

# ***ACCESSORIES FOR DRILLS***



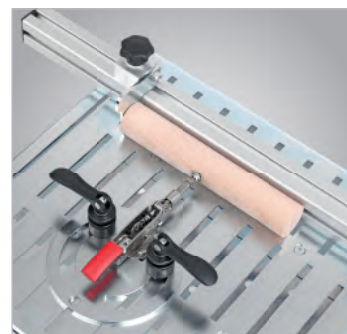




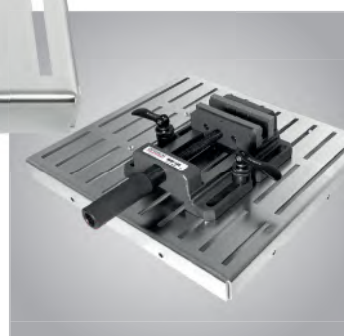
## Accessories for drills

### Clamping plate with 720 mm stop rail, ideal for any drilling table

- › Quickly and easily fitted on the machine tables of drilling or milling machines
- › Clamping elements and stop modules can be freely positioned and clamped without tools
- › The optional table extension is attached to the side mounting rails and extends the clamping plate to the left, right or front



**Adapter platen**  
with clamp, horizontal



**Machine vice**  
clamped



**Stop rail**  
clamped

Accessories	Clamping plate	Contents of package
Article no.	5190015	› Clamping plate
Dimensions (L x W x H)	450 x 400 x 50 mm	› Mounting support
Net weight	8,9 kg	› Stop rail 720 mm
		› Two clamping elements

## Accessories



Accessories	Article no.
<b>Collet chuck set</b>	
<b>MT 2/ ER 25 - M10</b>	3352052
<ul style="list-style-type: none"> <li>› Collet chuck</li> <li>› 15 spring collets; sizes Ø 1.5 - Ø 16 mm/DIN ISO 15488</li> <li>› Hook spanner, aluminium case</li> </ul>	
<b>MT 2/ ER 32 - M10</b>	3352053
<ul style="list-style-type: none"> <li>› Collet chuck</li> <li>› 18 spring collets; sizes Ø 2 - Ø 20 mm/DIN ISO 15488</li> <li>› Hook spanner, aluminium case</li> </ul>	
<b>MT 3/ ER 32 - M12</b>	3352093
<ul style="list-style-type: none"> <li>› Collet chuck</li> <li>› 18 spring collets; sizes Ø 2 - Ø 20 mm/DIN ISO 15488</li> <li>› Hook spanner, aluminium case</li> </ul>	
<b>MT 4/ ER 32 - M16</b>	3352094
<ul style="list-style-type: none"> <li>› Collet chuck</li> <li>› 18 spring collets; sizes Ø 2 - Ø 20 mm/DIN ISO 15488</li> <li>› Hook spanner, aluminium case</li> </ul>	



<b>OPTIMUM Precision quick release chuck</b>	
Concentricity better than 0.06 mm	
<b>1 - 8 mm; B16</b>	3050608
<b>1 - 10 mm; B16</b>	3050610



<b>OPTIMUM Direct quick release chuck</b>	
<b>MT 2 1 - 16 mm; up to 6 000 rpm</b>	3050571
<b>MT 2 1 - 13 mm; up to 8 000 rpm</b>	3050572
<b>MT 3 1 - 16 mm; up to 6 000 rpm</b>	3050573
<b>MT 4 1 - 16 mm; up to 6 000 rpm</b>	3050574



Accessories	Article no.
<b>Thread tapping chuck with quick-change inserts</b>	
Note: The square size depends on the shank diameter of the manual thread tapping bit (DIN standard)	
<b>MT 2;</b> sizes M3 - M12	3050702
<b>MT 3;</b> sizes M3 - M12	3050705
<b>MT 4;</b> sizes M3 - M12	3050709
› M3 - M12	
<b>MT 3;</b> sizes M8 - M20	3050706
<b>MT 4;</b> sizes M8 - M20	3050710
› M8 - M20	



Therm드릴 collet chuck	3060007
› B16 - ER32	



<b>Quick change adapter with B16 collet</b>	
<b>Thread tapping chuck small (M3 - M12)</b>	3050715
<b>Thread tapping chuck large (M8 - M20)</b>	3050716



<b>Quick release chuck</b>	
<b>DKC13 / 0-13 mm 4 800 rpm</b>	3050632
<b>DKC16 / 0-16 mm 4 000 rpm</b>	3050633



