

MAXION®

Jänsch & Ortlepp GmbH



*Drilling machines
Tapping machines
Drilling-Milling machines
Hand tools*

MAIN CATALOGUE 2018

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since 1992

MAXION Jänsch & Ortlepp GmbH

is an owner managed company and located near the city of Jena in the east of Thuringia. 80 employees are producing high-quality products and are securing the continuous development of the company. MAXION is offering a wide-ranging product range with a high level of vertical integration.

Main focus is placed on the manufacture of drilling and special purpose machines with drilling diameter up to 50 mm.

The machines are distributed worldwide via a diversified dealer network. A quick-growing division is our commission processing sector with its specialization on deep-hole drilling. MAXION is highly specialized in this area, well-known mold-makers as well as the leading German automobile manufacturers are numbered among our key account.

In addition we are manufacturing special purpose machines and devices for the furniture fitting industry as well as traditional hand tools like machine vices, drill stands for hand drills .

Company MAXION is offering customer-oriented service, which includes among other things maintenance and repair for machines of the brands MAXION and IXION.

Because of own apprenticeship training, targeted investments and realisation of own innovations MAXION is always up to date in modern technical developments and is securing our city of Pößneck as business location in the future.

We make sure, that you can trust in our products "Made in Germany".


Hartmut Ortlepp
Managing Director


Norbert Jänsch
Managing Director

- **Precise**
- **High rpm**
- **Drilling 0.5 - 6 mm**

Precision drilling machine with very high concentricity, especially for electronic and precision engineering.

Technical data BT 6	
Order number	see below
Drilling capacity in E 335	0.5 - 6 mm
Spindle	B 12
Spindle travel	55 mm
Spindle to column	180 mm
Spindle to table	135 to 380 mm
Table surface	220 x 285 mm
T-slot width	12 mm
Column diameter	75 mm
Total height	800 mm
Weight	73 kg
Pole changing motor	0.37/0.6 kW
Mains connection	400 V / 50 Hz
Order number	66391
8 fixed spindle rpm steps	630 - 7,100 rpm
Order number	66392
8 fixed spindle rpm steps	900 - 10,000 rpm
Order number	66393
8 fixed spindle rpm steps	1,080 - 12,000 rpm
Standard packaging	A 89x52x127 cm

Options / Accessories

- Albrecht Super Drill chuck, clamping range up to 6mm
- Spindle MT 1
- Drilling depth with fine adjustment



- PV feed unit



- Floor unit

Dimensions 300 x 470 x 760 mm
Weight 40 kg



Options / Accessories

- Solid and compact
- Perfect for education and hobby
- Stepless adjustment of spindle rpm

Precise and smooth running standard drilling machine in modern design. Digital display for rpm, adjustment of table via rack, emergency stop pushbutton.

Technical data ECOMAX 14	
Order number	M00012
Constant capacity in E 335	14 mm
Standard capacity	15 mm
Spindle	MT 2
Spindle travel	70 mm
Spindle to column	180 mm
Spindle to table	up to 380 mm
Spindle to base	529 mm
Table surface	250 x 220 mm
T-slot width	10 mm
Column diameter	65 mm
Total height	890 mm
Weight	80 kg
Pole changing motor	0.5/1.0 kW
Mains connection	400 V / 50 Hz
Stepless spindle rpm	420 - 2,100 rpm
Standard packaging	A 89x52x127 cm

• Drill package 14

- 1 drill chuck taper. MT 2 / B16
- 1 reduction insert. MT 2 / MT 1
- 1 machine vice MSP 80
- 1 quick release chuck. 1 - 13 mm/B16



Picture similar

• MKF Quick clamping device

MKF 65 Z



• Electrical cooling unit

With provided 20 litre coolant tank, including pump, pipe connections, flexible outlet and shut-off valve

• Floor unit

Dimensions 600 x 700 x 840 mm
Weight 60 kg



- *Optimally suited for locations without three-phase current supply*
- *Big rpm range*
- *Programmable tapping depth (only TAP)*
- *Powerful*



UNIMAX 1 FREQUENZ
Precise and smooth running standard drilling machine, high accuracy and quality. Reverse switch for tapping, table adjustment via rack and rotatable around column.

UNIMAX 1 TAP with integrated tapping unit and programmable digital display as standard. Three-phase motor, mains connection 230 V.

Technical data	UNIMAX 1 FREQUENZ	UNIMAX 1 TAP
Order number	M00001	M00017
Constant capacity in E 335	15 mm	15 mm
Standard capacity	18 mm	18 mm
Tapping capacity	M 8	M 8
Spindle	MT 2	MT 2
Spindle travel	80 mm	80 mm
Spindle to column	180 mm	180 mm
Spindle to table	up to 380 mm	up to 380 mm
Table surface	250 x 220 mm	250 x 220 mm
T-slot width	10 mm	10 mm
Column diameter	65 mm	65 mm
Total height	910 mm	910 mm
Weight	80 kg	80 kg
Frequency-controlled motor	1.1 kW	1.1 kW
Mains connection	230 V / 50 Hz	230 V / 50 Hz
Stepless spindle rpm	200 - 4,000 rpm	200 - 4,000 rpm
Rotation speeds for tapping		200 - 700 rpm
Standard packaging	A 89x52x127 cm	A 89x52x127 cm

Options / Accessories

- **Drill package 1**
1 drill chuck taper..... MT 2 / B16
1 reduction insert..... MT 2 / MT 1
1 machine vice MSP 80
1 quick-release chuck..... 1 - 13 mm / B16



Picture similar

- **MKF Quick clamping device**
MKF 65Z

- **Tap holder**



- **PV feed unit**
Drilling capacity..... 12 mm



- **Electrical cooling unit**
With provided 20 litre coolant tank, including pump, pipe connections, flexible outlet and shut-off valve
- **Floor unit**
Dimensions 660 x 380 x 225 mm
Weight 15 kg



- **Powerful**
- **Optimally suited for locations without three-phase current supply**
- **Big rpm range**



Powerful and precise universal bench drilling machine with wide range of application. Table/height adjustment via rack and pinion. Three-phase motor, reverse switch for tapping, digital display for rpm, adjustment of rpm via potentiometer. UNIMAX 2 T with height adjustment from in front.

Technical data	UNIMAX 2 T	UNIMAX 2
Order number	M44667	M44668
Constant capacity in E 335	18 mm	18 mm
Standard capacity	20 mm	20 mm
Tapping capacity	M 12	M 12
Spindle	MT 2	MT 2
Spindle travel	100 mm	100 mm
Spindle to column	225 mm	225 mm
Spindle / Table	60 to 440 mm	55 to 880 mm
Table surface	345 x 372 mm	450 x 315 mm
T-slot width	14 mm	14 mm
Column diameter	90 mm	90 mm
Total height	max. 955 mm	max 1,745 mm
Weight	110 kg	170 kg
Frequency-controlled motor	1.5 kW	1.5 kW
Mains connection	230 V / 50 Hz	230 V / 50 Hz
Stepless spindle rpm		
Range A	100 - 2,000 rpm	100 - 2,000 rpm
Range B	200 - 4,000 rpm	200 - 4,000 rpm
Standard packaging		
	B 80x90x112 cm	D 220x74x125 cm

Options / Accessories

• Drill package 2

- 1 drill chuck taper..... MT 2 / B16
- 1 reduction insert..... MT 2 / MT 1
- 1 machine vice MSP 120
- 1 quick-release chuck..... 3 - 16 mm / B16



Picture similar

• Cross table MF-3

- Table surface..... 600 x 240 mm
- X / Y traverse..... 350 / 160 mm
- Weight 74 kg

• Electrical cooling unit

- With provided 20 litre coolant tank, including pump, pipe connections, flexible outlet and shut-off valve



• Floor unit for UNIMAX 2 T

- Dimensions 345 x 602 x 730 mm
- Weight 45 kg



- **Powerful**
- **Programmable tapping depth**
- **Big rpm range**
- **Optimally suited for locations without three-phase current supply**



Very powerful, all-purpose drilling machine with wide range of application. Three-phase motor, integrated tapping unit as standard. LED machine light and programmable tapping depth. Rpm and drilling depth are shown in the display.

Technical data	UNIMAX 2 T TAP	UNIMAX 2 TAP
Order number	M00021	M00022
Constant capacity in E 335	18 mm	18 mm
Standard capacity	20 mm	20 mm
Tapping capacity	M 16 in S235	M 16 in S235
Spindle	MT 2	MT 2
Spindle travel	100 mm	100 mm
Spindle to column	225 mm	225 mm
Spindle / Table	60 to 440 mm	55 to 880 mm
Table surface	345 x 372 mm	450 x 315 mm
T-slot width	14 mm	14 mm
Column diameter	90 mm	90 mm
Total height	max. 955 mm	max 1,745 mm
Weight	110 kg	170 kg
Frequency-controlled motor	0.8/1.5 kW	1.5 kW
Mains connection	230 V / 50 Hz	230 V / 50 Hz
LED machine light	included	included
Stepless spindle rpm		
Drilling Range A	100 - 2,000 rpm	100 - 2,000 rpm
Drilling Range B	200 - 4,000 rpm	200 - 4,000 rpm
Tapping Range A	100 - 500 rpm	100 - 500 rpm
Tapping Range B	200 - 1,000 rpm	200 - 1,000 rpm
Standard packaging		
	B 80x 90x112 cm	D 220x74x125 cm

Options / Accessories

- **Drill package 2**
1 drill chuck taper. MT 2 / B16
1 reduction insert. MT 2 / MT 1
1 machine vice MSP 120
1 quick-release chuck. 3 - 16 mm / B16



Picture similar

- **Tap holder**



- **Minimum quantity lubrication system**
1 storage tank. 1.2 l
Control. electrical / pneumatic



- **Electrical cooling unit**
With provided 20 litre coolant tank, including pump, pipe connections, flexible outlet and shut-off valve
- **Floor unit for UNIMAX 2 T TAP**
Dimensions 345 x 602 x 730 mm
Weight 45 kg



UNIMAX 2 T TAP
Picture including option minimum quantity lubrication system.

BT 20 / BTB 20

NEW

- *Innovative*
- *Modern*
- *Sturdy*
- *Top equipment*

Powerful MT 2 machine equipped with easy-scroll-wheel and big display. Digital drilling depth, piece counter, drilling depth fine adjustment and LED machine light already as standard equipment. The new BT 20 combines innovative features with an old-established drive concept.

