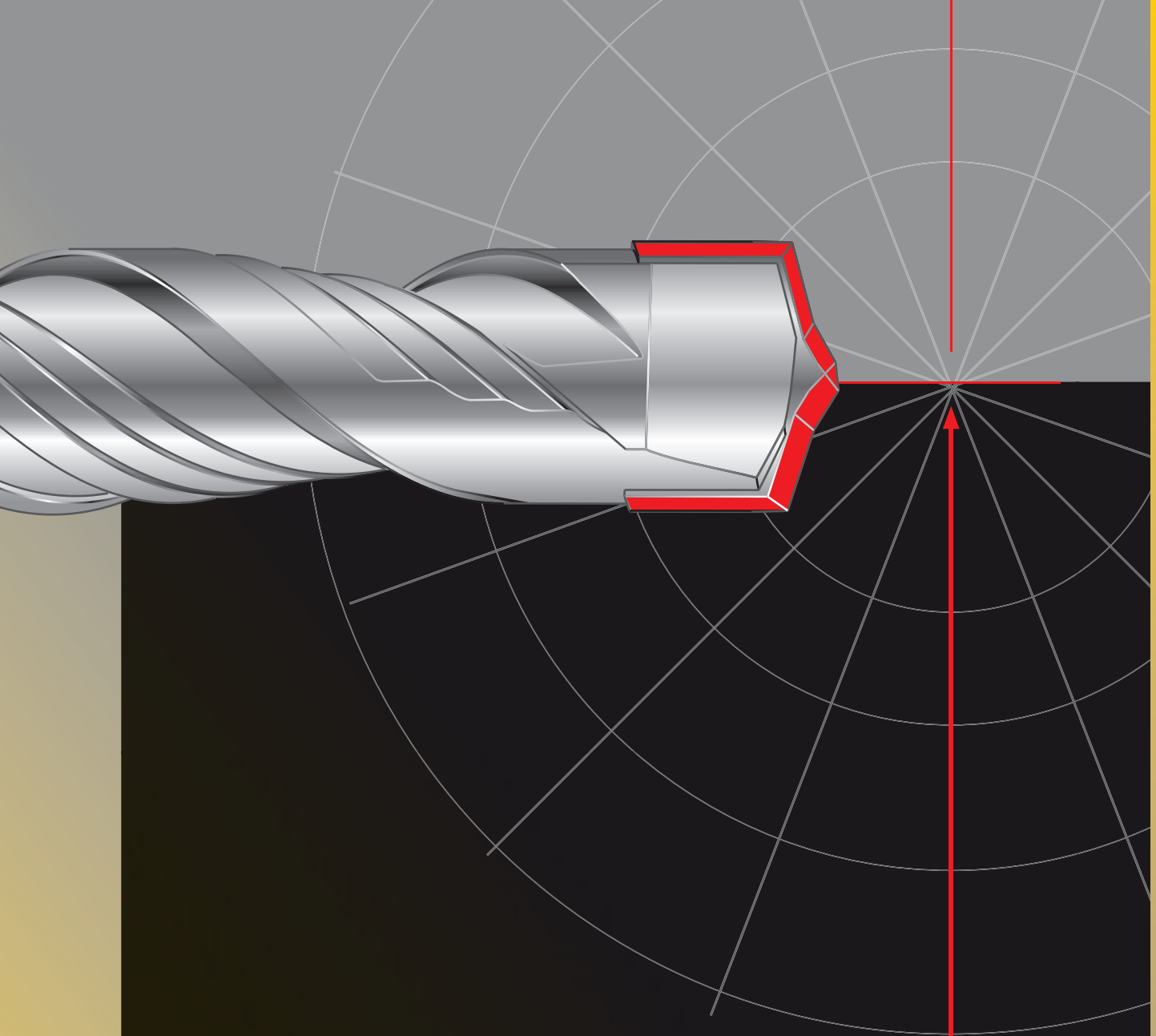

MS5 TURBOKEIL SDS-plus hammer drill bit	81
Tile / brick drill bit KERAMIK with TSM carbide tip	82
Tile drill bit / KERAMIK diamond	83
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Quality-assured Tools

Quality assurance

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 contitions provide new knowledge resulting in assurance and improvement of procedure as well as materials.

