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251 | SDS-plus MS5 TURBOHEAD Xpro
253 | SDS-plus MS5 TURBOKEIL
256 | SDS-plus MS5 hammer drill bit KEILRAPID
119 | Universal drill bit GOLDCRAFT



#### **TESTED AND APPROVED**

KEIL drilling tools are made with greatest care. Our research and development and guality management 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.

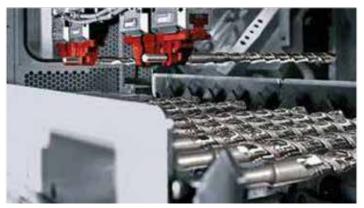
Processes such as innert gas high-temperature brazing up to 1120°C, austempering and shotpeeing ensure a long tool life.

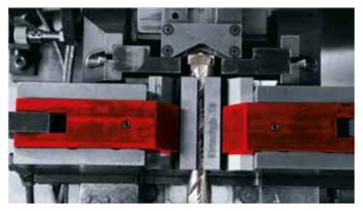


KEIL tool factory is certified to DIN EN ISO 9001:2000. Every Gass professional can rely on the high quality of our product. With more than 40 years of drill bit manufacturing experience, we are your ideal partener.



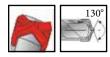








**KEIL** hammer drill bits are applicable for hardest materials. No matter if brick work, armed concrete, natural stone or artificial stone, our drill bits drill a geometrically exact hole in all kinds of material.



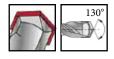
#### 251 SERIE | SDS-PLUS MS5 TURBOHEAD XPRO | P. 4

Innovative X-head design with 4 cutting edges for fast and professional work. The drill bit made of reinforced and resistant steel guarantees high drilling speed and low friction. The special geometry of the head allows optimal pre-drilling and fast removal of drilling dust, as well as reduced friction in the drill hole. Thus, less heat is developed and the machine consumes less energy.



#### 253 SERIE | SDS-PLUS MS5 TURBOKEIL | P. 5-6

The professional generation of hammer drills can be used for the hardest materials. The TURBOKEIL drill, with its centering tip, can drill through rebar and makes precise holes.



#### 256 SERIE | SDS-PLUS KEILRAPID | P. 7

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



#### **119 SERIE | UNIVERSAL GOLDCRAFT | P. 8**

The Goldcraft drill bit is suitable for almost all materials due to the special geometry of the carbide tip edge. Round or SDS-PLUS shank.



#### QUALITY MARK

The PGM<sup>®</sup> quality mark stands for a high-quality product manufactured in a controlled and certified production process. Drills with this seal meet strict tolerance limits for the diameter and symmetry of the carbide tip. KEIL is a founding member of the PGM<sup>®</sup> and has been authorized to bear this seal for more than 25 years.



#### SDS-PLUS

The SDS-plus shank fits directly on all percussion drilling machines with the SDS-plus and Hilti TE-C tool lock. The SDS-plus shank is particularly suitable for small drills.

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#### **ROUND SHANK**

The round shank fits all types of drills with chuck capacities of 3/8" and more.



#### **MS5 HELIX**

The MS5 helix drills much faster than a regular helix. It has a longer life span and reduces the oscillating and torsional forces caused by hammer drilling. Therefore there is no blockage caused by drilling dust. It has a longer service life and reduces vibration loads.. The reinforced core and the gradual, rounded transitions offer a much higher breaking strength.



#### VIBRATION REDUCTION IN HANDS AND ARMS

If a person is continuously exposed to strong mechanical vibrations, this can have negative effects on his or her health. The operation of hammer drills causes this type of vibration.

Through specific design modifications, we continuously develop and optimize our products to minimize the vibrations caused by the drilling tool.