## Accessories for drills

Accessories	Article no.
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### Assortment of clamping tools size

- › Metric thread
  - › 58-part: 24 pull studs, 6 T-slot nuts, 6 nuts, 4 extension nuts, 6 step blocks, 12 clamping blocks
- |  |         |
|--|---------|
| <b>Size 8</b>                            | 3352015 |
| › T-slot nuts 10 mm; locking thread M 8  |         |
| <b>Size 10</b>                           | 3352016 |
| › T-slot nuts 12 mm; locking thread M10  |         |
| <b>Size 12</b>                           | 3352017 |
| › T-slot nuts 14 mm; locking thread M12  |         |
| <b>Size 14</b>                           | 3352018 |
| › T-slot nuts 16 mm; locking thread M 14 |         |
| <b>Size 16</b>                           | 3352019 |
| › T-slot nuts 18 mm; locking thread M16  |         |



### T-slot nut (individual)

Type	a	E	h	K	
M8 x 10	9.7	15	12	6	3353020
M10 x 12	11.7	18	14	7	3353022
M12 x 14	13.7	22	16	8	3353025
M12 x 16	15.7	25	18	9	3353024
M14 x 16	15.7	25	18	9	3353026
M16 x 18	17.7	28	20	10	3353028



### Twist drill HSS with morse taper

- › 9-part; 14.5/16/18/20/22/24/26/28/30 mm
- › Long service life.
- › Good chip removal
- › Right handed

<b>MT 2</b>	3051002
<b>MT 3</b>	3051003



Accessories	Article no.
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### Twist drill set

- › As per DIN 338 HSS-CO 5 %
  - › Tetrahedral 135° split point allows for excellent self-centring
  - › Improved tool service life thanks to alloyed components
  - › High speed/feed properties
  - › Strong core design optimises the structural strength of the bit and minimises the risk of bit breakage
  - › Practical OPTIMUM plastic case
- |                                    |         |
|------------------------------------|---------|
| <b>25-part</b>                     | 3201010 |
| › 1- 13 mm                         |         |
| <b>51-part</b>                     | 3201020 |
| › 1 - 6 mm (in 0.1 mm increments)  |         |
| <b>41-part</b>                     | 3201021 |
| › 6 - 10 mm (in 0.1 mm increments) |         |



Fig. Spiral drill bit set 5-part

Conical counterbore set	3201050
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- › As per standard DIN 335C
- › HSS
- › 6-part: 6/8/10/11.5/15/19 mm
- › Premium conical counterbores Burrs are nicely chamfered and removed without causing scratches
- › Compatible with popular battery-powered screwdrivers and drills, including upright drilling machines
- › Practical OPTIMUM plastic case



Accessories	Article no.
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Spot facer set	3201051
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- › As per standard 373
- › 6-part: for M3 / M4 / M5 / M6 / M8 / M10 mm screws
- › HSS
- › Piloted counterbore size 6.5 x 3.2 mm / 8 x 4.3 mm / 10 x 5.3 mm / 11 x 6.4 mm / 15 x 8.54 mm / 18 x 10.5 mm
- › Fine grade for countersinking screws and nuts as per DIN 74
- › Practical OPTIMUM plastic case



Step drill bit set	3201055
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- › 3-part: 3 - 14 mm / 8 - 20 mm / 16 - 30.5 mm
- › HSS
- › With sharp tip, no pre-drilling required
- › Conically rising blades and radially undercut circumference for peeling action
- › Drilling without burr and chatter marks
- › Uses: Steel sheet 0.1 - 2 mm, stainless steel (V2A) 0.1 - 1 mm, non-ferrous metals 0.1 - 5 mm, plastics - 10 mm
- › Practical OPTIMUM plastic case



Step drill bit set	3201056
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- › 3-part: 4 - 12 mm / 12 - 20 mm / 20 - 30 mm
- › HSS
- › Drilling and deburring cylindrical holes in materials up to 4 or 6 mm thickness.
- › Shank with three clamping surfaces
- › Drill step increment 1 mm
- › Practical OPTIMUM plastic case



