



# MAXION®

## Drilling & Tapping Machines.

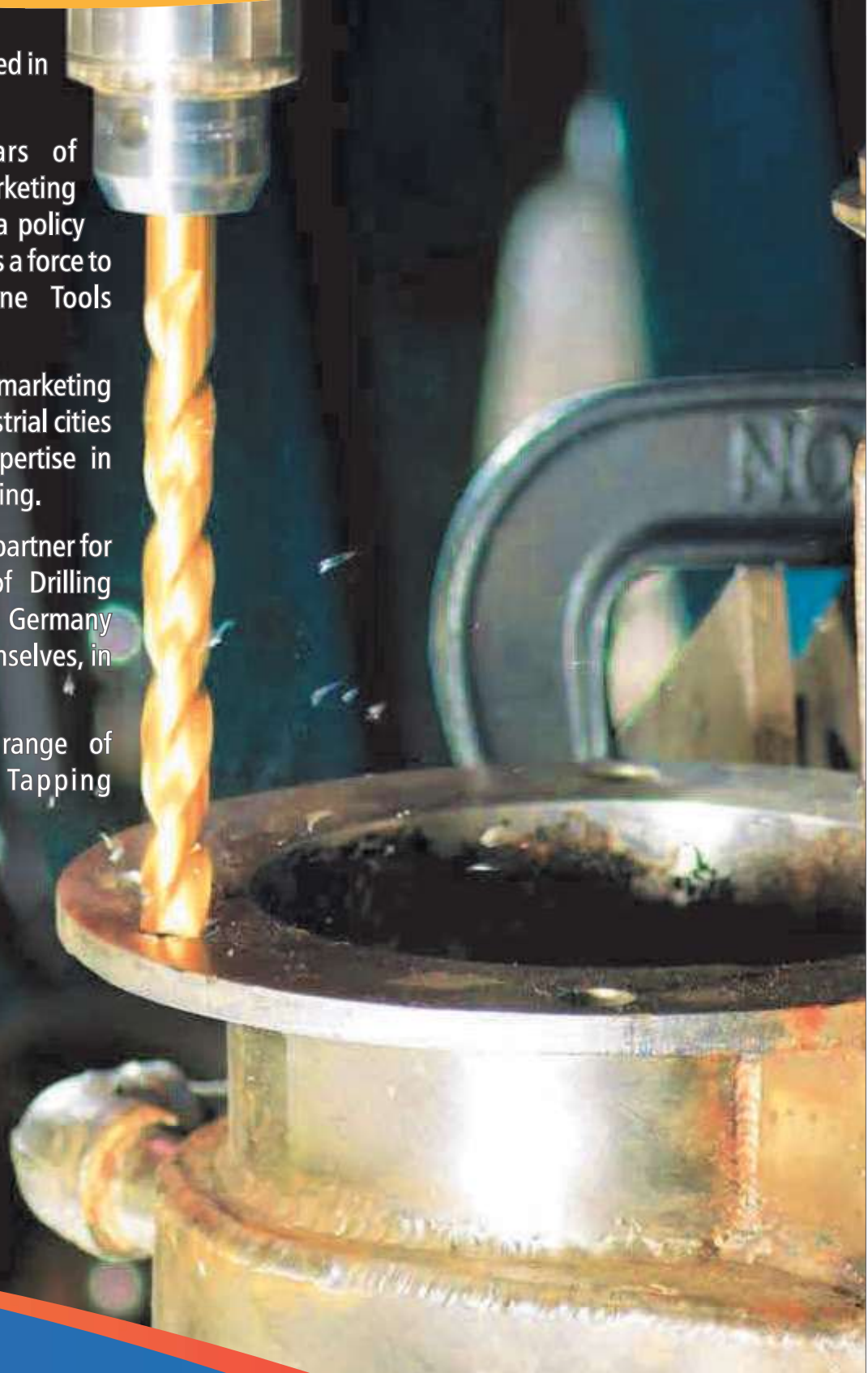
**amt** Group was incorporated in 1982.

Over the last 25 years of Manufacturing and Marketing Experience Supported by a policy of innovation, **amt** Group is a force to be reckoned in Machine Tools Industry.

**amt** Group today has a marketing network in almost 20 industrial cities across India. With an expertise in Marketing and Manufacturing.

