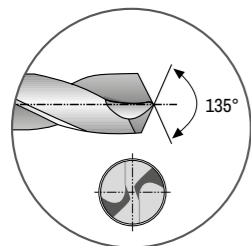
METAL DRILL BITS

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



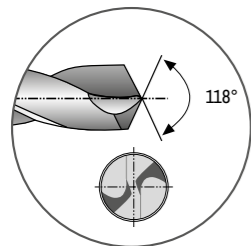
HSS-E TWIST DRILL BIT

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/m².



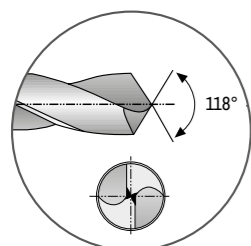
HSS TIN DRILL BIT SPLIT POINT

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/mm² strength. It is a precision tool according to DIN 338 RN for best accuracy grade.



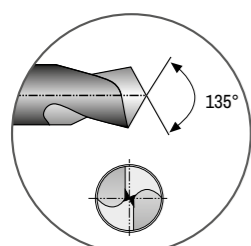
HSS TWIST DRILL BIT SPLIT POINT

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.



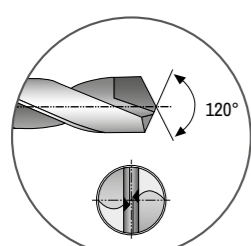
HSS TWIST DRILL BIT

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.

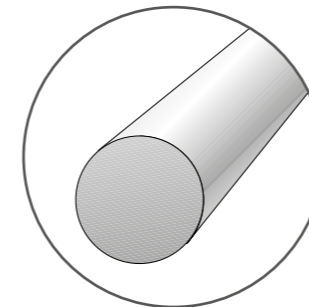


HSS TWIST DRILL BIT WITH CARBIDE BIT

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.

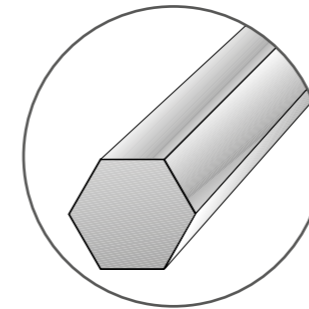
METAL DRILL BITS

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



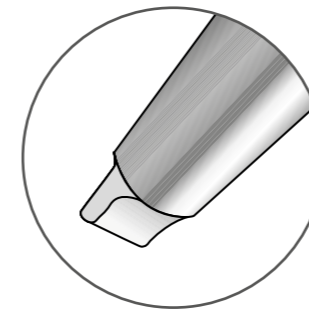
CYLINDRICAL SHAFT

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



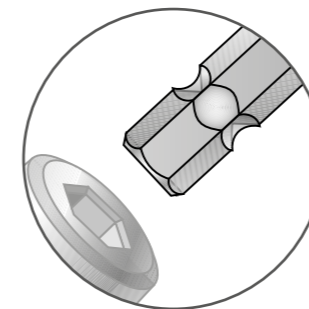
HEXAGONAL SHAFT (10.0 MM)

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



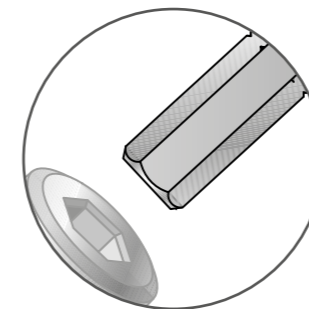
MORSE TAPER

The mores 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)

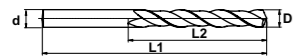
Modern cordless screwdrivers are extremely powerful and can definitely be used for drilling. The KEILBIT has specially been invented for the fast and direct application in these machines. No change of machines is necessary anymore. For the various materials we offer different alternatives of the KEILBIT.



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

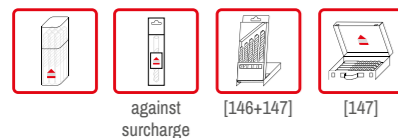


- Materials with a high strength above 800 N/mm² which are difficult to cut
- Special alloys
- Solder resistant steel
- Stainless steel V2A -V4A

APPLICATION

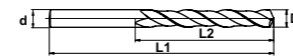
- In all rotary and percussion drilling machines
- In machines for mechanical processing
- Only for rotary use

PACKAGING



D Ø mm	L2 mm	L1 mm	d Ø mm	Icon	EAN 4016707	12345	€
1,00	12	34	1,0	10	060014	307 000 100	0,80
1,10	14	36	1,1	10	064869	307 000 110	0,84
1,20	16	38	1,2	10	064876	307 000 120	0,84
1,30	16	38	1,3	10	064883	307 000 130	0,84
1,40	18	40	1,4	10	064890	307 000 140	0,84
1,50	18	40	1,5	10	060069	307 000 150	0,84
1,60	20	43	1,6	10	064906	307 000 160	0,90
1,70	20	43	1,7	10	064913	307 000 170	0,90
1,80	22	46	1,8	10	064920	307 000 180	0,90
1,90	22	46	1,9	10	064937	307 000 190	0,90
2,00	24	49	2,0	10	060113	307 000 200	0,84
2,10	24	49	2,1	10	064944	307 000 210	1,01
2,20	27	53	2,2	10	064951	307 000 220	1,01
2,30	27	53	2,3	10	064968	307 000 230	1,01
2,40	30	57	2,4	10	064975	307 000 240	1,01
2,50	30	57	2,5	10	060168	307 000 250	1,01
2,60	30	57	2,6	10	064982	307 000 260	1,31
2,70	33	61	2,7	10	064999	307 000 270	1,31
2,80	33	61	2,8	10	065002	307 000 280	1,31
2,90	33	61	2,9	10	065019	307 000 290	1,31
3,00	33	61	3,0	10	060212	307 000 300	1,21
3,10	36	65	3,1	10	065026	307 000 310	1,31
3,20	36	65	3,2	10	060236	307 000 320	1,31
3,30	36	65	3,3	10	060243	307 000 330	1,40
3,40	39	70	3,4	10	065033	307 000 340	1,40
3,50	39	70	3,5	10	060267	307 000 350	1,40
3,60	39	70	3,6	10	065040	307 000 360	1,45
3,70	39	70	3,7	10	065057	307 000 370	1,45
3,80	43	75	3,8	10	065064	307 000 380	1,45
3,90	43	75	3,9	10	065071	307 000 390	1,45
4,00	43	75	4,0	10	060311	307 000 400	1,40
4,10	43	75	4,1	10	060328	307 000 410	1,52
4,20	43	75	4,2	10	060335	307 000 420	1,52
4,30	47	80	4,3	10	065088	307 000 430	1,55
4,40	47	80	4,4	10	065095	307 000 440	1,55
4,50	47	80	4,5	10	060366	307 000 450	1,55
4,60	47	80	4,6	10	065101	307 000 460	1,69
4,70	47	80	4,7	10	065118	307 000 470	1,69
4,80	52	86	4,8	10	060397	307 000 480	1,69
4,90	52	86	4,9	10	065125	307 000 490	1,69
5,00	52	86	5,0	10	060410	307 000 500	1,74
5,10	52	86	5,1	10	060427	307 000 510	1,90
5,20	52	86	5,2	10	060434	307 000 520	1,90
5,30	52	86	5,3	10	065132	307 000 530	1,90
5,40	57	93	5,4	10	065149	307 000 540	1,90
5,50	57	93	5,5	10	060465	307 000 550	1,90

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

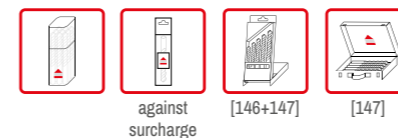


- Materials with a high strength above 800 N/mm² which are difficult to cut
- Special alloys
- Solder resistant steel
- Stainless steel V2A -V4A

APPLICATION

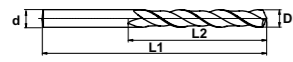
- In all rotary and percussion drilling machines
- In machines for mechanical processing
- Only for rotary use

PACKAGING



D Ø mm	L2 mm	L1 mm	d Ø mm	Icon	EAN 4016707	12345	€
5,60	57	93	5,6	10	065156	307 000 560	2,28
5,70	57	93	5,7	10	065163	307 000 570	2,28
5,80	57	93	5,8	10	065170	307 000 580	2,28
5,90	57	93	5,9	10	065187	307 000 590	2,28
6,00	57	93	6,0	10	060519	307 000 600	2,28
6,10	63	101	6,1	10	065194	307 000 610	2,66
6,20	63	101	6,2	10	065200	307 000 620	2,66
6,30	63	101	6,3	10	065217	307 000 630	2,66
6,40	63	101	6,4	10	065224	307 000 640	2,66
6,50	63	101	6,5	10	060564	307 000 650	2,66
6,60	63	101	6,6	10	065231	307 000 660	3,14
6,70	63	101	6,7	10	065248	307 000 670	3,14
6,80	69	109	6,8	10	060595	307 000 680	3,14
6,90	69	109	6,9	10	065255	307 000 690	3,14
7,00	69	109	7,0	10	060618	307 000 700	3,14
7,10	69	109	7,1	10	065262	307 000 710	3,65
7,20	69	109	7,2	10	065279	307 000 720	3,65
7,30	69	109	7,3	10	065286	307 000 730	3,65
7,40	69	109	7,4	10	065293	307 000 740	3,65
7,50	69	109	7,5	10	060663	307 000 750	3,65
7,60	75	117	7,6	10	065309	307 000 760	4,21
7,70	75	117	7,7	10	065316	307 000 770	4,21
7,80	75	117	7,8	10	065323	307 000 780	4,21
7,90	75	117	7,9	10	065330	307 000 790	4,21
8,00	75	117	8,0	10	060717	307 000 800	4,21
8,10	75	117	8,1	10	065347	307 000 810	4,51
8,20	75	117	8,2	10	065354	307 000 820	4,51
8,30	75	117	8,3	10	065361	307 000 830	4,51
8,40	75	117	8,4	10	065378	307 000 840	4,51
8,50	75	117	8,5	10	060762	307 000 850	4,51
8,60	81	125	8,6	10	065385	307 000 860	4,79
8,70	81	125	8,7	10	065392	307 000 870	4,79
8,80	81	125	8,8	10	065408	307 000 880	4,79
8,90	81	125	8,9	10	065415	307 000 890	4,79
9,00	81	125	9,0	10	060816	307 000 900	4,79
9,10	81	125	9,1	10	065422	307 000 910	6,05
9,20	81	125	9,2	10	065439	307 000 920	6,05
9,30	81	125	9,3	10	065446	307 000 930	6,05
9,40	81	125	9,4	10	065453	307 000 940	6,05
9,50	81	125	9,5	10	060861	307 000 950	6,05
9,60	87	133	9,6	10	065460	307 000 960	6,97
9,70	87	133	9,7	10	065477	307 000 970	6,97
9,80	87	133	9,8	10	065484	307 000 980	6,97
9,90	87	133	9,9	10	065491	307 000 990	6,97
10,00	87	133	10,0	10	060915	307 001 000	6,97
10,20	87	133	10,2	5	060939	307 001 020	7,16

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

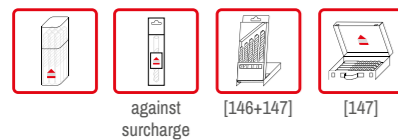


- Materials with a high strength above 800 N/mm² which are difficult to cut
- Special alloys
- Solder resistant steel
- Stainless steel V2A -V4A

APPLICATION

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

PACKAGING



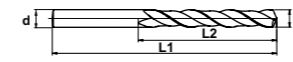
D Ø mm	L2 mm	L1 mm	d Ø mm	5	EAN 4016707	12345	€
10,50	87	133	10,5	5	060960	307 001 050	7,16
11,00	94	142	11,0	5	061011	307 001 100	8,21
11,50	94	142	11,5	5	061066	307 001 150	8,81
12,00	101	151	12,0	5	061110	307 001 200	10,48
12,50	101	151	12,5	5	061165	307 001 250	11,36
13,00	101	151	13,0	5	061219	307 001 300	12,60

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/mm²
- 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	
D Ø mm	€
0,5 - 10,5	0,10
11,0 - 15,0	0,11
15,5 - 20,0	0,13

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

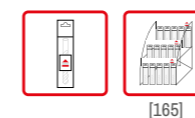


- Materials with a high strength above 800 N/mm² which are difficult to cut
- Special alloys
- Solder resistant steel
- Stainless steel V2A -V4A

APPLICATION

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

PACKAGING

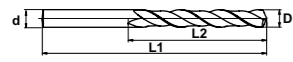


Comments

- Other dimensions p.76-78

D Ø mm	L2 mm	L1 mm	2	5	EAN 4016707	12345	€
1,00	12	34	2	5	062926	307 320 100	1,82
1,50	18	40	2	5	062933	307 320 150	1,91
2,00	24	49	2	5	062940	307 320 200	1,91
2,50	30	57	2	5	062957	307 320 250	2,23
3,00	33	61	2	5	062964	307 320 300	2,64
3,20	36	65	2	5	062971	307 320 320	2,82
3,30	36	65	2	5	062988	307 320 330	3,00
3,50	39	70	2	5	062995	307 320 350	3,00
4,00	43	75	1	10	063084	307 300 400	1,60
4,20	43	75	1	10	063091	307 300 420	1,73
4,50	47	80	1	10	063107	307 300 450	1,75
4,80	52	86	1	10	063336	307 300 480	1,89
5,00	52	86	1	10	063114	307 300 500	1,95
5,50	57	93	1	10	063138	307 300 550	2,11
6,00	57	93	1	10	063145	307 300 600	2,50
6,50	63	101	1	10	063152	307 300 650	2,87
7,00	69	109	1	10	063176	307 300 700	3,34
7,50	69	109	1	10	063183	307 300 750	3,85
8,00	75	117	1	10	063190	307 300 800	4,42
8,50	75	117	1	10	063206	307 300 850	4,73
9,00	81	125	1	10	063213	307 300 900	5,00
9,50	81	125	1	10	063220	307 300 950	6,25
10,00	87	133	1	10	063237	307 301 000	7,17
10,20	87	133	1	5	063244	307 301 020	7,37
10,50	87	133	1	5	063251	307 301 050	7,37
11,00	94	142	1	5	063268	307 301 100	8,44
11,50	94	142	1	5	063275	307 301 150	9,04
12,00	101	151	1	5	063282	307 301 200	10,71
12,50	101	151	1	5	063299	307 301 250	11,60
13,00	101	151	1	5	063305	307 301 300	12,84

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

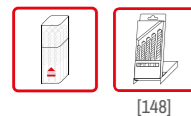
FOR USE IN



APPLICATION

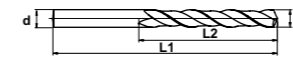
- For drilling alloyed and unalloyed steel, iron, cast iron, sheet metal, non-ferrous metals and plastics
- Ideal for heavy-duty use thanks to long service life and powerful drilling performance

PACKAGING



D Ø mm	L2 mm	L1 mm					€
1,00	12	34	1	10	919602	311 000 010	0,71
1,50	18	40	1,5	10	919619	311 000 015	0,73
2,00	24	49	2	10	919626	311 000 020	0,75
2,50	30	57	2,5	10	919633	311 000 025	0,85
3,00	33	61	3	10	919640	311 000 030	0,95
3,20	36	65	3,2	10	919657	311 000 032	1,03
3,30	36	65	3,3	10	919664	311 000 033	1,08
3,50	39	70	3,5	10	919671	311 000 035	1,07
4,00	43	75	4	10	919688	311 000 040	1,12
4,20	43	75	4,2	10	919695	311 000 042	1,25
4,50	47	80	4,5	10	919701	311 000 045	1,28
4,80	52	86	4,8	10	919718	311 000 048	1,44
5,00	52	86	5	10	919725	311 000 050	1,46
5,50	57	93	5,5	10	919732	311 000 055	1,57
6,00	57	93	6	10	919749	311 000 060	1,83
6,50	63	101	6,5	10	919756	311 000 065	2,10
7,00	69	101	7	10	919763	311 000 070	2,51
7,50	69	109	7,5	10	919770	311 000 075	2,85
8,00	75	117	8	10	919787	311 000 080	3,30
8,50	75	117	8,5	10	919794	311 000 085	3,55
9,00	81	125	9	10	919800	311 000 090	3,81
9,50	81	125	9,5	10	919817	311 000 095	4,71
10,00	87	133	10	10	919824	311 000 100	5,36
10,50	87	133	10,5	10	919831	311 000 105	5,96
11,00	94	142	11	5	919848	311 000 110	6,51
11,50	94	142	11,5	5	919855	311 000 115	7,06
12,00	101	151	12	5	919862	311 000 120	8,38
12,50	101	151	12,5	5	919879	311 000 125	9,04
13,00	101	151	13	5	919886	311 000 130	9,85

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



DRIVE



EXECUTION

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

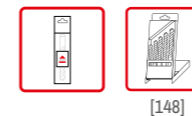
FOR USE IN



APPLICATION

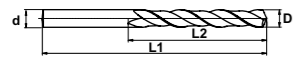
- For drilling alloyed and unalloyed steel, iron, cast iron, sheet metal, non-ferrous metals and plastics
- Ideal for heavy-duty use thanks to long service life and powerful drilling performance

PACKAGING



D Ø mm	L2 mm	L1 mm					€
1,00	12	34	1	2	920363	311 320 010	1,64
1,50	18	40	1,5	2	920370	311 320 015	1,69
2,00	24	49	2	2	920387	311 320 020	1,73
2,50	30	57	2,5	2	920394	311 320 025	1,92
3,00	33	61	3	2	920400	311 320 030	2,12
3,20	36	65	3,2	2	920417	311 320 032	2,26
3,30	36	65	3,3	2	920424	311 320 033	2,35
3,50	39	70	3,5	2	920431	311 320 035	2,35
4,00	43	75	4	1	920448	311 300 040	1,33
4,20	43	75	4,2	1	920455	311 300 042	1,47
4,50	47	80	4,5	1	920462	311 300 045	1,48
4,80	52	86	4,8	1	920479	311 300 048	1,65
5,00	52	86	5	1	920486	311 300 050	1,68
5,50	57	93	5,5	1	920493	311 300 055	1,79
6,00	57	93	6	1	920509	311 300 060	2,05
6,50	63	101	6,5	1	920516	311 300 065	2,31
7,00	69	101	7	1	920523	311 300 070	2,72
7,50	69	109	7,5	1	920530	311 300 075	3,06
8,00	75	117	8	1	920547	311 300 080	3,51
8,50	75	117	8,5	1	920554	311 300 085	3,77
9,00	81	125	9	1	920561	311 300 090	4,03
9,50	81	125	9,5	1	920578	311 300 095	4,91
10,00	87	133	10	1	920585	311 300 100	5,57
10,50	87	133	10,5	1	920592	311 300 105	6,17
11,00	94	142	11	1	920608	311 300 110	6,74
11,50	94	142	11,5	1	920615	311 300 115	7,29
12,00	101	151	12	1	920622	311 300 120	8,61
12,50	101	151	12,5	1	920639	311 300 125	9,28
13,00	101	151	13	1	920646	311 300 130	10,09