Technical data	BT 20	BTB 20
Order number	see below	see below
Standard capacity	20 mm	20 mm
Tapping capacity	M 16	M 16
Spindle	MT 2	MT 2
Spindle travel	100 mm	100 mm
Spindle to column	250 mm	250 mm
Spindle to table	-	20 - 430 mm
Spindle to base	185 - 541 mm	645 mm
Table surface	340 x 445 mm	450 x 315 mm
T-slot width	12 mm	table 14 mm base platte 12 mm
Column diameter	90 mm	90 mm
Total height	990 mm	1,100 mm
Weight	120 kg	160 kg
Pole changing motor	0.6 / 1.2 kW	0.6 / 1.2 kW
Mains connection	400 V / 50 Hz	400 V / 50 Hz
Stepless spindle rpm		
100 - 1,800 rpm	M00027	M00029
200 - 3,600 rpm	M00028	M00030
Standard packaging		
	B 100x85x130cm	B 100x85x130cm



BTB 20

Options / Accessories

- **Drill package 2**
1 drill chuck taper..... MT 2 / B16
1 reduction insert..... MT 2 / MT 1
1 machine vice MSP 120
1 quick-release chuck..... 3 - 16 mm / B16
- **Tapping unit**
Including programmable tapping depth
- **Cross table MF-3**
- **Floor unit for BT 20 / BTB 20**
Dimensions 345 x 602 x 730 mm
Weight 45 kg



- **Electrical cooling unit**
With provided 20 litre coolant tank, including pump, pipe connections, flexible outlet and shut-off valve
- **Also available as column machines!**

BT 20 / BTB 20



- Popular & powerful workshop machine
- Versatile
- Robust

Strong, precise drilling machine with big range of application. Height adjustment via rack and pinion. Reverse switch clockwise/counter-clockwise rotation, digital display showing spindle rpm, prepared for mill package, with drilled-through spindle.

Technical data	UNIMAX 3 T	UNIMAX 3
Order number	M00023	37704
Constant capacity in E 335	25 mm	25 mm
Standard capacity	30 mm	30 mm
Tapping capacity	M 20	M 20
Spindle	MT 3	MT 3
Spindle travel	125 mm	125 mm
Spindle to column	260 mm	260 mm
Spindle / Table	220 to 600 mm	90 to 840 mm
Table surface	390 x 420 mm	500 x 365 mm
T-slot width	14 mm	14 mm
Column diameter	110 mm	110 mm
Total height	max. 1,200 mm	1,855 mm
Weight	220 kg	270 kg
Pole changing motor	0.8/1.5 kW	0.8/1.5 kW
Mains connection	400 V / 50 Hz	400 V / 50 Hz
Stepless spindle rpm		
Range A	80 - 1,440 rpm	80 - 1,440 rpm
Range B	180 - 3,200 rpm	180 - 3,200 rpm
Standard packaging		
	C 160x74x125 cm	D 220x74x125 cm

Options / Accessories

• Mill Package

- 1 fine feed / 1 cross table MF-3 / 1 clamping for quill /
- 1 milling chuck MT 3 / 1 draw-in rod /
- 3 collets 8, 10, 12 mm



• Drill Package 3

- 1 drill chuck taper..... MT 3 / B16
- 2 reduction inserts..... MT3 / MT2, MT3 / MT1
- 1 machine vice..... MSP 140
- 1 quick-release chuck..... 3 - 16 mm / B16



Picture similar

• Cross table MF-3

- Table surface..... 600 x 240 mm
- X / Y traverse..... 350 / 160 mm
- Weight..... 74 kg

• Electrical cooling unit

- With provided 20 litre coolant tank, including pump, pipe connections, flexible outlet and shut-off valve

• Floor units for UNIMAX 3 T

- Size..... 400 x 690 x 720 mm
- Weight..... 65 kg



- Programmable tapping depth
- Versatile
- Robust

The popular machine concept of UNIMAX 3 got extended by a programmable tapping unit. Together with the mill package (optional) this machine is one of the most versatile of its category.

Technical data	UNIMAX 3 T TAP	UNIMAX 3 TAP
Order number	M00024	M00025
Constant capacity in E 335	25 mm	25 mm
Standard capacity	30 mm	30 mm
Tapping capacity	M 20	M 20
Spindle	MT 3	MT 3
Spindle travel	125 mm	125 mm
Spindle to column	260 mm	260 mm
Spindle / Table	220 to 600 mm	90 to 840 mm
Table surface	390 x 420 mm	500 x 365 mm
T-slot width	14 mm	14 mm
Column diameter	110 mm	110 mm
Total height	max. 1,200 mm	1,855 mm
Weight	220 kg	270 kg
Pole changing motor	0.8/1.5 kW	0.8/1.5 kW
Mains connection	400 V / 50 Hz	400 V / 50 Hz
LED machine light	as standard	as standard
Stepless spindle rpm		
Range A	80 - 1,440 rpm	80 - 1,440 rpm
Range B	180 - 3,200 rpm	180 - 3,200 rpm
Standard packaging		
	C 160x74x125 cm	D 220x74x125 cm

Options / Accessories

- Tap holder
- Drill Package 3
 - 1 drill chuck taper. MT 3 / B16
 - 2 reduction inserts. MT3 / MT2, MT3 / MT1
 - 1 machine vice MSP 140
 - 1 quick-release chuck. 3 - 16 mm / B16
- Mill Package
 - 1 fine feed / 1 cross table MF-3 / 1 clamping for quill /
 - 1 milling chuck MT 3 / 1 draw-in rod /
 - 3 collets 8, 10, 12 mm



- Cross table MF-3
 - Table surface. 600 x 240 mm
 - X / Y traverse. 350 / 160 mm
 - Weight 74 kg
- Electrical cooling unit
 - With provided 20 litre coolant tank, including pump, pipe connections, flexible outlet and shut-off valve
- Floor units for UNIMAX 3 T TAP
 - Size 720 x 690 x 400 mm
 - Weight 65 kg



UNIMAX 3 T TAP

UNIMAX 3 TAP

- Innovative stepless automatic feed
- Top equipment
- Easy operation
- Versatile

Modern, precise production drilling machine according to the successful concept of UNIMAX 3, with stepless variable feed drive, automatic tool ejector and chip breaking function as standard. Digital display indicates feed rate, spindle rpm and drilling depth; programmable drilling depth.

Technical data	UNIMAX 3 T AV	UNIMAX 3 AV
Order number	M00009	M00003
Constant capacity in E 335	25 mm	25 mm
Standard capacity	30 mm	30 mm
Tapping capacity	M 20	M 20
Spindle	MT 3	MT 3
Automatic feed	30-400 mm/min	30-400 mm/min
Spindle travel programmable	125 mm	125 mm
Spindle to column	260 mm	260 mm
Spindle / Table	220 to 600 mm	90 to 840 mm
Table surface	390 x 420 mm	500 x 365 mm
T-slot width	14 mm	14 mm
Column diameter	110 mm	110 mm
Total height	max. 1,200 mm	1,900 mm
Weight	230 kg	280 kg
Pole changing motor	0.8/1.5 kW	0.8/1.5 kW
Mains connection	400 V / 50 Hz	400 V / 50 Hz
Stepless spindle rpm		
Range A	80 - 1,440 rpm	80 - 1,440 rpm
Range B	180 - 3,200 rpm	180 - 3,200 rpm
Standard packaging	C 160x74x125 cm	D 220x74x125 cm

Options / Accessories

- Chip removal
Order number:M00015
- Retention time at drill ground
Order number:M00016
- Tapping unit
- Drill Package 3
1 drill chuck taper..... MT 3 / B16
2 reduction inserts..... MT3 / MT2, MT3 / MT1
1 machine vice MSP 140
1 quick-release chuck..... 3 - 16 mm / B16



Picture similar

- Electrical cooling unit
With provided 20 litre coolant tank, including pump, pipe connections, flexible outlet and shut-off valve



- LED machine light
- Floor units for UNIMAX 3 T AV
Size 720 x 690 x 400 mm
Weight 65 kg
- Mill Package not possible for this type!



UNIMAX 3 T AV



UNIMAX 3 AV

- *Reliable production machine*
- *Individually customisable*
- *Stepless spindle rpm*

Heavy, versatile drilling machine. Table/height adjustment via rack and pinion. Machined base plate with t-slots. Digital display showing spindle rpm.

Technical data	BT 35 ST	BS 35 ST
Order number	see below	see below
Constant capacity in E 335	35 mm	35 mm
Standard capacity	40 mm	40 mm
Tapping capacity	M 30	M 30
Spindle	MT 4	MT 4
Spindle travel	150 mm	150 mm
Spindle to column	280 mm	280 mm
Spindle / Taple	220 to 600 mm	85 to 755 mm
Table surface	390 x 420 mm	550 x 400 mm
T-slot width	14 mm	14 mm
Column diameter	120 mm	120 mm
Total height	1,250 mm	2,020 mm
Weight	250 kg	350 kg
Pole changing motor	1.3/2.3 kW	1.3/2.3 kW
Mains connection	400 V / 50 Hz	400 V / 50 Hz
Stepless spindle rpm	Order number	Order number
80 - 1,400 rpm	66940	66935
160 - 2,800 rpm	66941	66936
Also available with 12 fixed steps for spindle rpm.		
80 - 1,400 rpm	66944	66931
160 - 2,800 rpm	66945	66934
Standard packaging	C 160x74x125 cm	D 220x74x125

Options / Accessories

- **Drill Package 4**
Best. Nr.: M00018
1 drill chuck taper.....MK4 / B16
3 reduction inserts.....MT4 / 3, MT4 / 2, MT4 / 1
1 machine vice.....MSP 140
1 quick-release chuck.....3 - 16 mm / B16
- **Tapping unit**
- **Table adjustment on front side (BS 35 ST)**
- **Height adjustment on front side (BT 35 ST)**
- **Digital drilling depth display**
- **Motorised height adjustment**
- **Cooling unit in baseplate**
- **Electrical cooling unit**
- **Floor units for BT 35 ST**



- *Reliable production machine*
- *Individually customisable*
- *Stepless spindle rpm*
- *3 fixed automatic feeds*

Strong, precise production machine. Electro-magnetic feed engagement. Table/height adjustment via rack and pinion. Machined base plate with t-slots. Star knob control digital display for spindle rpm.

Technical data	BT 35 AVST	BS 35 AVST
Order number	see below	see below
Constant capacity in E 335	35 mm	35 mm
Standard capacity	40 mm	40 mm
Tapping capacity	M 30	M 30
Spindle	MT 4	MT 4
Automatic feeds	0.1-0.2-0.3 mm/t	0.1-0.2-0.3 mm/t
Spindle travel	150 mm	150 mm
Spindle to column	280 mm	280 mm
Spindle / Table	220 to 600 mm	85 to 755 mm
Table surface	420 x 390 mm	550 x 400 mm
T-slot width	14 mm	14 mm
Column diameter	120 mm	120 mm
Total height	1,250 mm	2,020 mm
Weight	265 kg	350 kg
Pole changing motor	1.3/23 kW	1.3/2.3 kW
Mains connection	400 V / 50 Hz	400 V / 50 Hz
Stepless spindle rpm	Order number	Order number
80 - 1,400 rpm	66951	66940
160 - 2,800 rpm	66952	66941
Also available with 12 fixed steps for spindle rpm.		
80 - 1,400 rpm	66949	66938
160 - 2,800 rpm	66950	66939
Standard packaging	C 160x74x125 cm	D 220x74x125 cm

Options / Accessories

- **Drill Package 4**
Best. Nr.: M00018
1 drill chuck taper. MT4 / B16
3 reduction inserts. MT4 / 3, MT4 / 2, MT4 / 1
1 machine vice MSP 140
1 quick-release chuck. 3 - 16 mm / B16

- **LED machine light**



- **Tapping unit**
- **Table adjustment on front side (BS 35 AVST)**
- **Height adjustment on front side (BT 35 AVST)**



- **Motorised height adjustment**
- **Programmable Digital drilling depth display**



- **Electrical cooling unit**
- **Cooling unit in baseplate (BS 35 AVST)**
Order number: 26441
- **Floor units for bench machines**



- High performance capability
- Programmable
- Tapping unit as standard
- Chip breaking function

Universal and very modern column drilling machine with spindle MT 4, tapping unit, high performance capability and very good price-performance ratio. Digital display showing feed rate, spindle rpm and programmable drilling depth.