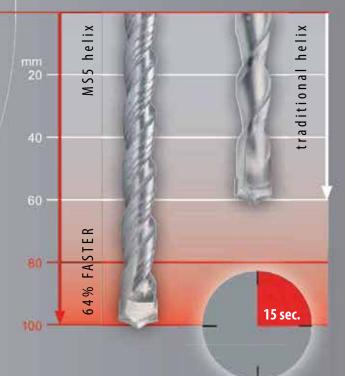
# SDS-PLUS MS5 COMPARATIVE TEST



#### WORKING PROFESSIONALLY MEANS WORKING ECONOMICALLY

Drilling comparison between a drill bit with the multi-stage MS5 helix and a drill bit with a traditional helix. Hole depth for a drilling time of 15 seconds, using SDSplus TURBOKEIL 6 x 100 x 160 mm hammer drills in C25/30 concrete (conventional foundation).

### 64% FASTER WITH MS5 MULTI-STEP HELIX!



### SDS-plus MS5 ADVANTAGES

#### THE MS5 HELIX

REDUCE THE VIBRATION LOADS GENERATED DURING DRILLING

LONGER SERVICE LIFE

THE MSS HELIX REDUCE THE TORSION LOADS GENE-RATED DURING DRILLING

**NO DUST ACCUMULATION** 

THE MS5 HELIX

PROVIDES FOR OPTIMUM TRANSFERT OF THE IMPACT ENERGY OF THE HAM-MER DRILLING MACHINE

**HIGHER DRILLING SPEED** 

THE MS5 HELIX

HAS A STRENGTHENED CORE AND ROUNDED STEP TRANSITIONS

**GREATER FRACTURE RESISTANCE** 

### TURBOHEAD X pro SDS-PLUS MS5

D x L1 inch	D x L1 x L2 mm	F	12345
3/16″ x 4-1/4″	5,0 x 50 x 110 mm	1	K251.041264
3/16″ x 6-1/4″	5,0 x 100 x 160 mm	1	K251.041204 K251.061264
3/16″ x 8-1/4″	5,0 x 150 x 210 mm	1	K251.081264
3/16″ x 10-1/4″	5,0 x 200 x 260 mm	1	K251.101264
7/32″x 4-1/4″	5,5 x 50 x 110 mm	1	K251.041464
7/32″x 6-1/4″	5,5 x 100 x 160 mm	1	K251.061464
7/32″x 8-1/4″	5,5 x 150 x 210 mm	1	K251.081464
7/32″ x 10-1/4″	5,5 x 200 x 260 mm	1	K251.101464
15/64" x 4-1/4"	6.0 x 50 x 110 mm	1	K251.041564
15/64" x 6-1/4"	6,0 x 100 x 160 mm	1	K251.061564
15/64″ x 8-1/4″	6,0 x 150 x 210 mm	1	K251.081564
15/64″ x 10-1/4″	6.0 x 200 x 260 mm	1	K251.081564
1/4" x 6-1/4"		1	K251.061664
	6,5 x 100 x 160 mm	1	K251.081664
1/4″ x 8-1/4″ 1/4″ x 10-1/4″	6,5 x 160 x 210 mm	1	K251.081664
	6,5 x 200 x 260 mm	1	
1/4" x 12"	6,5 x 250 x 310 mm		K251.121664
5/16" x 4-1/4"	8,0 x 50 x 110 mm	1	K251.042064
5/16" x 6-1/4"	8,0 x 100 x 160 mm	1	K251.062064
5/16" x 8-1/4"	8,0 x 150 x 210 mm	1	K251.082064
5/16" x 10-1/4"	8,0 x 200 x 260 mm	1	K251.102064
5/16" x 12"	8,0 x 250 x 310 mm	1	K251.122064
5/16" x 14"	8,0 x 300 x 360 mm	1	K251.142064
5/16" x 18"	8,0 x 410 x 460 mm	1	K251.182064
3/8" x 6-1/4"	10,0 x 100 x 160 mm	1	K251.062464
3/8" x 8-1/4"	10,0 x 150 x 210 mm	1	K251.082464
3/8″ x 10-1/4″	10,0 x 200 x 260 mm	1	K251.102464
3/8" x 12"	10,0 x 250 x 310 mm	1	K251.122464
3/8″ x 14″	10,0 x 310 x 360 mm	1	K251.142464
3/8″ x 18″	10,0 x 400 x 460 mm	1	K251.182464
3/8" x 23-1/2"	10,0 x 540 x 600 mm	1	K251.242464
15/32" x 6-1/4"	12,0 x 100 x 160 mm	1	K251.063064
15/32" x 8-1/4"	12,0 x 150 x 210 mm	1	K251.083064
15/32" x 10-1/4"	12,0 x 200 x 260 mm	1	K251.103064
15/32" x 12"	12,0 x 250 x 310 mm	1	K251.123064
15/32" x 17-3/4"	12,0 x 400 x 450 mm	1	K251.183064
15/32" x 23-1/2"	12,0 x 540 x 600 mm	1	K251.243064
9/16″ x 6-1/4″	14,0 x 100 x 160 mm	1	K251.063664
9/16″ x 8-1/4″	14,0 x 150 x 210 mm	1	K251.083664
9/16″ x 10-1/4″	14,0 x 200 x 260 mm	1	K251.103664
9/16″ x 12″	14,0 x 250 x 310 mm	1	K251.123664
9/16″ x 17-3/4″	14,0 x 400 x 450 mm	1	K251.183664
9/16" x 23-1/2"	14,0 x 540 x 600 mm	1	K251.243664
5/8" x 6-1/4"	16,0 x 100 x 160 mm	1	K251.064064
5/8" x 8-1/4"	16,0 x 150 x 210 mm	1	K251.084064
5/8" x 10-1/4"	16,0 x 200 x 260 mm	1	K251.104064
5/8″ x 17-3/4″	16,0 x 400 x 450 mm	1	K251.184064
5/8" x 23-1/2"	16,0 x 540 x 600 mm	1	K251.244064