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

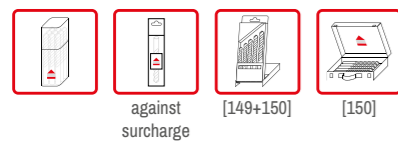
FOR USE IN



APPLICATION

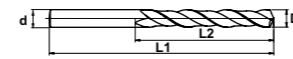
- In all rotary and percussion drilling machines
- In machines for mechanical processing
- Only for rotary use

PACKAGING



D Ø mm	L2 mm	L1 mm	d Ø mm	12345	EAN 4016707	12345	€
1,00	12	34	1,0	10	120015	302 000 100	0,63
1,10	14	36	1,1	10	120794	302 000 110	0,63
1,20	16	38	1,2	10	120800	302 000 120	0,63
1,30	16	38	1,3	10	120817	302 000 130	0,63
1,40	18	40	1,4	10	120824	302 000 140	0,63
1,50	18	40	1,5	10	120022	302 000 150	0,63
1,60	20	43	1,6	10	120831	302 000 160	0,66
1,70	20	43	1,7	10	120848	302 000 170	0,66
1,80	22	46	1,8	10	120855	302 000 180	0,66
1,90	22	46	1,9	10	120862	302 000 190	0,66
2,00	24	49	2,0	10	120039	302 000 200	0,66
2,10	24	49	2,1	10	120879	302 000 210	0,69
2,20	27	53	2,2	10	120886	302 000 220	0,69
2,30	27	53	2,3	10	120893	302 000 230	0,69
2,40	30	57	2,4	10	120909	302 000 240	0,69
2,50	30	57	2,5	10	120046	302 000 250	0,69
2,60	30	57	2,6	10	120916	302 000 260	0,69
2,70	33	61	2,7	10	120923	302 000 270	0,69
2,80	33	61	2,8	10	120930	302 000 280	0,69
2,90	33	61	2,9	10	120947	302 000 290	0,69
3,00	33	61	3,0	10	120053	302 000 300	0,69
3,10	36	65	3,1	10	120954	302 000 310	0,75
3,20	36	65	3,2	10	120060	302 000 320	0,75
3,30	36	65	3,3	10	120077	302 000 330	0,75
3,40	39	70	3,4	10	120978	302 000 340	0,75
3,50	39	70	3,5	10	120084	302 000 350	0,75
3,60	39	70	3,6	10	120985	302 000 360	0,84
3,70	39	70	3,7	10	120992	302 000 370	0,84
3,80	43	75	3,8	10	121005	302 000 380	0,84
3,90	43	75	3,9	10	121012	302 000 390	0,84
4,00	43	75	4,0	10	120091	302 000 400	0,84
4,10	43	75	4,1	10	120107	302 000 410	0,98
4,20	43	75	4,2	10	120114	302 000 420	0,98
4,30	47	80	4,3	10	121029	302 000 430	1,00
4,40	47	80	4,4	10	121036	302 000 440	1,00
4,50	47	80	4,5	10	120121	302 000 450	1,00
4,60	47	80	4,6	10	121043	302 000 460	1,18
4,70	47	80	4,7	10	121050	302 000 470	1,18
4,80	52	86	4,8	10	120138	302 000 480	1,18
4,90	52	86	4,9	10	121067	302 000 490	1,18
5,00	52	86	5,0	10	120145	302 000 500	1,18
5,10	52	86	5,1	10	120152	302 000 510	1,25
5,20	52	86	5,2	10	120169	302 000 520	1,25
5,30	52	86	5,3	10	121074	302 000 530	1,25
5,40	57	93	5,4	10	121081	302 000 540	1,25
5,50	57	93	5,5	10	120176	302 000 550	1,25

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

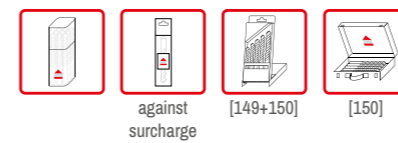
FOR USE IN



APPLICATION

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

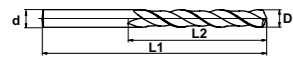
PACKAGING



D Ø mm	L2 mm	L1 mm	d Ø mm	12345	EAN 4016707	12345	€
5,60	57	93	5,6	10	121098	302 000 560	1,38
5,70	57	93	5,7	10	121104	302 000 570	1,38
5,80	57	93	5,8	10	121111	302 000 580	1,38
5,90	57	93	5,9	10	121128	302 000 590	1,38
6,00	57	93	6,0	10	120183	302 000 600	1,38
6,10	63	101	6,1	10	121135	302 000 610	1,54
6,20	63	101	6,2	10	121142	302 000 620	1,54
6,30	63	101	6,3	10	121159	302 000 630	1,54
6,40	63	101	6,4	10	121166	302 000 640	1,55
6,50	63	101	6,5	10	120190	302 000 650	1,55
6,60	63	101	6,6	10	121173	302 000 660	1,88
6,70	63	101	6,7	10	121180	302 000 670	1,88
6,80	69	109	6,8	10	120206	302 000 680	1,88
6,90	69	109	6,9	10	121197	302 000 690	1,88
7,00	69	109	7,0	10	120213	302 000 700	1,88
7,10	69	109	7,1	10	121203	302 000 710	2,06
7,20	69	109	7,2	10	121210	302 000 720	2,06
7,30	69	109	7,3	10	121227	302 000 730	2,06
7,40	69	109	7,4	10	121234	302 000 740	2,06
7,50	69	109	7,5	10	120220	302 000 750	2,06
7,60	75	117	7,6	10	121241	302 000 760	2,39
7,70	75	117	7,7	10	121258	302 000 770	2,39
7,80	75	117	7,8	10	121265	302 000 780	2,39
7,90	75	117	7,9	10	121272	302 000 790	2,39
8,00	75	117	8,0	10	120237	302 000 800	2,39
8,10	75	117	8,1	10	121289	302 000 810	2,59
8,20	75	117	8,2	10	121296	302 000 820	2,59
8,30	75	117	8,3	10	121302	302 000 830	2,59
8,40	75	117	8,4	10	121319	302 000 840	2,59
8,50	75	117	8,5	10	120244	302 000 850	2,59
8,60	81	125	8,6	10	121326	302 000 860	2,84
8,70	81	125	8,7	10	121333	302 000 870	2,84
8,80	81	125	8,8	10	121340	302 000 880	2,84
8,90	81	125	8,9	10	121357	302 000 890	2,84
9,00	81	125	9,0	10	120251	302 000 900	2,84
9,10	81	125	9,1	10	121364	302 000 910	3,36
9,20	81	125	9,2	10	121371	302 000 920	3,36
9,30	81	125	9,3	10	121388	302 000 930	3,36
9,40	81	125	9,4	10	121395	302 000 940	3,36
9,50	81	125	9,5	10	120268	302 000 950	3,36
9,60	87	133	9,6	10	121401	302 000 960	3,75
9,70	87	133	9,7	10	121418	302 000 970	3,75
9,80	87	133	9,8	10	121425	302 000 980	3,75
9,90	87	133	9,9	10	121432	302 000 990	3,75
10,00	87	133	10,0	10	120275	302 001 000	3,75
10,20	87	133	10,2	5	120282	302 001 020	4,76



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

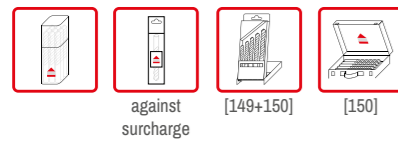
FOR USE IN



APPLICATION

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

PACKAGING



D Ø mm	L2 mm	L1 mm	d Ø mm	5	EAN 4016707	12345	€
10,50	87	133	10,5	5	120299	302 001 050	4,76
11,00	94	142	11,0	5	120305	302 001 100	4,80
11,50	94	142	11,5	5	120312	302 001 150	5,30
12,00	101	151	12,0	5	120329	302 001 200	6,27
12,50	101	151	12,5	5	120336	302 001 250	6,72
13,00	101	151	13,0	5	120343	302 001 300	7,11
13,50	108	160	13,5	5	121449	302 001 350	7,81
14,00	108	160	14,0	5	121456	302 001 400	8,43
14,50	114	169	14,5	5	121463	302 001 450	9,92
15,00	114	169	15,0	5	121470	302 001 500	10,55
15,50	120	178	15,5	5	121487	302 001 550	11,48
16,00	120	178	16,0	5	121494	302 001 600	12,20

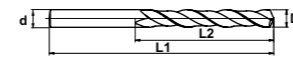
HSS DIN 338 GROUND, SPLIT POINT

- 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 Ø mm	d Ø mm	€
10,1 - 13	10	0,50
13,1 - 16	10	0,62
13,1 - 16	13	0,50

Net surcharges for self-service pouches HSS DIN 338	
D Ø mm	€
0,5 - 10,5	0,10
11,0 - 15,0	0,11
15,5 - 20,0	0,13

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

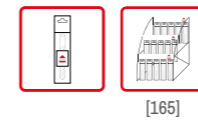
FOR USE IN



APPLICATION

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

PACKAGING

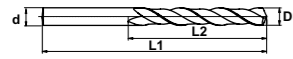


Comments

- Other dimensions S.82-84

D Ø mm	L2 mm	L1 mm	2	5	EAN 4016707	12345	€
1,00	12	34	2	5	122637	302 320 100	1,46
1,50	18	40	2	5	122644	302 320 150	1,46
2,00	24	49	2	5	122651	302 320 200	1,54
2,50	30	57	2	5	120718	302 320 250	1,60
3,00	33	61	2	5	120725	302 320 300	1,60
3,20	36	65	2	5	120732	302 320 320	1,70
3,30	36	65	2	5	122668	302 320 330	1,70
3,50	39	70	2	5	120749	302 320 350	1,70
4,00	43	75	1	10	120459	302 300 400	1,06
4,20	43	75	1	10	120473	302 300 420	1,20
4,50	47	80	1	10	120480	302 300 450	1,21
4,80	52	86	1	10	120497	302 300 480	1,40
5,00	52	86	1	10	120503	302 300 500	1,40
5,50	57	93	1	10	120534	302 300 550	1,46
6,00	57	93	1	10	120541	302 300 600	1,59
6,50	63	101	1	10	120558	302 300 650	1,75
7,00	69	109	1	10	120572	302 300 700	2,09
7,50	69	109	1	10	120589	302 300 750	2,26
8,00	75	117	1	10	120596	302 300 800	2,60
8,50	75	117	1	10	120602	302 300 850	2,80
9,00	81	125	1	10	120619	302 300 900	3,05
9,50	81	125	1	10	120626	302 300 950	3,57
10,00	87	133	1	10	120633	302 301 000	3,96
10,20	87	133	1	5	120640	302 301 020	4,97
10,50	87	133	1	5	120657	302 301 050	4,97
11,00	94	142	1	5	120664	302 301 100	5,04
11,50	94	142	1	5	120671	302 301 150	5,53
12,00	101	151	1	5	120688	302 301 200	6,51
12,50	101	151	1	5	120695	302 301 250	6,96
13,00	101	151	1	5	120701	302 301 300	7,34

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

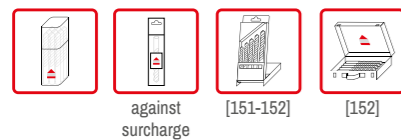
FOR USE IN



APPLICATION

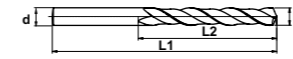
- In all rotary and percussion drilling machines
- In machines for mechanical processing
- Only for rotary use

PACKAGING



D Ø mm	L2 mm	L1 mm	d Ø mm	12345	EAN 4016707	12345	€
0,50	6	22	0,5	10	040016	300 000 050	0,16
0,60	7	24	0,6	10	040023	300 000 060	0,16
0,70	9	28	0,7	10	040030	300 000 070	0,16
0,80	10	30	0,8	10	040047	300 000 080	0,16
0,90	11	32	0,9	10	040054	300 000 090	0,16
1,00	12	34	1,0	10	040061	300 000 100	0,16
1,10	14	36	1,1	10	040078	300 000 110	0,20
1,20	16	38	1,2	10	040085	300 000 120	0,20
1,25	16	38	1,3	10	040092	300 000 125	0,20
1,30	16	38	1,3	10	040108	300 000 130	0,20
1,40	18	40	1,4	10	040115	300 000 140	0,20
1,50	18	40	1,5	10	040122	300 000 150	0,20
1,60	20	43	1,6	10	040139	300 000 160	0,22
1,70	20	43	1,7	10	040146	300 000 170	0,22
1,75	22	46	1,8	10	040153	300 000 175	0,22
1,80	22	46	1,8	10	040160	300 000 180	0,22
1,90	22	46	1,9	10	040177	300 000 190	0,22
2,00	24	49	2,0	10	040184	300 000 200	0,22
2,10	24	49	2,1	10	040191	300 000 210	0,25
2,20	27	53	2,2	10	040207	300 000 220	0,25
2,25	27	53	2,3	10	040214	300 000 225	0,25
2,30	27	53	2,3	10	040221	300 000 230	0,25
2,40	30	57	2,4	10	040238	300 000 240	0,25
2,50	30	57	2,5	10	040245	300 000 250	0,25
2,60	30	57	2,6	10	040252	300 000 260	0,25
2,70	33	61	2,7	10	040269	300 000 270	0,25
2,75	33	61	2,8	10	040276	300 000 275	0,25
2,80	33	61	2,8	10	040283	300 000 280	0,25
2,90	33	61	2,9	10	040290	300 000 290	0,25
3,00	33	61	3,0	10	040306	300 000 300	0,25
3,10	36	65	3,1	10	040313	300 000 310	0,25
3,20	36	65	3,2	10	040320	300 000 320	0,25
3,25	36	65	3,3	10	040337	300 000 325	0,25
3,30	36	65	3,3	10	040344	300 000 330	0,25
3,40	39	70	3,4	10	040351	300 000 340	0,25
3,50	39	70	3,5	10	040368	300 000 350	0,25
3,60	39	70	3,6	10	040375	300 000 360	0,27
3,70	39	70	3,7	10	040382	300 000 370	0,27
3,75	39	70	3,8	10	040399	300 000 375	0,27
3,80	43	75	3,8	10	040405	300 000 380	0,27
3,90	43	75	3,9	10	040412	300 000 390	0,27
4,00	43	75	4,0	10	040429	300 000 400	0,27
4,10	43	75	4,1	10	040436	300 000 410	0,31
4,20	43	75	4,2	10	040443	300 000 420	0,31
4,25	43	75	4,3	10	040450	300 000 425	0,31
4,30	47	80	4,3	10	040467	300 000 430	0,31

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

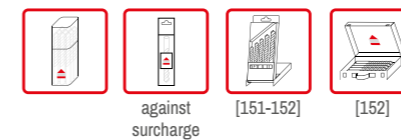
FOR USE IN



APPLICATION

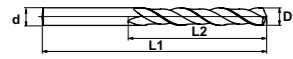
- In all rotary and percussion drilling machines
- In machines for mechanical processing
- Only for rotary use

PACKAGING



D Ø mm	L2 mm	L1 mm	d Ø mm	12345	EAN 4016707	12345	€
4,40	47	80	4,4	10	040474	300 000 440	0,31
4,50	47	80	4,5	10	040481	300 000 450	0,31
4,60	47	80	4,6	10	040498	300 000 460	0,36
4,70	47	80	4,7	10	040504	300 000 470	0,36
4,75	47	80	4,8	10	040511	300 000 475	0,36
4,80	52	86	4,8	10	040528	300 000 480	0,36
4,90	52	86	4,9	10	040535	300 000 490	0,36
5,00	52	86	5,0	10	040542	300 000 500	0,36
5,10	52	86	5,1	10	040559	300 000 510	0,42
5,20	52	86	5,2	10	040566	300 000 520	0,42
5,25	52	86	5,3	10	040573	300 000 525	0,42
5,30	52	86	5,3	10	040580	300 000 530	0,42
5,40	57	93	5,4	10	040597	300 000 540	0,42
5,50	57	93	5,5	10	040603	300 000 550	0,42
5,60	57	93	5,6	10	040610	300 000 560	0,46
5,70	57	93	5,7	10	040627	300 000 570	0,46
5,75	57	93	5,8	10	040634	300 000 575	0,46
5,80	57	93	5,8	10	040641	300 000 580	0,46
5,90	57	93	5,9	10	040658	300 000 590	0,46
6,00	57	93	6,0	10	040665	300 000 600	0,46
6,10	63	101	6,1	10	040672	300 000 610	0,52
6,20	63	101	6,2	10	040689	300 000 620	0,52
6,25	63	101	6,3	10	040696	300 000 625	0,52
6,30	63	101	6,3	10	040702	300 000 630	0,52
6,40	63	101	6,4	10	040719	300 000 640	0,52
6,50	63	101	6,5	10	040726	300 000 650	0,52
6,60	63	101	6,6	10	040733	300 000 660	0,65
6,70	63	101	6,7	10	040740	300 000 670	0,65
6,75	69	109	6,8	10	040757	300 000 675	0,65
6,80	69	109	6,8	10	040764	300 000 680	0,65
6,90	69	109	6,9	10	040771	300 000 690	0,65
7,00	69	109	7,0	10	040788	300 000 700	0,65
7,10	69	109	7,1	10	040795	300 000 710	0,73
7,20	69	109	7,2	10	040801	300 000 720	0,73
7,25	69	109	7,3	10	040818	300 000 725	0,73
7,30	69	109	7,3	10	040825	300 000 730	0,73
7,40	69	109	7,4	10	040832	300 000 740	0,73
7,50	69	109	7,5	10	040849	300 000 750	0,73
7,60	75	117	7,6	10	040856	300 000 760	0,85
7,70	75	117	7,7	10	040863	300 000 770	0,85
7,75	75	117	7,8	10	040870	300 000 775	0,89
7,80	75	117	7,8	10	040887	300 000 780	0,89
7,90	75	117	7,9	10	040894	300 000 790	0,89
8,00	75	117	8,0	10	040900	300 000 800	0,89
8,10	75	117	8,1	10	040917	300 000 810	1,00
8,20	75	117	8,2	10	040924	300 000 820	1,00