Technical data	UNIMAX 4 Basic	UNIMAX 4 Basic Plus
Order number	M00014	M00024
Constant capacity in E 335	35 mm	35 mm
Standard capacity	40 mm	40 mm
Tapping capacity	M 30	M 30
Spindle	MT 4	MT 4
Stepless automatic feed	20-400 mm/min	20-400 mm/min
Drilling depth programmable	175 mm	175 mm
Spindle to column	310 mm	300 mm
Spindle / Table	70 to 830 mm	70 to 830 mm
Table surface	550 x 400 mm	650 x 500 mm
T-slot width	14 mm	14 mm
Column diameter	120 mm	140 mm
Total height	1,980 mm	1,980 mm
Weight	450 kg	480 kg
Pole changing motor	1.5/3.0 kW	1.5/3.0 kW
Mains connection	400 V / 50 Hz	400 V / 50 Hz
Stepless spindle rpm		
Range A	120 - 2,500 rpm	120 - 2,500 rpm
Range B	60 - 1,250 rpm	60 - 1,250 rpm
Tapping unit	included	included
Chip breaking	included	included
Chip removal	optional	included
Retention time at drill ground	optional	included
Standard packaging		
	E 225x80x145 cm	E 225x80x145 cm



Table UNIMAX 4 Basic +
Table adjustment on front side

Options / Accessories

- Chip removal
Order number:M00015
- Retention time at drill ground
Order number:M00016
- LED machine light
- Drill Package 4
1 drill chuck taper..... MT 4 / B 16
3 reduction inserts..... MT4 / 3, MT4 / 2, MT4 / 1
1 machine vice MSP 140
1 quick-release chuck..... 3 - 16 mm / B 16
- Electrical cooling unit
With provided 20 litre coolant tank, including pump, pipe connections, flexible outlet and shut-off valve
- Electrical cooling unit in the baseplate



- *Cycles programmable*
- *For complex work processes*
- *High functionality*
- *Touch screen*

Column drilling machine with programmable cycles, also for complex work processes, with programmable spindle rpm and automatic feed. As simple as a conventional one, but with functions of a controlled machine. Adapted user interface for workshop needs.

Technical data	UNIMAX 4
Order number	52508
Constant capacity in E 335	40 mm
Standard capacity	45 mm
Tapping capacity	M 36
Spindle	MT 4
Stepless feed	30 - 1,650 mm/min
Automatic feed	freely programmable
Spindle travel programmable	175 mm
Spindle to column	300 mm
Spindle / Table	70 to 830 mm
Table surface	650 x 500 mm
T-slot width	14 mm
Column diameter	140 mm
Total height	1,980 mm
Weight	480 kg
Frequency-controlled motor	7.5 kW
Mains connection	400 V / 50 Hz
Stepless spindle rpm	30 - 2,400 rpm
Standard packaging	E 225x80x145 cm

Options / Accessories

• Revolving drilling heads



• LED machine light

• Key-operated switch

for locking the programming

• Drill Package 4

1 drill chuck taper. MT 4 / B 16
3 reduction inserts. MT4 / 3, MT4 / 2, MT4 / 1
1 machine vice MSP 140
1 quick-release chuck. 3 - 16 mm / B 16
If required, for tapping with key type chuck.



Picture similar

• Electrical cooling unit, controlled

With provided 20 litre coolant tank, including pump, pipe connections, flexible outlet and shut-off valve

• Electrical cooling unit, controlled in baseplate with T-slots

Including pump, pipe connections, flexible outlet and shut-off valve

further accessories from page 52



- **Powerful up to 50mm**
- **4 fixed automatic feeds**
- **Individually customisable**

High performance drilling machine. Electro-magnetic clutch for feed. Stepless adjustment of spindle rpm. Gearing system in 2 steps. Oil circulation lubrication. Table adjustment from front side. Motor protection. Star knob control.

Technical data	BS 50 AVST
Order number	see below
Constant capacity in E 335	50 mm
Tapping capacity	M 45
Spindle	MT 4
Fixed automatic feeds	4
Spindle travel	200 mm
Spindle to column	325 mm
Spindle / Table	80 to 675 mm
Table surface	650 x 500 mm
T-slot width	14 mm
Column diameter	160 mm
Total height	2,070 mm
Weight	670 kg
Pole changing motor	2.0 / 3.8 kW
Mains connection	400 V / 50 Hz
Order number	66957
Stepless spindle rpm	35 - 1,060 rpm
with auto feed	0.1-0.18-0.28-0.45 mm/t
Order number	66958
Stepless spindle rpm	50 - 1,500 rpm
with auto feed	0.08-0.12-0.2-0.32 mm/t
Order number	66959
Stepless spindle rpm	66 - 2,000 rpm
with auto feed	0.06-0.09-0.15-0.25 mm/t
Standard packaging	F 233x90x133 cm

Options / Accessories

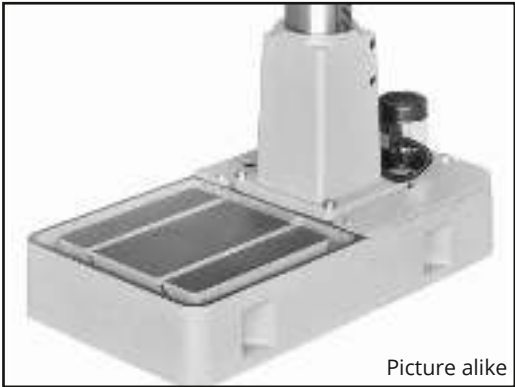
- **Spindle MT 5**
Order number:51890
- **Tapping unit**
- **Programmable drilling depth display**
- **Motorised height adjustment**



- **Cross table MF-4**
Table surface..... 800 x 240 mm
X / Y traverse.....470 / 245 mm
Weight 110 kg



- **Electrical cooling unit**
With provided 20 litre coolant tank, including pump, pipe connections, flexible outlet and shut-off valve
- **Electrical cooling unit in baseplate with T-slots**
Including pump, pipe connections, flexible outlet and shut-off valve



Picture alike



BT 18 GL / BS 18 GL

NEW

- *For manufacture of threads true to gauge M3 - M10*
- *Serial production*
- *Reliable and smooth running*
- *Standard and special thread sizes*

High performance tapping machine with lead screw. Safety arrangement for prevention of tool breakage. Programme for tapping single and continous cycles, programmable tapping depth, piece counter, LED machine light and electronically controlled motor braking for single cycle operation. Simple replacement of lead screw by means of quick coupling.

Technical data	BT 18 GL	BS 18 GL
Order number	M00033	M00034
Tapping capacity	M 3 - M 10	M 3 - M 10
Threads per hour	1,000	1,000
Standard capacity	15 mm	15 mm
Spindle	MT 2	MT 2
Depth of thread	60 mm	60 mm
Spindle travel	100 mm	100 mm
Spindle to column	250 mm	250 mm
Spindle / Table	185 - 541 mm	110 - 900 mm
Table surface	340 x 445 mm	450 x 315 mm
T-slot width	12 mm	12 mm
Column diameter	90 mm	90 mm
Total height	1,050 mm	1,810 mm
Weight	120 kg	160 kg
Special motor	0.55 kW	0.55 kW
Mains connection	400 V / 50 Hz	400 V / 50 Hz
4 fixed spindle rpm steps	320 rpm	320 rpm
	560 rpm	560 rpm
	1,000 rpm	1,000 rpm
	1,600 rpm	1,600 rpm
Standard packaging	A 89x52x127 cm	D 220x74x125 cm

Options / Accessories

- Lead screw



- Tap holder
- Die holder
- Bottoming release switch
- Force ventilated motor
- Column longer by 200 mm for BT 18 GL
- Flanged quill
- Foot impulse switch
- Two-hand start
- Minimum quantity lubrication system

1 storage tank..... 1.2 l
Control..... electrically / pneumatically

Size 345 x 602 x 730 mm
Weight 45 kg



BT 18 GL / BS 18 GL



- **For manufacture of threads true to gauge M4 - M20**
- **Serial production**
- **Reliable and smooth running**
- **Standard and special thread sizes**

High performance tapping machine with lead screw and optimum safety arrangement for prevention of tool breakage. Programme for tapping single and continuous cycles. Electronically controlled motor braking for single cycle operation. Simple replacement of lead screw by means of quick coupling.

Technical data	BT 23 GL	BS 23 GL
Order number	see below	see below
Tapping capacity	M 4 - M 20	M 4 - M 20
Threads per hour	800	800
Standard capacity	28 mm	28 mm
Spindle	MT 3	MT 3
Depth of thread	90 mm	90 mm
Spindle travel	120 mm	120 mm
Spindle to column	260 mm	260 mm
Spindle / Table	220 to 600 mm	90 to 760 mm
Table surface	420 x 390 mm	500 x 365 mm
T-slot width	14 mm	14 mm
Column diameter	110 mm	110 mm
Total height	1,200 mm	1,850 mm
Weight	250 kg	280 kg
Special motor	0.9 kW	0.9 kW
Mains connection	400 V / 50 Hz	400 V / 50 Hz
5 fixed spindle rpm steps	Order number	Order number
100 / 180 / 300 / 485 / 900	13562	73958
150 / 275 / 460 / 700 / 1,350	73957	73959
Standard packaging	C 160x74x125 cm	D 220x74x125 cm

Options / Accessories

- **Lead screw**



- **Tap holder**



- **Force ventilated motor**

Order number:14227

- **Bottoming release switch**

Order number:14211

- **Die holder**



- **Minimum quantity lubrication system**

- **Flanged quill**

- **Fine adjustment cam for tapping depth**

- **Foot impulse switch**



- **Two-hand start**

- **LED machine light**

- **Floor units for BT 23 GL**



BT 23 GL
Picture with option multi spindle head

BS 23 GL

- *For manufacture of threads true to gauge M5 - M30*
- *Serial production*
- *Reliable and smooth running*
- *Standard and special thread sizes*

High performance tapping machine with lead screw and optimum safety arrangement for prevention of tool breakage. Programme for tapping single and continuous cycles. Electronically controlled motor braking for single cycle operation. Simple replacement of lead screw by means of quick coupling.

