



SINGHANIA[®]
TABLETING

50 YEARS OF EXPERTISE



Since 1969 we have and continue to excel in the field of manufacturing tablet compression tooling. In 1987 we capitalized on our acquired expertise and knowledge to bring to you our tablet presses.

DOUBLE SIDED TABLET PRESS

Adept Double Sided Presses (ADR) are extremely sturdy and simple to use. Unlike other presses they are smaller in height, hence much more rugged and stable. This also makes the hopper more accessible.

Special emphasis has been given to safety & durability while designing these machines resulting in features like:

- Turret of graded casting to minimise turret cracking. The Gear Ring of the turret is detachable to reduce replacement cost.
- Turret of graded casting with Electrolysis Nickel plating to avoid corrosion.
- Drive Shaft, Cams, Rollers and Pins made of Alloy Steel instead of Mild Steel for longer working life.
- Double key for Upper punch cam-plate to reduce chances of accidental cam-plate displacement.
- Tunnel tracks to ensure accurate lifting of upper punch thereby reducing accidents due to punch jamming, and minimising cam wear.
- Lower Pressure Rollers are fitted with bearing to minimise friction



FRONT CONTROL

Weight and thickness settings of the tablet can be done by control knobs situated on the front panel of press.



A.C. SPEED VARIATOR

An A.C. speed variator provides a smooth and easy way to control the speed of the press. It also offers a soft start option and a wider range of speed.



AUTO LUBRICATION

Auto Lubrication enables right quality of oil to different oiling points at regular interval by an electronic timer. This features ensures continuous oil and smooth running of the press.

MULTI CHAMBER FEEDER ASSEMBLY

Made from Food Grade Polymer, this is a simple solution to eliminate metal contamination caused by the feeder. Also, the increased number of chambers ensure uniform filling even at higher speeds.

SPRING PLUGS

Unlike the nylon plugs, the spring plugs do not need to be adjusted during each changeover. The lower punch can just be pushed back in without loosening the spring plugs thereby saving considerable time during cleaning or change over of toolings.

BI-LAYER PROVISION

All Adept ADR presses are Bi-Layer ready. The machine can be switched to bi-layer mode in less than 30 minutes by changing only 3 parts. It can also be fitted with a first layer ejection system which can be used for sampling only the 1st layer tablet while the press is in operation.

ADDITIONAL FEATURES:

- All product contact parts are of SS 316 or Electroless Nickle Plated
- S.S. parts fabricated using CNC Laser Cutting & CNC Bending machine for superior finish and better GMP compliance
- 5HP motor & 5HP VFD with Double V-Belt to ensure higher starting torque
- Upper safety guards of 10mm polycarbonate instead of acrylic
- Sensors for compression guards interlock system.

OPTIONAL FEATURES:

- PLC Control System With Touch Screen HMI
- Bi-Layer attachment with First Layer Ejection
- Spray System for Lower Punch Lubrication



Multi Chamber Feeder



Spring Plugs



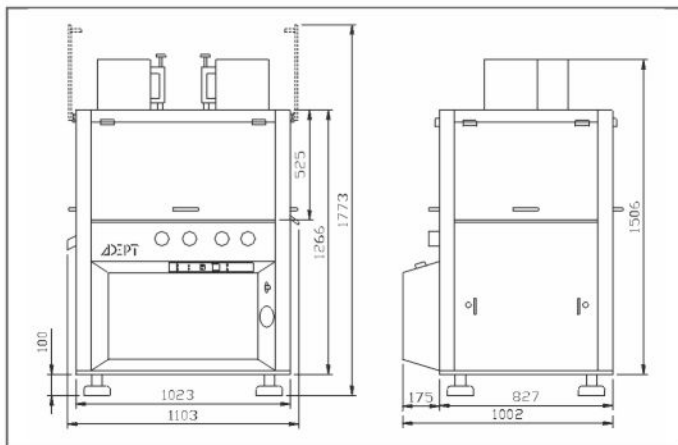
Bi-layer Tablets



TECHNICAL DETAILS - GMP & OPEN MODEL

MODEL	STATION	MAX PRESSURE IN TONS	ROUND - MAX DIA	CAPLET- MAX LENGTH	PUNCH			DIE			MOTOR*		TABLET OUTPUT PER HOUR	
					TYPE	DIA	HEIGHT	TYPE	DIA	HEIGHT	HP	RPM	@ 10 RPM*	@ 30 RPM
ADR D-D-27	27	10.0	25.0	25.0	D	25.40	133.6	D	38.10	23.81	5	1440	32,400	97,200
ADR B-B-35	35	6.5	18.5	19.0	B	19.05	133.6	B	30.16	22.22	5	1440	42,000	1,26,000
ADR B-BB-45	45	6.5	13.0	16.0	B	19.05	133.6	BB	24.00	22.22	5	1440	54,000	1,62,000
ADR A-A-59	59	6.5	10.0	NA	A	12.70	100.0	A	17.00	20.00	5	1440	70,800	2,12,400
ADR R&D-30	15	10.0	25.0	25.0	D	25.40	133.6	D	38.10	23.81	5	1440	18,000	54,000
	15	10.0	18.5	19.0	B	19.05	133.6	B	30.16	22.22	5	1440	18,000	54,000

* These Specifications are different for Open Model.



- Max fill depth - 17.50mm
- Upper punch entry - 1.5 to 8.0mm
- Hopper capacity - 15 liters
- Net weight GMP - 1250 kg
Open - 1000 kg
- Gross weight GMP - 1500 kg
Open - 1250 kg
- Machine dimensions GMP - 107 x 110 x 162cm
Open - 84 x 94 x 162cm
- Case dimensions GMP 1) - 140 x 140 x 170cm
2) - 75 x 50 x 30cm
Open 1) - 135 x 135 x 160cm



*specifications subject to change without notice