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



#### FASTER

- The X-symmetry allows for higher drilling speed compared to conventional design at 90°. •
  - X-symmetry and large inlet flutes optimize drilling dust removal.



#### STRONGER

- Precise drilling start thanks to the TURBOKEIL centering point and better performance in contact with reinforcement.
- The multi-angle drill head ensures perfect drilling results and long tool life.

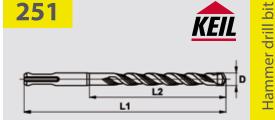


#### **MORE PRECISE**

- 4 carbide cutting edges for precise drilling. ٠
- The symmetry between them greatly reduces vibration.

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#### **TURBOHEAD Xpro**

- Resistant to reinforced concrete and cuts reinforcements without any problem.
- · The double adjustment depth of the carbide head ensures maximum safety.
- The 2x2 cutting concept prevents jamming.
- The borehole is always exactly cylindrical, even in reinforced concrete, because the feed movement is not deflected.
- · Considerable vibration reduction in accordance with the European Directive 2002/44/EC on protection against vibration.
- The MS5 spiral provides an ergonomic and environmentally friendly workflow.



#### Instructions

- For a working length of 16" (400 mm) and more, pre-drilling must be done to a depth of at least 6" (150 mm) with a drill bit of the same diameter.
- Other dimensions on request.

#### Packaging



\* On request



# **SDS-PLUS MS5 TURBOKEIL**





- Made of hardened, shot-blasted and intermediate-hardened steel
- TURBOKEIL carbide plate with centering tip
- Flute MS5



- Fits directly to all SDS-plus and HILTITE-C impact drills
- The MS5 spiral provides an ergonomic and environmentally friendly workflow
- Particularly suitable for fastening anchors

#### Instructions

- For a working length of 16" (400 mm) and more, pre-drilling must be done to a depth of at least 6" (150 mm) with a drill bit of the same diameter.
- For a working length of 37" (950 mm), pre-drilling must be done to a depth of at least 16" (400 mm) with a short drill of the same diameter.
- The warranty does not apply to extra-long drills of 39" (1,000 mm) and over.
- Other dimensions on request.