Technical data	BT 30 GL	BS 30 GL
Order number	see below	see below
Tapping capacity	M 5 - M 30	M 5 - M 30
Threads per hour	800	800
Standard capacity	35 mm	35 mm
Spindle	MT 4	MT 4
Depth of thread	90 mm	90 mm
Spindle travel	150 mm	150 mm
Spindle to column	280 mm	280 mm
Spindle / Table	220 to 600 mm	85 to 755 mm
Table surface	420 x 390 mm	550 x 400 mm
T-slot width	14 mm	14 mm
Column diameter	120 mm	120 mm
Total height	1,250 mm	2,020 mm
Weight	270 kg	365 kg
Special motor	1.2 kW	1.2 kW
Mains connection	400 V / 50 Hz	400 V / 50 Hz
5 fixed spindle rpm steps	Order number	Order number
80 / 130 / 190 / 290 / 440	67095	67092
160 / 260 / 380 / 580 / 880	67096	67093
Standard packaging	C 160x74x125 cm	D 220x74x125 cm

Options / Accessories

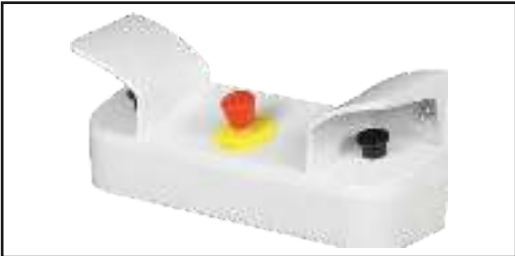
- Tap holder
- Lead screw



- Force ventilated motor
Order number:14227
- Bottoming release switch
Order number:14211
- Fine adjustment cam for tapping depth



- Minimum quantity lubrication system
- Die holder
- Flanged quill
- Two-hand start



- Floor units for BT 30 GL

further accessories from page 52



BT 30 GL

BS 30 GL

- **Horizontal unit for manufacture of threads true to gauge M3 - M10**
- **Serial production**
- **Reliable and smooth running**
- **Standard and special thread sizes**

High performance tapping machine as horizontal unit, center height 125 mm with lead screw and optimum safety arrangement for prevention of tool breakage. Programme for tapping single and continuous cycles. Electronically controlled motor braking for single cycle operation. Simple replacement of lead screw by means of quick coupling.

Technical data	H 15 GL
Tapping capacity	M 3 - M 10
Threads per hour	800
Spindle	MT 2
Depth of thread	60 mm
Spindle height	125 mm
Total height	560 mm
Weight	60 kg
Special motor	0.55 kW
4 fixed spindle rpm	Order number
320 - 1,600 min ⁻¹	13476
Standard packing	A 89x52x127 cm

Options / Accessories

- **Tap holder**
GSIP-0.....for M3 up to M10

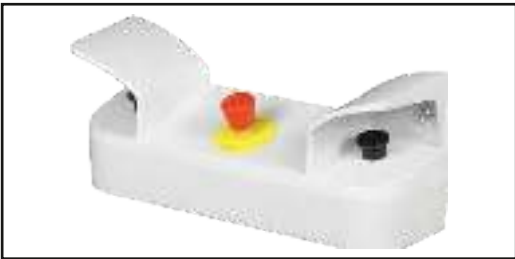
- **Lead screw**



- **Force ventilated motor**
- **Bottoming release switch**
- **Fine adjustment cam for tapping depth**



- **Minimum quantity lubrication system**
- **Die holder**
- **Two-hand start**



- **Foot impulse switch**



Reliable tapping machine for quality-orientated tapping respectively thread moulding M1 to M18, screw in of thread inserts⁽¹⁾, rethreading and postforming as well as checking already manufactured threads. Thanks to the menu guided operation machine parameters can be entered fast and uncomplicated. For each particular machining process the ideal rotation speeds, drilling depth as well as the minimum and maximum tapping torque can be entered. If the machine leaves these parameters, the thread will be identified as defective. By means of an integrated piece counter an overview of already processed workpieces is provided everytime. For analysis and control of tapping processes the machine can be connected to a PC ⁽¹⁾.

(1) not for jobtap.

Options

Maxtap / Jobtap	
ZAP	Z-axis controlled pneumatic feeding system
MMS	controllable minimum quantity lubrication unit
SWS & SZS	quick change tool holder system & optional fixed collet holder system
DSK	double spindle head adapter
SHV & HVS	column special size & horizontal adjustment
SSB / ASL	security key / audible signal light

Maxtap	
MPT	integrated manual positioning XY-table
WinPCA TAP	analysing PC software for comparison, evaluation of series of measurement and their storage

Maxtap / Jobtap	G 5	G 8	G 14	G 16
Tapping performance				
X5CrNi189/1.4435	M1 - M5	M2.5 - M8	M3.5 - M12	M4 - M14
9SMn28/1.0715	M1 - M6	M2.5 - M10	M3.5 - M14	M4 - M18
AlCuMgPb/3.1645	M1 - M6	M2.5 - M12	M3.5 - M16	M4 - M20
Max. tapping depth / stroke	45 / 65 mm	75 / 85 mm	75 / 85 mm	75 / 85 mm
Insert holder quick change system	SWS 0 incl. 5 inserts	SWS 1 incl. 6 inserts	SWS 2 incl. 7 inserts	SWS 3 incl. 9 inserts
Insert holder / spindle	B 10	B 12	B 12	B 12
Distance tool holder/work-table	0 - 280 mm	0 - 400 mm	0 - 400 mm	0 - 400 mm
Torque range Mz (stepless)	5 - 220 Ncm	50 - 700 Ncm	120 - 1,680 Ncm	150 - 2,100 Ncm
Spindle speed range (stepless)	250 - 2,200 rpm	300 - 3,000 rpm	125 - 1,250 rpm	100 - 1,000 rpm
With	323 mm	312 mm	312 mm	312 mm
Depth	510 mm	530 mm	544 mm	544 mm
Height	780 mm	930 mm	930 mm	930 mm
Weight net	51.4 kg	61.7 kg	63.3 kg	63.3 kg
Column (adjustable with hand wheel)	600 mm	750 mm	750 mm	750 mm
Base plate in mm	280 x 475 x 50	280 x 475 x 50	280 x 475 x 50	280 x 475 x 50
2 x T-slot	M 12 x 14	M 12 x 14	M 12 x 14	M 12 x 14
Mains voltage	230 V / 50-60 Hz	230 V / 50-60 Hz	230 V / 50-60 Hz	230 V / 50-60 Hz
Power consumption	300 W	2,900 W	2,900 W	2,900 W
Scope of supply	3 m connecting cable with 3-pole earthing pin plug according to CEE, manual & 3-part packing			



Gang drilling machines

- *Productive*
- *For serial production*
- *Individually customisable*
- *Solid*



The benchings are mounted on box-type stands and are deliverable for 3, 4, 5 or 6 units. Each box-type stand with two storage shelves. The heavy, torsionresistant cast-iron table has two T-slots. Electrical equipment is clearly installed in a central switch box. On BRK 35 the units are swivellable above table plate.

Technical data	BRK 18	BRK 20	BRK 35
Distance between units	370 mm	450 mm	450 mm
Height of table	860 mm	830 mm	860 mm
table length = no. of units	by 370 mm	by 450 minus 140	by 450 mm
Depth of table	460 mm	600 mm	680 mm
T-slot width	12 mm	14 mm	14 mm
Throat working depth	340 mm	455 mm	460 mm
Possible machine heads	BT 6, BT 18, BT 15 GL,	BT 18 GL BT 20 UNIMAX 2T UNIMAX 2T TAP	BT 23 GL, BT 30 GL, BT 35 AV, UNIMAX 3T, UNIMAX 3T AV, UNIMAX 3T TAP, UNIMAX 4T Basic
Base for BRK 18 / 35	Order number	Order number	Order number
3 units	61931	M00037	61993
4 units	61990	M00038	61994
5 units	61991	M00039	91995
6 units	61992	-	61997
Spezial packing	on request	on request	on request

Options / Accessories

- **Electrical cooling unit**
base unit with 60 l tank, return hose,
plus charge for supply of desired units
- **Other options / accessories**
See machine

Gang drilling machines



Drilling-Milling machines BT 25 FST / 35 FST

Options / Accessories

- *For smaller milling operations*
- *Individually customisable*
- *Versatile*

Precise, handy and versatile drilling-milling machine. Very smooth running drive and reliable clamping of spindle sleeve guarantee good surfaces at milling. Headstock can be swivelled to the side. Precisely guided and exactly adjustable cross table. Increments 0.05 mm, clamping in both axes. Motor protection.

Technical data	25 FST	35 FST
Order number	see below	see below
Spindle	MT 3	MT 4
Drawbar	M 12	M 16
Quill stroke	100 mm	130 mm
Standard capacity	30 mm	35 mm
Spindle / Cross table	80 to 450 mm	60 to 430 mm
Table surface	600 x 240 mm	800 x 240 mm
X- / Y- traverse	350 / 160 mm	470 / 245 mm
T-slot width	14 mm	14 mm
Column diameter	110 mm	120 mm
Total height	max. 1,920 mm	max. 1,970 mm
Weight	340 kg	500 kg
Pole changing motor	0.8 / 1.5 kW	1.3 / 2.3 kW
Mains connection	400 V / 50 Hz	400 V / 50 Hz
Stepless spindle rpm BT 25 FST / BT 35 FST	Order number	Order number
80 - 1,400 rpm	61909	68795
120 - 2,160 rpm	70752	-
160 - 2,800 rpm	70753	68116
10 fixed spindle speeds BT25F 12 fixed spindle speeds BT35F	On request	On request
Scope of supply	Floor unit with door, cross table, drawbar, quill clamping, fine feed	
Standard packaging	D 220x74x125 cm	D 220x74x125 cm

- Tapping unit
- Digital display for drilling depth
- Motorised height adjustment
- Electric cooling unit
- Security against torsion
- Height adjustment and clamping on front side
- Milling chuck



- Collet chuck
- Chip tray
- Digital display table axes



- 3 fixed automatic feeds
- Order nr. for BT 25 AVFST14263
Order nr. for BT 35 AVFST14230



- Spindle Seeger cone SK 30 (DIN 2079)
Order nr. for BT 25 F53736
Order nr. for BT 35 F68134
- Drill Package
BT 25 F Drill Package 3
BT 35 F Drill Package 4