Accessories	Article no.
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Thread repair assortment	3202010
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- › 5 units twist drill bit (5.2 mm/6.3 mm/8.3 mm/10.4 mm/12.4 mm)
- › 5 units thread tap: (M5 / M6 / M8 / M10 / M12)
- › 5 units inserter for threaded inserts
- › 5 units tang breaker
- › 100 units threaded inserts: 25 units each M5x0.8 mm / M6x1.0 mm / M8x1.25 mm / M10x1.5 mm
- › 10 units threaded insert: M12x1.75 mm
- › For repairing defective threads
- › For reinforcing the thread on materials with a low shear strength
- › Practical OPTIMUM metal case



Drilling and thread tapping set	3202015
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- › Through bore
- › HSS
- › 15-part
- › 7 units thread tap: M3 / M4 / M5 / M6 / M8 / M10 / M12
- › 7 units spiral bit DIN 338; Ø2.5 mm / Ø3.3 mm / Ø4.2 mm / Ø5.0 mm / Ø6.8 mm / Ø8.5 mm / Ø10.2 mm
- › Tap wrench DIN 1814 size 1½
- › Practical OPTIMUM plastic case



## Accessories for drills

Accessories	Article no.
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Reduction sleeve	
MT 3 - MT 2	3050663
MT 4 - MT 3	3050664
MT 4 - MT 2	3050665



Morse taper with adapter B16	
MT 2	3050659
MT 3	3050660
MT 4	3050661
MT 5	3050675
MT 6	3050676



Extension adapter	
MT 2 - MT 3	3050667
MT 3 - MT 4	3050668



Taper drill punch	
MSP 1 for MT 1 to MT 3	3050636
MSP 2 for MT 4 to MT 6	3050637



Accessories	Article no.
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Thread tapping chuck M5 - M12	
	3352042

- > Quick reverse built-in, immediately effective on changing the feed direction
- > Slip clutch 4-stage adjustable
- > With collet B16

#### Scope of delivery:

- > 2 units flexible spring collet
- > 2 units flat spanner
- > \* Allen key



Hold-down unit set of 2	
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- > Clamping height adjustable
- > Brass plate below clamping arm protects material against damage

Table groove 14 mm/M12	3352031
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- > L x W x H: 115 x 42 x 39 mm
- > Height adjustment: 0 - 89 mm

Table groove 18 mm/M 16	3352032
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- > L x W x H: 133 x 50 x 49 mm
- > Height adjustment: 0 - 101 mm






AQUACUT C1	3530030
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- > 10 litre cannister
- > For mixing emulsions
- > Drilling and cooling emulsion
- > High-pressure resistant and containing mineral oil, for long tool life and clean surfaces
- > Emulsifiable with water, microbe-resistant and kind to the skin



You will find more coolant accessories from page 321

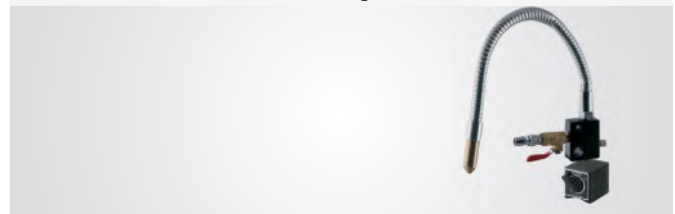


	Designation	Size	Article no.
	<b>Coolant hoses basic equipment</b> <b>1/4" - No. 1</b> <ul style="list-style-type: none"> <li>&gt; 8 units articulated hose 150 mm</li> <li>&gt; 2 units each round nozzle 1/16" / 1/8" / 1/4",</li> <li>&gt; 2 units NPT coupling 1/4" and 1/8",</li> <li>&gt; 1 unit flat nozzle,</li> <li>&gt; 1 unit Y-distributor,</li> <li>&gt; 2 units shut-off valve inside and outside,</li> <li>&gt; 2 units shut-off valve inside - 1/4",</li> <li>&gt; 2 units NPT extension,</li> <li>&gt; 1 unit magnetic base, 1 unit flexible sealing tape</li> </ul>	1/4"	3356704
	<b>Coolant hoses basic equipment</b> <b>1/4" - No. 2</b> <ul style="list-style-type: none"> <li>&gt; 6 units articulated hose 150 mm</li> <li>&gt; 2 units each round nozzle 1/16" / 1/8" / 1/4",</li> <li>&gt; 2 units each NPT coupling 1/4" and 1/8",</li> <li>&gt; 5 units flat nozzle,</li> <li>&gt; 4 units 90° nozzle,</li> <li>&gt; 1 unit Y-distributor,</li> <li>&gt; 1 unit shut-off valve, inside and outside,</li> <li>&gt; 1 unit shut-off valve, inside - 1/4"</li> <li>&gt; 1 unit grips</li> </ul>	1/4"	3356705
	<b>Coolant hoses basic equipment</b> <b>1/2" - No. 1</b> <ul style="list-style-type: none"> <li>&gt; 6 units articulated hose 150 mm</li> <li>&gt; 2 units each round nozzle 1/2" / 3/8" / 1/4",</li> <li>&gt; 2 units each NPT coupling 1/4" and 1/2",</li> <li>&gt; 1 unit flat nozzle,</li> <li>&gt; 3 units 90° round nozzle 1/2" / 3/8" / 1/4",</li> <li>&gt; 1 unit Y-distributor,</li> <li>&gt; 1 unit shut-off valve, inside and outside,</li> <li>&gt; 1 unit shut-off valve, inside - 1/2"</li> <li>&gt; 1 unit grips</li> </ul>	1/2"	3356800