**amt** proves to be an ideal partner for contract manufacturing of Drilling Machines for **MAXION**, Germany who wish to establish themselves, in India

**amt-MAXION** offers a range of Precision Drilling & Tapping Machines.





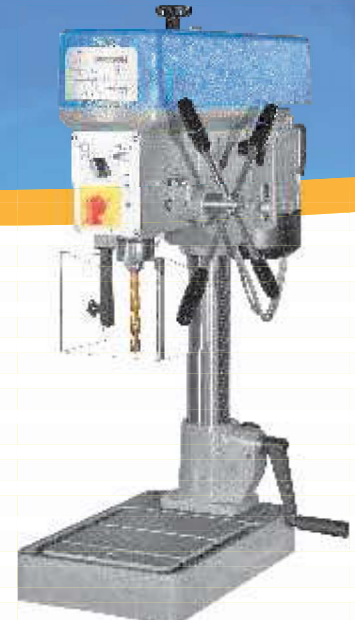
### ECOMAX 14

Precise, smooth running and newly designed standard drilling machine, many options already included. Motor protection.



### UNIMAX 1 TAP

Very powerful, universal bench drilling machine with integrated tapping unit and programmable digital display, Motor protection, Star lever, Electric Connection 230 V.



### BT 18

Sturdy precision drilling machine, Headstock precisely adjustable to optimal working height. Motor protection, cross lever.

Constant Capacity in ST60	14 mm	Constant Capacity in ST60	15 mm	Constant Capacity in St 60	18 mm
Standard Capacity	15 mm	Standard Capacity	18 mm	Standard Capacity	20 mm
Spindle	MT 2	Tapping Capacity	M 8	Tapping Capacity	M 16 (1)
Spindle Travel	70 mm	Spindle	MT 2	Spindle	MT 2
Spindle to Column	180 mm	Spindle Travel	80 mm	Spindle Travel	100 mm
Spindle to Table	up to 380 mm	Spindle to Column	180 mm	Spindle to Column	215 mm
Spindle to Base	529 mm	Spindle to Table	up to 380 mm	Spindle to Table	150 bis 450 mm
Table Surface	250 x 220 mm	Table Surface	250 x 220 mm	Table Surface	220 x 285 mm
Column Diameter	65 mm	Column Diameter	65 mm	Column Diameter	75 mm
Total Height	890 mm	Total Height	910 mm	Total Height	max. 950 mm
Weight	63 kg	Weight	80 kg	Weight	85 kg
Pole Changing Motor	0.5/1.0 kW	Integrated Tapping Unit		Pole Changing Motor	0.6/1.2 kW
	400 V/50 Hz	Frequency-controlled	1.1 kW	<b>BT 18</b>	<b>66402</b>
Digital Rotation Speed Display		3-phase AC motor		10 Rotation Speeds	240 - 3,800 rpm
Table Adjustment via Rack & Pinion		<b>UNIMAX 1 TAP</b>	<b>M00017</b>	<b>BT 18 ST</b>	<b>66403</b>
<b>ECOMAX 14</b>	<b>M00012</b>	Inclusive Tapping Unit		Stepless Rotation Speeds	100 - 1,800 rpm
Stepless Rotation Speeds	420 - 2,100 rpm	Stepless Rotation Speeds	200 - 4,000 rpm	<b>BT 18 ST</b>	<b>66404</b>
		Rotation Speeds for Tapping	200 - 700 rpm	Stepless Rotation Speeds	200 - 3,600 rpm
				Column Longer by 200 mm	14154

Manufactured by

**MAXION**<sup>®</sup>

**MAXION Jansch & Ortlepp GmbH**

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### BT 6

Sensitive precision drilling machine, extremely smooth running. In particular suitable for precision and electronic engineering. Motor protection.



### UNIMAX 4 Basic

Universal and very modern column drilling machine with MT 4, tapping unit, enormous capacity and good price-performance ratio. Digital rotation speeds and drilling depth display. Cross lever. Chip breakage.



### BRK 18

The BRK 18 multi-head units are mounted on box-type stands and can be supplied with 3, 4, 5 or 6 units. Each box-type stand has two storage shelves. The heavy torsion resistant cast-iron table has two T-slots. The electrical equipment is clearly laid out in a central terminal switch-box.

Drilling Capacity in St 60	0.5 - 6 mm
Spindle	B 12 or MT 1 (1)
Spindle Travel	55 mm
Spindle to Column	180 mm
Spindle to Table	135 to 380 mm
Table Surface	220 x 285 mm
Column Diameter	75 mm
Total Height	max. 800 mm
Weight	73 kg
Pole Changing Motor	0.37/0.6 kW
<b>BT 6</b>	<b>66391</b>
8 Rotation Speeds	630 - 7,100 rpm
<b>BT 6</b>	<b>66392</b>
8 Rotation Speeds	900 - 10,000 rpm
<b>BT 6</b>	<b>66393</b>
8 Rotation Speeds	1,080 - 12,000 rpm
Albrecht Super Chuck 6 mm	
Chuck Range up to 6 mm	44052
Spindle MT 1	47291