Drilling-Milling machines BT 25 FST / 35 FST

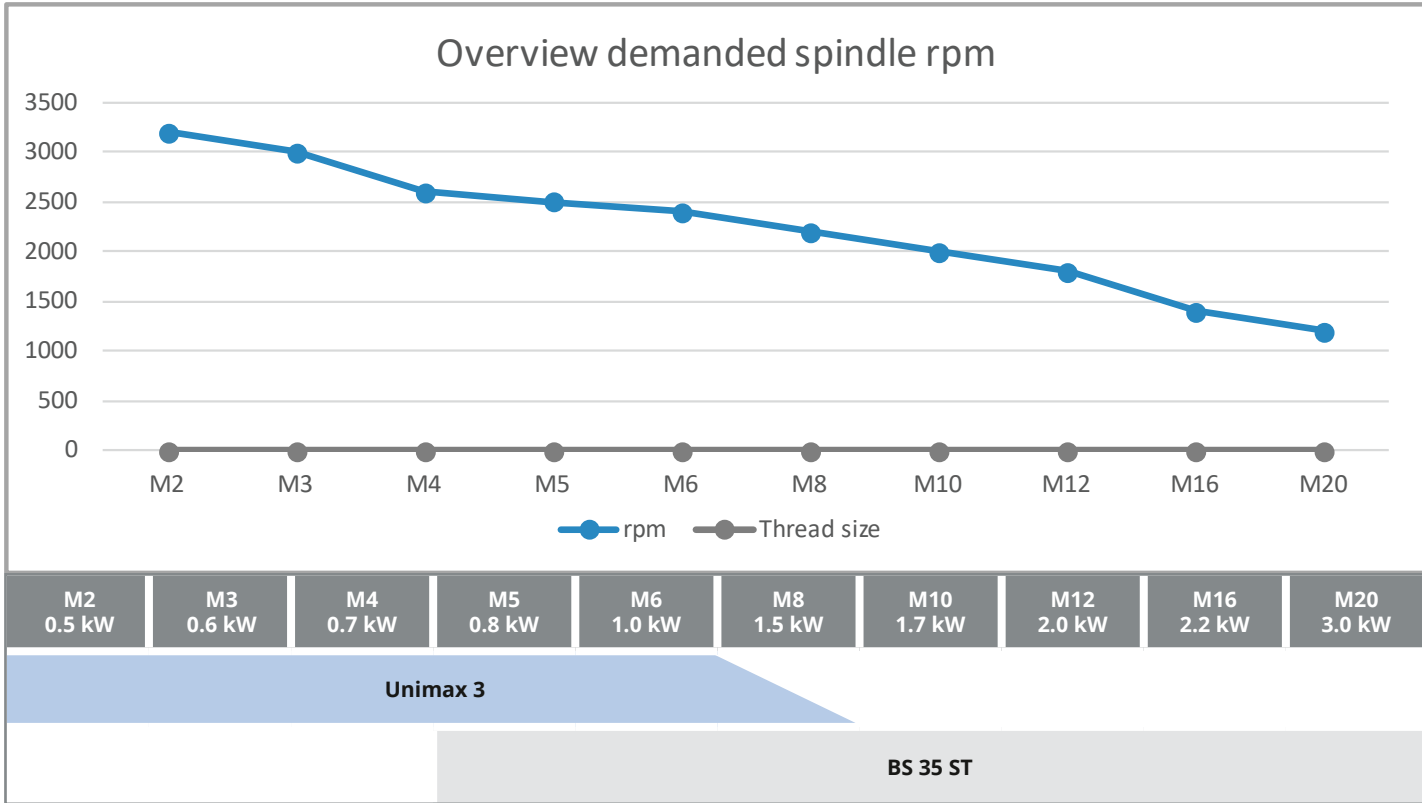


BT 25 FST
with option chip tray

Flow drilling machines

Flow drilling is a manufacturing method during which a tool is pressed against a thin-walled metallic material by using relatively high rpm and axial force. During this procedure the accruing frictional heat plasticizes the material, so that the drill can be lead through the workpiece. The material is mainly flowing to the underside and is building a „bushing“, which is 3 to 5 times thicker than the original thickness of material.

For flow drilling we are suggesting two machines out of our standard range of products: UNIMAX 3 series and starting from M8 the new BS 35 machine. Please use the chart below for required demand values.



Drill grinding machines

For grinding and reducing of cutting edge of HSS- and HM-spiral drills

The biggest advantage of the drill grinding machines EDG 213N and EDG 1226N is based in the easy and quick handling. The drill gets clamped in an intake by means of a collet and is grinded and reduced of cutting edge in one workstep. The straightforward functioning as well as the long-lasting grinding discs make the drill grinding machines EDG 213N and EDG 1226N a well-priced and reliable helper.



EDG 213N



EDG 1226N

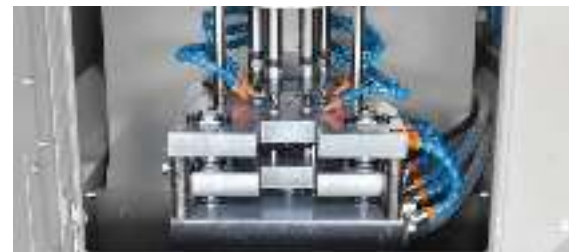
Technical Data	Motor	RPM	Grinding Range	Relief- / Sharpening angle	Dimensions (L x B x H)	Weight
EDG 213N	0.15 kW / 230V / 50/60 Hz	5.500 rpm	2 - 13 mm	90° - 140°	290 x 140 x 140	8,5 kg
EDG 1226N	0.45 kW / 230V / 50/60 Hz	4.500 rpm	12 - 26 mm	90° - 140°	450 x 230 x 190	26 kg

Out of our machine components we are able to offer you workpiece related special purpose machines.



- *Automatic drilling/tapping*
- *Outreach enlargement*
- *Shifting table*
- *Shifting units*
- *Rotary table*
- *Bar feeder*
- *Multi-sided machining*
- *Multi-spindle machining*

Many paths can lead to one destination.
We provide consulting for the right solution.

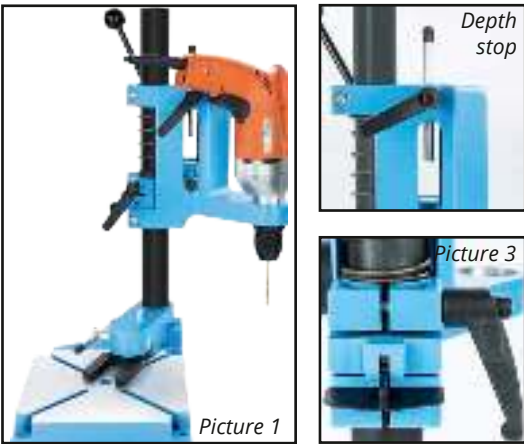


Planning, design, manufacturing and
assembly under one roof.



Please check our website for further examples: www.maxion.de

Solid construction for precise drillings. Because of the asymmetric arrangement of 40 mm column to the base-plate arises additional free space. Milled working area with clamping slot for fixing of e.g. vices. The angled machine support allows easy reading of depth scaling. With integrated release spring and depth stop. Maximum drilling depth of 65 mm can be achieved without displacing your hand. Machine support can be swivelled around column (picture 1), so that very long pieces can be drilled as well when attached to the end of the working bench. Safety technology assures riskless adjustment to desired working height. Machine support is fastened to column with clamping lever. No danger of injuries and drill breakage. (picture 3).



Technical data	
Clamping neck (European standard)	43 mm
Throat (centre of column)	165 mm
Column diameter	40 mm
Column length	500 mm
Working stroke	65 mm
Base plate	220 x 213 mm
Weight	5 kg

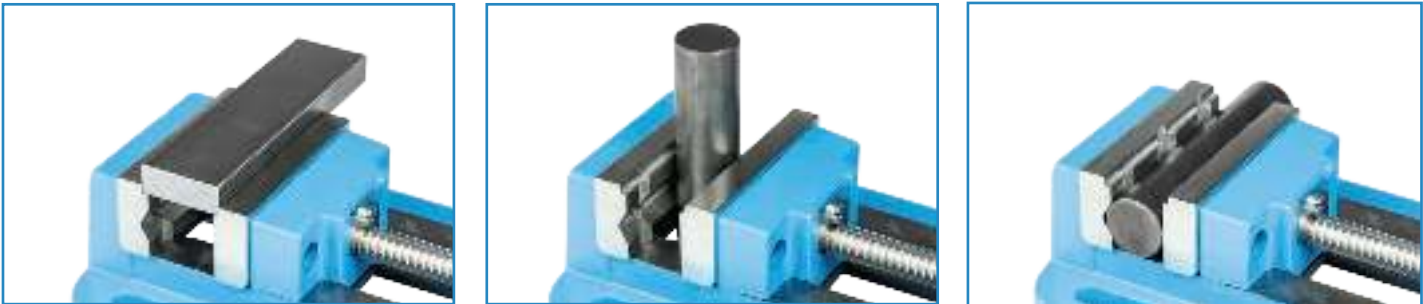
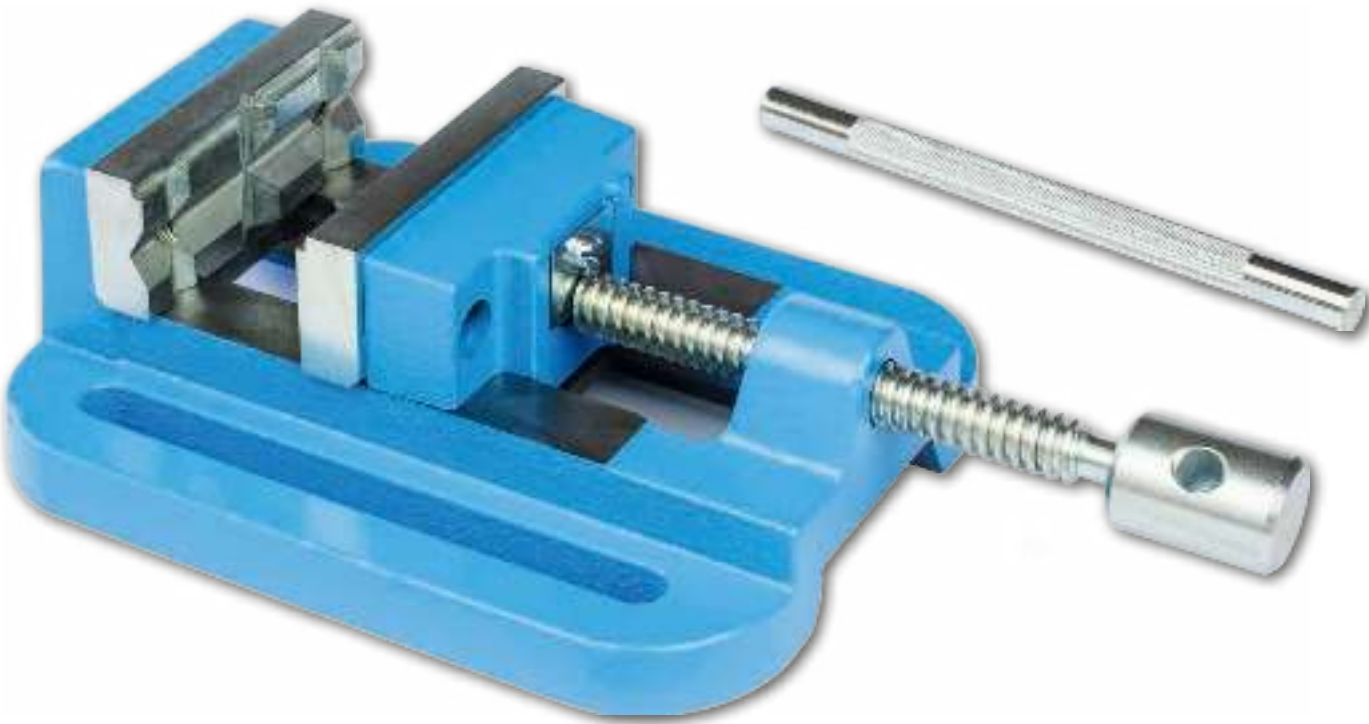


MBS 165
Picture with MKF 40 (optional)
Delivery without drilling machine !