Zertifiziertes Qualitätsmanagementsystem
AGQS
DIN EN ISO 9001:2000

The PGM-mark is the quality guarantor

KEIL is authorized to use it, and is a founder member of PGM (1978)

You can identify quality drilling tools by the quality mark of the independent ‚Prüfgemeinschaft Mauerbohrer'. The quality mark guarantees the conformity of our drill bits with the requirements of the Institute for Structural Engineering concerning carbide tip masonry drill bits, which are used to make plug holes. Violation by non-qualified manufacturers is legally prosecuted

SICHERSAFE
PGM

The PGM-quality mark has worldwide trademark protection and stands for:

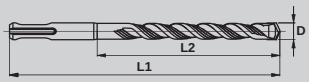
- Selective qualified manufactures
- Production and quality assurance state-of-the-art controlled by PGM
- Clear marking instructions
- Strict tolerance limits for the diameter, the symmetry of the carbide tip and the out-of-true variation

Advantages and guarantee

- Protect yourself against possible problems and claim for compensation which should 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 being controlled constantly and, therefore, they offer the importer, the distributor and most importantly the end user, safety and confidence in the tool. This guarantee is included free of charge when purchasing drill bits bearing the PGM-mark.
- You have no liability problems by only using drill bits with PGM-mark.

SDS-plus hammer drill bit MS5 TURBOKEIL

253



Drive

Execution

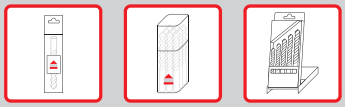
- Made of chrome-nickel-molybdenum steel, shot-peened and intermediate level hardened
- TURBOKEIL carbide plate with centring tip
- MS5 flute

For use in

Application

- Fits directly into all hammer drilling machines with SDS-plus and HILTI locking
- For drilling plug holes
- Particularly suitable for fastenings

Packaging



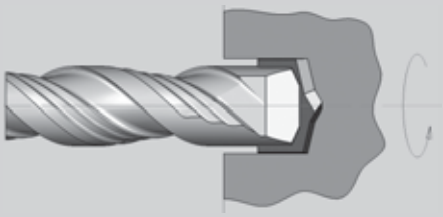
VP = 1 VP = 10 ▣87

SDS-plus hammer drill bit MS5 TURBOKEIL

D Ø mm	D Ø "	L2 mm	L1 mm		12345	€
5,0	3/16	50	110	10	253 950 115	
5,0	3/16	100	160	10	253 950 165	
6,0	15/64	50	110	10	253 960 115	
6,0	15/64	100	160	10	253 960 165	
6,0	15/64	150	210	10	253 960 210	
6,0	15/64	200	260	10	253 960 260	
8,0	5/16	50	110	10	253 980 115	
8,0	5/16	100	160	10	253 980 160	
8,0	5/16	150	210	10	253 980 215	
8,0	5/16	200	260	10	253 980 260	
10,0	3/8	50	110	10	253 900 110	
10,0	3/8	100	160	10	253 900 165	
10,0	3/8	150	210	10	253 900 210	
10,0	3/8	200	260	10	253 900 260	
10,0	3/8	250	310	1	253 100 310	
12,0	15/32	100	160	10	253 920 165	
12,0	15/32	150	210	10	253 920 215	
12,0	15/32	200	260	10	253 920 265	
14,0	17/32	100	160	10	253 940 165	
14,0	17/32	150	210	10	253 940 215	
14,0	17/32	200	265	10	253 940 265	
14,0	17/32	250	310	1	253 140 310	

Product information 253

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.

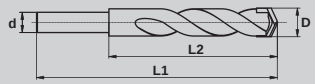
TURBOKEIL
With centring tip for the highest demands Keeps going - even through reinforced concrete

Features:

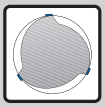
- Centring tip
- Guided Carbide plate
- Strengthened carbide tip
- Larger cutting angle

Tile / brick drill bit KERAMIK with TSM carbide tip

151



Drive



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
- Water cooling increases drilling progress and life of the drill bit.

Packaging

▣87 ▣87

Tile / brick drill bit KERAMIK with TSM carbide tip

D ø mm	D ø "	L2 mm	L1 mm	d ø mm		12345	€
4,0	5/32	40	75	3,6	10	151 918 040	
5,0	3/6	50	85	4,6	10	151 918 050	
6,0	15/64	60	100	5,6	10	151 918 060	
8,0	5/16	80	120	7,3	10	151 918 080	
10,0	3/8	80	120	8,7	10	151 918 100	
12,0	15/32	90	150	10,0	10	151 918 120	

Product information 151

Tile / brick drill bit KERAMIK with TSM carbide tip

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 grind 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 info:

- 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.

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 for the drill bit.

