

DOUBLE SIDED PRESS



Technical Advantages

Introduction

ADEPT Double Sided Tablet Press offers significant technical advantages that permit higher output and increased efficiency in production. Special emphasis has been given on durability while designing so that the machine can be used in a 24/7 production environment. The higher load bearing capacity of Adept Tablet Press makes it suitable for bigger tablets. The machine also offers flexibility to produce both single-layer and bi-layer tablets on the same platform. Below are the key technical advantages of the ADEPT Double Sided Tablet Press.



Easy Press Operation

The Double Sided GMP Model offers complete front control for both weight & thickness adjustment. The machine is also fitted with a Variable Frequency Drive for speed control and timer controlled automated lubrication system. The machine can be supplied with PLC if needed.

Higher Load Bearing Capacity

Adept Double Sided Tablet Press has been designed so that it can handle higher loads.

- The height of Adept Tablet Press is less by 20cms as compared to similar models. This lowers the machines centre of gravity thereby making it more stable.
- The main motor transmits power with double 'V' belts.
- Adept GMP model is fitted with a 5 H.P. motor and 5 H.P. VFD so that the machine can take higher loads. It also ensures that there is a higher starting torque.

Higher Output

The Adept Tablet Press is fitted with a special 'Multi-Chamber Feeder' that ensures uniform filling even at high speeds. The 'Multi-Chamber Feeder' is designed to ensure that the die cavity is always covered with granules. This allows you to run the tablet press at 50% more RPM than convention gravity feeders. The special design and extra filling chambers make the powder move in a serpentine motion thereby increasing filling time, which makes the feeder advantageous even for big tablets.

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Longer Life, Reduced Maintenance and Lesser Downtime

The machine not only offers higher load capacity & output, but also has features that reduce the maintenance requirement.

- The turret has tensile strength of 45 kg/sq.mm as compared to 25 kg/sq.mm offered by other manufacturers. This prevents cracking of die-table and multiplies turret life.
- Turret is fitted with thrust bearing at bottom to prevent friction between centre plate and turret.
- Turret Gear Ring is detachable and can be replaced in case it wears not. There is no need to change the entire turret, thereby reducing maintenance cost.
- Upper Punch Cam-plate has double key to reduce chances of accidental cam-plate displacement.
- Upper Punch lifting track is Tunnel type to ensure accurate lifting. This also minimises wear of lifting track and Upper Punch head.
- Drive shaft is of alloy steel to reduce wear and increase working life.
- Lower roller is fitted with bearing to avoid jamming.
- The upper roll and upper roll pin can be easily replaced without dismounting upper roll bracket. Only 2 bolts have to be opened to remove the upper roll and pin.
- A window is provided in the worm housing for quick inspection of worm.

Better GMP Compliance

The MOC and manufacturing processes employed ensures that the machine is GMP Compliant.

- All contact parts in compression zone made of S.S.316 including Hoppers & Discharge chute.
- All non S.S. parts in compression zone are Electroless Nickel Plated.
- The Turret Die Table has grinding finish thus has better RA value.
- Complete S.S. fabrication is done using Laser Cutting & CNC Bending machines to ensure minimum sharp corners, minimum crevices & smooth finished welds. It also gives a superior finish to the machine.

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Bi-Layer Conversion Capability

The 'Double Sided' tablet press comes prepared for bi-layer production. Just by changing 4 parts the machine can be used for Bi-Layer products.

To ensure minimum mixing of layers the machine has provision for feeder level adjustment so that powder does not escape the feeder. Also suction chambers are provided at the end of both feeders.

CE Complaint

For better operator safety, ADEPT Tablet Press adheres to CE requirements. All the electrical components are CE compliant and safety features like Tower Lamp, Multiple Emergency Switches... have been incorporated in the machine. CE Compliance certificate can be provided if desired.

Standard Features

- Auto Lubrication, which ensures that the right quantity of oil is supplied at regular intervals to all oiling points:
 - Compression Rollers
 - Upper Punch Head
 - Lower Punch Body
- Upper Punch Penetration Adjustment to help prevent capping. Range: 2mm to 8mm
- Detachable Electrical Panel Box for easy maintenance
- Smallest footprint: 110cm x 107cm x 162cm (W x D x H)