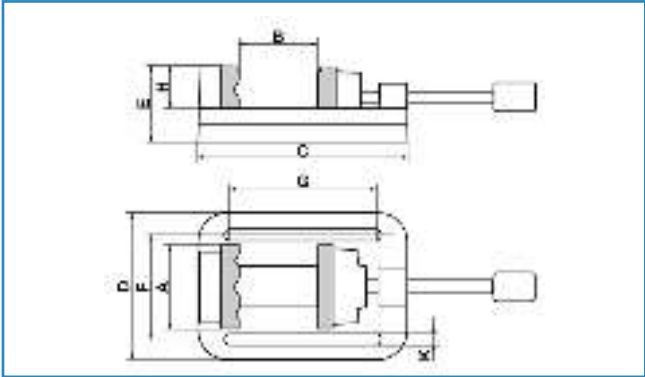
Accessory: MKF 40 - Quick clamping device for sheet metal pipes and profiles, swivellable around column.

Extremely robust and heavy machine vice for production and handicraft.
Base made of high-strength malleable iron or modular graphite casting, hardened and grinded jaws, powerful trapezoidal threaded spindles with long locking handle for maximum clamping forces.

Both jaws with area surface for plain parts.



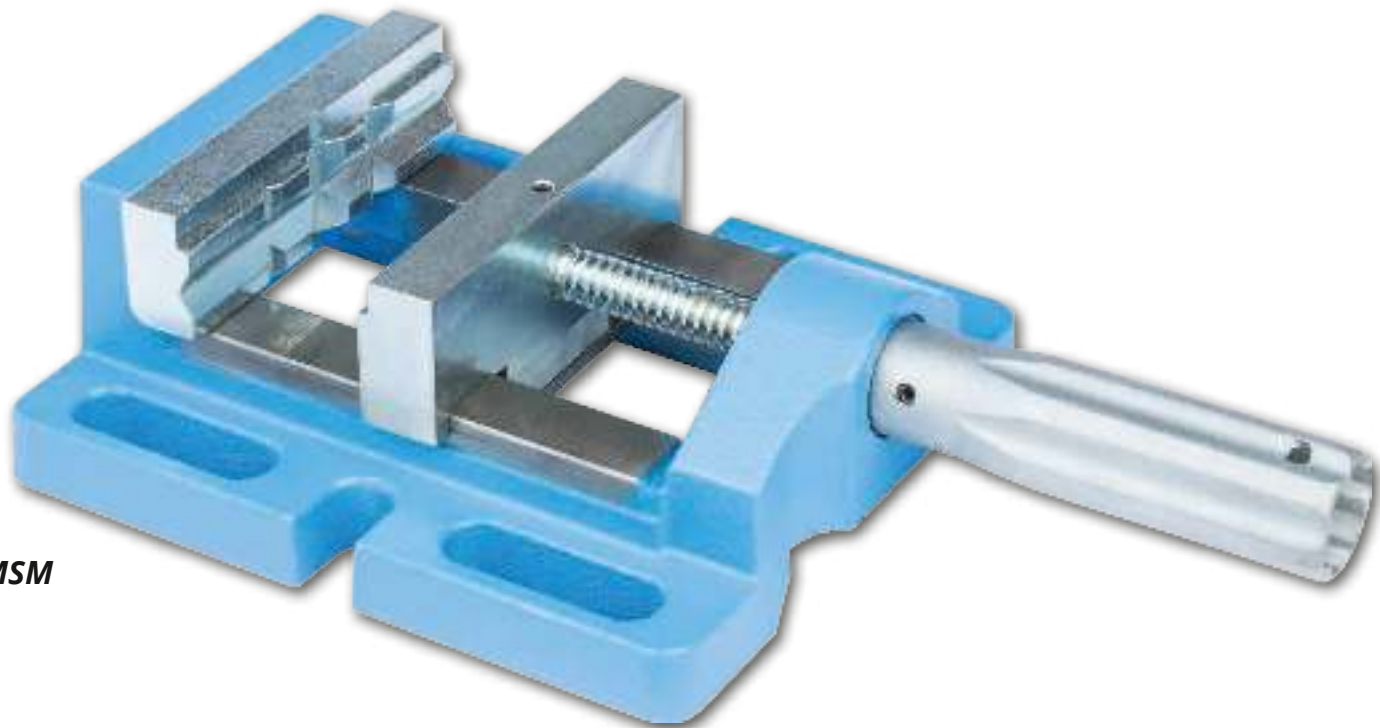
Clamping examples



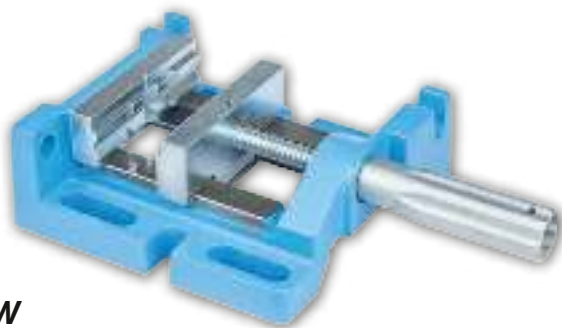
	A	B	C	D	E	F	G	H	K	Weight (kg)
MSP 80	80	80	200	140	60	100	140	40	M 10	5.0
MSP 100	100	90	220	175	75	125	150	40	M 12	7.5
MSP 120	120	120	260	215	86	160	170	40	M 16	11.5
MSP 140	140	155	300	220	86	165	210	40	M 16	13.5

MSM - Medium-heavy machine vices
Optimal machine vices for drilling, flow-drilling and tapping. With precise outside guidance, covered spindle running inside of ergonomically designed hollow handle, accurately milled seating surfaces.
MSM 120 with high-precision jaw guiding because of additional cast iron jaws guided on the outside.

MSW - Angle machine vices
General purpose angle machine vice with 100 mm jaw width and three plain milled seating surfaces for processing parts in two or three vertical levels at one clamping.



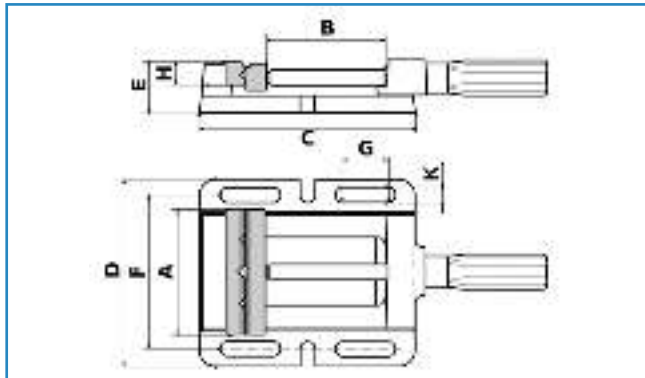
MSM



MSW



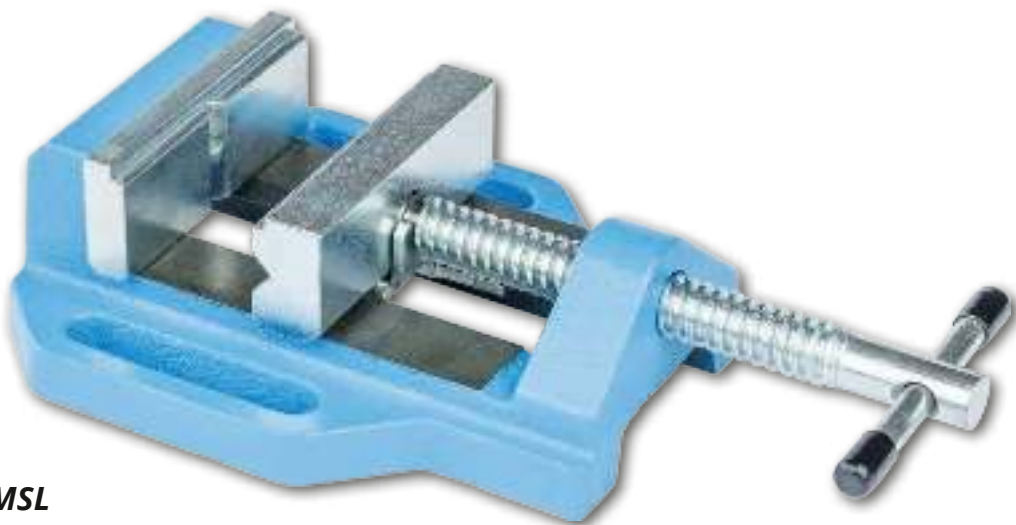
MSW



	A	B	C	D	E	F	G	H	K	Weight (kg)
MSM 85	85	70	155	144	62	110	30	30	M 10	3.3
MSM100	100	95	175	152	64	125	35	30	M 12	4.0
MSM120	120	105	225	180	65	148	48	30	M 12	6.6
MSW100	100	85	185	154	64	125	32	30	M 12	4.9

MSL - Light machine vices
for the ambitious do-it-yourselfer. Base made of machine casting, jaws and spindle made of steel, with practical and captive insert-through locking handle.

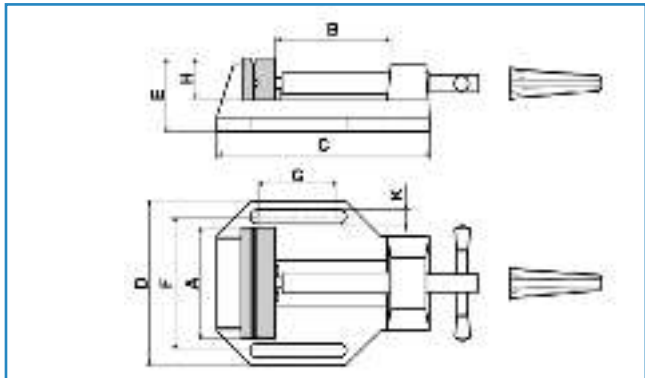
MSS - Machine vices with quick adjustment
Quick adjustment of span width by the push of a button.
Handy and precise design. For drilling, assembly and model making.
Base made of zinc die casting, spindle and jaws made of steel.



