

High Speed Rotary Tableting Machine SH-Series



Feature

High-Speed Single-Sided Rotary Tableting Machine Models: JC-SH-31D/JC-SH-39DB/JC-SH-39B/JC-SH-47BB

- 10 ton Pre & Main compression
- Up to 169,000 tph
- Large fill zone
- High capacity power and gravity feed frames
- Accurate tableting
- Compression in two stages
- Tableting compartment separated from drive mechanism
- Easy maintenance & cleaning
- Meets GMP

HAVE PROVEN TO BE RELIABLE FOR:

Efficient large size production runs, with capacity upto 169,000 tablet per hour.
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PRODUCTION AREA

Direct rotation of the turret by the main shaft reduces the noise level. The gearbox, with a casehardened nickel steel ground worm and bronze worm wheel (dia 500mm), it provides maximum protection to the gears and the drive system.

** Operator control panel is designed with controls and indicating devices to minimize operator attention.*

SAFETY DEVICE

Upper punch monitoring device is available that would switch off the machine in the event of punch tightness.

MECHANICAL FEEDER

The two chambers feeding system is driven from top by a variable speed motor. The unit can be easily assembled or disassembled for cleaning.

PRE-COMPRESSION AND MAIN COMPRESSION

For successful high speed tablet production of difficult and direct compression material, the large diameter of pre-compression roll (196mm) increase punch dwell times and allows for difficult formulations to be processed at high speed without loss of tablet quality.

CLEANING AND TOOL CHANGEOVER

The detachable panels can be removed easily, to expose the entire lower punch cams, and simplify the removal of lower punches & dies.

UPPER & LOWER PUNCH SEALS

The scrapers seals for the upper punches protect tablets from oil dripping, while the dust seals on the lowers prevent the punches from binding and reduce wear on the cam. This features combined with an efficient dust extraction system allows prolonged run with minimum downtime for cleaning.

Specifications

MODEL	JC-SH-31D	JC-SH-39DB	JC-SH-39B	JC-SH-47BB
Type of tooling	IPT"D"	EU"DB"	IPT"B"	IPT"BB"
	EU"D"		EU"B"	EU"BB"
Number of stations	31	39	39	47
Maximum tablet diameter	25.4mm	19mm(caplet)	16mm	13mm
	(1")	(3/4")	(5/8")	(33/64")
Production capacity (tablets/hour) *	27,900-111,600	35,100-		42,300-169,000
		140		
Revolution of turret / Min (60 cyc)	15-60 RPM			
Depth of fill adjustable to	19mm (3/4")		17mm (43/64")	
Maximum operating pressure	10,000kgs (22,000lb)		6,000kgs (13,200lb)	
Maximum pre-pressure	10,000kgs (22,000lb)		6,000kgs (13,200lb)	
Diameter of die	38.1 (1.5")	30.16mm (1.1875")		24mm (0.945")
Height of die	23.81mm (0.9375")		22.22mm (0.875")	
Nominal diameter of punch body	25.4 mm (1")		19 mm(0.75")	
Overall Length of upper Punch	IPT 133.35 mm (5.25") or EU 133.6 mm			
Overall Length of lower Punch	IPT 133.35 mm (5.25") or EU 133.6 mm			
Turret P.C.D.	490 mm			
Power consumption	5HP (3.7kw)			
Machine dimensions	900x1,100x1,750mm (not including hopper)			
Net weight	2,600 kgs (5,720 lbs)			