D x L1 inch	D x L1 x L2 mm	番	12345
	4.0 50 110	1	K252 0410(4
5/32" x 4-1/4" 5/32" x 4-1/4"	4,0 x 50 x 110 mm 4,0 x 50 x 110 mm	1 10	K253.041064 K253.041064.10
5/32" x 4-1/4"	4,0 x 50 x 110 mm	25	K253.041064.10
5/32" x 6-1/4"	4.0 x 100 x 160 mm	1	K253.061064
5/32" x 6-1/4"	4,0 x 100 x 160 mm	10	K253.061064.10
5/32" x 6-1/4"	4,0 x 100 x 160 mm	25	K253.061064.10
3/16" x 4-1/4"	5,0 x 50 x 110 mm	1	K253.041264
3/16" x 4-1/4"	5,0 x 50 x 110 mm	10	K253.041264.10
3/16" x 4-1/4"	5,0 x 50 x 110 mm	25	K253.041264.25
3/16" x 6-1/4"	5.0 x 100 x 160 mm	1	K253.061264
3/16" x 6-1/4"	5,0 x 100 x 160 mm	10	K253.061264.10
3/16" x 6-1/4"	5,0 x 100 x 160 mm	25	K253.061264.25
3/16" x 8-1/4"	5,0 x 150 x 210 mm	1	K253.081264
3/16" x 10-1/4"	5,0 x 200 x 260 mm	1	K253.101264
3/16" x 12"	5,0 x 260 x 310 mm	1	K253.121264
3/16" x 16"	5,0 x 350 x 410 mm	1	K253.161264
7/32" x 4-1/4"	5,5 x 50 x 110 mm	1	K253.041464
7/32" x 6-1/4"	5,5 x 100 x 160 mm	1	K253.061464
7/32" x 10-1/4"	5,5 x 200 x 260 mm	1	K253.101464
15/64" x 4-1/4"	6,0 x 50 x 110 mm	1	K253.041564
15/64" x 6-1/4"	6,0 x 100 x 160 mm	1	K253.061564
15/64" x 8-1/4"	6,0 x 150 x 210 mm	1	K253.081564
15/64" x 10-1/4"	6,0 x 200 x 260 mm	1	K253.101564
15/64" x 14"	6,0 x 300 x 360 mm	1	K253.141564
15/64" x 18"	6,0 x 400 x 460 mm	1	K253.181564
1/4" x 4-1/4"	6,5 x 50 x 110 mm	1	K253.041664
1/4" x 4-1/4"	6,5 x 50 x 110 mm	10	K253.041664.10
1/4" x 4-1/4"	6,5 x 50 x 110 mm	25	K253.041664.25
1/4" x 6-1/4"	6,5 x 100 x 160 mm	1	K253.061664
1/4" x 6-1/4"	6,5 x 100 x 160 mm	10	K253.061664.10
1/4" x 6-1/4" 1/4"x 8-1/4"	6,5 x 100 x 160 mm	25 1	K253.061664.25 K253.081664
1/4 x 0-1/4 1/4" x 10-1/4"	6,5 x 150 x 210 mm	1	K253.101664
5/16" x 4-1/4"	6,5 x 200 x 260 mm 8,0 x 50 x 110 mm	1	K253.042064
5/16 x 4-1/4 5/16"x 4-1/4"	8,0 x 50 x 110 mm	10	K253.042064.10
5/16" x 4-1/4"	8,0 x 50 x 110 mm	25	K253.042064.25
5/16" x 6-1/4"	8,0 x 100 x 160 mm	1	K253.062064
5/16″x 6-1/4″	8,0 x 100 x 160 mm	10	K253.062064.10
5/16" x 6-1/4"	8,0 x 100 x 160 mm	25	K253.062064.25
5/16" x 8-1/4"	8,0 x 150 x 210 mm	1	K253.082064
5/16" x 10-1/4"	8,0 x 200 x 260 mm	1	K253.102064
5/16" x 12"	8,0 x 250 x 310 mm	1	K253.122064
5/16" x 18"	8,0 x 400 x 460 mm	1	K253.182064
5/16" x 23-1/2"	8,0 x 550 x 600 mm	1	K253.242064
3/8" x 4-1/4"	10,0 x 50 x 110 mm	1	K253.042464
3/8" x 4-1/4"	10,0 x 50 x 110 mm	10	K253.042464.10
3/8" x 6-1/4"	10,0 x 100 x 160 mm	1	K253.062464
3/8" x 6-1/4"	10,0 x 100 x 160 mm	10	K253.062464.10
3/8" x 6-1/4"	10,0 x 100 x 160 mm	25	K253.062464.25
3/8" x 8-1/4"	10,0 x 150 x 210 mm	1	K253.082464
3/8" x 10-1/4"	10,0 x 200 x 260 mm	1	K253.102464
3/8" x 12"	10,0 x 250 x 310 mm	1	K253.122464
3/8" x 14"	10,0 x 300 x 360 mm	1	K253.142464
3/8" x 16"	10,0 x 350 x 410 mm	1	K253.162464
3/8" x 18"	10,0 x 400 x 460 mm	1	K253.182464
3/8" x 23-1/2"	10,0 x 550 x 600 mm	1	K253.242464
3/8" x 39-1/4"	10,0 x 950 x 1,000 mm	1	K253.392464
15/32" x 6-1/4"	12,0 x 100 x 160 mm	1	K253.063064
15/32" x 8-1/4"	12,0 x 150 x 210 mm	1	K253.083064