ROTASTOP =

- **Optimal torsional rigidity**
- **Low frictional losses**
- **High drilling performance**

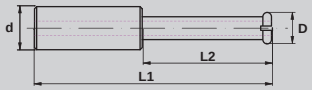
Product information ROTASTOP:

Strength from the contour. The new performance shank for optimum torque

- An unmatched 99 % of the contour of the **ROTASTOP** tool bit ensures optimum transmission of the torque **ROTASTOP** practically chucks itself automatically by means of the rising contours.
- The result: No slipping in the chuck and precise results when machining metals.
- **ROTASTOP** allows easy tool changing within seconds and longer service lives for the tools

Tile drill bit / KERAMIK diamond

786

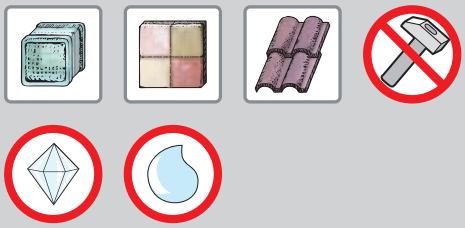


Drive

Execution

- Brazed diamonds

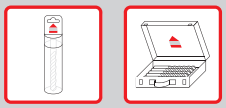
For use in



Application

- In all rotary and percussion drilling machines
- 20 seconds cooling time, possibly cleaning
- Only for rotary use
- In materials up to scratch hardness of 9
- Always use with water

Packaging



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Comments

- 1 - Spray bottle with 100 mm filling capacity for simple and efficient supply of cooling liquid during drilling progress for example in walls
- 2 - Vacuum water pump bottle for the free-handed cooling liquide supply with possible connection to both templates
- 3 - Vacuum guid small Ø 4 - 13 mm optimal for upright drilling
- 4 - Variable vacuum guid, continously adjustable template for Ø up to 83 mm.

Tile drill bit / KERAMIK diamond

D ø mm	L1 mm	d ø mm		12345	€
5,0	55	10,0	1	786 000 050	
6,0	55	10,0	1	786 000 060	
8,0	55	10,0	1	786 000 080	
10,0	55	10,0	1	786 000 100	
12,0	55	10,0	1	786 000 120	
15,0	55	10,0	1	786 000 150	
20,0	55	10,0	1	786 000 200	

Accessories for tile drill bit KERAMIK diamond

№		12345	€
1	1	786 100 000	
2	1	786 100 002	
3	1	786 200 000	
4	1	786 200 001	

Tile drill bit / KERAMIK diamond

Product information 786

Tile drill bit KERAMIK diamond

For the hardest material, hard stoneware tiles, roofing tiles, glass, marble, porcelain quality 5, granite and slate.

Advantages:

- Quick drilling progress
- Long tool life
- Clean cuting edges
- Simple drilling core emission

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.

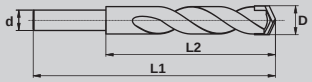
The tile drill bit KERAMIK diamond is the ideal drilling tool to apply safety and effectively a clean and precise hole. The advantage of this core drill bit is the long tool life and the speediness of the drilling process.

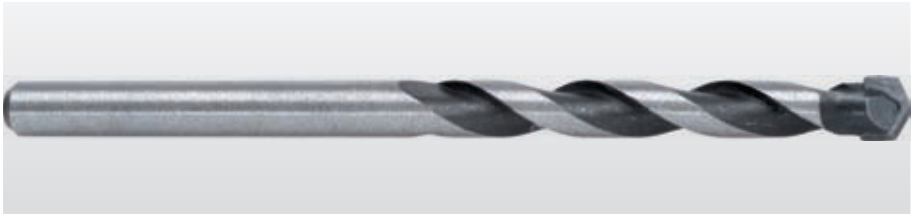
The core drill bits are completed by professional accessories which guarantee that the boring will be set on the exact place where it was planned. By use of the two available vacuum drilling guides with their big vacuum cups the core drill bit has a secure hold for precise drilling. Together with the water supply KEIL offers a complete system.

D ø mm	/min
5	1.800
6	1.600
8	1.400
10	1.200
12	1.000
15	800
20	600
25	450

Granite drill bit PRIMUS

154



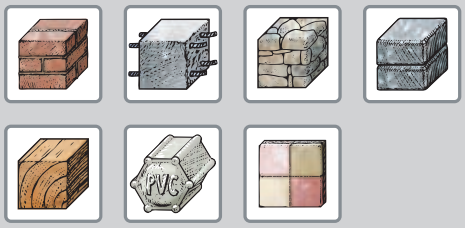


Drive

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

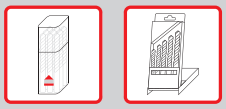
For use in



Application

- In all rotary and percussion drilling machines

Packaging



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Granite drill bit PRIMUS

D Ø mm	D Ø "	L2 mm	L1 mm		12345	€
4,0	5/32	40	75	10	154 904 075	
5,0	3/16	50	85	10	154 905 085	
6,0	15/64	60	100	10	154 906 100	
8,0	5/16	80	120	10	154 908 120	
10,0	3/8	80	120	10	154 910 120	
12,0	15/32	90	150	10	154 912 150	

