



## *High Speed Rotary Tableting Machine DSH Series*



### **Feature**

#### "DSH" Series High Speed

Double - Sided Rotary Tablet Machines, can be proven to be reliable for:

- High tablet output to 312,000 tablets per hour (tph)
- Max Pre-compression to 3 tons
- Max Main compression to 10 tons
- Bi-Layer tableting option
- For large batch production
- Allow for single layer tableting with double-sided output
- Accurate tableting
- Tableting compartment separated from drive mechanism
- Mechanical compression system
- Easy maintenance & cleaning
- Meets GMP

#### Meets GMP

A central lubrication system supplies oil continuously to lower punches, & upper punches.

The ejection cam is manufactured from special tool steel for extended life, while a double sided lifting cam is provided.

#### Safety device

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

#### Cleaning and tool changeover

The detachable panels can be removed easily, which reveal the entire lower punch cams. This allows easy removal of the lower punches.

#### Machine drive is completely separated from the press space

Direct rotation of the turret by the main shaft reduces the noise level. The gearbox, with a casehardened nickel steel ground worm and bronze wormwheel, provides maximum protection to the gears and the drive system.

#### 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 increases punch dwell time and allows for difficult formulations to be processed at high speed without loss of tablet quality.

#### Mechanical compression system

The design of mechanical compression system can be ensured for longer production runs.

Pressure rollers are made of special tool steel that ensures uniform pressure application, the double bearings are fitted, which minimize wearing of the rollers.

#### Upper & Lower punch seals

The scrapers seals for the upper punches protect tablets 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.

## Specifications

MODEL	JC-DSH-31D	JC-DSH-39DB	JC-DSH-39B	JC-DSH-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) *	52,000-200,000	65,000-260,000		78,000-312,000
Revolution of turret / Min (60 cyc)	14-56 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	3,000kgs (6,600lb)		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 (0.875")	
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)			