

ADEPT MEGA



SINGHANIA®
TABLETING

EXPERTS SINCE 1968

ADEPT | **CONCEPT ENGG.CO.** | **consonant ENGINEERING** | **mc Imperial Pharmachines** | **Pharmachine INDIA**

HIGH SPEED DOUBLE ROTARY TABLET PRESS

The Adept Mega Press is designed keeping in mind Adept's philosophy of providing simple and efficient solution. The Adept Mega Press not only gives a higher output but also guarantees minimum breakdown and maintenance. Special emphasis has been given on trouble free working and durability so that the machine can be used in a 24/7 working environment.

CENTER DRIVE

- The machine has true center drive, unlike the internal helical gear ring system
- There is no worm and gear ring on the turret mechanism there by reducing moving parts and minimizing maintenance
- Gear box is directly coupled to center shaft with a keyless coupling to ensure zero backlash



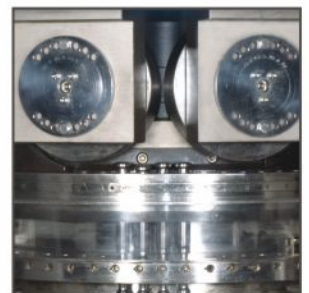
HYDRAULIC POWER PACK

- The compression springs are replaced by compact hydraulic power packs
- This system also acts as an overload release mechanism and can be used to measure the applied pressure in tons
- Pressure is applied directly on the compression axis ensuring more uniform pressure



10 TON PRE COMPRESSION

- Adept Mega Press is designed for 10 tons pre-compression load. The pre-compression pressure is also hydraulic
- Rollers are fitted with high load capacity bearings, which do not require continuous lubrication
- Rollers are of double thickness to increase dwell time
- All 8 rollers are identical and interchangeable



FRONT CONTROL SYSTEM

- Pre-Compression Pressure, Main Compression Pressure and Weight can be set using control knobs located on front panel
- The control knobs are calibrated and fitted with dial indicators
- All controls are connected using universal joints eliminating chain & sprocket mechanism



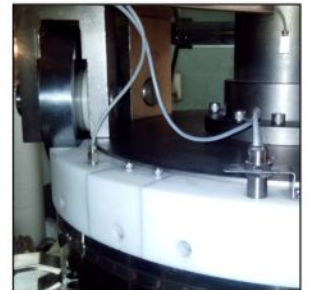
FEEDER SYSTEM

- Machine is fitted with a 3 chamber bottom driven rotary feeder
- The Rotary Feeder has an individual motor and A.C. Drive
- An overflow indicator is provided in the rotary feeder to prevent jamming due to excess flow
- The Adept Mega Press is also provided with a multi-chamber gravity feeder that is made of food grade polymer
- A common hopper is designed for both Rotary and Gravity feeder



PROFILE CAMS

- The cams cover upper punches completely protecting them from dust thereby preventing jamming
- The cams are made of a special polymer that reduces noise & friction



CONTROL PANEL

- Control panel is completely separate from the main machine. This prevents powder contamination
- All machine parameters are controlled through a PLC
 - Main Motor Speed
 - Feeder Speed
 - Hydraulic Pressure Setting
 - Lubrication System
 - Safety Interlock
- The PLC also stores and displays Pressure, Tablet count, Turret RPM, Motor Ampere, Product recipe and Batch data



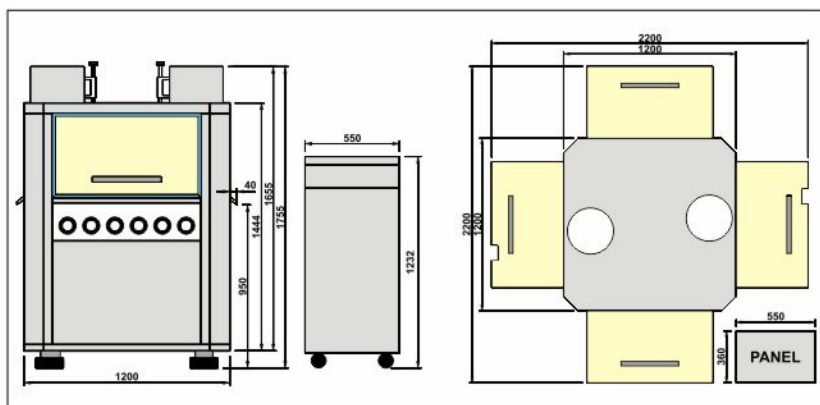
OTHER ADVANTAGES

- Machine has triple V belt for higher load requirements
- Upper Punch Penetration selection
- Auto lubrication for turret bearing, upper & lower punch head
- Spring loaded anti rotation plugs. No need to set the plugs everytime a lower punch is removed
- Upper & Lower Punch Collision prevention system
- Smallest footprint in category
- Contact parts of S.S. 316. All non-contact parts in compression zone are of S.S. 304 / ENP or Hard Chrome Plated
- S.S. fabrication is done using Laser Cutting & CNC Bending
- Proximity sensor for Acrylic Guards



TECHNICAL DETAILS

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	40 RPM
AMR D-D-45	45	10.0	25.0	25.0	D	25.40	133.6	D	38.10	23.81	10	1440	54,000	2,16,000
AMR B-B-61	61	6.5	18.5	19.0	B	19.05	133.6	B	30.16	22.22	10	1440	72,000	2,88,000
AMR B-BB-75	75	6.5	13.0	16.0	B	19.05	133.6	BB	24.00	22.22	10	1440	90,000	3,60,000
AMR A-A-101	101	6.5	10.0	NA	A	12.7	100.0	A	17.00	20.00	10	1440	1,20,000	4,80,000



- Max fill Depth - 20mm for D,
18mm for B tooling
16mm for A tooling
- Punch Penetration - 1.5 to 8.0mm
- Hopper Capacity - 20 litres
- Net Weight - 4000 kg
- Gross Weight - 4500 kg
- Machine Dimensions - 120 x 120 x 180cm
- Panel Dimensions - 55 x 40 x 125cm
- Case Dimensions - 1)150 x 150 x 200cm
2)80 x 80 x 150cm



*specifications subject to change without notice