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

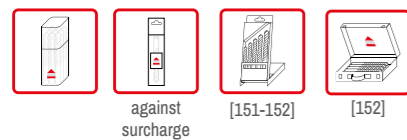
FOR USE IN



APPLICATION

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

PACKAGING



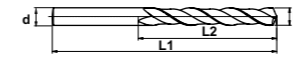
against surcharge

[151-152]

[152]

D Ø mm	L2 mm	L1 mm	d Ø mm	KEIL	EAN 4016707	12345	€
8,25	75	117	8,3	10	040931	300 000 825	1,00
8,30	75	117	8,3	10	040948	300 000 830	1,00
8,40	75	117	8,4	10	040955	300 000 840	1,00
8,50	75	117	8,5	10	040962	300 000 850	1,00
8,60	81	125	8,6	10	040979	300 000 860	1,06
8,70	81	125	8,7	10	040986	300 000 870	1,06
8,75	81	125	8,8	10	040993	300 000 875	1,14
8,80	81	125	8,8	10	041006	300 000 880	1,14
8,90	81	125	8,9	10	041013	300 000 890	1,14
9,00	81	125	9,0	10	041020	300 000 900	1,14
9,10	81	125	9,1	10	041037	300 000 910	1,14
9,20	81	125	9,2	10	041044	300 000 920	1,14
9,25	81	125	9,3	10	041051	300 000 925	1,25
9,30	81	125	9,3	10	041068	300 000 930	1,25
9,40	81	125	9,4	10	041075	300 000 940	1,25
9,50	81	125	9,5	10	041082	300 000 950	1,25
9,60	87	133	9,6	10	041099	300 000 960	1,25
9,70	87	133	9,7	10	041105	300 000 970	1,25
9,75	87	133	9,8	10	041112	300 000 975	1,43
9,80	87	133	9,8	10	041129	300 000 980	1,43
9,90	87	133	9,9	10	041136	300 000 990	1,43
10,00	87	133	10,0	10	041143	300 001 000	1,43
10,20	87	133	10,2	5	041150	300 001 020	1,58
10,50	87	133	10,5	5	041167	300 001 050	1,62
11,00	94	142	11,0	5	041174	300 001 100	1,72
11,50	94	142	11,5	5	041181	300 001 150	1,85
12,00	101	151	12,0	5	041198	300 001 200	2,12
12,50	101	151	12,5	5	041204	300 001 250	2,20
13,00	101	151	13,0	5	041211	300 001 300	2,35
13,50	108	160	13,5	5	041228	300 001 350	3,37
14,00	108	160	14,0	5	041235	300 001 400	3,63
14,50	114	169	14,5	5	041242	300 001 450	3,89
15,00	114	169	15,0	5	041259	300 001 500	5,21
15,50	120	178	15,5	5	041266	300 001 550	5,32
16,00	120	178	16,0	5	041273	300 001 600	5,79
16,50	125	184	16,0	5	041280	300 001 650	6,02
17,00	125	184	17,0	5	041297	300 001 700	6,54
17,50	130	191	17,5	5	041303	300 001 750	6,83
18,00	130	191	18,0	5	041310	300 001 800	7,92
18,50	135	198	18,5	5	041327	300 001 850	8,78
19,00	135	198	19,0	5	041334	300 001 900	9,37
19,50	140	205	19,5	5	041341	300 001 950	9,58
20,00	140	205	20,0	5	041358	300 002 000	9,58

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

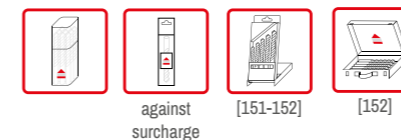
FOR USE IN



APPLICATION

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

PACKAGING



against surcharge

[151-152]

[152]



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/mm², non-iron metal, cast iron and hard plastics.

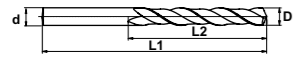
Net surcharges for self-service pouches HSS DIN 338

D Ø mm	€
0,5 - 10,5	0,10
11,0 - 15,0	0,11
15,5 - 20,0	0,13

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

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

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

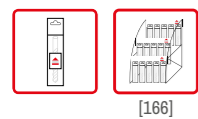
FOR USE IN



APPLICATION

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

PACKAGING

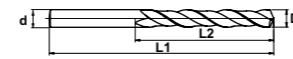


Comments

- Other dimensions S.85-87

D Ø mm	L2 mm	L1 mm			EAN 4016707		€
1,00	12	34	2	5	044458	300 320 100	0,53
1,50	18	40	2	5	044519	300 320 150	0,61
2,00	24	49	2	5	044571	300 320 200	0,65
2,50	30	57	2	5	044632	300 320 250	0,69
3,00	33	61	2	5	044694	300 320 300	0,69
3,20	36	65	2	5	044717	300 320 320	0,69
3,30	36	65	2	5	044731	300 320 330	0,69
3,50	39	70	2	5	044755	300 320 350	0,69
4,00	43	75	1	10	043420	300 300 400	0,47
4,20	43	75	1	10	043444	300 300 420	0,51
4,50	47	80	1	10	043482	300 300 450	0,51
4,80	52	86	1	10	043529	300 300 480	0,57
5,00	52	86	1	10	043543	300 300 500	0,57
5,50	57	93	1	10	043604	300 300 550	0,63
6,00	57	93	1	10	043666	300 300 600	0,67
6,50	63	101	1	10	043727	300 300 650	0,74
7,00	69	109	1	10	043789	300 300 700	0,85
7,50	69	109	1	10	043840	300 300 750	0,93
8,00	75	117	1	10	043901	300 300 800	1,10
8,50	75	117	1	10	043963	300 300 850	1,21
9,00	81	125	1	10	044021	300 300 900	1,34
9,50	81	125	1	10	044083	300 300 950	1,46
10,00	87	133	1	10	044144	300 301 000	1,63
10,20	87	133	1	5	044151	300 301 020	1,78
10,50	87	133	1	5	044168	300 301 050	1,84
11,00	94	142	1	5	044175	300 301 100	1,95
11,50	94	142	1	5	044182	300 301 150	2,08
12,00	101	151	1	5	044199	300 301 200	2,36
12,50	101	151	1	5	044205	300 301 250	2,42
13,00	101	151	1	5	044212	300 301 300	2,57

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

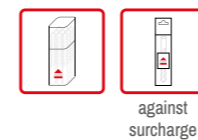
FOR USE IN



APPLICATION

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

PACKAGING

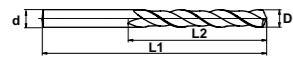


against
surcharge

D Ø mm	L2 mm	L1 mm	d Ø mm		EAN 4016707		€
10,50	87	133	10,0	5	045516	300 105 100	3,08
11,00	94	142	10,0	5	045523	300 110 100	3,33
11,50	94	142	10,0	5	045530	300 115 100	3,33
12,00	101	151	10,0	5	045547	300 120 100	3,82
12,50	101	151	10,0	5	045554	300 125 100	4,01
13,00	101	151	10,0	5	045561	300 130 100	4,36
13,50	108	160	10,0	5	045578	300 135 100	5,70
13,50	108	160	13,0	5	045141	300 135 130	6,10
14,00	108	160	10,0	5	045585	300 140 100	5,70
14,00	108	160	13,0	5	045158	300 140 130	6,32
14,50	114	169	10,0	5	045592	300 145 100	6,05
14,50	114	169	13,0	5	045165	300 145 130	7,01
15,00	114	169	10,0	5	045608	300 150 100	7,20
15,00	114	169	13,0	5	045172	300 150 130	8,13
15,50	120	178	10,0	5	045615	300 155 100	7,20
15,50	120	178	13,0	5	045189	300 155 130	8,13
16,00	120	178	10,0	5	045622	300 160 100	8,52
16,00	120	178	13,0	5	045196	300 160 130	9,28
16,50	125	184	10,0	5	045646	300 165 100	8,52
16,50	125	184	13,0	5	045202	300 165 130	9,28
17,00	125	184	10,0	5	045639	300 170 100	8,52
17,00	125	184	13,0	5	045219	300 170 130	9,28
17,50	130	191	13,0	5	045226	300 175 130	12,23
18,00	130	191	10,0	5	045653	300 180 100	10,33
18,00	130	191	13,0	5	045233	300 180 130	12,23
18,50	135	198	13,0	5	045240	300 185 130	12,43
19,00	135	198	13,0	5	045257	300 190 130	12,43
19,50	140	205	13,0	5	045264	300 195 130	13,50
20,00	140	205	10,0	5	045660	300 200 100	11,52
20,00	140	205	13,0	5	045271	300 200 130	13,50

Net surcharges for self-service pouches HSS DIN 338	
D Ø mm	€
0,5 - 10,5	0,10
11,0 - 15,0	0,11
15,5 - 20,0	0,13

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

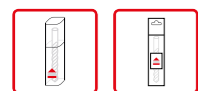
FOR USE IN



APPLICATION

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

PACKAGING



against surcharge

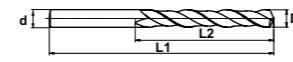
Comments

- Other dimensions on request

D Ø mm	L2 mm	L1 mm	d Ø mm	PKT	EAN 4016707	12345	€
2,00	56	85	2,0	10	070013	340 000 020	0,43
2,50	62	95	2,5	10	070020	340 000 025	0,46
2,90	66	100	2,9	10	070310	340 000 029	0,57
3,00	66	100	3,0	10	070037	340 000 030	0,57
3,20	69	106	3,2	10	070044	340 000 032	0,75
3,50	73	112	3,5	10	070051	340 000 035	0,75
3,80	78	119	3,8	10	070068	340 000 038	0,94
3,90	78	119	3,9	10	070327	340 000 039	0,94
4,00	78	119	4,0	10	070075	340 000 040	0,94
4,10	78	119	4,1	10	070082	340 000 041	1,08
4,20	78	119	4,2	10	070099	340 000 042	1,08
4,30	82	126	4,3	10	070105	340 000 043	1,08
4,50	82	126	4,5	10	070112	340 000 045	1,08
4,80	87	132	4,8	10	070129	340 000 048	1,32
4,90	87	132	4,9	10	070334	340 000 049	1,32
5,00	87	132	5,0	10	070136	340 000 050	1,32
5,10	87	132	5,1	10	070341	340 000 051	1,47
5,20	87	132	5,2	10	070143	340 000 052	1,47
5,50	91	139	5,5	10	070150	340 000 055	1,47
5,80	91	139	5,8	10	070174	340 000 058	1,68
6,00	91	139	6,0	10	070181	340 000 060	1,68
6,50	97	148	6,5	10	070198	340 000 065	1,78
7,00	102	156	7,0	10	070204	340 000 070	2,02
7,50	102	156	7,5	10	070211	340 000 075	2,39
8,00	109	165	8,0	10	070228	340 000 080	2,74
8,50	109	165	8,5	10	070235	340 000 085	2,92
9,00	115	175	9,0	10	070242	340 000 090	3,40
9,50	115	175	9,5	10	070259	340 000 095	3,70
10,00	121	184	10,0	10	070266	340 000 100	4,24
10,50	121	184	10,5	10	070273	340 000 105	4,59
11,00	128	195	11,0	10	070280	340 000 110	4,97
11,50	128	195	11,5	10	070297	340 000 115	5,48
12,00	134	205	12,0	10	070303	340 000 120	6,19

Net surcharges for self-service pouches HSS DIN 338	
D Ø mm	€
2,0 - 5,2	0,10
5,5 - 9,5	0,11
10,0 - 12,0	0,13

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

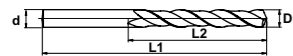


Comments

- 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 Ø mm	L2 mm	L1 mm	d Ø mm	PKT	EAN 4016707	12345	€
3,00	100	150	3,0	1	130014	342 030 150	3,49
3,00	130	190	3,0	1	130021	342 030 190	4,14
3,20	105	155	3,2	1	130038	342 032 155	4,17
3,20	135	200	3,2	1	130045	342 032 200	6,41
3,50	115	165	3,5	1	130052	342 035 165	4,07
3,50	145	210	3,5	1	130069	342 035 210	4,97
4,00	120	175	4,0	1	130076	342 040 175	4,97
4,00	150	220	4,0	1	130083	342 040 220	5,82
4,00	190	280	4,0	1	130090	342 040 280	7,50
4,20	120	175	4,2	1	130106	342 042 175	6,71
4,20	150	220	4,2	1	130113	342 042 220	9,41
4,50	125	185	4,5	1	130120	342 045 185	5,82
4,50	160	235	4,5	1	130137	342 045 235	6,81
5,00	135	195	5,0	1	130144	342 050 195	6,81
5,00	170	245	5,0	1	130151	342 050 245	8,08
5,00	210	315	5,0	1	130168	342 050 315	10,49
5,50	140	205	5,5	1	130175	342 055 205	8,27
5,50	180	260	5,5	1	130182	342 055 260	9,53
6,00	140	205	6,0	1	130199	342 060 205	9,42
6,00	180	260	6,0	1	130205	342 060 260	11,59
6,00	225	330	6,0	1	130212	342 060 330	15,07
6,50	150	215	6,5	1	130229	342 065 215	10,95
6,50	190	275	6,5	1	130236	342 065 275	13,79
6,50	235	350	6,5	1	130243	342 065 350	17,85
7,00	155	225	7,0	1	130250	342 070 225	12,78
7,00	200	290	7,0	1	130267	342 070 290	16,24
7,00	250	370	7,0	1	130274	342 070 370	28,59
7,50	155	225	7,5	1	130281	342 075 225	14,14
8,00	165	240	8,0	1	130298	342 080 240	17,29
8,00	210	305	8,0	1	130304	342 080 305	22,22
8,00	265	390	8,0	1	130311	342 080 390	37,01
8,50	165	240	8,5	1	130328	342 085 240	19,54
8,50	210	305	8,5	1	130335	342 085 305	25,14
8,50	265	390	8,5	1	130342	342 085 390	38,52
9,00	175	250	9,0	1	130359	342 090 250	21,90
9,00	220	320	9,0	1	130366	342 090 320	28,34
9,00	280	410	9,0	1	130373	342 090 410	45,49
10,00	185	265	10,0	1	130380	342 100 265	27,28
10,00	235	340	10,0	1	130397	342 100 340	37,74
10,00	295	430	10,0	1	130403	342 100 430	57,12

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

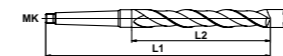


D Ø mm	L2 mm	L1 mm		EAN 4016707...	12345	€
5,00	30	100	1	230011	344 050 100	2,83
5,00	30	120	1	230028	344 050 120	3,71
5,00	30	150	1	230035	344 050 150	4,59
5,00	30	180	1	230042	344 050 180	5,60
5,00	30	210	1	230059	344 050 210	6,43
5,30	30	100	1	230066	344 053 100	3,06
5,30	30	120	1	230073	344 053 120	3,80
5,30	30	150	1	230080	344 053 150	4,59
5,30	30	180	1	230097	344 053 180	6,04
5,30	30	210	1	230103	344 053 210	7,01
5,50	30	100	1	230110	344 055 100	3,06
5,50	30	120	1	230127	344 055 120	3,80
5,50	30	150	1	230134	344 055 150	4,59
5,50	30	180	1	230141	344 055 180	6,04
5,50	30	210	1	230158	344 055 210	7,01
5,70	30	100	1	230165	344 057 100	3,20
5,70	30	120	1	230172	344 057 120	4,37
5,70	30	150	1	230189	344 057 150	5,38
5,70	30	180	1	230196	344 057 180	7,30
5,70	30	210	1	230202	344 057 210	7,83
5,80	30	100	1	230219	344 058 100	3,20
5,80	30	120	1	230226	344 058 120	4,37
5,80	30	150	1	230233	344 058 150	5,38
5,80	30	180	1	230240	344 058 180	6,69
5,80	30	210	1	230257	344 058 210	7,83

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 sticking 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

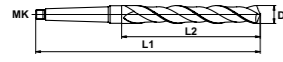
PACKAGING



- Hanger with round hole

D Ø mm	L2 mm	L1 mm	MK		EAN 4016707...	12345	€
8,00	75	156	1	1	080012	345 000 080	6,99
10,00	87	168	1	1	080050	345 000 100	7,76
10,50	87	168	1	1	080067	345 000 105	7,76
11,00	94	175	1	1	080074	345 000 110	8,00
12,00	101	182	1	1	080098	345 000 120	8,52
12,50	101	182	1	1	080104	345 000 125	9,10
13,00	101	182	1	1	080111	345 000 130	9,62
13,50	108	189	1	1	080128	345 000 135	10,60
14,00	108	189	1	1	080135	345 000 140	11,11
14,50	114	212	2	1	080142	345 000 145	12,44
15,00	114	212	2	1	080159	345 000 150	12,44
15,50	120	218	2	1	080166	345 000 155	13,25
16,00	120	218	2	1	080173	345 000 160	13,25
16,50	125	223	2	1	080180	345 000 165	13,72
17,00	125	223	2	1	080197	345 000 170	13,72
17,50	130	228	2	1	080203	345 000 175	14,53
18,00	130	228	2	1	080210	345 000 180	14,82
18,50	135	233	2	1	080227	345 000 185	15,06
19,00	135	233	2	1	080234	345 000 190	15,33
19,50	140	238	2	1	080241	345 000 195	16,60
20,00	140	238	2	1	080258	345 000 200	16,60
20,50	145	243	2	1	080265	345 000 205	18,45
21,00	145	243	2	1	080272	345 000 210	18,92
21,50	150	248	2	1	080289	345 000 215	20,01
22,00	150	248	2	1	080296	345 000 220	20,01
22,50	155	253	2	1	080302	345 000 225	22,44
23,00	155	253	2	1	080319	345 000 230	22,59
23,50	155	276	3	1	080326	345 000 235	25,03
24,00	155	281	3	1	080333	345 000 240	26,08
24,50	160	281	3	1	080340	345 000 245	26,89
25,00	160	281	3	1	080357	345 000 250	27,34
25,50	165	286	3	1	080364	345 000 255	29,19
26,00	165	286	3	1	080371	345 000 260	29,71
26,50	165	286	3	1	080388	345 000 265	29,71
27,00	170	291	3	1	080395	345 000 270	31,28
28,00	170	291	3	1	080418	345 000 280	29,30
28,50	175	296	3	1	080425	345 000 285	33,35
29,00	175	296	3	1	080432	345 000 290	36,46
29,50	175	296	3	1	080449	345 000 295	36,46
30,00	175	296	3	1	080456	345 000 300	36,46
30,50	180	301	3	1	080463	345 000 305	38,55

