

DRILLING / TAPPING SELF FEEDERS



AUTO DRILLING / TAPPING MACHINE



**DRILLING / TAPPING MACHINES
(TABLE TOP MODEL)**



Auto Drilling Machines

SALIENT FEATURES

- > Inbuilt cylinder for Quill movement provides direct force to the drill.
- > Tested @ 1.5 kg/cm² for free movement & 75 kg/cm² for Force withstand.
- > Precisely bored & honed cylinder with hot chrome plating.
- > Seals can withstand up to 200 kg/cm² & 120° C.
- > Types of spindles to customer's different applications
- > Non-contact type proximity sensors for Limit settings
- > Safety stopper at end position
- > Ideal for mass production with using its accessories
- > Self feeder units are ideally designed for low cost automation
- > It provides unmatched versatility as single/multi spindle units
- > Mounting can be done at any position as required
- > Ergonomically designed cabinet
- > By using these units customer can fabricate low cost drilling /tapping SPM's

Drilling self feeder units



Drilling machines - Table top model



Models

- RVD 6 – 60 – P – S / T / M
- RVD 12 – 80 – P – S / T / M
- RVD 20 – 125 – P – S / T / M
- RVD 20 – 125 – H – S / T / M
- RVD 25 – 150 – H – S / T / M

- > 6, 12, 20 & 25 – Max. Drilling Cap. in steel of 400N/mm²
- > 60, 80, 125 & 150 – Total stroke of the quill
- > P – Pneumatic operated
- > H – Hydraulic operated
- > S – Self feeder unit
- > T – Table top model
- > M – Machine

Auto Drilling Machines



❖ Technical Data of the Drilling machines

Model	RVD 6-60-P	RVD 12-80-P	RVD 20-125-P	RVD 20-125-H	RVD 25-150-H
Drilling Capacity (mm) In steel of 400 N/mm ²	6	12	20	20	25
Quill Movement (mm)	60 (Pneumatic)	80 (Pneumatic)	125 (Pneumatic)	125 (Hydraulic)	150 (Hydraulic)
Feed Movement (mm) [Option]	25 [50]	25 [50]	25 [50]	60	75
Spindle bore (PB / ER / MT)	16 / 20 / 1	20 / 25 / 1	25 / 32 / 3	25 / 32 / 3	36 / -- / 3
No. of speeds	3	3	5	5	5
Spindle Speed (min – max) (rpm)	1200 – 3500	750 – 3000	500 - 2500	500 - 2500	250 – 1500
Spindle Motor (3ph, 415V, 50Hz) (kW)	0.55	0.75	1.1	1.1	1.5
Spindle Concentricity (mm)	0.02	0.02	0.03	0.03	0.05
Thrust (kgf @ kg/cm ²)	135 @ 5	200 @ 5	330 @ 5	1328 @ 20	1500 @ 20
Fluid flow rate req. (lit /min)	0.4	0.8	1.96	1.96	2.9
Details for Machines					
Distance from Table to Spindle (mm)	400	400	600	600	800
Distance from Column to Spindle (mm)	180	180	220	220	240
Work table size (mm)	260x300	260x300	330 x 360	330 x 360	330 x 360
Dimension [without base – Table top model] (mm)	450x550x950	450x550x950	500x650x1280	500x650x1280	500x650x1280
Dimension [with base] (mm)	640x600x1800	640x600x1800	900x960x1800	1160x1350x1800	1160x1350x1900
Hyd. motor (3ph, 415V, 50Hz) (kW)	-----	-----	-----	0.75	0.75
Coolant motor (3ph, 415V, 50Hz)	0.11(kW)	0.11	0.11	0.11	0.11
Spindle Types & Sizes					
* PB – Parallel Bore 16, 20, 25 & 36 mm					
* ER – ER collet type 20, 25, 32 mm					
* MT – Morse Taper 1, 2 & 3					
* Electrical panel & Hyd. Power pack / pneumatic valves are optional accessories for all self feeder units					

Auto Tapping Machines

❖ Technical Data of the Tapping machines

Models:		
RVT 8 – 50 – S / T / M		
RVT 16 – 60 – S / T / M		
* 8 & 16 – Max. Tapping Cap. in steel of 400N/mm ²		
* 50 & 60 – Total stroke of the quill		
* S – Self feeder unit		
* T – Table top model		
* M – Machine		
Model	RVT 8-50	RVT 16-60
Tapping Capacity (mm) In steel of 400 N/mm ²	8	16
Quill Movement (mm)	50	60
Spindle bore (PB / MT)	16 / 1	20 / 3
No. of speeds	3	3
Spindle Speed (min – max) (rpm)	400 - 1350	150 – 520
Tapping pitch (Standard)	0.4, 0.5, 0.6, 0.8, 1.0, 1.25	1.5, 1.75, 2.0, 2.5, 3.0
Spindle Motor (3ph, 415V, 50Hz) (kW)	0.55	1.5
Distance from Table to Spindle (mm)	300	450
Distance from Column to Spindle (mm)	200	280
Work table size (mm)	330x360	330x360
Dimension [without base – Table top model] (mm)	450x550x950	450x550x950
Dimension [with base] (mm)	640x600x1800	640x600x1800
Coolant motor (3ph, 415V, 50Hz) (kW)	0.11	0.11
Spindle Types & Sizes		
* PB – Parallel Bore 16, 20, 25 & 36 mm		
* MT – Morse Taper 1, 2 & 3		
* Electrical panel is optional accessories for all self feeder units		
* Pitches other than standard will be supplied at additional cost		



Accessories



Hydraulic Power Pack

Pump: 5.4 lpm,
Electric motor: 0.75 kW/440V/1440 rpm,
Tank capacity: 35 litres.

Electrical Control Panel

Individual operations,
Auto cycle function



Linear indexing table

No. of stations: 2
Max. Stroke: 200 mm

Rotary indexing table

No. of stations: 4 / 6 / 8
Pneumatic operated



OTHER PRODUCTS

- SMID - Capstan Lathes
- Multi Spindle Drilling Heads
- Drilling & Tapping SPM
- Deep Hole Drilling SPM
- Friction Stir Welding Machine
- RV - Single Spindle Automate Lathes
- Rapid Series CNC Chucker
- Heavy Duty Drilling SPM
- Friction Welding Machine



ISO 9001 : 2008 CERTIFIED

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• Due to continual improvement designs are subject to change with out prior notice.