

Bi Layer Tablet Press for R&D-SDL 2



Lab Press – SDL-2 is a High Tech Double Layer Rotary Tablet Press for R&D and small batch production. This Single sided R & D Double Layer Tablet Press fully conforms to GMP and the safety requirements. The Turret is driven centrally by a motor and Reduction gear box. The turret speed is adjusted by A.C. frequency drive. Its available in Regular Model D' Tooling or B' Tooling Multi Tooling – D+B Tooling or D+B+BB.

PECIAL FEATURES OF Lab Press SDL-2

- The speed of the Turret is adjustable through ACVF variable drive system.
- The Speed of the Force feeder Adjustable with A.C.V.F. Variable drives system.
- All Electrical Controls on Touch Screen.
- Excellent accessibility for quick cleaning and product conversion.
- Turret – Central drive Mechanism with Powerful Gearbox.
- Machine with Pre-Compression.
- Double Compression Mechanism for Double Layer Tablet.
- Dust Suction Nozzle Arrangement.
- Tablet Thickness & Weight adjustment controls outside compression zone.
- All critical parts made in CNC machines.
- Turret Die plate & material contact parts are made of SS 316.
- Three piece Turret with keyway to suites any shaped Tablet Punches.
- Outside controls for quick setting of Tablet thickness & Weight adjustment.
- Gravity feeding system for Easy charging of granules & minimum wastage of material.
- Force Feeder system for Second layer.
- First layer Pneumatic ejection for checking weight.
- Totally enclosed. GMP model.
- All Fasteners are of SS 304.
- All Guards magnet catch with Stainless steel Covers.
- All Bakelite Knobs Fixed with stainless steel threaded studs.
- Lower cam track can change without lifting Turret & no need of any setting.
- Charging Hopper with Powder Level window and material stop Cock facility.

- Turret Guard with full height to cover wiper seal area.
- Utilizes “TSM” or “EU” “B”, “D” and “BB” standard tool configurations.
- Lower roll carrier Oil tray with SS 304 material.
- All Electrical Components are CE approved.
- Lower Punch Wiper seal with NT6/a is an Acrylonitrile Butadiene Rubber of Hardness Shore ‘A’ 88°, Temp range 40°C to 100°C, surface roughness static – 0.8 μm with corrosion resistant metal ring houses NBR element for smooth Lower punch operations.
- Minimum 3 mm thickness tablet can be press.
- Bottom Plate inside/outside Cladded with SS 304.
- Turret & Cam Tracks Processed by Electrode less Nichol Plated (ENLP) for Long life.
- Special R & D Purpose machine with Combined “B”, “BB” & “D” Tooling available.
- Pressure Roller & Pins are processed with hard heat-treatment.
- Low noise level.
- Upper guard & Lower side guard interlocking for operator’s safety.
- Miniature Circuit Breaker for over load Protection as a Safety Feature.
- Electrical voltage & frequency can be provided as per customers’ requirements.

Technical Specifications:

MODEL (TOOLINGS)	‘B’	‘D’	‘B’ + ‘D’	‘B’ + ‘D’
No. Of Station	11	9	5+5=10	3+3+3=9
Material Feeding system		1st Layer Gravity Feeder & 2nd Layer Force Feeder		
Max. Compression Load		20 kN / 2 Tons		
1st Layer (Tons)				
Max. Compression Load		45 kN / 4.5 Ton		
2nd Layer (Tons)				
Max. Tablets Dia. (mm)	15	23	22 For “D” Tooling	22 For “D” Tooling
			15 For “B” Tooling	15 For “B” Tooling
				11 For BB’ Tooling
Max. Depth Of Fill		20 mm		
1st Layer				
Max. Depth Of Fill		8.5 mm		
2nd Layer				
Pneumatic Ejection		For Sample weight check – SHAKTI Dust Extraction Unit Required		
Sampling Device for		1st Layer by pneumatic ejection		
Weight check				
Turret Speed (RPM)	3 to 34	3 to 34	3 to 34	3 to 34
Output Tablets/ Hour *	22440	18360	10200	6120
[max]				
Output Tablets/ Hour *	1980	1620	400	540
[min]				
Both Hopper Capacity		1.5 +1.5 kg		
Air Pressure only for		4 Bar Air Pressure		
Pneumatic ejection model				
Main Electric Motor		2 HP, 1440 RPM, 3 Phase		
(Driven through ACVF)				
Force Feeder Motor		1/8 HP, 220v		
Electric Supply		Single Phase / Three phase		