Product information 154

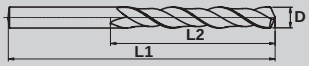
Granite drill bit PRIMUS

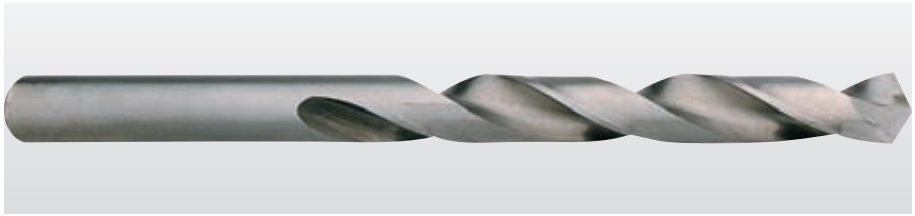
KEIL came top in 'Heimwerker-Praxis' magazine's giant practical test. It was a convincing demonstration of the excellent quality of our PRIMUS granite drill bit and confirmed its ability to go the distance, in prime condition, making it a justified test winner.

QUOTE:
„KEIL have not exaggerated: The PRIMUS got its name justifiably!" 'Heimwerker-Praxis' is the popular german tool-test-magazine.

HSS DIN 338 ground, split point

302





Drive

Execution

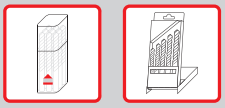
- Profile-ground
- Right-hand cutting, type N
- Material No.1.3343 = DM 05
- High-performance high-speed steel
- Ground from the solid
- Short, cylindrical
- 118° conical section
- Cross-ground finish to DIN 1412 C (from ø 3,0 mm)
- Diametral tolerance h8

For use in

Application

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

Packaging



88

HSS DIN 338 ground, split point

D ø mm	L2 mm	L1 mm	d ø mm			€
1,00	12	34	1,0	10	302 000 100	
1,50	18	40	1,5	10	302 000 150	
2,00	24	49	2,0	10	302 000 200	
2,50	30	57	2,5	10	302 000 250	
3,00	33	61	3,0	10	302 000 300	
3,30	36	65	3,3	10	302 000 330	
3,50	39	70	3,5	10	302 000 350	
4,00	43	75	4,0	10	302 000 400	
4,10	43	75	4,1	10	302 000 410	
4,50	47	80	4,5	10	302 000 450	
5,00	52	86	5,0	10	302 000 500	
5,30	52	86	5,3	10	302 000 530	
5,50	57	93	5,5	10	302 000 550	
5,70	57	93	5,7	10	302 000 570	
5,80	57	93	5,8	10	302 000 580	
6,00	57	93	6,0	10	302 000 600	
6,50	63	101	6,5	10	302 000 650	
7,00	69	109	7,0	10	302 000 700	
7,50	69	109	7,5	10	302 000 750	
8,00	75	117	8,0	10	302 000 800	
8,50	75	117	8,5	10	302 000 850	
9,00	81	125	9,0	10	302 000 900	
9,50	81	125	9,5	10	302 000 950	
10,00	87	133	10,0	10	302 001 000	

Product information 302

HSS DIN 338 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 for through-holes
- High fracture strength and long life
- Reduced friction through tapered external diameter to the shank direction
- Higher breaking strength through conically reinforced drilling core
- Long operating time and fast drilling progress through chemical thermal method of hardening and accurate cross-ground finish

RoseBox
SDS-plus hammer drill bit MS5 TURBOKEIL

253

	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	253 500 512		

RoseBox
Tile / brick drill bit KERAMIK with TSM carbide tip

151

	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	151 501 412		

Plastic case
Tile drill bit / KERAMIK diamond

786

		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
KERAMIK Diamond	1	6,0		55
KERAMIK Diamond	1	8,0		55
KERAMIK Diamond	1	10,0		55
Spray bottle 100ml (empty)	1			
Vacuum guide small 4-13mm	1			

8	1	786 151 008		

RoseBox
Granite drill bit PRIMUS

154

	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	154 501 412		

Assortments

RoseBox
HSS DIN 338 ground, split point

302

	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	302 501 110	

Multi-purpose saw

100

Execution

- Saw with folding blade
- Replaceable saw blade

For use in

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

Multi-purpose saw

mm	X/„		12345	€
210	9	1	100 105 427	

Product information 100

Multi-purpose saw

RESULT:
PRECISE WORKING

- Extremely fast work
- Easy starting of cut
- 3 cutting edges
- Controlled cut
- Cross and rip cutting
- Smooth cut face

USE
MADE EASY

- If the shark saw is used correctly, you will require only 20% of the force to saw 5 times more than with conventional saws. And this is how…:
- Clamp the work piece or provide a firm support with stop in the direction of the pull.
- Check the workn piece for obstructions (screws, nails, etc.). These may damage the saw permanently.
- Maintain a cutting angle of less than 10°.
- The weight of the saw starts 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 fold up the saw after use. This ensures a long life of the shark saw.
- Store the saw safely away from children.