



Manufacturing • Marketing • Sourcing

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**DRILLING & TAPPING SOLUTIONS**

[www.amtplindia.com](http://www.amtplindia.com)





### BT 18 GL

High performance tapping machine with lead screw. Safety arrangement for prevention of tool breakage. Programme for tapping single and continuous 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

Tapping capacity	M3 - M10
Threads per hour	1,000
Standard capacity	15 mm
Spindle	M1 2
Depth of thread	60 mm
Spindle travel	100 mm
Spindle to column	250 mm
Spindle / Table	185-541 mm
Table surface	340 x 445 mm
T-slot width	12 mm
Column diameter	90 mm
Total height	1,050 mm
Weight	120 kg
Special motor	0.55 kW
Mains connection	400 V / 50 Hz
4 fixed spindle rpm steps	320 rpm
	560 rpm
	1,000 rpm
	1,600 rpm
Standard packaging	89x52x127 cm

#### Optional / Accessories

- Lead screw
- Tap holder
- Bottoming release switch
- Force ventilated motor
- Column longer by 200 mm for BT 18 GL
- Foot impulse switch
- Minimum quantity lubrication system
- Floor units



### UNIMAX 2S TAP

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 TAP

Constant capacity in E 335	18 mm
Standard capacity	20 mm
Tapping capacity	M 16 in S235
Spindle	M1 2
Spindle travel	100 mm
Spindle to column	225 mm
Spindle / table	55 to 860 mm
Table surface	450 x 315 mm
T-slot width	14 mm
Column diameter	90 mm
Total height	max 1,745 mm
Weight	170 kg
Frequency-controlled motor	1.5 kW
Mains connection	230 V / 50 Hz
LED machine light	included
Stepless spindle rpm	
Drilling Range A	100-2,000 rpm
Drilling Range B	200-4,000 rpm
Tapping Range A	100-500 rpm
Tapping Range B	200-1,000 rpm
Standard packaging	220x74x125 cm

#### Optional / Accessories

- Tap holder
- Minimum quantity lubrication system



### SPEEDMAX

Precision drilling machine for drillings starting from 0.2 mm. Variable frequency drive with digital RPM indicator. Very high spindle concentricity < 0.005 mm. Optional visualization by camera and collet set are available at extra cost.

#### Technical data SPEEDMAX

Standard capacity in E 335	0.2 - 4 mm
Spindle / Collet	ER 11
Spindle travel	55 mm
Spindle to column	215 mm
Spindle to baseplate	60 to 345 mm
Table surface	280 x 475 mm
Total height	780 mm
Weight	51 kg
Motor	0.75 kW
Stepless spindle rpm	700-24,000 rpm
Mains connection	230 V / 50-60 Hz

#### Optional / Accessories

- Visual display camera
- Collet set



Manufactured by

**MAXION®**

MAXION Jänsch & Ortlepp GmbH

Web : [www.maxion.de](http://www.maxion.de)



## MAXTAP / JOBTAP

Reliable tapping machine for quality-orientated tapping respectively thread moulding M1 to M 18, screw in of thread inserts, 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.

Maxtap / Jobtap	G5	G8
<b>Tapping performance</b>		
X5CrNi189/1.4435	M1-M5	M2.5-M8
95Mn28/1.0415	M1-M6	M2.5-M10
AlCuMgPb3.1645	M1-M6	M2.5-M12
Max.tapping depth / stroke	45/65 mm	75/85mm
Insert holder	SW5 0	SW5 1
quick change system	incl.5 inserts	incl.6 inserts
Insert holder / spindle	B 10	B 12
Distance tool holder/work table	0-280 mm	0-400 mm
Torque range Mz (stepless)	5-220 Ncm	50-700 Ncm
Spindle speed range (stepless)	250-2,200 rpm	300-3,000 rpm
With	323 mm	312 mm
depth	510 mm	530 mm
Height	780 mm	930 mm
Weight net	51.4 kg	61.7 kg
Column (adjustable with hand wheel)	600 mm	750 mm
base plate in mm	280x475x50	280x475x50
2 x T-slot	M 12x14	M 12x14
Mains voltage	230 V/50-60 Hz	230 V/50-60 Hz
Power consumption	300 W	2,900 W



## BS 25 AVST

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

Technical data	BS 25 AVST
Constant Capacity in St.60	25 mm
Standard capacity	32 mm
Spindle	M13
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 (over)
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)	900x500x1850mm

Available with XY Table

Extra Attachment	
Numerical Control (NC) XY Table	
Work Table	600x240mm
X-Y Stroke	350/150mm

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



## GANG DRILLING MACHINES



- The AMT multi-head units are mounted on box-type stands and can be supplied with 2, 3, 4, 5 or 6 units.
- The heavy torsion resistant fabricated table has 2 T-slots.
- It also has a storage shelf.
- The electrical equipment is clearly laid out in a terminal switch box
- Alternative heads :  
BT6, DB 23/28, TDB 23/28,  
BS 25 AVST, TDB 23/28 VFD
- Electrical coolant unit at extra cost.
- Other accessories see back page.