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 Ø mm	L2 mm	L1 mm	MK	3	1	EAN 4016707	12345	€
31,00	180	301	3	1	080470	345 000 310	41,16	
31,50	180	301	3	1	080487	345 000 315	41,16	
32,00	185	334	4	1	080494	345 000 320	47,94	
32,50	185	334	4	1	080500	345 000 325	48,62	
33,00	185	334	4	1	080517	345 000 330	52,07	
34,00	190	339	4	1	080531	345 000 340	55,71	
35,00	190	339	4	1	080555	345 000 350	58,82	
35,50	190	339	4	1	080562	345 000 355	62,69	
36,00	195	344	4	1	080579	345 000 360	64,76	
36,50	195	344	4	1	080586	345 000 365	66,33	
37,00	195	344	4	1	080593	345 000 370	69,96	
37,50	195	344	4	1	080609	345 000 375	79,07	
38,00	200	349	4	1	080616	345 000 380	79,07	
39,00	200	349	4	1	080630	345 000 390	79,07	
39,50	200	349	4	1	080647	345 000 395	79,84	
40,00	200	349	4	1	080654	345 000 400	79,84	
40,50	205	354	4	1	080661	345 000 405	83,99	
41,00	205	354	4	1	080678	345 000 410	87,63	
42,00	205	354	4	1	080692	345 000 420	91,79	
43,00	210	359	4	1	080715	345 000 430	94,92	
44,00	210	359	4	1	080739	345 000 440	98,03	
45,00	210	359	4	1	080753	345 000 450	105,55	
46,00	215	364	4	1	080777	345 000 460	111,55	
48,00	220	369	4	1	080814	345 000 480	124,89	
50,00	220	369	4	1	080852	345 000 500	126,34	

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/mm², 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

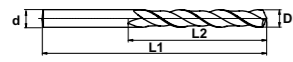
- In all rotary and percussion drilling machines
- In machines for mechanical processing
- Only for rotary use

PACKAGING



D Ø mm	L2 mm	L1 mm	d Ø mm	10	EAN 4016707	12345	€
2,00	12	38	2,0	10	090011	303 000 200	0,23
2,50	14	43	2,5	10	090028	303 000 250	0,31
3,00	16	46	3,0	10	090035	303 000 300	0,41
3,20	18	49	3,2	10	090059	303 000 320	0,45
3,30	18	49	3,3	10	090066	303 000 330	0,50
3,50	20	52	3,5	10	090080	303 000 350	0,50
3,70	20	52	3,7	10	090103	303 000 370	0,62
3,80	22	55	3,8	10	090110	303 000 380	0,62
4,00	22	55	4,0	10	090134	303 000 400	0,62
4,10	22	55	4,1	10	090141	303 000 410	0,71
4,20	22	55	4,2	10	090158	303 000 420	0,71
4,50	24	58	4,5	10	090189	303 000 450	0,71
4,80	26	62	4,8	10	090219	303 000 480	0,78
4,90	26	62	4,9	10	090226	303 000 490	0,78
5,00	26	62	5,0	10	090233	303 000 500	0,78
5,10	26	62	5,1	10	090240	303 000 510	1,14
5,20	26	62	5,2	10	090257	303 000 520	1,14
5,60	28	66	5,6	10	090295	303 000 560	1,29
5,70	28	66	5,7	10	090301	303 000 570	1,29
6,00	28	66	6,0	10	090332	303 000 600	1,29
6,50	31	70	6,5	10	090349	303 000 650	1,31
7,00	34	74	7,0	10	090356	303 000 700	1,60
7,50	34	74	7,5	10	090363	303 000 750	1,84
8,00	37	79	8,0	10	090370	303 000 800	2,37
8,50	37	79	8,5	10	090387	303 000 850	2,51
9,00	40	84	9,0	10	090394	303 000 900	2,99
9,50	40	84	9,5	10	090400	303 000 950	3,25
10,00	43	89	10,0	10	090417	303 001 000	3,84

HSS DIN 8037 CARBIDE TIPPED | 310



DRIVE



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/mm², cast steel above 700 N/mm², 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



D Ø mm	L2 mm	L1 mm	d Ø mm	1	EAN 4016707	12345	€
2,00	18	45	2,0	1	140013	310 000 020	13,69
2,50	18	45	2,5	1	140020	310 000 025	13,69
3,00	20	50	3,0	1	140037	310 000 030	12,60
3,50	25	56	3,5	1	140044	310 000 035	12,92
3,80	25	56	3,8	1	140051	310 000 038	13,95
4,00	25	56	4,0	1	140068	310 000 040	12,36
4,20	25	63	4,2	1	140075	310 000 042	13,95
4,50	25	63	4,5	1	140082	310 000 045	12,36
4,80	25	63	4,8	1	140099	310 000 048	13,95
5,00	25	63	5,0	1	140105	310 000 050	12,36
5,20	32	71	5,2	1	140129	310 000 052	15,01
5,50	32	71	5,5	1	140136	310 000 055	13,42
5,80	32	71	5,8	1	140143	310 000 058	15,31
6,00	32	71	6,0	1	140150	310 000 060	13,95
6,50	32	71	6,5	1	140167	310 000 065	14,22
6,80	40	80	6,8	1	140174	310 000 068	17,18
7,00	40	80	7,0	1	140181	310 000 070	16,11
7,50	40	80	7,5	1	140198	310 000 075	16,92
8,00	40	80	8,0	1	140204	310 000 080	17,98
8,50	50	90	8,5	1	140211	310 000 085	18,78
9,00	50	90	9,0	1	140228	310 000 090	20,66
9,50	50	90	9,5	1	140235	310 000 095	23,33
10,00	56	100	10,0	1	140242	310 000 100	24,12
11,00	56	100	11,0	1	140259	310 000 110	29,19
12,00	63	112	12,0	1	140266	310 000 120	33,55
13,00	63	112	13,0	1	140273	310 000 130	38,92
14,00	71	125	14,0	1	140280	310 000 140	43,70
16,00	80	140	16,0	1	140297	310 000 160	62,51

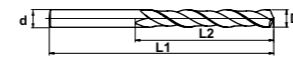
HSS DIN 8037 CARBIDE TIPPED

- 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

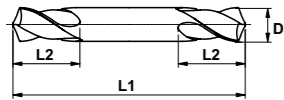
- Ideal for extremely precise work
- Great results in thin steel sheets
- Drills in cast iron, iron, non-ferrous metal, stainless steel and steel
- Ideal for cordless drills or box column drills

PACKAGING



D Ø mm	L2 mm	L1 mm	d Ø mm	1	EAN 4016707	12345	€
3,00	33	61	3	1	919893	312 000 030	1,59
3,20	36	65	3,2	1	919909	312 000 032	1,72
3,30	36	65	3,3	1	919916	312 000 033	1,72
3,50	39	70	3,5	1	919923	312 000 035	1,72
4,00	43	75	4	1	919930	312 000 040	1,90
4,20	43	75	4,2	1	919947	312 000 042	2,09
4,50	47	80	4,5	1	929954	312 000 045	2,09
4,80	52	86	4,8	1	919961	312 000 048	2,27
5,00	52	86	5	1	919985	312 000 050	2,35
5,50	57	93	5,5	1	919992	312 000 055	2,94
6,00	57	93	6	1	920004	312 000 060	3,36
6,50	63	101	6,5	1	920011	312 000 065	3,78
7,00	69	109	7	1	920028	312 000 070	4,62
7,50	69	109	7,5	1	920035	312 000 075	5,04
8,00	75	117	8	1	920042	312 000 080	5,46
8,50	75	117	8,5	1	920059	312 000 085	5,89
9,00	81	125	9	1	920066	312 000 090	7,15
9,50	81	125	9,5	1	920073	312 000 095	7,57
10,00	87	133	10	1	920080	312 000 100	8,42
10,50	87	133	10,5	1	920097	312 000 105	10,10
11,00	94	142	11	1	920103	312 000 110	12,62
11,50	94	142	11,5	1	920110	312 000 115	13,47
12,00	101	151	12	1	920127	312 000 120	14,31
12,50	101	151	12,5	1	920134	312 000 125	15,15
13,00	101	151	13	1	920141	312 000 130	15,96

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



DRIVE



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

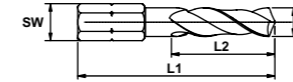
- In all rotary and percussion drilling machines
- In machines for mechanical processing
- Only for rotary use

PACKAGING



D Ø mm	L2 mm	L1 mm		EAN 4016707		€
3,00	10	46	10	100017	304 000 300	0,66
3,10	10	46	10	100024	304 000 310	0,74
3,20	10	49	10	100031	304 000 320	0,74
3,30	10	49	10	100048	304 000 330	0,74
3,50	13	52	10	100062	304 000 350	0,74
4,00	13	55	10	100086	304 000 400	0,85
4,10	13	55	10	100093	304 000 410	1,07
4,20	13	55	10	100109	304 000 420	1,07
4,50	16	58	10	100123	304 000 450	1,08
4,80	16	58	10	100130	304 000 480	1,24
5,00	16	62	10	100147	304 000 500	1,24
5,10	16	62	10	100154	304 000 510	1,57
5,20	16	62	10	100161	304 000 520	1,57

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

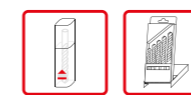
FOR USE IN



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



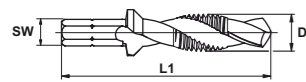
[154]

D Ø mm	L2 mm	L1 mm	SW mm		EAN 4016707		€
2,00	30	50	6,35	1	105074	315 000 200	3,09
2,50	30	50	6,35	1	105081	315 000 250	3,09
3,00	30	50	6,35	1	105005	315 000 300	2,55
3,30	30	50	6,35	1	105098	315 000 330	2,55
3,50	30	50	6,35	1	105104	315 000 350	2,55
4,00	30	50	6,35	1	105012	315 000 400	2,55
4,20	30	50	6,35	1	105111	315 000 420	2,55
4,50	30	50	6,35	1	105128	315 000 450	2,55
5,00	30	50	6,35	1	105029	315 000 500	2,55
5,50	30	50	6,35	1	105135	315 000 550	2,55
6,00	30	50	6,35	1	105036	315 000 600	2,55
6,50	30	50	6,35	1	105142	315 000 650	4,32
6,80	35	55	6,35	1	105159	315 000 680	4,32
7,00	35	55	6,35	1	105166	315 000 700	4,32
7,50	35	55	6,35	1	105173	315 000 750	4,32
8,00	35	55	6,35	1	105043	315 000 800	4,32
8,50	35	55	6,35	1	105180	315 000 850	5,25
9,00	35	55	6,35	1	105197	315 000 900	5,25
9,50	35	55	6,35	1	105203	315 000 950	5,25
10,00	35	55	6,35	1	105050	315 001 000	5,25
10,20	35	55	6,35	1	105210	315 001 020	6,59

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 Ø mm	L1 mm	SW mm	M	1	EAN 4016707	12345	€
2,50	36	6,35	3	1	150319	317 000 030	10,96
3,30	39	6,35	4	1	150326	317 000 040	10,96
4,20	41	6,35	5	1	150333	317 000 050	10,96
5,00	44	6,35	6	1	150340	317 000 060	10,96
6,80	50	6,35	8	1	150357	317 000 080	14,18
8,50	59	6,35	10	1	150364	317 000 100	15,68

EXECUTION

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

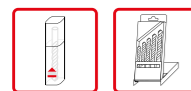
FOR USE IN



APPLICATION

- Up to max. 600 N/mm²
- 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

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

HSS COMBINATION TOOL KEILBIT

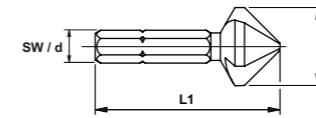
In one step:

- 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

HSS COUNTERSINK 90° KEILBIT | 329



DRIVE

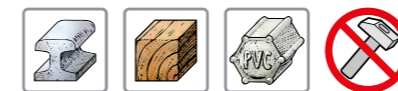


D Ø mm	L1 mm	SW mm	d Ø mm	M	1	EAN 4016707	12345	€
6,30	31	6,35	6,3	3	1	150388	329 000 063	5,61
8,30	31	6,35	6,3	4	1	150395	329 000 083	6,43
10,40	34	6,35	6,3	5	1	150401	329 000 104	6,84
12,40	35	6,35	6,3	6	1	150418	329 000 124	9,74
16,50	40	6,35	6,3	8	1	150425	329 000 165	14,28
20,50	41	6,35	6,3	10	1	150432	329 000 205	17,77

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

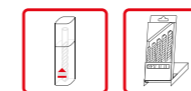


- Deburring and drilling of uniformly circular counter sink holes with a smooth surface
- Suitable for almost all materials
- The best results are obtained at low speeds and a high feedrate

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

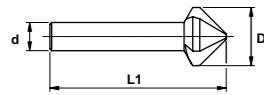


[154]

Comments

- Individual packaging with hanger

HSS COUNTERSINK 90° DIN 335 C | 327



DRIVE



D Ø mm	L1 mm	d Ø mm	M		EAN 4016707	12345	€
6,30	45	5,0	3	1	150142	327 000 063	7,30
8,30	50	6,0	4	1	150159	327 000 083	8,57
10,40	50	6,0	5	1	150166	327 000 104	9,90
12,40	56	8,0	6	1	150173	327 000 124	13,33
16,50	60	10,0	8	1	150180	327 000 165	19,26
20,50	63	10,0	10	1	150197	327 000 205	23,85
25,00	67	10,0	12	1	150203	327 000 250	31,51

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

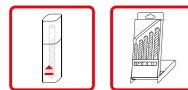


- Deburring and drilling of uniformly circular counter sink holes with a smooth surface
- Suitable for almost all materials
- The best results are obtained at low speeds and a high feedrate

APPLICATION

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

PACKAGING

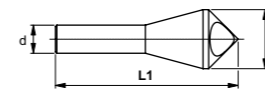


[154]

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 Ø mm	L1 mm	d Ø mm		EAN 4016707	12345	€
2,0 - 5,0	45	6,0	1	150227	328 020 050	9,44
5,0 - 10,0	48	8,0	1	150234	328 050 100	11,94
10,0 - 15,0	65	10,0	1	150241	328 100 150	20,79
15,0 - 20,0	84	12,0	1	150258	328 150 200	33,68
20,0 - 25,0	102	12,0	1	150265	328 200 250	40,09

EXECUTION

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

FOR USE IN

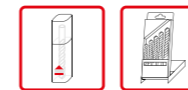


- Easy deburring of holes without vibration
- One step countersinking and deburring
- Suitable for soft long-chipping materials

APPLICATION

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

PACKAGING

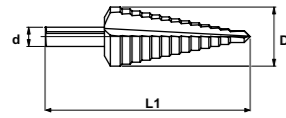


[154]

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 ø mm	L1 mm	d ø mm	Icon	EAN 4016707	12345	€
1	3,0 - 14,0	58	6,0	1	150067	326 030 140	16,42
2	4,0 - 20,0	71	8,0	1	150074	326 060 200	24,15
3	16,0 - 30,5	76	9,0	1	150081	326 160 305	41,90
4	24,0 - 40,0	89	10,0	1	150098	326 240 400	93,66
5	36,0 - 50,0	97	12,0	1	150104	326 360 500	147,16
6	40,0 - 61,0	103	12,0	1	150111	326 400 610	272,74
L	4,0 - 31,0	103	9,0	1	150128	326 040 310	52,24

FOR USE IN

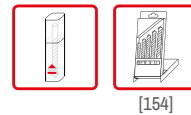


- For drilling large holes in thin material and rebor-ing existing holes
- Steel sheet and stainless steel from 0.1 to 2 mm thick
- Non-ferrous metals from 0.1 to 5 mm thick
- Plastic up to 10 mm thick

APPLICATION

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

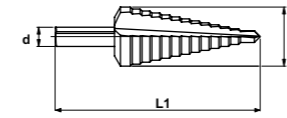
PACKAGING



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

No	D ø mm	L1 mm	d ø mm	Icon	EAN 4016707	12345	€
1	4,0 - 12,0	1	80	1	150012	325 040 120	36,71
2	4,0 - 20,0	2	67	1	150029	325 040 200	47,92
3	6,0 - 30,0	2	98	1	150036	325 060 300	80,89
4	9,0 - 36,0	3	80	1	150043	325 090 360	115,43
EC 10	7,0 - 32,5		96	1	150005	325 070 325	125,42

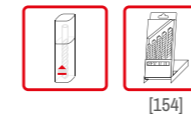
FOR USE IN



APPLICATION

- For drilling large holes in thin material and rebor-ing 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



Bemerkung

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

HSS STEP DRILL

- Straight flute
- Cylindrical drilling

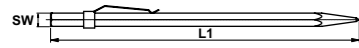
For electricians:

- 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	Icon
		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	6mm
Through-hole	ø 7	12,5	16,5	20,5	25,5	32,5	3mm

