



F 3000

SUITABLE FOR SINGLE & BI-LAYER

HIGH QUALITY R&D & SMALL SCALE BATCHES

SINGLE ROTARY TABLET PRESS (Suitable for Single & Bi-Layer)

FULLY AUTOMATIC WITH 21 CFR PART 11 COMPLIANCE

20 STN "D" Tooling/ 24 STN "B" Tooling / 32 STN "BB" Tooling

With pre compression of 5 tons. With main compression of 10 tons.

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SALIENT FEATURES

- Single Rotary Tablet Press with Bi-Layer Facility.
- In Compliance with cGMP.
- Specially designed heavy C.I. Structure.
- Centre drive fitted with gear box.
- Main Electric Motor for Turret drive with AC VFD
- 3 Piece Turret with Die - Table SS-316L & Upper & Lower Piece Electro-Less Nickel Plated.
- Motorized Lower Pre- Compression of 5 TONS. (50 KN)
- Motorized Lower Main Compression of 10 TONS. (100 KN)
- Motorized dozer for 1st filling and 2nd filling, To precise Depth of Fill adjustment for each Layer.
- Ejection Force Monitoring Available with CFC System.
- Motorized force feeder with Zero Clearance advance system
- AC Variable Drive Force Feeding System.
- Load cell at Pre- Compression & Main Compression
- Industrial PC, having 15" Colour Touch Screen.
- Vibration free and easy to operate at 50 RPM.
- Upper Punch Main Penetration 2mm to 8mm.
- Upper Punch Pre- Press Penetration 2mm to 8mm.
- Machine is Four Sided open with Upper Guards; Control Panel is Separate.
- With interlock switches to all upper guards.
- Sliding Type Per & Main Upper Pressure Roll Assembly.
- Auto Sampling based on, either time or revolution or punch nos.
- Initial Startup & Stop Rejection.
- Auto Weight Control & Single Tablet Rejection through Compaction Force Control - CFC.
- Fully Computerized PLC Based Industrial Touch Screen Control.
- Encoder System for Better Accuracy
- Powder Level Sensor
- Auto Lubrication
- Bi-Layer System (Optional)
- Graphical appearance of the value of pressure on individual punch at pre and main pressure.
- Recipe management & 'n' No. of recipe storage.
- Reports Available (Audit/Alarm/Recipe/Product/Machine)
- Server integration (Optional)



TECHNICAL SPECIFICATIONS

TYPE	F 3000 - 20D	F 3000 - 24B	F 3000 - 32 BB	F 3000 -10D+10B	F-3000 – 6D+6B+6BB
Number of Station	20	24	32	10+10	6+6+6
Type of tooling (As Per EU1)	D	B	BB	D+B	D+B+BB
OutputTablets/hour (Min / Max.) (Single Layer)	12,000 / 60,000	14,400 / 72,000	19,200 / 96,000	6,000 / 30,000	3,600 / 18,000
OutputTablets/hour (Min / Max.) (Bi-Layer)	12,000 / 30,000	14,400 / 36,000	19,200 / 48,000	6,000 / 15,000	3,600 / 9,000
Turret RPM (Min./Max.) (Single Layer)	10 / 50				
Turret RPM (Min./Max.) (Bi-Layer)	10 / 25				
Max. Operating pressure-Main (kN)	100				
Max. Operating Pre.Pressure-Tamp.(kN)	50				
Max. Tablet Diameter (mm)	25	16	11	25+16	25+16+11
Max. Depth of fill (mm)	20	18	18	20+18	20+18
Max. Tablet Thickness (mm)	8.5				
Upper punch entry Main (mm)	2 to 8				
Upper punch entryPre-compression (mm)	2 to 8				
Main Electric Motor (kW/hp)	3.75 / 5 x 1440 RPM				
Main Pressure Roll Servo Motor (kW/hp)	0.75 / 1.0 x 3000 RPM				
Pre-Pressure Roll Servo Motor (kW/hp)	0.40 / 0.536 x 3000 RPM				
1st. & 2nd. Layer Weight Adj. Servo Motor (kW/hp)	0.4 / 0.536 x 3000 RPM x 2 Nos. = 0.8 / 1.072 kW/hp				
Feeder Ele. Motor (kW/hp)	0.090 / 0.1207 x 1440 RPM x 2 Nos. = 0.18 / 0.24 kW/hp				
Hopper Capacity	3.5 Litres				
Overall dimensions Close guard-(cm) L x W x H	107L x 140W x 178H				
Overall dimension Open guard –(cm) L x W x H	205L x 205W x 197H				
Net weight (kg)	1300 Kg. Approx				
Gross weight(kg)	1600 Kg. Approx				
Utilities:	1) Suction Air :- 300 CFM (Qty. - 01 for Single Layer) :- 300 CFM (Qty.- 02 for Bi Layer)				
	2) Compressed Air :- 7Kg/Sq.cm (7 Bar)				
	3) Power Supply :- (a) 415 V, 3 Phase, 50 Hz (b) 480 V, 3 Phase, 60 Hz (c) 220 V, 3 Phase, 60 Hz				
	4) Power-Total (kw/hp) :- 5.88kW / 7.85hp				

* Depending upon material characteristic & available room atmosphere only.

NOTE : DUE TO CONTINUOUS IMPROVEMENTS IN THE MACHINERIES, SPECIFICATION OF THE MACHINERIES IS SUBJECT TO CHANGE WITHOUT ANY PRIOR NOTICE.

- SELECTION OF POWER SUPPLY OUT OF (a) (b) (c), POINTS SHOULD BE MENTION CLEARLY AT THE TIME OF PREPARING PURCHASE ORDER.
- Pre-pressure and Main pressure could be changed depending on the size of the compress and filling depth, powder or granulation. It is dependent on the physical specification of the used material for the compress.
- The above specification is the subject to change without prior notice for the technical development.
- ** Tools only permit up to 70 kN.

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