MSL



MSS



	A	B	C	D	E	F	G	H	K	Weight (kg)
MSL 63	63	65	125	105	43	80	45	25	M 8	1.2
MSL 80	80	85	150	130	45	100	60	25	M 12	1.7
MSS 63	63	65	225	98	52	80	50	25	M 8	0.8
MSS 80	80	80	240	115	52	95	60	25	M 8	0.9

Pneumatic vices for working safely and efficiently in serial production, operation by means of hand- or optional foot valve. Controllable for automatic operations via drilling or tapping machine, or when using feeding systems for material handling. Attention: only for lubricated compressed air!

MSD 100 Clamping force adjustable up to max. 6,000 N at 7 bar. Fast adjustment of span width because of self-locking and additionally lockable trapezoidal threaded spindle.

MSD 140 Strong and precise vice equipped with pull-down jaws, clamping force adjustable up to max. 11,000 at 7 bar. Adjustment of span width via fixed jaw, which engages into base toothing.



MSD 140

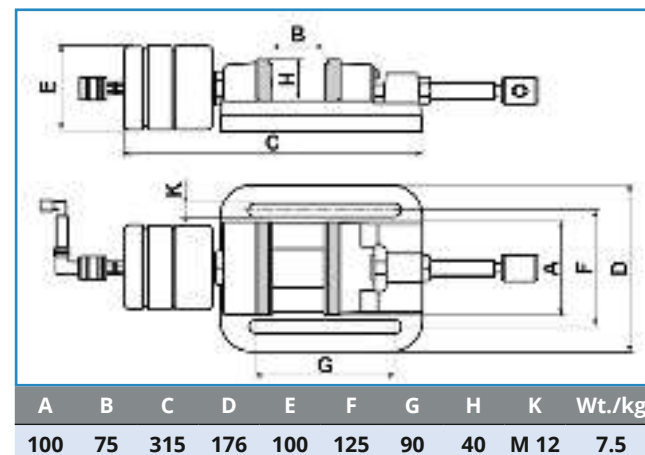
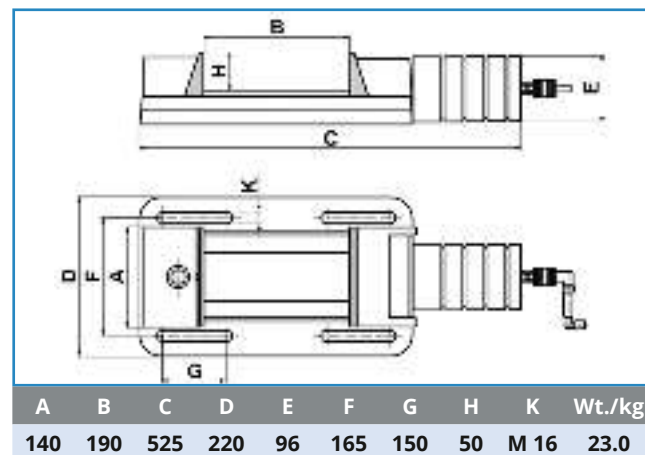
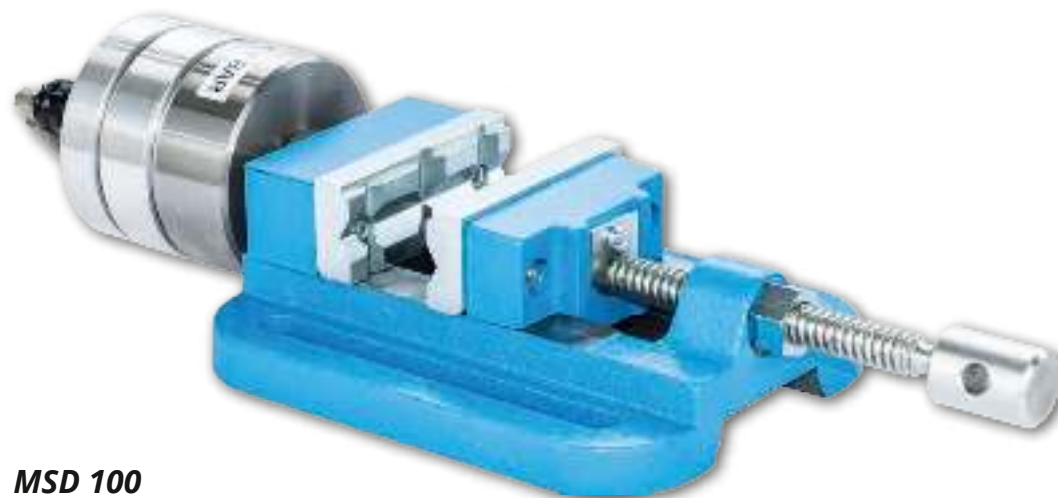
Scope of supply

- Filter controller
- Non-return valve
- Hand slide valve
- 2 m of flexible tube

Option:

- Foot valve
- Pneumatic oiler set

MSD 100



Spindle made of machinery steel, zinc coated and chromated. Body made of precision steel tube, blue coated, RAL 5012. Fast height adjustment with Allen key. Self-locking metric thread for fine adjustment of height. Stacked applicable. Thread M16 in base of screw jack.

Available as set with transport cart or individually, see table.

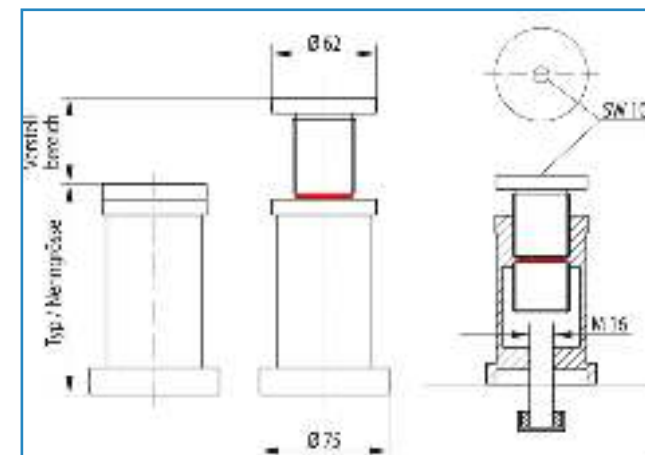
Transport cart with each 4 screw jacks of types MB 125, MB 175, MB 275, MB 400 and MB 525. Dimensions: 500 x 800 x 1,050 mm



Clamping example



Transport cart



MB	adjusting range (mm)	load capacity (kN)
MB 125	125 - 175	58
MB 175	175 - 275	58
MB 275	275 - 400	58
MB 400	400 - 525	58
MB 525	525 - 650	50
MB 650	650 - 775	35
MB 775	775 - 900	26
MB 900	900 - 1,025	20

Feed units PV



Pneumatic-hydraulic feed unit for productive, semi-automatic drilling up to 12 or 16 mm drilling capacity. Stepless adjustable automatic feeds.

As option also available with retention time at drilling ground and chip breaking function/foot switch for feed start.

Working cycle:

- 1. Rapid feed to workpiece
- 2. Drilling with constant, stepless feed rate
- 3. Rapid return to start position

Technical data	PV 12	PV 16
max. spindle travel	UNIMAX 1 - 78 mm	BT 15/18/20 - 78 mm
max. feed rate	3,000 mm/min	2,300 mm/min
max. compound power at 5 bar	2,100 N	3,300 N
max. compound power at 6 bar	2,500 N	4,000 N
max. compound power at 7 bar	3,000 N	4,800 N
Repetition accuracy of the spindle	0.1 mm	0.1 mm
Air consumption	1.2 l per stroke	1.8 l per stroke

Cross tables



Cross tables
For approaching X / Y positions.

Digital display table axes
Optional for: MF - 2, MF - 3, MF - 4

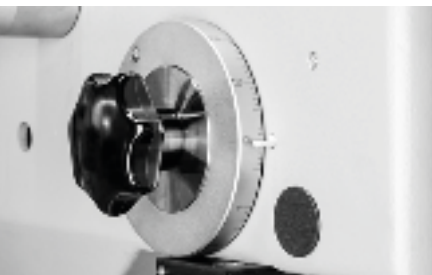


Digital display

Techn. data	MF-0	MF-2	MF-3	MF-4
for machines	UNIMAX 1	BT 6, UNIMAX 2	BT/BS 18, BT 20, UNIMAX 2 / 3	BT/BS 35, BS 50, UNIMAX 4
Table surface	230 x 164 mm	430 x 240 mm	600 x 240 mm	800 x 240 mm
X / Y traverse	120 / 110 mm	240 / 160 mm	350 / 160 mm	470 / 245 mm
Weight	16 kg	57 kg	74 kg	110 kg
X axis motorized	—	—	Option	Option

Technical information

Drilling depth stop



Star knob control



Automatic feed is easily switched on/off by pushing the feed lever slightly in- or outwards. For machines with tapping unit the rotating direction is changed when pushing the feed lever.

quick-release drill chuck

1 - 13 mm
3 - 16 mm



Tap holder



Drill chuck taper

MT 1 - 5



Milling chuck

ER 32



Collet chuck ER 32



Clamping range 3 - 20 mm

Milling chuck HW 3 - 25



With 16 collet chucks 4 -25 mm in the box

Die holder

Picture including intake and die



For dies MT 2 or MT 3, corresponding die holder necessary!

Die cutter intake



For various dimensions

Lead screw



For various tapping sizes

LED machine light



24 V / 230 V, 3 W

LED spot light



230 V, 1.95 W

Multi spindle heads
Revolving drilling heads

On request



Floor units ECOMAX 14



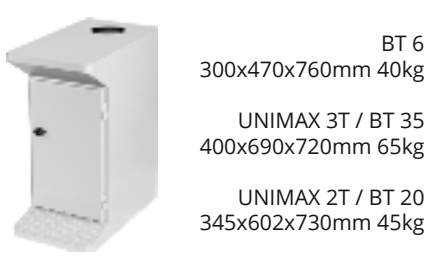
600 x 700 x 840mm, 60kg

Floor units UNIMAX 1



225 x 380 x 660mm, 15kg

Floor units BT6 / BT35 / UNIMAX



BT 6
300x470x760mm 40kg

UNIMAX 3T / BT 35
400x690x720mm 65kg

UNIMAX 2T / BT 20
345x602x730mm 45kg

Drill Packages



Picture alike

Drill Package 1	order no.: 58288
1 drill chuck taper	MT 2 / B 16
1 reduction insert	MT2 / MT1
1 machine vice	MSP 80
1 quick-release drill chuck	1 - 13 mm / B 16

Drill Package 2	order no.: 45105
1 drill chuck taper	MT 2 / B 16
1 reduction insert	MT2 / MT1
1 machine vice	MSP 120
1 quick-release drill chuck	3 - 16 mm / B 16

Drill Package 3	order no: 37705
1 drill chuck taper	MT 3 / B 16
2 reduction inserts	MT3 / MT2, MT3 / MT1
1 machine vice	MSP 140
1 quick-release drill chuck	3 - 16 mm / B 16

Drill Package 4	order no.: M00018
1 drill chuck taper	MT 4 / B 16
3 reductions inserts	MT4 / 3, MT4 / 2, MT4 / 1
1 machine vice	MSP 140
1 quick-release drill chuck	3 - 16 mm / B 16

Electric cooling unit



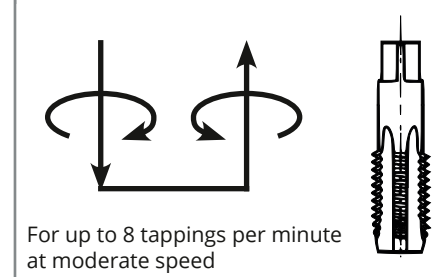
With provided 20 litre coolant tank including pump, pipe connections, flexible outlet and shut-off valve

Cooling unit



in baseplate with T-slots for BS 35, BS 50, UNIMAX 4 Basic / Basic + and UNIMAX 4 (controlled)

Tapping unit



For up to 8 tappings per minute at moderate speed

Flanged quill



RAL - special colours



Foot impulse switch



Security against torsion



3 automatic feeds (fixed steps) for drilling



Table adjustment on front side



Height adjustment on front side



MKF Quick clamping device



Digital display for drilling depth



Extended column

200 mm for bench machines
100 mm for column machines
Other lengths on request.

