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HIGH SPEED ROTARY TABLET MACHINE (TWO-LAYER TABLETS & TWO-OUTLET)

TCS-HRT31BD2-SS

TCS-HRT39BD2-SS

TCS-HRT47BD2-SS

FUNCTIONS

- The machine is for making high production, high hardness and high precision of one-layer & two-layer tablets.
- Applicable to production of tablets for food, medicine, chemical and etc.

FEATURES

- Electrical control digital display meter adjusted device and button adjusted device are for adjustment in hardness, thickness and weight of pastilles.
- Can produce precise one-color and two-color tablets and also has one and two outlets.
- With dual pressing roller system: machine installs pre-pressing wheels and main-pressing wheels.
- Tableting area separates from rotary gear to reduce noise (it is a split-type).
- Upper thickness, medium thickness and lower thickness of two-color tablets are regulated by adjustment device.
- Large hopper and new three-phase feeding design are easily detachable and undetachable.
- Can use both optional fixed amount feeding device and forced feeding device to easily assemble and disassemble.
- Easy operation & cleaning as well as meet PIC/S GMP standards.





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SPECIFICATION

SPEC/MODEL	HRT31BD2-SS	HRT39BD2-SS	HRT47BD2-SS
TABLET TYPE	ONE LAYER, TWO LAYER		
NUMBER OF STATION	31 (D)	39 (D,B)	47 (B)
PUNCH TYPE	D	D,B	BB
MAX. DIA. OF TABLET	25 mm	16 mm, 19mm (caplet)	13 mm
DEPTH OF POWDER FILLING	2 ~ 19 mm 2~17mm		
ONE-LAYER TABLETS TWO OUTLETS PRODUCTION CAPACITY(TABLET/HR)	44,600 ~ 178,400	56,000 ~ 224,000	67,600 ~ 270,400
TWO-LAYER TABLETS ONE OUTLET PRODUCTION CAPACITY (TABLET/HR)	22,300 ~ 89,200	28,000 ~ 112,000	33,800 ~ 135,200
RPM OF TURRET	12 ~ 48 RPM		
MAX. MAIN-PRESSURE	10,000 KGS		
MAX. PRE-PRESSURE	3,000 KGS		
OVERALL LENGHTS OF UPPER & LOWER PUNCHES	133.35 mm , 133.6 mm		
DIAMETERS OF UPPER & LOWER PUNCHES	25.4 mm	25.4mm, 19mm	19 mm
THICKNESS OF DIE	23.81 mm	23.81mm, 22.22mm	22.22 mm
DIAMETER OF DIE		30.16 mm	24 mm
POWER	3 HP 6 pole, 5 HP 4 pole		
MACHINE SIZE (L x W x H)	1,310 x 1,250 x 2,120 mm		
PACKING SIZE (L x W x H)	1,400 x 1,500 x 2,200 mm		
MACHINE TOTAL WEIGHT	2,900 KG		

Remarks: Output is available according to powder character and the evenness of powder granules.

The above figures are for reference only; the specifications can be modified by manufacturer as needed.

Punches and dies are available according to purchasers' requirements.



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Features explanation

Pre-& Main—pressure and weight adjustment

- Use humanity electronic digital meter to display precisely, push button & labor-saving adjustment design.
- It is easy to control tablet production data and record QC efficiently.
- Can input the recorded data to save the tableting time when the sizes of powder granule are the same and under the same working condition.
- With the brake motor transmission and mechanism regulated device to increase the stability of hardness of tablets efficiently.

Electrical control regulation device

- Use stepless variable speed device to adjust tableting speed based on the powder materials.
- Equip with the tablet counter, machine working timer and electrical appliance safety device.



Double-pressing system

- Double pressing wheels: has two sets; totally eight pieces of pre-pressing wheels and main-pressing wheels; it is applicable to special powders for producing pastilles.

Split-type transmission mechanism

- Tableting area separates from rotary gear (it is a split-type); spindle drives the turret directly that can reduce the noise.
- The spindle worm gear inside of gear oil box meshes with the copper alloy worm gear to keep the noise down and extend the machine's life.

Safety device of punches & dies

- The turret with hard chrome plated surface treatment.
- Each punch aperture has the same diameter size; it is applicable to round type and special tablet forming punches.
- Upper punches install an oil-proof loop and lower die installs an oil seal to prevent the tablets from the oil sludge pollution.
- Upper punches equip with safety device to stop machine automatically when it is stuck; lower punch has protective cover with a safety sensor when changing the punches.



Track device

- All tracks, which connect with upper and lower punches, are made of special steel.
- Installation of the auto oil filling device that the lower track can fill oil and lubricate automatically for the smooth work of lower punches.

Feeding design

- With a large hopper and new three-phase-split type input design for easy assembly and disassembly.
- Can use an optional forced feeding device which is driven by variable speed motor for easy assembly and disassembly.



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Features explanation

Easy operation & cleaning

- User-friendly electrical control panel.
- All of panels, tracks and punches are easy to clean, assemble and disassemble.
- Meet PIC/S GMP standards.



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Optional Model explanation:

Handwheel adjusting machines

- Tablet hardness, thickness and weight adjustment: using handwheel adjustment device (digital meter display)
- See below the picture



Forced feeding & Powder fixed mount feeding machines

- Applicable to granules that have a bad fluidity or powders which need to be tableted.
- Driven by variable speed motor for easy assembly and disassembly.
- See the right picture.



Touch screen & PLC machines

- With cantilever and electrical control box panels
- See the right picture.



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Features explanation

OPTIONS

- Powder forced filling device + powder fixed amount offering device
- Tablet deduster TCS-1
- Touch screen + PLC device
- Air pin breaker
- Various punches & dies specifications and sizes can be customized