Universal coolant unit	3351999
> Connection 100W 230 V ~50 Hz	
> Delivery height max. 2.5 m	
> Delivery volume 3.5 litres per minute	
> Tank capacity 11 litres	
> Size L x W x H: 375 x 250 x 260	
> Complete with tank, flexible tube, hose and switch/plug combination	
> Magnetic base fastener for coolant hose	



Coolant mist lubricator MMC1	3356663
> Magnetic base with a holding force of 75 kg	
> Base size L x W x H: 62 x 50 x 55 mm	
> Screw connection for external compressed air supply	
> Flexible and stable hose with a length of 500 mm	



Coolant hose KMS 2	3356660
> Insensitive to most solvents and chemicals	
> Not electrically conductive	
> Magnetic base holding force up to 50 kg	
> Length of coolant hoses each 335 mm	
> Hose connection 6 mm	
> Coolant hoses 1/4"	



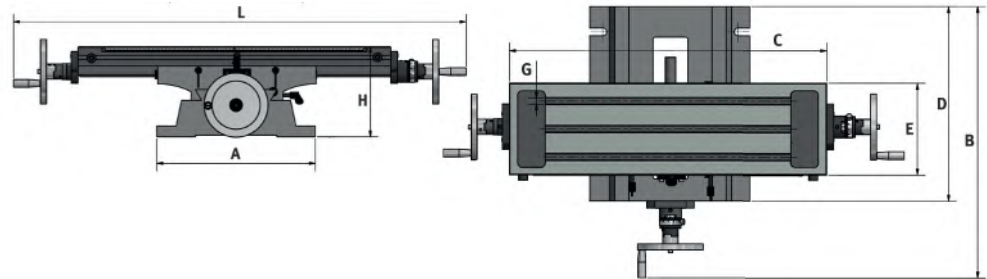
## Accessories for drills

### Cross tables KT

#### Facts that impress in terms of quality, performance and price

- ▶ Coolant channel
- ▶ Dovetail guide adjustable
- ▶ Handwheels right, front and left - for model KT 120 only right and front
- ▶ Adjustable handwheel scaling with 0.05 mm scale

Technical data	KT 120	KT 179	KT 180	KT 210
A (Base width)	222 mm	274 mm	274 mm	280 mm
D (base length)	280 mm	340 mm	340 mm	362 mm
C (table length)	400 mm	500 mm	700 mm	730 mm
E (table width)	120 mm	180 mm	180 mm	210 mm
G (T-slot size)	10 mm	12 mm	12 mm	14 mm
Length x width x height	506 x 400 x 140 mm	748 x 483 x 155 mm	948 x 483 x 155 mm	1 060 x 538 x 185 mm
Net weight	22 kg	40 kg	52 kg	84 kg
<b>Strokes</b>				
X axis	220 mm	287 mm	480 mm	480 mm
Y axis	165 mm	167 mm	170 mm	210 mm
Max. load	40 kg	55 kg	55 kg	80 kg

