

Hand Operated Tablet Compression Machine



A Hand-Operated Tablet Compression Machine is a manual device used in small-scale laboratories or research settings to produce tablets for experimental or developmental purposes. It is commonly used in pharmaceutical, nutraceutical, and chemical industries for formulation development and testing.

Key Features:

1. Operation:

- Manually operated using a hand lever or wheel to compress powder or granules into tablets.
- Adjustable pressure to control tablet hardness and thickness.

2. Components:

- Die and Punches: Customizable to produce tablets of different shapes and sizes.
- Hopper: Holds the powder or granules for feeding into the die.
- Pressure Adjustment Knob: Allows control over compression force.

3. Applications:

- Small-scale production of tablets for R&D.
- Formulation development and optimization.
- Educational purposes in pharmacy and chemistry labs.

Uses:

- Ideal for prototyping new tablet formulations.
- Suitable for academic and research institutions.
- Used in quality control to test tablet properties like hardness, friability, and disintegration.