

## *MTP-8 Tablet Press*



MTP-8 Tablet Press is mainly used for pharmacy industry, but it is also fit for use in the chemical, food, electrical, metallurgy, and everyday product industry. It can compress almost any kind of raw material into any kind of tablets: circular tablet, abnormal shaped tablet, graphical tablet, double sided letter tablet, and it can even redesign the tablet to cope with the user's need. The model MTP-8 is especially suitable for the pharmaceutical R&D center; university labs; and hospitals and drug stores that requires a large-scale production.

### **Functional Parameter:**

1. Each tablet is within 1% of the average tablet weight
2. Single tablet weight difference:  $< 0.3g \pm 5\% \geq 0.3g \pm 3\%$
3. Final product percentage of passing:  $> 99\%$
4. Die disc combination and every part that have to contact the raw material are all made out of stainless steel to avoid rusting.
5. Upper and Lower punch holes has adopted oil impregnated bearing with special oil and dust prevention unit.
6. The continuously adjustable main pressure spring supports the machine.
7. Production output can be continuously adjusted and the machine comes with an up and low production imitates control. Half production is also available.
8. Display data such us formation pressure and production speed etc.
9. The tablets are formed by two process of compressing: pre-compressing and main compressing.
10. Powders are force filled by the double propeller.
11. Fully automatic lubrication system.
12. Able to compress abnormal shaped tablet.
13. Machine comes with a powder collector, additional auxiliary equipment such as vacuum cleaner and tablet filter can be installed as add-ons.
14. Sealed compressing chamber, designed to meet the GMP standard.
15. Machine come with pressure overload warning, emergency stopping and malfunction warning.

## Functional Parameter:

1. The main power and transmission system uses main motor and synchronization gear to drive the deceleration unit, which drives the main axle and the die disc combination. The motor itself has adopted a frequency converter to achieve continuous control over production speed.
2. Rectangular worm reduction unit that operates at low heat, high torque and transmission efficiency, very accurate, and at a very lower noise. These units also have the advantage of never need maintenance.
3. Stainless steel Machine's body structure.
4. Stainless steel upper, medium, and lower die disc combination, oil impregnated upper and lower plunger bearing, and a special die disc combination designed to avoid swinging off raw materials.
5. Direct connection between main axle and the die disc combination to avoid power loss.
6. Upper guide rail dish and connecting dish employs a unitary structure to achieve space efficiency.
7. Support spring provide a steady system pressure.
8. Fully automatic lubrication system.
9. Adjustable main pressure and upper plunger plunge depth.
10. The tablets are formed by two process of compressing.
11. Adjustable tablet thickness.
12. Forced loading mode for more filling efficiency.
13. Adjustable filling depth.
14. The die disc combination comes with a powder collector.
15. Glass door replaced traditional steel plate for more convenient supervising.
16. Threaded stainless steel transmission chamber for easier disassemble.
17. Threaded stainless steel control box.

## Mechanical Section:

1. A frequency converter maintains continuous control over motor and production speed.
2. Pressure detecting system, PLC, display screen, and approaching switch work together to provide compressing pressure, production speed, production amount, and weight difference alarm
3. Display screen allowing total control over entire production process
4. Panasonic made machine main components (frequency converter, programmable control unit, display screen, etc.), highly compatible and reliable

## Technical Parameters:

Model	MTP-8			
Dies (set)	8	10	14	16
Max Pressure (KN)	80	80	80	80
Max Pre-pressure (KN)	15	15	15	15
Max Tablet Diameter (mm)	25	16	25	16
Max Filling Depth (mm)	20	16	20	16
Tablet Thickness (mm)	0.5-8	0.5-8	0.5-8	0.5-8
Upper and Lower Plunger Diameter (mm)	25.35	19	25.35	19
Upper and Lower Plunger Length (mm)	133.6	133.6	133.6	133.6
Center Die Diameter mm)	38.1	30.162	38.1	30.162
Center Die Thickness (mm)	23.81	22.225	23.81	22.225
Max Speed of Main Shift (r/min)	50	50	50	50
Max Production Capacity (t/h)	24000	30000	42000	48000
Power Supply	3PH 380V/220V 50Hz/60Hz 3kw			
Dimension (mm)	835 x 705 x 1650			
Weight (kg)	900			