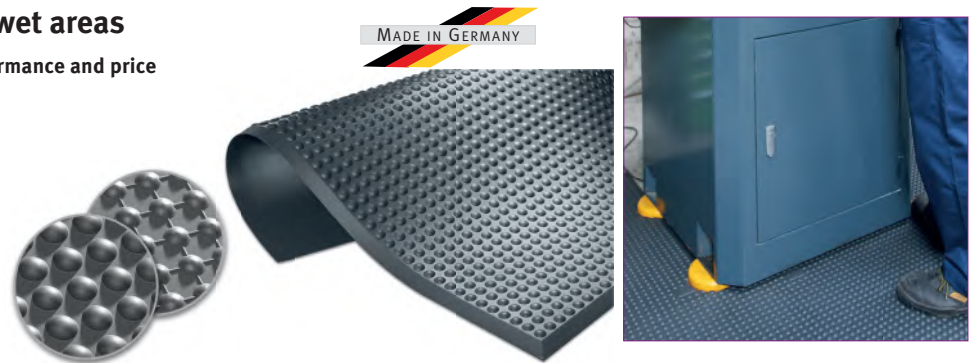


Cross tables KT	Article no.
KT 120	3356595
KT 179	3356596
KT 180	3356591
KT 210	3356600

### Workplace mats – for dry and wet areas

#### Facts that impress in terms of quality, performance and price

- ▶ Thickness 14 mm
- ▶ Colour anthracite
- ▶ Temperature resistant from -35°C to +95°C
- ▶ Fire-resistant B1 as per DIN 4102
- ▶ Made of polyurethane on polyether basis
- ▶ Surface: nubbed
- ▶ Underside: nubbed for maximum standing comfort and slip resistance
- ▶ 5-year warranty



Work mat	Size: 1,840 x 640 mm	Size: 1,840 x 940 mm	Size: 3,040 x 640 mm	Size: 3,040 x 940 mm
Article no.	6800000	6800005	6800001	6800006
Net weight	6 kg	9 kg	10.5 kg	15 kg

### MSU 3 / MSU 4 - Universal machine and tool trolley

#### Facts that impress in terms of quality, performance and price

- ▶ All three ball bearing mounted drawers can be operated with full extension and are equipped with a stop at the end to prevent accidental opening when shunting or transporting
- ▶ Stable design
- ▶ Lockable with cylinder lock



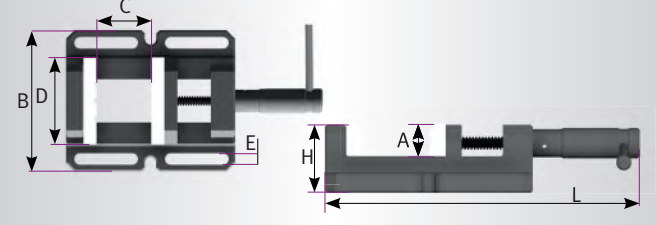
Model	MSU 3	MSU 4
Article no.	3352990	3352991
Load bearing capacity	max. 500 kg	max. 500 kg
Load bearing capacity per drawer	max. 45 kg	max. 45 kg
Dimensions LxWxH	650 x 655 x 620 mm	650 x 655 x 800 mm
Net weight	47 kg	55.5 kg

**Machine vices BME** Article no.

- › Easy action
- › Precise jaw guidance
- › Spindle with rolled trapezoid thread
- › Many assembly options on drill table thanks to slots



<b>BME 85</b>	3052630
<b>BME 100</b>	3052632
<b>BME 120</b>	3052634
<b>BME 150</b>	3052636



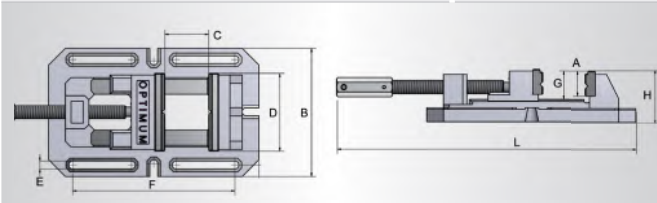
Tech. data	A	C	D	E	L	B	H	kg	
BME 85	mm	30	69	85	12	235	132	58	2.8
BME 100	mm	30	100	100	14	288	160	60	4.0
BME 120	mm	30	120	120	14	327	180	63	5.0
BME 150	mm	30	165	150	14	428	220	70	8.0



**Machine vices BSI** Article no.

- › Drill vices in industrial quality
- › Replaceable prism jaws
- › Long guides on moving jaw prevent pivoting
- › Precision ground prism jaws
- › Many assembly options on drill table thanks to slots
- › Premium grey cast
- › Scraped guide surfaces