SCRIBER | 140



EXECUTION

- With carbide tip
- Chromated surface

140	6,00	10	010101	140 140 060	2,90

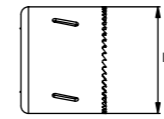
FOR USE IN



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

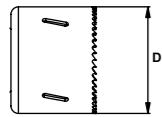
D Ø mm	D "	1 2/min	2 2/min	3 2/min	4 2/min	5 2/min		EAN 4016707...		€
14,0	9/16	580	400	300	790	900	1	110016	320 000 014	4,19
16,0	5/8	550	365	275	730	825	1	110023	320 000 016	4,35
17,0	11/16	500	330	250	665	750	1	110030	320 000 017	4,51
19,0	3/4	460	300	230	600	690	1	110047	320 000 019	4,67
20,0	25/32	440	290	220	580	660	1	110054	320 000 020	4,84
21,0	13/16	425	280	210	560	635	1	110061	320 000 021	5,00
22,0	7/8	390	260	195	520	585	1	110078	320 000 022	5,16
24,0	15/16	370	245	185	495	555	1	110085	320 000 024	5,48
25,0	1	350	235	175	470	525	1	110092	320 000 025	5,73
27,0	1 1/16	325	215	160	435	480	1	110108	320 000 027	6,06
29,0	1 1/8	300	200	150	400	450	1	110115	320 000 029	6,38
30,0	1 3/16	285	190	145	380	425	1	110122	320 000 030	6,63
32,0	1 1/4	275	180	140	380	410	1	110139	320 000 032	7,12
33,0	1 5/16	260	175	135	345	390	1	110146	320 000 033	7,28
35,0	1 3/8	250	165	125	330	375	1	110153	320 000 035	7,44
37,0	1 7/16	240	160	120	315	360	1	110160	320 000 037	7,84
38,0	1 1/2	230	150	115	300	345	1	110177	320 000 038	8,00
40,0	1 9/16	220	145	110	290	330	1	110184	320 000 040	8,09
41,0	1 5/8	210	140	105	280	315	1	110191	320 000 041	8,25
43,0	1 11/16	205	135	100	270	305	1	110207	320 000 043	8,49
44,0	1 3/4	195	130	95	260	295	1	110214	320 000 044	8,65
45,0	1 25/32	190	125	95	250	285	1	110719	320 000 045	8,82
46,0	1 13/16	190	125	95	250	285	1	110221	320 000 046	8,98
48,0	1 7/8	180	120	90	240	270	1	110238	320 000 048	9,30
50,0	1 31/32	170	115	85	230	255	1	110726	320 000 050	9,64
51,0	2	170	115	85	230	255	1	110245	320 000 051	9,80
52,0	2 1/16	165	110	80	220	245	1	110252	320 000 052	9,96
54,0	2 1/8	160	105	80	210	240	1	110269	320 000 054	10,29
55,0	2 3/16	150	100	75	200	225	1	110733	320 000 055	10,36
57,0	2 1/4	150	100	75	200	225	1	110276	320 000 057	10,77
59,0	2 5/16	145	100	75	195	225	1	110283	320 000 059	11,10
60,0	2 3/8	140	95	70	190	220	1	110290	320 000 060	11,34
64,0	2 1/2	135	90	65	180	205	1	110306	320 000 064	11,99
65,0	2 9/16	130	85	65	175	200	1	110313	320 000 065	12,15
67,0	2 5/8	130	85	65	170	195	1	110320	320 000 067	12,47
68,0	2 11/16	125	80	60	160	185	1	110337	320 000 068	12,72
70,0	2 3/4	125	80	60	160	185	1	110344	320 000 070	12,96
73,0	2 7/8	120	80	60	160	180	1	110351	320 000 073	13,37
75,0	2 31/32	115	75	55	150	170	1	110740	320 000 075	13,86
76,0	3	115	75	55	150	170	1	110368	320 000 076	14,02
79,0	3 1/8	110	70	55	140	165	1	110375	320 000 079	14,43
83,0	3 1/4	105	70	50	140	155	1	110382	320 000 083	15,89
86,0	3 3/8	100	65	50	130	150	1	110399	320 000 086	17,51
89,0	3 1/2	95	65	50	130	145	1	110405	320 000 089	18,25
92,0	3 5/8	95	60	60	120	140	1	110412	320 000 092	19,09
95,0	3 3/4	90	60	60	120	133	1	110429	320 000 095	19,74



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

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

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

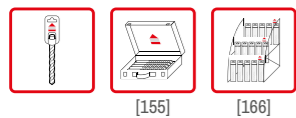


- For iron, steel, nonferrous heavy metal, light alloy, cast iron, plastics, wood, plywood, plaster board

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	20,55
102,0	4	85	55	40	110	130	1	110443	320 000 102	21,53
105,0	4 1/8	80	55	40	110	120	1	110450	320 000 105	22,26
108,0	4 1/4	80	55	40	110	120	1	110467	320 000 108	23,04
111,0	4 3/8	80	50	40	100	120	1	110474	320 000 111	23,88
114,0	4 1/2	75	50	35	100	105	1	110481	320 000 114	24,69
121,0	4 3/4	75	50	35	95	95	1	110498	320 000 121	26,57
127,0	5	65	45	30	90	90	1	110504	320 000 127	28,16
140,0	5 1/2	60	40	25	85	85	1	110511	320 000 140	31,68
146,0	5 3/4	55	35	25	75	75	1	110528	320 000 146	33,47
152,0	6	55	35	25	75	75	1	110535	320 000 152	35,18

LOCATING SHANK FOR BI-METAL HOLE SAW



No	SW	d	Icon	EAN	12345	€
1	6,3	LS 14-30	1	110580	320 300 006	5,25
2	9,50	LS 14-30	1	110597	320 300 095	5,77
3	11,00	LS 14-30	1	110603	320 300 011	5,85
SDS-plus 4		LS 14-30	1	110696	320 255 001	7,28
5	9,50	LS 32-152	1	110627	320 400 095	10,72
6	11,00	LS 32-152	1	110610	320 301 011	8,39
7	11,00	LS 32-152	1	110634	320 400 011	11,26
8	16,00	LS 32-152	1	110641	320 400 016	14,59
SDS-plus 9		LS 32-152	1	110702	320 255 002	15,73

CENTRE DRILL BIT FOR BI-METAL HOLE SAW



L1	d	Icon	EAN	12345	€	
75	6,3	Chuck 2•3•4•5•6•7•9	1	110658	320 100 080	2,60
105	6,3	Chuck 1•8	1	110665	320 100 115	2,60

LOCATING SHANK FOR BI-METAL HOLE SAW



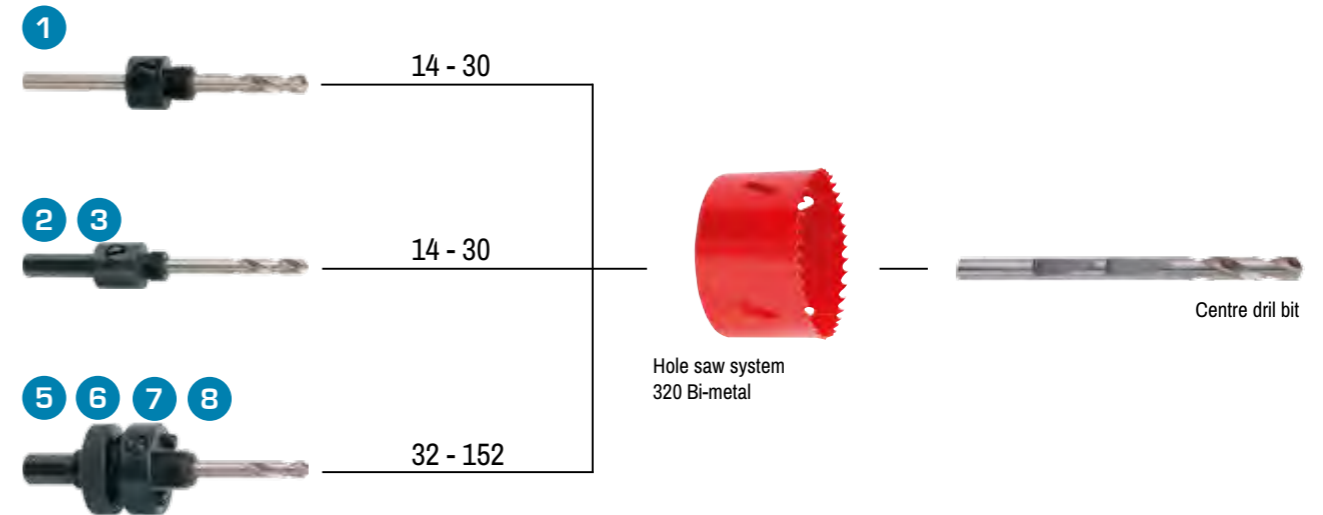
L1	SW	Icon	EAN	12345	€	
300	11,00	Chuck 3•6•7	1	110689	320 500 100	8,09

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 x ϕ).



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 x ϕ). This also ensures that the flutes can clear out the chips.

CORRECT RE-GRINDING:

- 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.

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

M	D ϕ 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

TECHNICAL INFORMATION HSS DRILL BITS

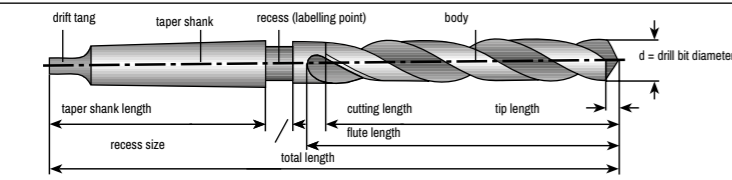
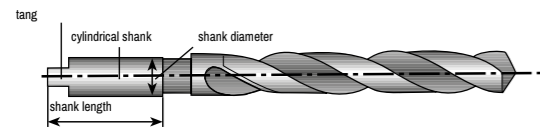
INCH FRACTION	INCH DECIMAL	MM METRIC	INCH FRACTION	INCH DECIMAL	MM METRIC	INCH FRACTION	INCH DECIMAL	MM METRIC
1/64"	0,015625"	0,397	49/64"	0,765625"	19,447	1 33/64"	1,515625"	38,497
1/32"	0,03125"	0,794	25/32"	0,78125"	19,844	1 17/32"	1,53125"	38,894
3/64"	0,046875"	1,191	51/64"	0,796875"	20,241	1 35/64"	1,546875"	39,291
1/16"	0,0625"	1,588	13/16"	0,8125"	20,638	1 9/16"	1,5625"	39,688
5/64"	0,078125"	1,984	53/64"	0,828125"	21,034	1 37/64"	1,578125"	40,084
3/32"	0,09375"	2,381	27/32"	0,84375"	21,431	1 19/32"	1,59375"	40,481
7/64"	0,109375"	2,778	55/64"	0,859375"	21,828	1 39/64"	1,609375"	40,878
1/8"	0,125"	3,175	7/8"	0,875"	22,225	1 5/8"	1,625"	41,275
9/64"	0,140625"	3,572	57/64"	0,890625"	22,622	1 41/64"	1,640625"	41,672
5/32"	0,15625"	3,969	29/32"	0,90625"	23,019	1 21/32"	1,65625"	42,069
11/64"	0,171875"	4,366	59/64"	0,921875"	23,416	1 43/64"	1,671875"	42,466
3/16"	0,1875"	4,763	15/16"	0,9375"	23,813	1 11/16"	1,6875"	42,863
13/64"	0,203125"	5,159	61/64"	0,953125"	24,209	1 45/64"	1,703125"	43,259
7/32"	0,21875"	5,556	31/32"	0,96875"	24,606	1 23/32"	1,71875"	43,656
15/64"	0,234375"	5,953	63/64"	0,984375"	25,003	1 47/64"	1,734375"	44,053
1/4"	0,25"	6,350	1"	1"	25,400	1 3/4"	1,75"	44,450
17/64"	0,265625"	6,747	1 1/64"	1,015625"	25,797	1 49/64"	1,765625"	44,847
9/32"	0,28125"	7,144	1 1/32"	1,03125"	26,194	1 25/32"	1,78125"	45,244
19/64"	0,296875"	7,541	1 3/64"	1,046875"	26,591	1 51/64"	1,796875"	45,641
5/16"	0,3125"	7,938	1 1/16"	1,0625"	26,988	1 13/16"	1,8125"	46,038
21/64"	0,328125"	8,334	1 5/64"	1,078125"	27,384	1 53/64"	1,828125"	46,434
11/32"	0,34375"	8,731	1 3/32"	1,09375"	27,781	1 27/32"	1,84375"	46,831
23/64"	0,359375"	9,128	1 7/64"	1,109375"	28,178	1 55/64"	1,859375"	47,228
3/8"	0,375"	9,525	1 1/8"	1,125"	28,575	1 7/8"	1,875"	47,625
25/64"	0,390625"	9,922	1 9/64"	1,140625"	28,972	1 57/64"	1,890625"	48,022
13/32"	0,40625"	10,319	1 5/32"	1,15625"	29,369	1 29/32"	1,90625"	48,419
27/64"	0,421875"	10,716	1 11/64"	1,171875"	29,766	1 59/64"	1,921875"	48,816
7/16"	0,4375"	11,113	1 3/16"	1,1875"	30,163	1 15/16"	1,9375"	49,213
29/64"	0,453125"	11,509	1 13/64"	1,203125"	30,559	1 61/64"	1,953125"	49,609
15/32"	0,46875"	11,906	1 7/32"	1,21875"	30,956	1 31/32"	1,96875"	50,006
31/64"	0,484375"	12,303	1 15/64"	1,234375"	31,353	1 63/64"	1,984375"	50,403
1/2"	0,5"	12,700	1 1/4"	1,25"	31,750	2"	2"	50,800
33/64"	0,515625"	13,097	1 17/64"	1,265625"	32,147			
17/32"	0,53125"	13,494	1 9/32"	1,28125"	32,544			
35/64"	0,546875"	13,891	1 19/64"	1,296875"	32,941			
9/16"	0,5625"	14,288	1 5/16"	1,3125"	33,338			
37/64"	0,578125"	14,684	1 21/64"	1,328125"	33,734			
19/32"	0,59375"	15,081	1 11/32"	1,34375"	34,131			
39/64"	0,609375"	15,478	1 23/64"	1,359375"	34,528			
5/8"	0,625"	15,875	1 3/8"	1,375"	34,925			
41/64"	0,640625"	16,272	1 25/64"	1,390625"	35,322			
21/32"	0,65625"	16,669	1 12/32"	1,40625"	35,719			
43/64"	0,671875"	17,066	1 27/64"	1,421875"	36,116			
11/16"	0,6875"	17,463	1 7/16"	1,4375"	36,513			
45/64"	0,703125"	17,859	1 29/64"	1,453125"	36,909			
23/32"	0,71875"	18,256	1 15/32"	1,46875"	37,306			
47/64"	0,734375"	18,653	1 31/64"	1,484375"	37,703			
3/4"	0,75"	19,050	1 1/2"	1,5"	38,100			



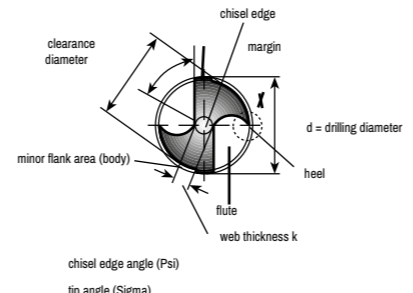
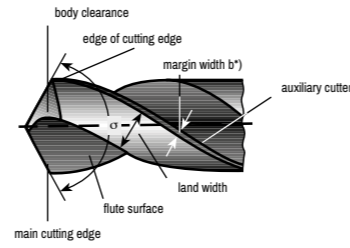
TECHNICAL INFORMATION METAL DRILL BITS

OVERVIEW OF 1/4" HEXAGONAL SHAFT TOOLS

Twist drill bits with cylindrical shank/taper shank

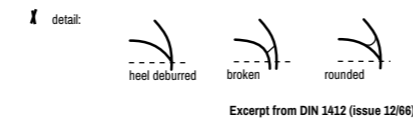
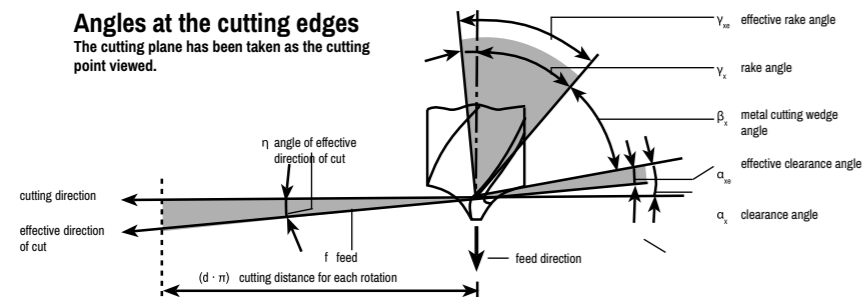


body



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 ²	N	HSS	118°	Emulsion	30 - 50	5.600 0,05	2.250 0,12	1.400 0,20	930 0,25	700 0,30	450 0,40	280 0,50	180 0,50	160	
Unalloyed mild steel up to 50 kgf/mm ²	N	HSS	118°	Emulsion	30 - 40	5.600 0,05	2.250 0,12	1.400 0,20	930 0,25	700 0,30	450 0,40	280 0,40	180 0,50	140 0,60	
Unalloyed mild steel 50 - 70 kgf/mm ²	N	HSS	118°	Emulsion	25 - 35	4.750 0,05	1.900 0,12	1.200 0,20	800 0,25	600 0,30	400 0,40	240 0,40	180 0,50	120 0,60	
Unalloyed mild steel 70 - 90 kgf/mm ²	N	HSS	118°	Emulsion	10 - 15	2.100 0,07	860 0,10	540 0,16	360 0,20	270 0,25	170 0,32	110 0,40	68 0,50	50	
Unalloyed mild steel up to 70 kgf/mm ²	N	HSS	118°	Emulsion	20 - 30	3.980 0,03	1.580 0,07	995 0,10	665 0,16	495 0,20	320 0,25	200 0,32	125 0,40	100 0,50	
Alloyed cast steel	N	HSS	118°	Emulsion (oil)	10 - 20	2.380 0,02	950 0,05	595 0,08	400 0,12	300 0,14	190 0,18	120 0,23	75 0,27	60 0,32	
Alloyed steel 70 - 90 kgf/mm ²	N	HSS	118°	Emulsion	10 - 15	2.100 0,02	860 0,05	540 0,08	360 0,12	270 0,14	170 0,18	110 0,23	68 0,27	50 0,32	
Alloyed Cr-Ni steel 90 - 110 kgf/mm ²	N	HSS	118°	Emulsion (oil)	8 - 12	1.590 0,02	635 0,05	400 0,08	265 0,12	200 0,14	125 0,18	80 0,23	50 0,27	40 0,32	
Cast iron up to 200 HB	N	HSS	118°	Dry Comp. air	15 - 25	3.185 0,05	1.265 0,12	795 0,20	530 0,25	400 0,30	255 0,40	160 0,40	100 0,50	80 0,60	
Cast iron up to 350 HB (white iron)	N	HSS	118°	Dry Comp. air	5 - 15	1.590 0,03	635 0,07	400 0,10	265 0,16	200 0,20	165 0,25	80 0,32	50 0,40	40 0,50	
Nickel Monell metal	N	HSS	118°	Emulsion (oil)	10 - 15	2.100 0,02	860 0,05	540 0,08	360 0,12	270 0,14	170 0,18	110 0,23	68 0,27	50 0,32	
Gunmetal, bronze (soft)	N	HSS	118°	Emulsion (oil)	20 - 40	4.745 0,05	1.900 0,08	1.193 0,14	795 0,20	595 0,25	380 0,30	240 0,40	150 0,50	120 0,60	
Alu bronze (semi-hard, hard)	N	HSS	118°	Emulsion (oil)	15 - 35	3.980 0,05	1.585 0,08	995 0,14	665 0,20	495 0,25	320 0,30	200 0,40	125 0,50	100 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.