### **SDS-PLUS MS5 TURBOKEIL**

D x L1 inch	D x L1 x L2 mm		12345
15/32" x 10-1/4"	12,0 x 200 x 260 mm	1	K253.103064
15/32" x 12"	12,0 x 250 x 310 mm	1	K253.123064
15/32" x 15-3/4"	12,0 x 350 x 400 mm	1	K253.163064
15/32″ x 17-3/4″	12,0 x 400 x 450 mm	1	K253.183064
15/32" x 23-1/2"	12,0 x 550 x 600 mm	1	K253.243064
15/32" x 39-1/4"	12,0 x 950 x 1,000 mm	1	K253.393064
1/2" x 6-1/4"	13,0 x 100 x 160 mm	1	K253.063264
1/2" x 6-1/4"	13,0 x 100 x 160 mm	10	K253.063264.10
1/2" x 10-1/4"	13,0 x 200 x 260 mm	1	K253.103264
9/16" x 6-1/4"	14,0 x 100 x 160 mm	1	K253.063664
9/16" x 8-1/4"	14,0 x 150 x 210 mm	1	K253.083664
9/16" x 10-1/4"	14,0 x 200 x 260 mm	1	K253.103664
9/16" x 12"	14,0 x 250 x 310 mm	1	K253.123664
9/16" x 17-38/4"	14,0 x 400 x 450 mm	1	K253.183664
9/16" x 23-1/2"	14,0 x 550 x 600 mm	1	K253.243664
9/16" x 39-1/4"	14,0 x 950 x 1,000 mm	1	K253.393664
5/8" x 6-1/4"	16,0 x 100 x 160 mm	1	K253.064064
5/8" x 8-1/4"	16,0 x 150 x 210 mm	1	K253.084064
5/8" x 10-1/4"	16,0 x 200 x 260 mm	1	K253.104064
5/8" x 12"	16,0 x 250 x 310 mm	1	K253.124064
5/8" x 15-3/4"	16,0 x 350 x 400 mm	1	K253.164064
5/8" x 17-3/4"	16,0 x 400 x 450 mm	1	K253.184064
5/8" x 23-1/2"	16,0 x 550 x 600 mm	1	K253.244064
5/8" x 31-1/2"	16,0 x 750 x 800 mm	1	K253.324064
5/8" x 39-1/4"	16,0 x 950 x 1,000 mm	1	K253.394064
3/4" x 10"	19,0 x 200 x 250 mm	1	K253.104864
3/4" x 17-3/4"	19,0 x 400 x 450 mm	1	K253.184864
7/8" x 10"	22,0 x 200 x 250 mm	1	K253.105664
7/8" x 17-3/4"	22,0 x 400 x 450 mm	1	K253.185664
7/8" x 23-1/2"	22,0 x 550 x 600 mm	1	K253.245664
7/8" x 39-1/4"	22,0 x 950 x 1,000 mm	1	K253.395664
1" x 10"	25,0 x 200 x 250 mm	1	K253.106464
1" x 17-3/4"	25,0 x 400 x 450 mm	1	K253.186464
1" x 39-1/4"	25,0 x 950 x 1,000 mm	1	K253.396464