<b>BSI 100</b>	3000210
<b>BSI 140</b>	3000214
<b>BSI 200</b>	3000220



Tech. data	A	C	D	E	F	G	L	B	H	kg	
BSI 100	mm	35	110	100	12	216	40	max. 460	170	74	8.7
BSI 140	mm	45	150	140	14	290	50	max. 610	230	93	18
BSI 200	mm	58	200	200	16	406	64	max. 788	290	118	37

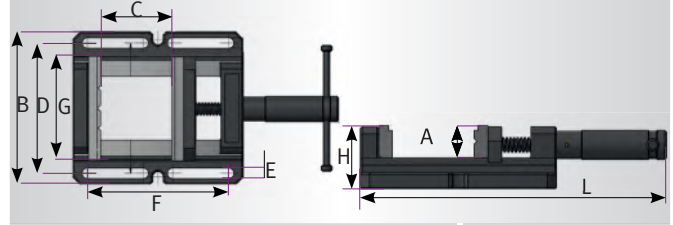


**Machine vices BMP** Article no.

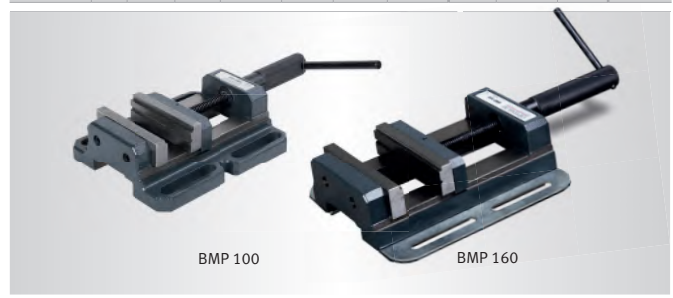
- › Easy action
- › Rugged design with prism jaws
- › Spindle with rolled trapezoid thread
- › Many assembly options on drill table thanks to slots



<b>BMP 100</b>	3052610
<b>BMP 130</b>	3052613
<b>BMP 160</b>	3052616
<b>BMP 200</b>	3052620



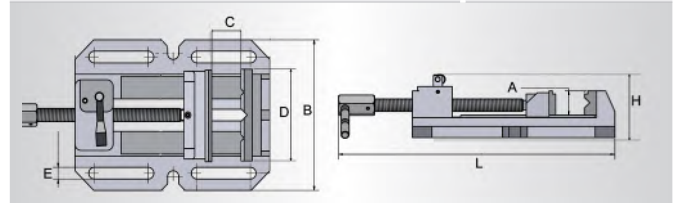
Tech. data	A	G	C	D	E	F	L	B	H	kg	
BMP 100	mm	30	100	100	133	13	165	294	162	64	5.6
BMP 130	mm	35	130	120	163	13	177	334	192	69	7.4
BMP 160	mm	40	160	145	205	13	200	420	250	77	13
BMP 200	mm	50	200	195	245	14.5	280	535	290	87	21.6



**Machine vices BSI-Q** Article no.

- › Drill vices in industrial quality
- › Quick clamping thanks to quick release
- › Replaceable prism jaws
- › Long guides on moving jaw prevent pivoting
- › Precision ground prism jaws
- › Many assembly options on drill table thanks to slots
- › Premium grey cast . Scraped guide surfaces

<b>BSI-Q 100</b>	3000230
<b>BSI-Q 140</b>	3000234
<b>BSI-Q 200</b>	3000240



Tech. data	A	C	D	E	L	B	H	kg	
BSI-Q 100	mm	30	105	100	12	max. 335	150	95	5.5
BSI-Q 140	mm	40	155	140	14	max. 415	200	100	10.7
BSI-Q 200	mm	55	220	200	16	max. 525	275	125	20.2



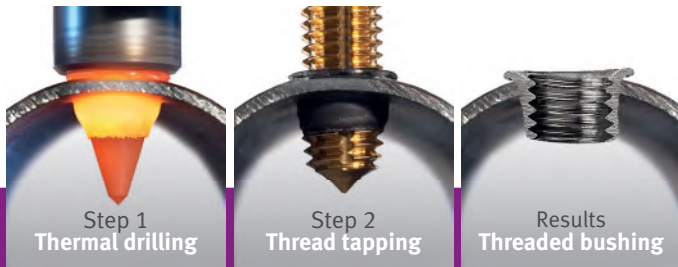
The solution for loose rivet nuts

Secure threaded connection for thin wall thicknesses

# THERMDRILL®

Verbindungstechnik – Made in Germany

The Thermdrill® method



In thermal drilling, the friction heat from the existing material is used to create an anti-twist protected bushing without material removal in which a thread is then tapped.