PERCUSSION DRILL

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

METAL DRILL BITS

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

WOOD DRILL BITS

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



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

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

WOOD DRILL BITS

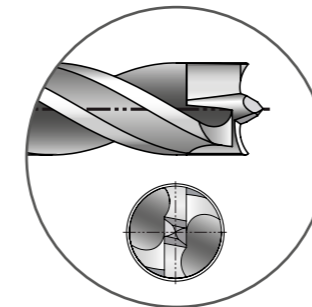
WOOD WORKING WITH PROFESSIONAL TOOLS



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

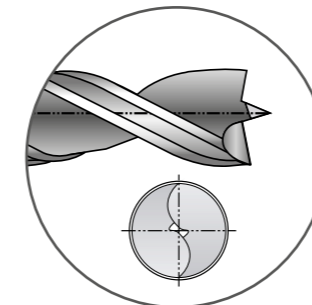
WOOD DRILL BITS

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



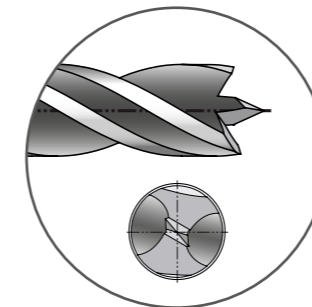
WOOD TWIST DRILL BIT TURBOWOOD

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.



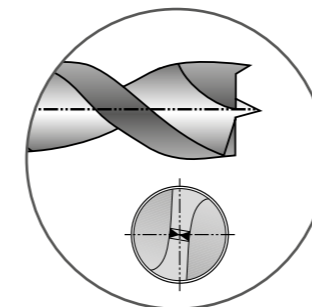
WOOD TWIST DRILL BIT

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.



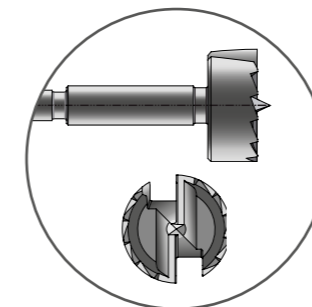
HSS WOOD TWIST DRILL BIT

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.



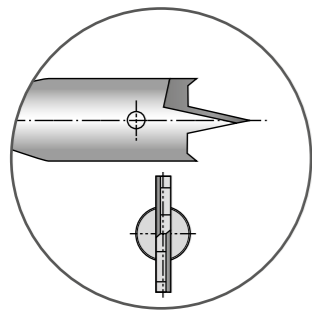
MACHINE FORSTNER DRILL BIT

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.



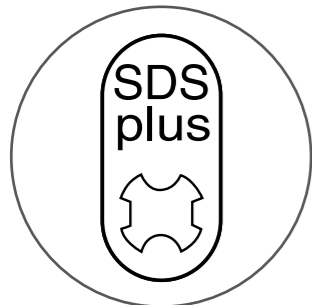
HAMMER DRILL BITS
CHISEL
STONE AND SPECIAL DRILL BITS
METAL DRILL BITS
WOOD DRILL BITS
SAWS
ASSORTMENTS
MODULES - SHELVES

HAMMER DRILL BITS
CHISEL
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WOOD DRILL BITS
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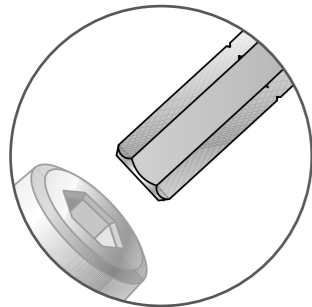
FLAT BITS

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.



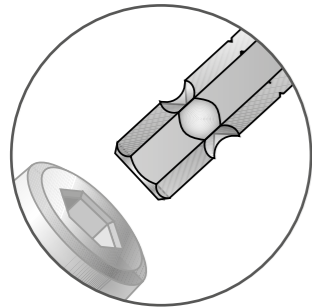
SDS-PLUS LOCKING

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



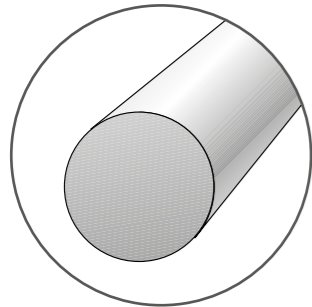
KEILBIT (C 6.3 MM)

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



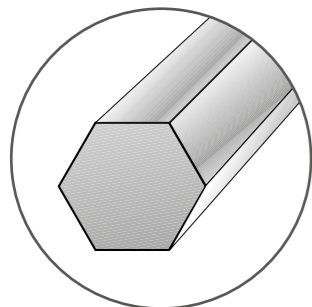
KEILBIT (E 6.3 MM)

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

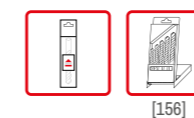


- Especially suitable for hardwood
- Recommended speed of 1400 to 3500 rpm, depending on material and hole diameter

APPLICATION

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

PACKAGING



D ø mm	L2 mm	L1 mm	Icon	EAN 4016707	12345	€
4,0	40	75	20	026010	184 000 040	13,79
5,0	40	86	20	026027	184 000 050	14,17
6,0	45	93	20	026034	184 000 060	14,75
8,0	63	117	20	026041	184 000 080	17,20
10,0	61	120	20	026058	184 000 100	18,34
12,0	100	151	10	905018	184 000 120	25,31

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 guaranties energy-efficient working also when working with cordless tools.



LONG SERVICE LIFE:

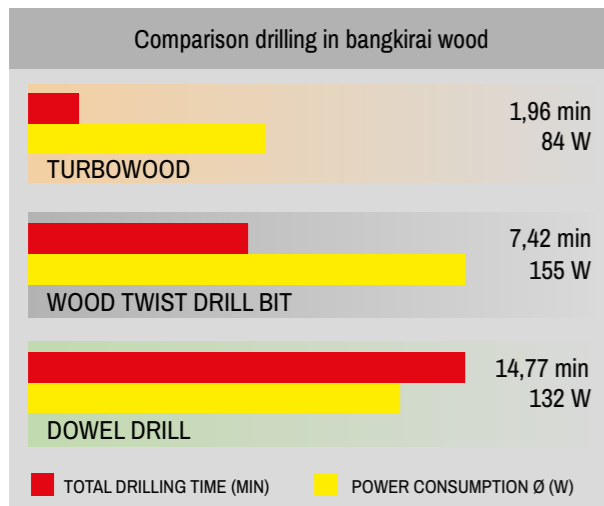
- The TURBOWOOD has a tip with a completely milled and sintered carbide plate. The tip had its geometry already before being inserted into the drill bit. It therefore guarantees long durability.
- The carbide plate is sharpened by a precise diamond grinding. A high and constant quality of the tip geometry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

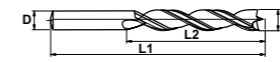
NOTICEABLE SUCCESS:



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

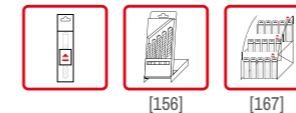
FOR USE IN



APPLICATION

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

PACKAGING



Comments

- Other dimensions on request

D Ø mm	L2 mm	L1 mm	d Ø mm	Icon	EAN 4016707...	Part No.	Price
3,0	33	61	3,0	20	020018	180 000 030	0,88
4,0	43	75	4,0	20	020025	180 000 040	0,88
5,0	52	86	5,0	20	020032	180 000 050	0,96
6,0	57	93	6,0	20	020049	180 000 060	1,01
6,0	190	250	6,0	1	029011	280 060 250	3,07
7,0	69	109	7,0	20	020056	180 000 070	1,05
8,0	75	117	8,0	20	020063	180 000 080	1,33
8,0	190	250	8,0	1	029028	280 080 250	3,68
9,0	80	120	9,0	20	020070	180 000 090	1,56
10,0	87	120	10,0	20	020087	180 000 100	1,68
10,0	190	250	10,0	1	029035	280 100 250	4,41
11,0	89	142	8,0	10	020094	180 000 110	2,49
12,0	96	151	8,0	10	020100	180 000 120	2,49
12,0	190	250	10,0	1	029042	280 120 250	5,64
13,0	96	151	8,0	10	020117	180 000 130	3,06
14,0	96	151	10,0	10	020124	180 000 140	3,53
14,0	190	250	10,0	1	029059	280 140 250	7,51
15,0	100	160	10,0	10	020131	180 000 150	4,90
16,0	100	160	10,0	10	020148	180 000 160	5,39
16,0	190	250	10,0	1	029066	280 160 250	9,00
18,0	130	180	10,0	5	020155	180 000 180	9,89
18,0	190	250	10,0	1	029073	280 180 250	10,13
20,0	140	200	10,0	5	020162	180 000 200	12,28
20,0	190	250	10,0	1	029080	280 200 250	10,81
22,0	140	205	13,0	5	020179	180 000 220	14,58
24,0	140	215	13,0	5	020186	180 000 240	16,20
26,0	145	215	13,0	5	020193	180 000 260	17,19
28,0	145	220	13,0	4	020209	180 000 280	18,18
30,0	145	220	13,0	4	020216	180 000 300	18,81

WOOD TWIST DRILL BIT

PRODUCT INFORMATION:

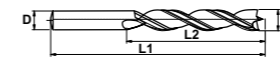


Recommended speed for KEIL wood twist drill bits 180

D Ø mm	/min	/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 Ø mm	L2 mm	L1 mm	d Ø mm		EAN 4016707...		€
4,0	43	75	4,0	20	027017	186 000 040	3,48
5,0	52	86	5,0	20	027024	186 000 050	4,63
6,0	57	93	6,0	20	027031	186 000 060	5,01
7,0	69	109	7,0	20	027048	186 000 070	5,85
8,0	75	117	8,0	20	027055	186 000 080	6,32
10,0	87	133	10,0	20	027079	186 000 100	9,23
12,0	96	151	8,0	10	027093	186 000 120	13,44

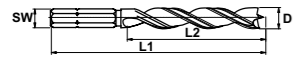
HSS WOOD TWIST DRILL BIT

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



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



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

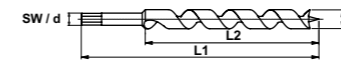


D Ø mm	L1 mm	SW mm	PK	EAN 4016707	12345	€
3,0	40	6,35	20	028014	187 000 030	3,88
4,0	40	6,35	20	028021	187 000 040	3,59
5,0	50	6,35	20	028038	187 000 050	3,34
6,0	60	6,35	20	028045	187 000 060	3,20
8,0	70	6,35	20	028052	187 000 080	3,40
10,0	80	6,35	20	028069	187 000 100	3,68

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.

AUGER BIT LEWIS SHAPE | 181



DRIVE



EXECUTION

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

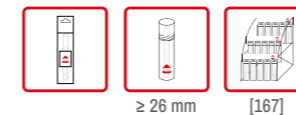
FOR USE IN



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 Ø mm	D Ø "	L2 mm	L1 mm	SW mm	d Ø mm	PK	EAN 4016707	12345	€
6,0	15/64	150	235		6,0	1	031403	181 060 250	6,55
8,0	5/16	150	235	7,00		1	031410	181 080 250	7,10
8,0	5/16	380	460	7,00		1	031151	181 080 450	13,03
10,0	3/8	150	235	9,00		1	031427	181 100 250	7,19
10,0	3/8	380	460	9,00		1	031168	181 100 450	13,03
10,0	3/8	530	600	9,00		1	031281	181 100 600	21,15
12,0	15/32	150	235	11,00		1	031434	181 120 250	8,34
12,0	15/32	380	460	11,00		1	031175	181 120 450	13,84
12,0	15/32	530	600	11,00		1	031298	181 120 600	21,91
14,0	9/16	150	235	12,00		1	031441	181 140 250	8,75
14,0	9/16	380	460	12,00		1	031182	181 140 450	15,29
14,0	9/16	530	600	12,00		1	031304	181 140 600	24,16
16,0	5/8	150	235	12,00		1	031458	181 160 250	9,40
16,0	5/8	380	460	12,00		1	031199	181 160 450	16,50
16,0	5/8	530	600	12,00		1	031311	181 160 600	27,52
18,0	11/16	150	235	12,00		1	031465	181 180 250	10,91
18,0	11/16	380	460	12,00		1	031205	181 180 450	18,45
18,0	11/16	530	600	12,00		1	031328	181 180 600	29,43
20,0	3/4	150	235	12,00		1	031472	181 200 250	11,46
20,0	3/4	380	460	12,00		1	031212	181 200 450	20,01
20,0	3/4	530	600	12,00		1	031335	181 200 600	31,29
22,0	7/8	150	235	12,00		1	031489	181 220 250	12,56
22,0	7/8	380	460	12,00		1	031229	181 220 450	21,77
22,0	7/8	530	600	12,00		1	031342	181 220 600	34,44
24,0	15/16	150	235	12,00		1	031496	181 240 250	13,86
24,0	15/16	380	460	12,00		1	031236	181 240 450	24,28
24,0	15/16	530	600	12,00		1	031359	181 240 600	37,60
26,0	1 1/32	150	235	12,00		1	031502	181 260 250	18,66
26,0	1 1/32	380	460	12,00		1	031243	181 260 450	31,19
28,0	1 1/8	150	235	12,00		1	031519	181 280 250	20,77
28,0	1 1/8	380	460	12,00		1	031250	181 280 450	35,35
30,0	1 3/16	150	235	12,00		1	031526	181 300 250	23,33
30,0	1 3/16	380	460	12,00		1	031267	181 300 450	40,68
32,0	1 1/4	150	235	12,00		1	031533	181 320 250	25,52
32,0	1 1/4	380	460	12,00		1	031274	181 320 450	48,81

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



DRIVE



D Ø mm	D Ø "	L2 mm	L1 mm		EAN 4016707		€
8,0	5/16	100	200	1	918810	182 080 200	9,62
10,0	3/8	160	235	1	918827	182 100 235	10,49
12,0	15/32	160	235	1	918834	182 120 235	11,00
16,0	5/8	160	235	1	918841	182 160 235	12,51
20,0	3/4	160	235	1	918858	182 200 235	14,66
22,0	7/8	160	235	1	918865	182 220 235	15,94
25,0	1	160	235	1	918872	182 250 235	21,38

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 Ø mm	L1 mm	d Ø mm		EAN 4016707		€
15,0	90	8,0	1	033223	183 000 150	8,58
18,0	90	8,0	1	033230	183 000 180	8,74
20,0	90	8,0	1	033247	183 000 200	9,42
22,0	90	8,0	1	033254	183 000 220	9,58
24,0	90	8,0	1	033261	183 000 240	10,05
25,0	90	8,0	1	033278	183 000 250	10,18
26,0	90	8,0	1	033285	183 000 260	10,21
28,0	90	8,0	1	033292	183 000 280	10,40
30,0	90	8,0	1	033308	183 000 300	10,47
35,0	90	10,0	1	033315	183 000 350	10,77
40,0	90	10,0	1	033322	183 000 400	11,60
45,0	90	10,0	1	033339	183 000 450	13,36

EXECUTION

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

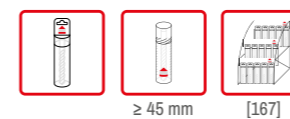
FOR USE IN



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

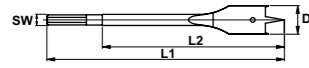


MACHINE FORSTNER DRILL BITS, TOOTHED

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



FLAT BIT KEILBIT | 185



DRIVE



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

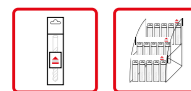


- For drilling in soft wood, beams and chip board

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



[188]

D Ø mm	L2 mm	L1 mm	SW mm	12345	EAN 4016707	185 060 150	€
6,0	100	152	6,35	1	025013	185 060 150	1,38
8,0	100	152	6,35	1	025020	185 080 150	1,38
10,0	100	152	6,35	1	025037	185 100 150	1,37
12,0	100	152	6,35	1	025044	185 120 150	1,44
13,0	100	152	6,35	1	025051	185 130 150	1,52
14,0	100	152	6,35	1	025068	185 140 150	1,52
16,0	100	152	6,35	1	025075	185 160 150	1,74
18,0	100	152	6,35	1	025082	185 180 150	1,87
20,0	100	152	6,35	1	025099	185 200 150	1,97
22,0	100	152	6,35	1	025105	185 220 160	2,27
24,0	100	152	6,35	1	025112	185 240 160	2,39
25,0	100	152	6,35	1	025129	185 250 160	2,48
28,0	100	152	6,35	1	025136	185 280 160	2,72
30,0	100	152	6,35	1	025143	185 300 160	2,90
32,0	100	152	6,35	1	025150	185 320 160	3,31
35,0	100	152	6,35	1	025167	185 350 160	3,62
38,0	100	152	6,35	1	025174	185 380 160	3,79
40,0	100	152	6,35	1	025181	185 400 160	3,81

EXTENSION FOR FLAT BIT KEILBIT | 185



DRIVE



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

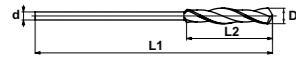
- In all rotary and percussion drilling machines
- In machines for mechanical processing
- In all drilling machines, cordless screw drivers and bit holders with 1/4" drill shank

PACKAGING



L1 mm	SW mm	12345	EAN 4016707	185 000 001	€
300	6,35	1	025198	185 000 001	5,23

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

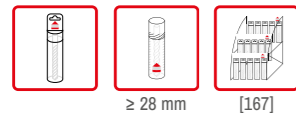
FOR USE IN



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

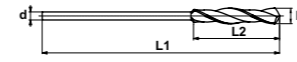


Comments

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

D Ø mm	D Ø 3/8	L2 mm	L1 mm	d Ø mm		EAN 4016707	12345	€
6,0	1/4	100	400	6,0	1	030130	350 060 400	7,54
6,0	1/4	100	600	6,0	1	030000	350 060 600	7,83
8,0	5/16	100	400	8,0	1	030017	350 080 400	7,76
8,0	5/16	100	600	8,0	1	030208	350 080 600	7,97
8,0	5/16	100	800	8,0	1	030710	350 080 800	8,92
10,0	3/8	100	400	8,0	1	030024	350 100 400	8,62
10,0	3/8	100	600	8,0	1	030215	350 100 600	9,06
10,0	3/8	100	800	8,0	1	030727	350 100 800	10,18
12,0	15/32	100	400	10,0	1	030031	350 120 400	10,38
12,0	15/32	100	600	10,0	1	030222	350 120 600	10,83
12,0	15/32	100	800	10,0	1	030734	350 120 800	12,03
14,0	9/16	100	400	10,0	1	030048	350 140 400	11,92
14,0	9/16	100	600	10,0	1	030239	350 140 600	12,35
14,0	9/16	100	800	10,0	1	030741	350 140 800	13,42
16,0	5/8	100	400	10,0	1	030055	350 160 400	13,08
16,0	5/8	100	600	10,0	1	030246	350 160 600	13,39
16,0	5/8	100	800	10,0	1	030758	350 160 800	14,58
18,0	11/16	100	400	13,0	1	030062	350 180 400	17,25
18,0	11/16	100	600	13,0	1	030253	350 180 600	18,41
18,0	11/16	100	800	13,0	1	030765	350 180 800	20,62
20,0	3/4	100	400	13,0	1	030079	350 200 400	20,87
20,0	3/4	100	600	13,0	1	030260	350 200 600	21,66
20,0	3/4	100	800	13,0	1	030772	350 200 800	23,05
22,0	7/8	100	400	13,0	1	030086	350 220 400	24,87
22,0	7/8	100	600	13,0	1	030277	350 220 600	25,58
22,0	7/8	100	800	13,0	1	030789	350 220 800	26,87
24,0	15/16	100	400	13,0	1	030093	350 240 400	29,50
24,0	15/16	100	600	13,0	1	030284	350 240 600	31,66
24,0	15/16	100	800	13,0	1	030796	350 240 800	32,77
26,0	1 1/32	100	400	13,0	1	030109	350 260 400	35,28
28,0	1 1/8	100	400	13,0	1	030116	350 280 400	42,14
30,0	1 3/16	100	400	13,0	1	030123	350 300 400	49,37