Minimum quantity lubrication system



Including 1.2 l storage tank and activation, also available with multiple nozzles (flexible or rigid).

Motorised height adjustment



Drilling depth with fine adjustment



Two-hand start



Chip tray



Motorised height adjustment



Including safety stop in end position, manual clamping

Fine adjustment cam for tapping depth



Further or individual options and accessories on request

More than 20 years experience in deep hole drilling

- Manufacturing of hydraulic - and temperature control circuits, as well as every other kind of deep hole drilling
- Angular drillings in two angles
- Machining of different tool shapes and materials
- Highly demanding machining, also for materials with difficult machining characteristics
- Most modern data acquisition and -processing (IGES, CATIA V5, STEP)
- Customer-specific special solutions can be realized in short-term
- Extensive tool stock guarantees short-term processing time

Deep hole drilling, CNC-milling, -turning and -cylindrical grinding

The expert for deep hole drilling in Thuringia



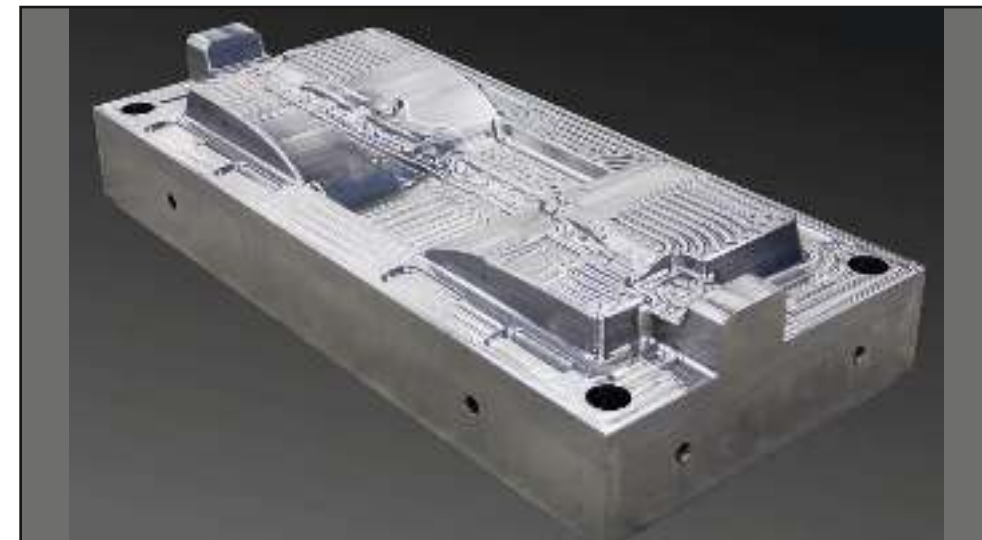
DEEP HOLE DRILLING:

- **Drilling capacity:**
3.0 mm - 36 mm
- **Maximum travel**
X 2,000 mm
Y 1,100 mm
Z 2,000 mm
- **Maximum weight**
12 t
- **Maximum drilling depth**
1,900 mm from one side



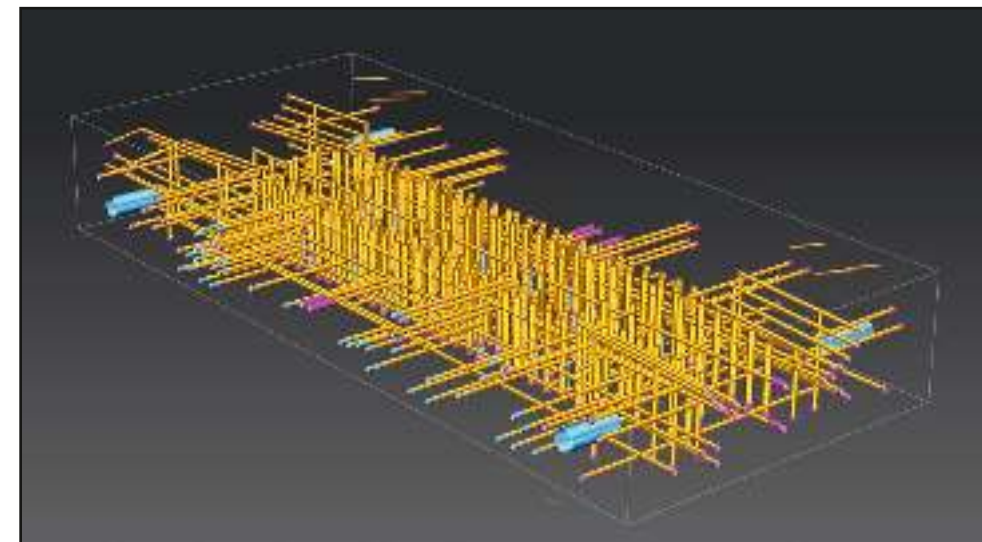
MILLING:

- **Maximum dimensions**
X 3,000 mm
Y 1,700 mm
Z 850 mm
- **Maximum weight**
7 t
- **Range of application**
Pre-roughing of 3D contours
Face milling
Pocket milling
Slot milling
Column drillings



GENERAL:

- **Range of application**
Glass moulds
Injection moulding tools
Moulding dies
Die-cutting tools
- **Materials**
Steel (up to 45 HRC)
Stainless steel
Aluminium
Copper
Brass
PVC
Cast iron
Hastelloy
Densimet
Inconel
Titan



fast, precise, cost-effective

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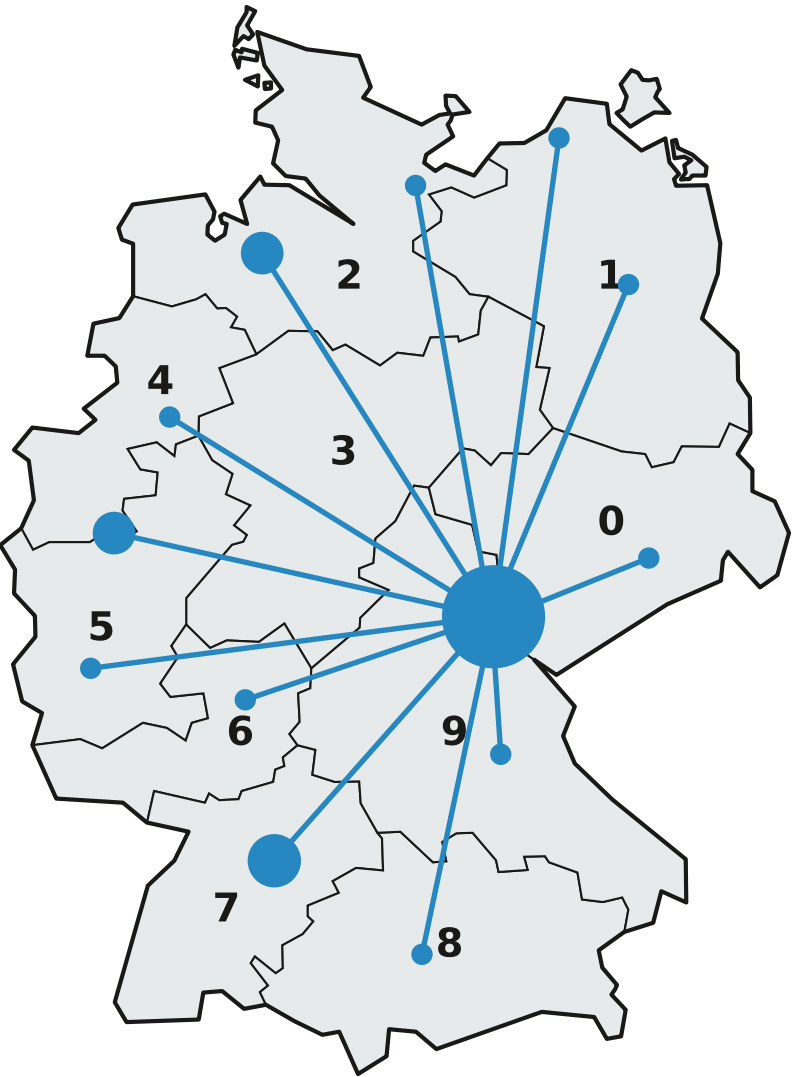
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Feel free to ask for spare parts for your
MAXION and IXION machines.
We maintain for you an extensive stock of spare parts.

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Shipping standards	
CE	Following EU-Machinery Directive.
Colour	Machine grey RAL 7037, machine cover blue 5012, special colour against additional charge.
Electricity	230 / 400 V 50 Hz 3-/5- conductor net. Special electrical system against additional charge. All machines delivered with a 3 m connecting cable and CEE-plug-5 pole/shock-proof plug.
Drill guard	All machines are serially equipped with electrically secured drill guard.
Safety	Machines with fixed rpm steps are serially equipped with automatic spindle stop and anti-restart protection



Good service for your success

Because of our well developed dealer network we are able to solve your service cases in a short time. Our big spare parts stock guarantees short access time. We can supply you with spare parts for all MAXION machines as well as for many IXION drilling machines. Even when your machines are older than 30 years, please feel free to send your request:

We are pleased to help you !

In case you need spare parts or service please contact:

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Rosa-Luxemburg-Str. 5
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Germany
Tel.-Nr. +49 3647/4106-18

Delivery conditions and warranty

We are delivering according to VDW 502, latest edition, ORGALIME General Conditions SE 2001 latest edition, and to our standard business conditions. Non-obligatory guide prices, VAT and packing excluded. Delivery ex works. Warranty period in Germany two years, apart from wearing parts. Changes and errors excepted.



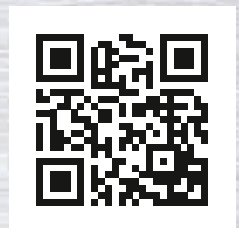
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Changes and errors excepted.
Version 09/18