#### Multipack SDS-plus MS5 TURBOKEIL

#### K253SET1

INCLUDE: 5/32 + 3/16 + 1/4 + 5/16 + 3/8

#### K253SET2

INCLUDE: 5/32 + 3/16 + 1/4 + 3/8 + 1/2

253



### **SDS-PLUS MS5 TURBOKEIL**

The new generation of KEIL hammer drills bit can be used for the hardest materials in all SDS-plus and HILTI TE-C hammer drilling machines.

TURBOKEIL with centering tip for precise drilling.

#### Features:

- Reinforced carbide centering tip
- Guided carbide plate
- Wide cutting angle
- Cleanliness of boreholes
- Precision drilling

# The MS5 spiral for an ergonomic and environmentally friendly workflow:

- High drilling speed
- Rapid evacuation of drilling dust
- High rigidity and long service life
- High breaking strength



Packaging



\* On request

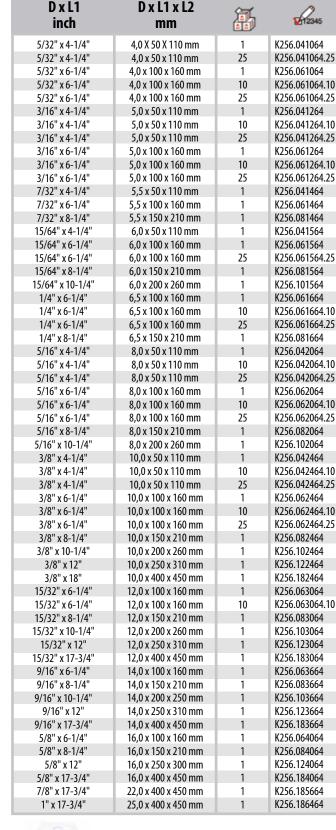


### 256

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



- 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 and HILTI TE-C



SDS-PLUS KEILRAPID BITS

#### Multipack SDS-plus KEILRAPID



#### **K256SET1** INCLUDE: 5/22 + 2/16 + 1/4 + 5/16 + 2/

INCLUDE: 5/32 + 3/16 + 1/4 + 5/16 + 3/8

**K256SET2** INCLUDE: 5/32 + 3/16 + 1/4 + 3/8 + 1/2

Packaging

\* On request



### **UNIVERSAL DRILL BIT GOLDCRAFT**



D x L1 inch	D x L1 x L2 mm	SHANK (d) mm	ħ	P12345
1/8" x 2-3/4"	3,0 x 40 x 70 mm	2,8	1	K119.030864
1/8" x 2-3/4"	3,0 x 40 x 70 mm	2,8	10	K119.030864.10
5/32" x 3"	4,0 x 40 x 75 mm	3,6	1	K119.031064
5/32" x 3"	4,0 x 40 x 75 mm	3,6	10	K119.031064.10
3/16" x 3-1/4"	5,0 x 50 x 85 mm	4,6	1	K119.031264
3/16" x 3-1/4"	5,0 x 50 x 85 mm	4,6	10	K119.031264.10
3/16" x 6"	5,0 x 110 x 150 mm	4,6	1	K119.061264
3/16" x 6"	5,0 x 110 x 150 mm	4,6	10	K119.061264.10
1/4" x 4"	6,5 x 60 x 100 mm	6,1	1	K119.041664
1/4" x 4"	6,5 x 60 x 100 mm	6,1	10	K119.041664.10
1/4" x 6"	6,5 x 110 x 150 mm	6,1	1	K119.061664
1/4" x 6"	6,5 x 110 x 150 mm	6,1	10	K119.061664.10
1/4" x 10"	6,5 x 200 x 250 mm	6,1	1	K119.101664
5/16" x 4-3/4"	8,0 x 80 x 120 mm	7,1	1	K119.042064