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



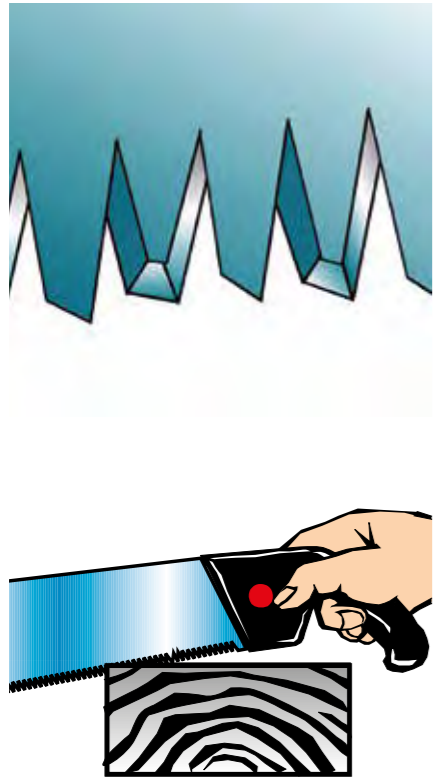
Comments

- Other dimensions on request

D Ø mm	D Ø 3/8	L2 mm	L1 mm	d Ø mm		EAN 4016707	12345	€
10,0	3/8	100	400	10,0	1	030406	355 100 400	16,39
10,0	3/8	100	600	10,0	1	030604	355 100 600	16,81
12,0	15/32	100	400	10,0	1	030413	355 120 400	17,45
12,0	15/32	100	600	10,0	1	030611	355 120 600	17,83
12,0	15/32	100	800	10,0	1	030963	355 120 800	18,16
14,0	9/16	100	400	10,0	1	030420	355 140 400	15,44
14,0	9/16	100	600	10,0	1	030628	355 140 600	15,87
14,0	9/16	100	800	10,0	1	030970	355 140 800	16,86
16,0	5/8	100	400	10,0	1	030437	355 160 400	16,53
16,0	5/8	100	600	10,0	1	030635	355 160 600	16,85
16,0	5/8	100	800	10,0	1	030987	355 160 800	17,97
18,0	11/16	100	400	10,0	1	030444	355 180 400	27,24
18,0	11/16	100	600	10,0	1	030642	355 180 600	28,35
18,0	11/16	100	800	10,0	1	030994	355 180 800	30,29
20,0	3/4	100	400	10,0	1	030451	355 200 400	30,34
20,0	3/4	100	600	10,0	1	030659	355 200 600	31,40
20,0	3/4	100	800	10,0	1	031007	355 200 800	32,71
22,0	7/8	100	400	10,0	1	030468	355 220 400	34,41
22,0	7/8	100	600	10,0	1	030666	355 220 600	35,11
22,0	7/8	100	800	10,0	1	031014	355 220 800	36,29
24,0	15/16	100	400	10,0	1	030475	355 240 400	38,73
24,0	15/16	100	600	10,0	1	030673	355 240 600	40,80
24,0	15/16	100	800	10,0	1	031021	355 240 800	41,84

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.



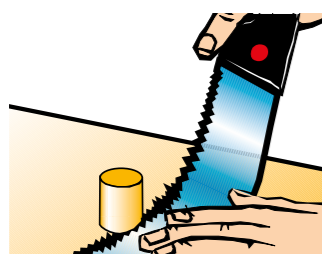
EASY SAWING, EASY GOING

- 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.



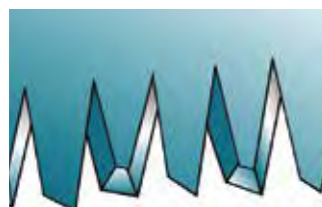
PRECISION - THE PULL CUT

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



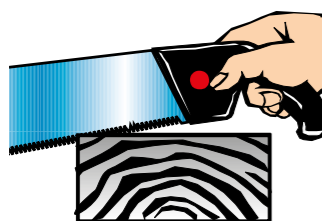
ASPEED - THIN SAW BLADE

- 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



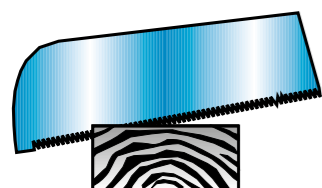
HANDLING - TEETH

- 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.

PACKAGING



[168]

Comments

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



mm	Teeth/inch	Blades per pack	EAN	Product Code	Price (€)
300	14	4	530326	100 112 312	31,41
380	10	4	530340	100 112 415	37,99

REPLACEMENT SAW BLADE FOR CARPENTRY SAW



mm	Teeth/inch	Blades per pack	EAN	Product Code	Price (€)
300	14	4	530333	100 022 312	21,91
380	10	4	530357	100 022 415	28,32

FINE CUT SAW | 100

EXECUTION

- Replaceable saw blade
- Two-components safety handle

FOR USE IN



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

PACKAGING



[168]

Comments

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



mm	Teeth/inch	Blades per pack	EAN	Product Code	Price (€)
270	19	4	530043	100 112 410	35,13

REPLACEMENT SAW BLADE FOR FINE CUT SAW



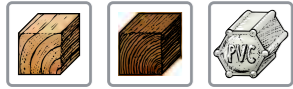
mm	Teeth/inch	Blades per pack	EAN	Product Code	Price (€)
270	19	4	530050	100 022 410	24,92

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	X"	EA	EAN	12345	€
265	15	4	530364	100 110 265	31,76
300	12	4	530388	100 110 300	35,84

REPLACEMENT SAW BLADE FOR NEO FINE CUT SAW



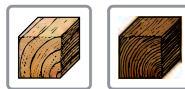
mm	X"	EA	EAN	12345	€
265	15	4	530371	100 020 265	14,91
300	12	4	530395	100 020 300	18,02

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

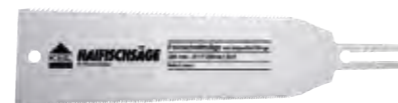


[168]



mm	X"	EA	EAN	12345	€
240	9-17	4	530081	100 112 440	35,15

REPLACEMENT SAW BLADE WITH DOUBLE EDGE



mm	X"	EA	EAN	12345	€
240	9-17	4	530098	100 022 440	26,01

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]



mm	X"	EA	EAN	12345	€
160	29	4	530296	100 100 554	24,84

REPLACEMENT SAW BLADE FOR MICRO PULL SAW



mm	X"	EA	EAN	12345	€
160	19	4	530302	für Holz 100 010 554	13,36
160	29	4	530319	für Metall 100 010 555	10,68

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



mm	X"	EA	EAN	12345	€
155	8	4	530401	100 112 206	26,66



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"	EA	EAN	12345	€
180	7	6	530135	100 105 418	16,65
210	9	4	530104	100 105 427	39,10

REPLACEMENT SAW BLADE FOR PRUNING SAW



mm	X"	EA	EAN	12345	€
180	7	1	530128	100 015 418	12,34
210	9	1	530111	100 015 427	27,14

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"	EA	EAN	12345	€
240	7	10	530142	100 105 424	21,85

REPLACEMENT SAW BLADE FOR PRUNING SAW



mm	X"	EA	EAN	12345	€
240	7	1	530159	100 015 424	19,11

ASSORTMENTS

EVERYTHING AT YOUR FINGERTIPS



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

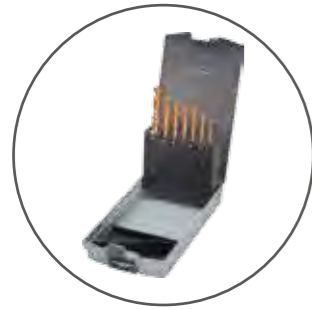
141-143
144-145
146-155
156



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



MultiPack SDS-plus MS5 TURBOHEAD Xpro		[12-13]		251
	D Ø mm	L2 mm	L1 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	EAN 4016707		€ 12345 64,51



MultiPack SDS-plus MS5 TURBOHEAD Xpro		[12-13]		251
	D Ø mm	L2 mm	L1 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	EAN 4016707		€ 12345 100,34



RoseBox SDS-plus MS5 TURBOHEAD Xpro		[12-13]		251
	D Ø mm	L2 mm	L1 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	EAN 4016707		€ 12345 104,17



Display SDS-plus MS5 TURBOHEAD Xpro		[12-13]		251
	D Ø mm	L2 mm	L1 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	EAN 4016707		€ 12345 2.218,35



RectanglePack SDS-plus MS5 TURBOHEAD Xpro		[12-13]		251					
	D Ø mm	D Ø "	L2 mm	L1 mm					
	5,0	3/16	50	110	10	1	902703	251 950 110	96,81
	5,0	3/16	100	160	10	1	902710	251 950 160	111,90
	6,0	15/64	50	110	10	1	902727	251 960 110	94,79
	6,0	15/64	100	160	10	1	902734	251 960 160	106,49
	6,0	15/64	150	210	10	1	902741	251 960 210	155,80
	6,0	15/64	200	260	10	1	902758	251 960 260	196,21
	8,0	5/16	50	110	10	1	902765	251 980 110	118,20
	8,0	5/16	100	160	10	1	902772	251 980 160	128,90
	8,0	5/16	150	210	10	1	902789	251 980 210	160,98
	8,0	5/16	200	260	10	1	902796	251 980 260	189,57
	10,0	3/8	100	160	10	1	902811	251 900 160	156,26
	10,0	3/8	150	210	10	1	902828	251 900 210	190,71
	10,0	3/8	200	260	10	1	902635	251 900 260	220,65
	12,0	15/32	100	160	10	1	902642	251 920 160	177,31
	12,0	15/32	150	210	10	1	902659	251 920 210	209,17
	12,0	15/32	200	260	10	1	902666	251 920 260	260,50
	14,0	17/32	100	160	5	1	902673	251 940 160	119,45
	14,0	17/32	150	210	5	1	902680	251 940 210	139,50
	14,0	17/32	200	260	5	1	902697	251 940 260	154,39




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

HAMMER DRILL BITS
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HAMMER DRILL BITS

253

MultiPack
SDS-plus MS5 TURBOKEIL




	D	L2	L1	[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 36,70

253

MultiPack
SDS-plus MS5 TURBOKEIL




	D	L2	L1	[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 56,71

253

RoseBox
SDS-plus MS5 TURBOKEIL




	D	L2	L1	[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 73,15

253 502

RoseBox
SDS-plus MS5 TURBOKEIL




	D	L2	L1	B	[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 81,49

253

RectanglePack
SDS-plus MS5 TURBOKEIL




D	D	L2	L1						
Ø mm	Ø "	mm	mm						
5,0	3/16	50	110	10	1	322211	253 950 115	51,43	
5,0	3/16	100	160	10	1	322228	253 950 165	59,00	
6,0	15/64	50	110	10	1	322235	253 960 115	50,31	
6,0	15/64	100	160	10	1	322242	253 960 165	55,92	
6,0	15/64	150	210	10	1	323539	253 960 210	91,30	
6,0	15/64	200	260	10	1	323461	253 960 260	109,63	
8,0	5/16	50	110	10	1	322259	253 980 115	67,45	
8,0	5/16	100	160	10	1	322266	253 980 160	68,53	
8,0	5/16	150	210	10	1	322273	253 980 215	85,98	
8,0	5/16	200	260	10	1	323478	253 980 260	101,69	
10,0	3/8	50	110	10	1	322655	253 900 110	80,09	
10,0	3/8	100	160	10	1	322280	253 900 165	83,70	
10,0	3/8	150	210	10	1	322297	253 900 210	102,77	
10,0	3/8	200	260	10	1	323485	253 900 260	118,36	
12,0	15/32	100	160	10	1	322303	253 920 165	95,34	
12,0	15/32	150	210	10	1	322310	253 920 215	112,55	
12,0	15/32	200	260	10	1	323492	253 920 265	140,40	
14,0	17/32	100	160	5	1	323508	253 940 165	63,85	
14,0	17/32	150	210	5	1	323515	253 940 215	75,86	
14,0	17/32	200	260	5	1	323522	253 940 265	80,28	

HAMMER DRILL BITS

256

MultiPack
SDS-plus hammer drill bit KEILRAPID

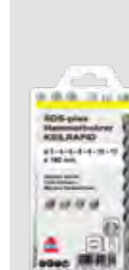


	D	L2	L1	[22]
	Ø mm	mm	mm	
1	5,0	50		110
1	6,0	50		110
1	6,0	100		160
1	8,0	100		160
1	10,0	100		160

5 10 920165 256 350 510 25,49

256

MultiPack
SDS-plus hammer drill bit KEILRAPID




	D	L2	L1	[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 39,13

256

RectanglePack
SDS-plus hammer drill bit KEILRAPID



D	D	L2	L1						
Ø mm	Ø "	mm	mm						
5,0	3/16	50	110	10	1	920172	256 950 110	43,07	
5,0	3/16	100	160	10	1	920189	256 950 160	45,98	
6,0	15/64	50	110	10	1	920196	256 960 110	42,00	
6,0	15/64	100	160	10	1	920202	256 960 160	45,98	
6,0	15/64	150	210	10	1	920219	256 960 210	78,76	
6,0	15/64	200	260	10	1	920226	256 960 260	95,16	
8,0	5/16	50	110	10	1	920233	256 980 110	55,48	
8,0	5/16	100	160	10	1	920240	256 980 160	57,04	
8,0	5/16	150	210	10	1	920257	256 980 210	68,19	
8,0	5/16	200	260	10	1	920264	256 980 260	76,34	
10,0	3/8	50	110	10	1	921131	256 900 110	64,70	
10,0	3/8	100	160	10	1	920271	256 900 160	66,93	
10,0	3/8	150	210	10	1	920288	256 900 210	77,21	
10,0	3/8	200	260	10	1	920295	256 900 260	95,16	
12,0	15/32	100	160	10	1	920301	256 920 160	72,36	
12,0	15/32	150	210	10	1	920318	256 920 210	85,26	
12,0	15/32	200	260	10	1	920325	256 920 260	108,35	
14,0	17/32	100	160	5	1	920332	256 940 160	55,39	
14,0	17/32	150	210	5	1	920349	256 940 210	67,85	
14,0	17/32	200	250	5	1	920356	256 940 250	74,63	



HAMMER DRILL BITS
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STONE AND SPECIAL DRILL BITS

MultiPack
Universal drill bit GOLDCRAFT

[48]

	D Ø mm	L2 mm	L1 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

5 10 904820 119 350 410 26,74

MultiPack
Universal drill bit GOLDCRAFT

[48]

	D Ø mm	L2 mm	L1 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

7 10 904837 119 370 412 41,74

RoseBox
Universal drill bit GOLDCRAFT

[48]

	D Ø mm	L2 mm	L1 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

7 1 212628 119 501 412 44,20

MultiPack
Tile/brick drill bit KERAMIK with TSM carbide tip

[52]

	D Ø mm	L2 mm	L1 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

5 10 904868 151 350 410 30,26

Plastic case
Tile drill bit/KERAMIK diamond - dry drill

[54]

	D Ø mm	L2 mm	L1 mm
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

	D Ø mm	L2 mm	L1 mm	
KERAMIK TSM	1	4,0	40	75
KERAMIK TSM	1	5,0	50	85
KERAMIK TSM	1	6,0	60	100

8 1 905834 786 151 098 123,26

MultiPack
Hard stone drill bit HARDTEC

[51]

	D Ø mm	L2 mm	L1 mm
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 24,52

Cardboard box
Universal hollow core

[65]

	D Ø mm	L1 mm	
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 28,59

STONE AND SPECIAL DRILL BITS

MultiPack
Concrete drill bit MS5 TURBOKEIL

[60]

	D Ø mm	L2 mm	L1 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

5 10 904929 258 350 410 14,01

MultiPack
Granite drill bit PRIMUS

[61]

	D Ø mm	L2 mm	L1 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

5 10 904899 154 350 410 14,25

MultiPack
Granite drill bit PRIMUS

[61]

	D Ø mm	L2 mm	L1 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

7 10 904905 154 370 412 22,46

RoseBox
Granite drill bit PRIMUS

[61]

	D Ø mm	L2 mm	L1 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

7 1 192951 154 501 412 24,85

MultiPack
Percussion drill bit KEILER

[62-63]

	D Ø mm	L2 mm	L1 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

5 10 904851 150 350 410 8,61

MultiPack
Masonry drill bit OPAL

[64]

	D Ø mm	L2 mm	L1 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

5 10 904912 190 350 410 7,15

MultiPack
Universal drill bit KEILBIT

[58]

	D Ø mm	L2 mm	L1 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

5 10 220074 166 350 410 14,20

MultiPack
Concrete drill bit MS5 TURBOHEAD Xpro

[59]

	D Ø mm	L2 mm	L1 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

5 10 912795 238 350 510 19,58



METAL DRILL BITS

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

[76-78]

	D Ø mm	L2 mm	L1 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 19,66

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

[76-78]

	D Ø mm	L2 mm	L1 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 22,29

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

[76-78]

	D Ø mm	L2 mm	L1 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 53,81

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

[76-78]

	D Ø mm	L2 mm	L1 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 52,22

METAL DRILL BITS

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

[76-78]

	D Ø mm	L2 mm	L1 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 307 501 113 113,93

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

[76-78]

	D Ø mm	L2 mm	L1 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 307 500 113 112,01

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

[76-78]

	D Ø mm	L2 mm	L1 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 307 800 170 418,53



METAL DRILL BITS

311

RoseBox
HSS TIN DIN 338 steel drill bit



	D Ø mm	L2 mm	L1 mm	[80]
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 37,70

311

RoseBox
HSS TIN DIN 338 steel drill bit



	D Ø mm	L2 mm	L1 mm	[80]
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 76,32

METAL DRILL BITS

302

MultiPack
HSS DIN 338 ground, split point



	D Ø mm	L2 mm	L1 mm	[82-84]
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 12,61

302

Plastic cassette
HSS DIN 338 ground, split point



	D Ø mm	L2 mm	L1 mm	[82-84]
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 14,74