**MAXION**

# AMT PRECISION DRILLING & TAPPING MACHINES



**Drilling Machine with Auto Feed**



**Drilling & Tapping Machine with Variable Frequency Drive (VFD)**



**High Speed Micro Drilling Machine**

Description	Units	DB 23A
Drilling capacity in steel	mm	Ø 20
Spindle Nose Taper	MT	MT2
Spindle stroke max. for Drilling	mm	125
No. of spindle speed	Nos	8
Range of spindle speed	rpm	112 - 2800
Mode of spindle feed for Drilling	Mode	Automatic
Column Diameter	mm	80
Spindle to column face	mm	240
Clamping area on work table	mm x mm	240 x 240
Spindle face to Work Table	mm	308/600
T Slot on Work Table (Size x Qty)	mm x Nos	12 x 2
Spindle face to Base Plate	mm	600/660-1150
Base Plate Working Area (Std)	mm x mm	250 x 250
Base Plate Working Area (Coolant)	mm x mm	250 x 280
T Slot on Base (Size x Qty)	mm x Nos	14 x 2
Main Motor Power**	HP	1/1
Net weight (Approx.)	kg	165
Dimensions	mm	380x700 x1130

- Delta make PLC with HMI
- Program for drilling single & continuous cycle
- Stepper motor - 870 kg-cm
- Helical gear box

Description	Units	TDB-23V
Drilling capacity in steel	mm	4-20
Tapping capacity in steel	M4-M12	
Step less Rotation speeds		
Range A	rpm	230 - 770
Range B	rpm	845-2800
Spindle	mm	M1 2
Spindle travel	mm	125
Spindle to column	mm	240
Column Diameter	mm	80
Table surface	mm	240x240
Make		ABB
Model		ACS 150
Frequency control 3-Phase motor	2HP, 50Hz, 415 V	
Spindle to column face	mm	240
Clamping area on work table	mm x mm	240 x 240
Spindle face to Work Table	mm	308/600
T Slot on Work Table (Size x Qty)	mm x Nos	12 x 2
Spindle face to Base Plate	mm	600/660-1150
Base Plate Working Area (Std)	mm x mm	250 x 250
Base Plate Working Area (Coolant)	mm x mm	250 x 280
T Slot on Base (Size x Qty)	mm x Nos	14 x 2
Main Motor Power**	HP	1/1
Net weight (Approx.)	kgs	165
Dimensions	mm	380x700 x1130

- Digital Display for RPM
- Reverse forward switch for tapping
- Adjustment of speed via. potentiometer
- Machine is suitable for Thermal drilling operations.

Description	Units	BT 6
Drilling capacity in steel	mm	0.7-6
Spindle		B12
Spindle travel	mm	55
Spindle to column	mm	180
Spindle to table	mm	135 to 380
Table surface	mm	220 to 285
T-slot width	mm	12
Column diameter	mm	75
Total height	mm	800
Weight	kg	73
Pole changing motor	kw	0.37/0.6
Mains connection 3 phase		400 v / 50 Hz
8 fixed spindle rpm steps	rpm	900-10,000
Standard packaging with cabinet	mm	890x520x1270

**Machine Features :**

- Sensitive precision drilling machine with very high concentricity, especially for electronic & precision engineering
- Spindle run out accuracy maintained within 10 microns at spindle nose.
- Column adjustable via rack & pinion arrangement.
- Dual speed motor
- Mode of spindle feed for drilling - Manual

Note : These models are available in column type configuration



## AMT PRECISION DRILLING & TAPPING MACHINES

- High precision spindle made from alloy steel, hardened & precision ground.
- Graded casting (Stress relieved).
- Alloy steel gears.
- Spindle auto reversal for tapping cycle.
- Robust construction.
- Motor with electrical fittings 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	EQ-16TD
Drilling Capacity in Steel (MS)	mm	Ø 23	Ø 23	Ø 28	Ø 28	Ø 16 / 18
Tapping Capacity in Steel (MS)*	mm	--	M14	--	M16	M8 / 10
Spindle Nose Taper	MT	MT2	MT2	MT3	MT3	MT-2
Threading on Spindle OD	Metric	M32 x 1.5P	M32 x 1.5P	M35 x 1.5P	M35 x 1.5P	M32 x 1.5P
Spindle Stroke Max. for Drilling	mm	125	125	125	125	125
Spindle Stroke Max. for Tapping	mm	--	100	--	100	100
No. of Spindle Speed	Nos	8	8	8	8	4
Range of Spindle Speed	rpm	112-2800	56-1400	112-2800	56-1400	355-2000
Mode of Spindle feed for Drilling	Mode	Manual	Manual	Manual	Manual	Manual
Mode of Spindle feed for Tapping	Mode	--	Manual	--	Manual	Manual
Column Diameter	mm	80	80	80	80	80
Spindle to Column Face	mm	240	240	240	240	240
Spindle face to Work Table	mm	308/600	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	Ø 300
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	600
Base Plate Working Area (Std)	mm x mm	250 x 250	250 x 250	250 x 250	250 x 250	250 x 280
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	2	2	0.5
Net Weight (Approx)	Kg	165/180	167/182	165/180	167/182	150
Dimensions (WxDxH)	mm	380x700x1130/ 480x740x1700	380x700x1130/ 480x740x1700	380x700x1130/ 480x740x1700	380x700x1130/ 480x740x1700	308x700x1130

\* 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 are available at extra cost.

# ACCESSORIES

Keyless Drill Chuck



Cabinet Box



External Coolant System



Anti vibration Mounts



Clamping Vice



Reducer Sleeve MT3 to MT2



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