

## *High-Speed Rotary Tableting Machine "H" Series (JC-RT-16H/JC-RT-20H/JC-RT-24H)*



- Accurate tableting.
- Compression in two stages.
- Tableting compartment separated from drive mechanism.
- Easy maintenance & cleaning.
- Meets GMP.
- Efficient medium size production runs, with capacity up to 100000 table per hour.
- Laboratory and pilot plant studies.

### **Cam Design & Lubrication**

A Central lubrication system supplies oil continuously to lower punches, while grease applied manually lubricates upper punches. The ejection cam is manufactured from special tool steel for extended life, while a double sided lifting cam is provided.

### **Direct Rotation of Turret**

Direct rotation of the turret by the main shaft reduces the noise level; it provide maximum protection to the gears and the derive system.

### **Upper & Lower Punch Seals**

The scrapers seals for the upper punches prtect tables from oil drip, while the dust seals on the lowers prevent the punches from binding and reduce wear on the cam. This combined with an efficient dust extraction system allows prolonged run with little downtime for cleaning.

### **PRE-Compression and Main Compression**

High pre-compression of 3000 kgs insures trouble-free processing of difficult granules. It helps in the direct compaction of difficult granules. It helps in the direct compaction of materials, reducing lamination and capping. Pressure rollers are made of special tool steel that ensures uniform pressure application. The double bearings are fitted, which minimize wearing of the rollers.

### Feeding Material the feeder support

Platform is preset at the factory to the correct height and should not require adjustment. Quick release clamping screws allows removal of the feeder for cleaning and tool changeover without the need to disturb the feeder platform setting.

### Mechanical Feeder

The two chambers feeding system has been improved further. It is driven from top by a variable speed motor. The unit can be assembled or disassembled easily.

### Cleaning and Tool Changeover

The detachable panels can be removed easily, which reveal the entire bottom punch cams, This allows easy removal of the bottom punches. Upper punch monitoring device is available that would switch off the machine in the event of punch tightness.

### Specifications:

MODEL	JC-RT-16H	JC-RT-20H		JC-RT-24H
Type of tooling	EU"D"	EU"D"	EU"B"	EU"BB"
	IPT"D"		IPT"B"	IPT"BB"
Table diameter Max	25.4mm	19mm(caplet)	16mm	13mm
	1"	(0.74")	(0.625")	(0.50")
Production capacity (tablets/hour) *	17,000-6,9000	21,500-86,000		25,900-103,000
Revolution of turret / Min (60 cyc)*	18-72 RPM			
Depth of fill adjustable to	19mm (0.75")		17mm (0.67")	
Maximum operating pressure	10,000kgs (22,000lb)			
maximum pre-pressure	3,000kgs (6,600lb)			
Diameter of die	38.1mm (1.5")	30.16mm (1.1875")		24mm(0.945")
Height of die	23.81mm (0.9375")		22.22mm (0.945")	
Nominal diameter of punch body	25.4 mm (1")		19 mm(3/4")	
Turret P.C.D	253 mm			
Power consumption	3HP (2.2kw)			
Machine dimensions	850x790x1710mm (not including hopper)			
Net weight	1200 kgs (2646 lbs)			