Constant Capacity in St 60	35 mm
Standard Capacity	40 mm
Tapping Capacity	M 30
Spindle	MT 4
Auto Feed Stepless Variable	20 - 400 mm/min
Drilling Depth Programmable	175 mm
Distance Spindle / Table	70 - 830 mm
Distance Spindle to Column	300 mm
Table Surface	550 x 400 mm
Column Diameter	120 mm
Total Height	1,980 mm
Weight	450 kg
Pole Changing Motor	1.5/3.0 kW
Operating Voltage	400 V
Frequency	50 Hz
Power Fuse	16 A
<b>UNIMAX 4 Basic</b>	<b>M00014</b>
Tapping Unit Included	
Stepless Rotation Speeds:	
Range A	120 - 2,500 rpm
Range B	60 - 1,250 rpm
Functions	Chip breakage
Option Chip Removal	M00015
Option Free-cutting Device	M00016

Distance Between Units	370 mm
Height of Table	860 mm
Length of Table = Number of Heads x 370 mm	
Depth of Table	460 mm3
Throat Working Depth	340 mm
Alternative Heads:	
	BT 6, BT 18, BT 15 G, BT 15 GL, BT 15 GLE
	For PV Empty Location Necessary.
	The total cost of a BRK 18 multi-head unit is calculated from the required base, i.e. table bed & cast pedestals, plus the relevant individual prices of the units mounted.
<b>Base BRK 18/3</b>	<b>61931</b>
<b>Base BRK 18/4</b>	<b>61990</b>
<b>Base BRK 18/5</b>	<b>61991</b>
<b>Base BRK 18/6</b>	<b>61992</b>
Electrical Coolant Equipment	14247
60   Best Price.	
Extra Charge for Each Connected Unit	14248



**BT 15 GL <sup>(3)</sup>**

High performance tapping machine with lead screw & optimum safety arrangement for prevention of tool breakage, Programme for drilling single & continuous cycles. Electronically controlled motor breaking for single cycle operation. Simple replacement of lead screw by means of quick coupling. Detachable feed lever supplied.

Tapping Capacity	M 3 - M 10
Threads per Hour	1,000
Standard Capacity	15 mm
Spindle	MT 2
Depth of Thread	60 mm
Spindle Travel	100 mm
Spindle to Column	215 mm
Table Surface BT 15 GL	220 x 285 mm
Column Diameter	75 mm
Total Height BT 15 GL	max. 950 mm
Weight BT 15 GL	95 kg
Special Motor	0.55 kW
<b>BT 15 GL as Bench Machine</b>	<b>66418</b>
4 Rotation Speeds	320 - 1,600 rpm
<b>BS 15 GL as Column Machine</b>	<b>66420</b>
Mechanical Equipment like	BS 18
Leadscrew	115
Leadscrew < 0.5 mm	116
and/or left-hand threads	
Bottoming Release Switch	14210
Force Ventilated Motor	14216
Column Longer by	14154
200 mm for BT	



**BT 23 GL <sup>(3)</sup>**

High performance tapping machine with lead screw & optimum safety arrangement for prevention of tool breakage, Programme for drilling single & continuous cycles. Electronically controlled motor breaking for single cycle operation. Easy change of lead screw by means of quick coupling. Detachable feed lever supplied.

Tapping Capacity	M 3 - M 20
Threads per Hour	1,200
Standard Capacity	28 mm
Spindle	MT 3
Depth of Thread	90 mm
Spindle Travel	120 mm
Spindle to Column	260 mm
Spindle to Table	220 to 600 mm
Table Surface	390 x 420 mm
Column Diameter	110 mm
Total Height	max. 1,200 mm
Weight	270 kg
Special Motor	0.9 kW
<b>BT 23 GL as Bench Machine</b>	<b>13562</b>
5 Rotation Speeds	100 - 900 rpm
<b>BT 23 GL as Bench Machine</b>	<b>73957</b>
5 Rotation Speeds	150 - 1,350 rpm
<b>BS 23 GL as Column Machine</b>	<b>73958</b>
5 Rotation Speeds	100 - 900 rpm
<b>BS 23 GL as Column Machine</b>	<b>73959</b>
5 Rotation Speeds	150 - 1,350 rpm
Leadscrew	119
Leadscrew < 0.7 mm and/or left-hand threads	120
Bottoming Release Switch	14211
Force Ventilated Motor	14227
Column Longer by	14167
200 mm for BT 23 GL	



**BS 25 AVST**

• Powerful and precise universal column drilling machine with stepless drive mechanism. • Electro-magnetic clutch for feed. • Table adjustable via rack and pinion, rotatable around column. • Motor protection, Depth and RPM indicator. • Machine base with T-slots.