302

RoseBox
HSS DIN 338 ground, split point



	D Ø mm	L2 mm	L1 mm	[82-84]
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 26,65

302

Metal box
HSS DIN 338 ground, split point



	D Ø mm	L2 mm	L1 mm	[82-84]
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 20,57



METAL DRILL BITS

302

RoseBox
HSS DIN 338 ground, split point

	D Ø mm	L2 mm	L1 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 48,95

302

Metal case
HSS DIN 338 ground, split point

	D Ø mm	L2 mm	L1 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 302 800 170 145,73

302

Metal box
HSS DIN 338 ground, split point

	D Ø mm	L2 mm	L1 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 42,71

METAL DRILL BITS

300

MultiPack
HSS DIN 338, standard

	D Ø mm	L2 mm	L1 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 6,46

300

RoseBox
HSS DIN 338, standard

	D Ø mm	L2 mm	L1 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 19,20

300

Plastic cassette
HSS DIN 338, standard

	D Ø mm	L2 mm	L1 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 6,23

300

Metal box
HSS DIN 338, standard

	D Ø mm	L2 mm	L1 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 12,86



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300

RoseBox
HSS DIN 338, standard

	D Ø mm	L2 mm	L1 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 31,98

300

Metal case
HSS DIN 338, standard

	D Ø mm	L2 mm	L1 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 89,10

300

Metal box
HSS DIN 338, standard

	D Ø mm	L2 mm	L1 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 25,67

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300

Metal display
HSS DIN 338, standard

435 1 042546 300 800 435 349,66

302

Metal display
HSS DIN 338, ground, split point

435 1 042805 302 800 435 778,52

307

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

435 1 042829 307 800 435 1.339,05

384

Metal display
375x235x205 mm, empty

1 042843 384 300 030 108,06

	D Ø mm	L2 mm	L1 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



METAL DRILL BITS

315

MultiPack
HSS bits drill KEILBIT, ground

[101]

	D Ø mm	L2 mm	L1 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 17,61

317

Plastic cassette
HSS combination tool KEILBIT + universal bit holder

[102]

	D Ø mm	L1 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 78,76

329

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

[103]

	D Ø mm	L1 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 66,38

327

RoseBox
HSS countersink 90° DIN 335 C

[104]

	D Ø mm	L1 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 327 500 620 103,84

328

RoseBox
HSS deburring countersink 90° with cross hole

[105]

	D Ø mm	L1 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 99,22

326

RoseBox
HSS tube & sheet drill + cutting paste

[106]

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

4 1 150135 326 500 103 110,10

325

RoseBox
HSS step drills

[107]

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

3 1 150050 325 500 103 175,98

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 86,09

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 59,81

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 81,17

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 320 252 268 108,00



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184

MultiPack
Wood twist drill bit with tungsten carbide
Tip TURBOWOOD

[119]

	D Ø mm	L2 mm	L1 mm
1	4,0	40	75
1	5,0	40	86
1	6,0	45	93
1	8,0	63	117
1	10,0	61	120

5 10 904998 184 350 410 80,64

180

MultiPack
Wood twist drill bit

180

[121]

	D Ø mm	L2 mm	L1 mm
1	4,0	43	75
1	5,0	52	86
1	6,0	57	93
1	8,0	70	117
1	10,0	87	120

5 10 904974 180 350 410 7,94

180

MultiPack
Wood twist drill bit

[121]

	D Ø mm	L2 mm	L1 mm
1	3,0	33	61
1	4,0	43	75
1	5,0	52	86
1	6,0	57	93
1	7,0	69	109
1	8,0	75	117
1	10,0	87	120

7 10 904981 180 370 310 10,61

300 190 180

Plastic cassette
HSS - Stone - Wood

[86-88]

	D Ø mm	L2 mm	L1 mm
Masonry drill bit	1 5,0	52	86
Masonry drill bit	1 6,0	57	93
Masonry drill bit	1 8,0	75	117
Wood twist drill bit	1 5,0	50	85
Wood twist drill bit	1 6,0	60	100
Wood twist drill bit	1 8,0	80	120
HSS DIN 338	1 5,0	52	86
HSS DIN 338	1 6,0	57	93
HSS DIN 338	1 8,0	75	117

9 9 905049 300 190 180 10,61

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



MODULES

We equip your module the way you want it.



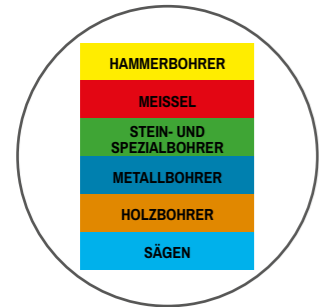
INDIVIDUAL COMBINATION

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.



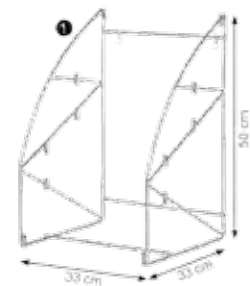
PRODUCT GROUP LABEL

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 -			
		12345	€
1 - Base frame 3 sections	000 101 003	19,68	
2 - Strip for product group label	000 401 001	3,41	
3 - Hook strip, flexible	000 201 002	3,22	
4 - Round hook, single 10 cm	000 501 001	0,83	
5 - EURO - hook, single 8 cm	000 501 003	0,89	
5 - EURO - hook, single 10 cm	000 501 002	0,89	
6 - EURO hook strip, 7 part	000 201 003	2,97	
7 - Display basket, standard	000 201 004	9,75	
Header sign for Tego perforated wall	000 301 001	0,00	
Label card	000 501 005	0,20	
Tego perforated metal wall, approx- 250 x 100 cm incl. top and bottom section	000 101 004	163,31	

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]



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

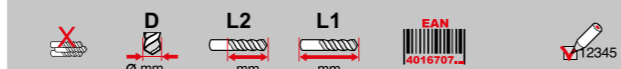
121 251 800 121 2.351,04



253

Module shelf
SDS-plus hammer drill bit MS5 TURBOKEIL

[17-19]



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 1.269,27

HAMMER DRILL BITS | CHISELS



270

Module shelf
SDS-max hammer drill bit X-shape

[23-24]



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 1.412,09



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

42 503 800 042 811,53



STONE AND SPECIAL DRILL BITS



119 219

Module shelf
Universal drill bit GOLDCRAFT round shank /
SDS-plus MS5

[48]



3	6,0	100	160	213014	119 255 001
3	8,0	100	160	213021	119 255 002
3	8,0	150	210	213038	119 255 003
3	10,0	100	160	213045	119 255 004
3	10,0	200	260	213052	119 255 005
3	12,0	200	260	213076	119 255 007
3	14,0	200	265	213083	119 255 008
5	10,0	80	120	210105	119 000 100
5	12,0	90	150	210112	119 000 120
5	6,0	110	150	212024	219 000 060
10	8,0	135	200	212048	219 000 080
5	10,0	135	200	212055	219 000 100
5	12,0	135	200	212062	219 000 120
10	3,0	40	70	210013	119 000 030
10	4,0	40	75	210020	119 000 040
10	5,0	50	85	210037	119 000 050
20	6,0	60	100	210051	119 000 060
20	8,0	80	120	210082	119 000 080

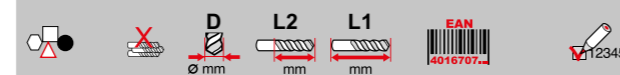
126 119 800 126 988,07



151 258 130

Module shelf
Tile drill bit KERAMIK / Concrete drill bit MS5
TURBOKEIL / Glass drill bit

[52]



130	10	3,0	58	010019	130 000 030	
130	10	4,0	58	010026	130 000 040	
130	10	5,0	58	010033	130 000 050	
130	10	6,0	58	010040	130 000 060	
130	10	8,0	78	010064	130 000 080	
130	10	10,0	98	010088	130 000 100	
130	3	12,0	98	010095	130 000 120	
258	10	4,0	40	75	290015	258 000 040
258	10	5,0	50	85	290022	258 000 050
258	10	6,0	60	100	290039	258 000 060
258	10	7,0	60	100	290046	258 000 070
258	10	8,0	75	120	290053	258 000 080
258	10	10,0	75	120	290077	258 000 100
258	5	12,0	100	150	290084	258 000 120
151	10	4,0	40	75	510106	151 018 040
151	10	5,0	50	85	510113	151 018 050
151	10	6,0	60	100	510120	151 018 060
151	10	8,0	80	120	510137	151 018 080
151	10	10,0	80	120	510144	151 018 100
151	4			904868	151 350 410	

182 151 801 182 762,85

STONE AND SPECIAL DRILL BITS



154 204 404

Module shelf
Granit drill bit PRIMUS

[61]



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

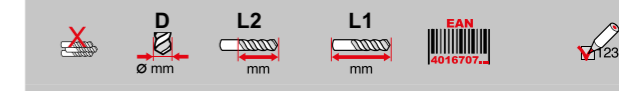
126 154 800 126 580,95



150 200 400

Module shelf
Percussion drill bit KEILER

[62-63]



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

126 150 800 126 378,23



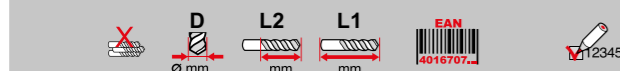
STONE AND SPECIAL DRILL BITS



190 290 400

Module shelf
Masonry drill bit OPAL / KEILER

[64]



	D	L2	L1	EAN	
	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

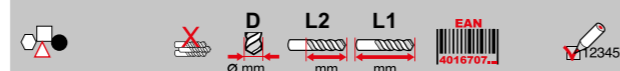
126 190 800 126 327,60



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	
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Hollow cores M 16	2	65,0	52	72	160103 711 000 065	
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Locating shanks SDS-plus	2			105	160301 713 080 120	
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Centre drill bits	2	8,0	72	120	916168 715 080 120	
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13 710 800 001 430,34

METAL DRILL BITS



307

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

[76-78]



	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

195 307 800 195 565,14



302

Module shelf
HSS DIN 338 ground, split point

[82-84]



	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

195 302 800 195 338,75



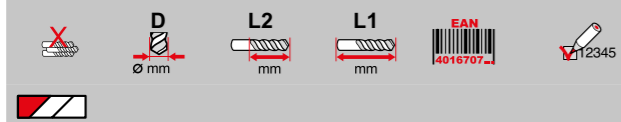
METAL DRILL BITS



300

Module shelf
HSS DIN 338 standard

[86-88]



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



320

Module shelf
Hole saw bi-metal and accessoires

[109-110]



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 SDS-plus (32-152)	1		110702	320 255 002
Locating shank AF 11 (14-30)	1		110603	320 300 011
Quick-rel.loc. shank 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



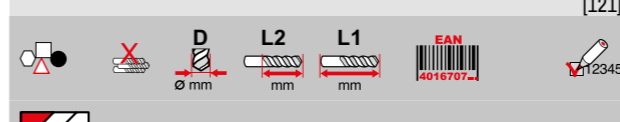
WOOD DRILL BITS



181 180 183

Module shelf
Forstner / wood twist / auger drill bit

[121]



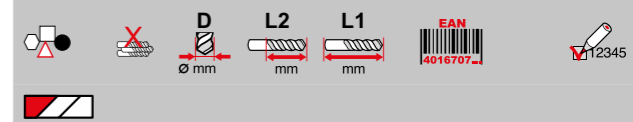
181	5	6,0	150	235	031403	181 060 250
181	5	8,0	150	235	031410	181 080 250
181	5	10,0	150	235	031427	181 100 250
181	5	12,0	380	460	031175	181 120 450
181	5	14,0	380	460	031182	181 140 450
181	5	16,0	380	460	031199	181 160 450
181	5	18,0	380	460	031205	181 180 450
180	10	3,0	33	61	020018	180 000 030
180	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
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



180 181 350

Module shelf
Wood twist / auger / timbering drill bit

[121]



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
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
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



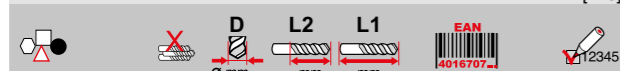
WOOD DRILL BITS | SAWS



185

Module shelf Flat bit KEILBIT

[128]



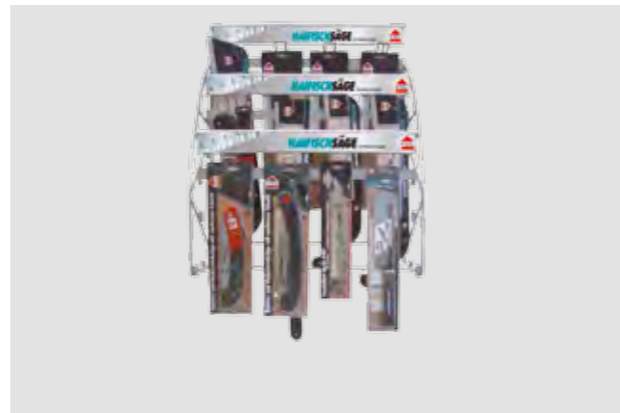
Extensions	3		300	025198	185 000 001
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	5	28,0	100	160	025136	185 280 160
	5	30,0	100	160	025143	185 300 160
	5	32,0	100	160	025150	185 320 160
	5	35,0	100	160	025167	185 350 160
	5	38,0	100	160	025174	185 380 160
	5	40,0	100	160	025181	185 400 160

	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

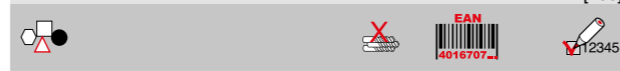
	103	185 800 103	234,66
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100

Module shelf Sharksaw

[135]



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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

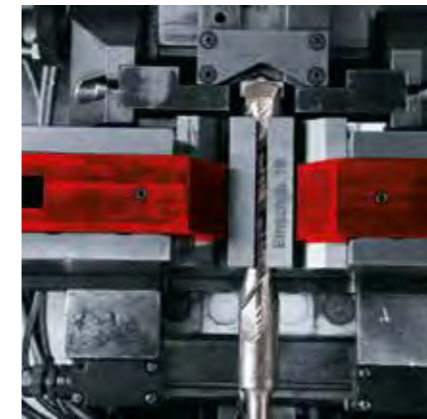
Fine cut saw with double edged blade	3	530081	100 112 440
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Replacement saw blade	3	530111	100 015 427
MICRO pull saw	3	530296	100 100 554
Pruning saw	3	530135	100 105 418
Pruning saw	3	530104	100 105 427

	36	100 800 001	1.049,45
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INFO

ALL AT ONE SIGHT



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THIS IS HOW TO FIND US

KEIL WERKZEUGFABRIK KARL EISCHEID GMBH

📍 Gewerbegebiet Loope
Im Auel 42
51766 Engelskirchen, Germany

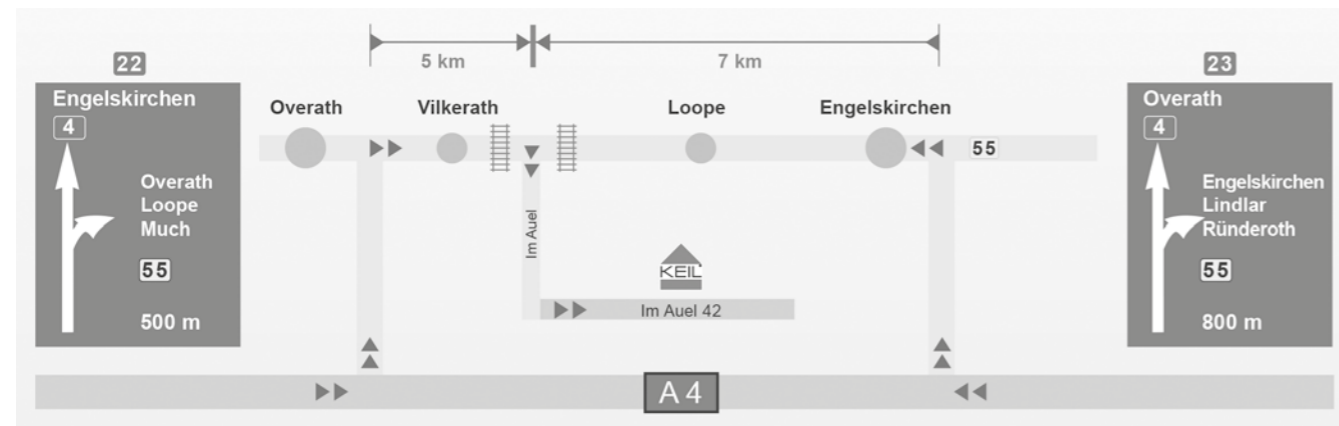
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🌐 www.keil.eu



WORLDWIDE



KEIL - Quality drilling tools

 KEIL - Finalized projects with KEIL fixed facades



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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.

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!

The screenshot shows the KEIL website interface. At the top, there's a navigation bar with 'HOME', 'PRODUKTE', 'UNTERNEHMEN', 'SERVICE', 'KARRIERE', and 'KONTAKT'. Below this is a large image of a factory floor with various drilling tools. The text 'QUALITÄTSBOHRWERKZEUGE' is prominently displayed. Below the image, there's a section titled 'QUALITÄTSBOHRWERKZEUGE VON KEIL' with the headline 'Immer der richtige Bohrer. Für Profis, die wissen, worauf es ankommt.' Below this, there's a 'PRODUKT-FINDER' section with icons for different materials: Mauerwerk, Stahlbeton, Naturstein, Metall, Holz, and others. The text 'Egal ob Mauerwerk, Stahlbeton, Naturstein, Metall oder Holz: Unsere Bohrer bringen Sie durch.' is also visible.

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 unstrittig 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 unbestrittenen Gegenansprüchen aufrechnen. Zur Ausübung eines Zurückbehaltungsrechts ist der Partner insoweit befugt, 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, Gefahrübergang

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 übernommen 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 Paketsendungen 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 gesetzten angemessenen Frist zur Leistung zum Rücktritt und zur Rücknahme berechtigt; die gesetzlichen Bestimmungen über die Entbehrllichkeit 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 Schuldnern 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 verwahrt 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 unter 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. Übersteigt 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 Gefahrübergangs 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. Schließen Nachbesserungen oder Ersatzlieferungen fehl oder wird die Beseitigung des Mangels infolge eines unverhältnismäßig 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 Gefahrübergang. 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 Erfüllungsgehilfe 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 Schadensersatzhaftung uns gegenüber ausgeschlossen oder eingeschränkt ist, gilt dies auch im Hinblick auf die persönliche Schadensersatzhaftung unserer Angestellten, Arbeitnehmer, Mitarbeiter, Vertreter und Erfüllungsgehilfen.

XII. Höhere Gewalt

1. 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.



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