- ▶ For aluminium, brass, copper, steel, stainless steel as of 1.0 mm wall thickness
- ▶ For use with milling cutters, CNC systems and post drills

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- ✓ Cost savings
- ✓ Time savings
- ✓ Maximum safety

**1 Thermal drill**

**SHAPE**  
For bushes with collars

**CUT**  
For bushes without collars

▶ Made of solid carbide with a special polygon grind

Please note: Important!

Size	Design	Material thickness (max.)	Art. no.	Material thickness (max.)	Art. no.
M4	short	1.5 mm	3060104	2.0 mm	3060164
	long	2.5 mm	3060124	4.0 mm	3060144
M5	short	2.0 mm	3060105	3.0 mm	3060165
	long	3.0 mm	3060125	4.5 mm	3060145
M6	short	2.0 mm	3060106	3.0 mm	3060166
	long	3.5 mm	3060126	5.0 mm	3060146
M8	short	2.5 mm	3060108	4.0 mm	3060168
	long	4.0 mm	3060128	6.0 mm	3060148
M10	short	2.5 mm	3060110	4.0 mm	3060170
	long	4.5 mm	3060130	6.5 mm	3060150
M12	short	2.5 mm	3060112	4.0 mm	3060172
	long	4.5 mm	3060132	6.5 mm	3060152

Other thread sizes available (also in metric fine and pipe threads)

**Tool set = Thermal drill + thread tapper**

Type <b>SHAPE</b>				Type <b>CUT</b>	
Size	Design	Material thickness (max.)	Art. no.	Material thickness (max.)	Art. no.
M4	short	1.5 mm	3060024	2.0 mm	3060044
	long	2.5 mm	3060034	4.0 mm	3060054
M5	short	2.0 mm	3060025	3.0 mm	3060045
	long	3.0 mm	3060035	4.5 mm	3060055
M6	short	2.0 mm	3060026	3.0 mm	3060046
	long	3.5 mm	3060036	5.0 mm	3060056
M8	short	2.5 mm	3060028	4.0 mm	3060048
	long	4.0 mm	3060038	6.0 mm	3060058
M10	short	2.5 mm	3060030	4.0 mm	3060050
	long	4.5 mm	3060040	6.5 mm	3060060
M12	short	2.5 mm	3060032	4.0 mm	3060052
	long	4.5 mm	3060042	6.5 mm	3060062

Other thread sizes available (also in metric fine and pipe threads)

**2 Thread tapper**

with TiN coating and lubricant grooves tolerance 6HX Form C

▶ Legacy tool fittings can be used

Size	Art. no.
M4 x 0.7	3060184
M5 x 0.8	3060185
M6 x 1.0	3060186
M8 x 1.25	3060188
M10 x 1.25	3060190
M12 x 1.25	3060192

**Product features**

The details are guide values for application in steel

Size	Rotational speed		Motor output		Rotational speed
	min	ideal	mm	kW	
M4	2300	2600	up to 1.5	1.0	1000
			up to 4.0	1.5	
M5	2200	2500	3.0	1.0	800
			4.5	1.5	
M6	2000	2400	4.0	1.5	650
			5.0	2.0	
M8	1600	2200	4.0	1.5	500
			6.0	2.0	
M10	1500	2000	3.0	1.5	400
			5.0	2.0	

Speed adjustment stainless steel -10%, aluminium +40% (applies to thermal drilling)

**3 Basic equipment** NEW

**Thermdrill Basic Set** 3060004

Contents:

- ▶ Open-ended and cable spanner
- ▶ Tool holder with cooling ring MT 3
- ▶ MT 3 - Adapter with morse taper B16
- ▶ MT 2 - Adapter with morse taper B16
- ▶ Spring collets (Ø 6/8/10/12 mm)
- ▶ Case

**Quick change adapter**

small (M3-M12)	3050715
large (M8-M20)	3050716

Quick change adapter with B16 collet for thread tapping collet

**Collet chuck B16**

3060007

**Thread tapping oil, 1 litre**

3060092

- ▶ Including brush
- ▶ High-performance oil specially for thread tapping in alu, CU, CUSN, steel, stainless

**THERMDRILL Paste, 1 kg**

3060090

- ▶ Including brush
- ▶ Protection against excessive wear.