Constant Capacity in St 60	25 mm
Standard capacity	32 mm
Spindle	MT 3
Automatic Feed	0.1-0.16-0.25mm/turn
Spindle Travel	120 mm
Spindle to Column	260 mm
Spindle to Table	90 to 760 mm
Spindle to base	1320 mm
Table Surface	500 x 365 mm
Column Diameter	110 mm
Weight	285 kg
Pole Changing Motor	0.8/1.5 KW
Stepless Rotation Speeds	120-2200rpm (approx.)
Mode of spindle travel	Manual & Auto
T-slot on work table (Size & Qty.)	(14 mm x 2Nos.)
T-slot on Base (Size & Qty.)	(14 mm x 2Nos.)
Dimension (LxWxH)	900x600x1850mm
<b>Available with XY Table</b>	
<b>Extra Attachment</b>	
<b>Numerical Control (NC) XY Table</b>	
<b>Work Table</b>	<b>600x240mm</b>
<b>X-Y Stroke</b>	<b>350/160mm</b>

\* This model is now also manufactured in India by **amt** under Licence from **MAXION Jansch & Ortlepp GmbH**

## PRECISION DRILLING & TAPPING MACHINES



- High precision spindle made from alloy steel, hardened & precision ground.
- Hard chrome plated column.
- Graded casting (Stress relieved).
- Alloy steel gears.
- Spindle auto reversal for tapping cycle.
- Robust construction.
- Motor with electrical fitments is a standard feature.
- Machine lamp - a standard feature.
- Stringent quality checks at every level.
- Test chart is provided with every machine.
- Spindle run-out accuracy is within 10 microns.
- Easy belt changing through rack and pinion mechanism.
- Dynamically balanced v-belt pulleys guarantee of secure power transmission even in the lower rotation speeds.
- Machine is recommended for **Thermal Drilling Operation**.

Description	Unit	DB/DC-23	TDB/TDC-23	DB/DC-28	TDB/TDC-28
Drilling Capacity in Steel (MS)	mm	Ø 23	Ø 23	Ø 28	Ø 28
Tapping Capacity in Steel (MS)*	mm	--	M14	--	M16
Spindle Nose Taper	MT	MT2	MT2	MT3	MT3
Threading on Spindle OD	Metric	M32 x 1.5P	M32 x 1.5P	M35 x 1.5P	M35 x 1.5P
Spindle Stroke Max. for Drilling	mm	125	125	125	125
Spindle Stroke Max. for Tapping	mm	--	100	--	100
No. of Spindle Speed	Nos	8	8	8	8
Range of Spindle Speed	rpm	112-2800	56-1400	112-2800	56-1400
Mode of Spindle feed for Drilling	Mode	Manual	Manual	Manual	Manual
Mode of Spindle feed for Tapping	Mode	--	Manual	--	Manual
Column Diameter	mm	80	80	80	80
Spindle to Column Face	mm	240	240	240	240
Spindle face to Work Table	mm	308/600	308/600	308/600	308/600
Clamping area on Work Table	mm x mm	240 x 240	240 x 240	240 x 240	240 x 240
T Slot on Work Table (Size x Qty)	mm x Nos	12 x 2	12 x 2	12 x 2	12 x 2
Spindle face to Base Plate	mm	600/660-1150	600/660-1150	600/660-1150	600/660-1150
Base Plate Working Area (Std)	mm x mm	250 x 250	250 x 250	250 x 250	250 x 250
Base Plate Working Area (Coolant)	mm x mm	250 x 280	250 x 280	250 x 280	250 x 280
T Slot on Base (Size x Qty)	mm x Nos	14 x 2	14 x 2	14 x 2	14 x 2
Main Motor Power**	HP	1/1	0.75/0.75	2	1.5
Net Weight (Approx)	Kgs	165/180	167/182	165/180	167/182
Dimensions (WxDxH)	mm	380x700x1130/ 480x740x1700	380x700x1130/ 480x740x1700	380x700x1130/ 480x740x1700	380x700x1130/ 480x740x1700

\* Spindle auto-reversal facility to enable tapping operation.

\*\* Motor power can be increased upto 3 HP to enable **Thermal Drilling Operations**.

**Available Accessories** : Anti-vibration mounts, External coolant attachment, Albrecht key-less drill chuck, Clamping vice, Reducer sleeve, Cabinet, and Lock Nut are available as per the customer requirement at extra cost.