5/16" x 8"	8,0 x 135 x 200 mm	7,3	1	K119.082064
3/8" x 4-3/4"	10,0 x 80 x 120 mm	8,7	1	K119.042464
3/8" x 8"	10,0 x 135 x 200 mm	8,7	1	K119.082464
15/32" x 6"	12,0 x 90 x 150 mm	10,0	1	K119.063064
15/32" x 6"	12,0 x 90 x 150 mm	10,0	10	K119.063064.10
15/32" x 8"	12,0 x 135 x 200 mm	10,0	1	K219.083064
15/32" x 8"	12,0 x 135 x 200 mm	10,0	10	K219.083064.10
9/16" x 6"	14,0 x 90 x 150 mm	10,0	1	K119.063664
5/8" x 6"	16,0 x 90 x 150 mm	10,0	1	K119.064064
		1		-



D x L1 inch	D x L1 x L2 mm		12345
3/16" x 4-1/4"	5,0 x 50 x 110 mm	1	K119.041264 SDS
5/16" x 4-1/4"	8,0 x 50 x 110 mm	1	K119.042064 SDS
5/16" x 6-1/4"	8,0 x 100 x 160 mm	1	K119.062064 SDS
5/16" x 8-1/4"	8,0 x 150 x 210 mm	1	K119.082064 SDS
3/8" x 6-1/4"	10,0 x 100 x 160 mm	1	K119.062464 SDS
3/8" x 10-1/4"	10,0 x 200 x 260 mm	1	K119.102464 SDS
15/32" x 6-1/2"	12,0 x 100 x 165 mm	1	K119.063064 SDS
15/32" x 10-1/4"	12,0 x 200 x 260 mm	1	K119.103064 SDS
9/16" x 10-1/4"	14,0 200 x 265 mm	1	K119.103664 SDS

#### **GUIDE VALUE FOR GOLDCRAFT UNIVERSAL DRILL BITS**









ISO 5468

119

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- Special cutting edge geometry
  Diamond-ground carbide tip
  Universal drill with asymmetrical spiral shape
  Milled flute for optimum removal of drilling dust
- Straight flute entry
- High temperature brazing at 1,120°C
- Special cutting helix with micro surface hardness
- Ground surface









Masonry



PVC Acrylic

Soft wood

Hard wood

Glass Crystal





Tiles hard burnt brick

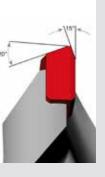
Application

In all rotary and percussion drilling machines

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

The very hard tungsten-titanium carbide tip makes the drill

extremely wear-resistant.



#### Instructions

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

KEIL









# NOTES







998 Jean-Neveu, Longueuil, Qc J4G 2M1
3 : 450-442-4232 / 1-800-442-2535 

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