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HIGH SPEED ROTARY TABLET MACHINE (ONE-LAYER TABLETS)

TCS-HRT23E-SS TCS-HRT29E-SS TCS-HRT35E-SS

FUNCTIONS

- Machine is ideal for making round and irregular shape tablets with high hardness, high precision and high production.
- Applicable to food, medicine, chemical, magnets & electronic components.

FEATURES

- Electrical control digital display meter adjusted device is for adjustment in hardness, thickness and weight of pastilles.
- With dual pressing wheel system: machine installs pre-pressing and main-pressing wheels.
- The structures of two sets of pressing wheels are integrated casting to enhance the precision of pastilles.
- Tableting area separates from rotary gear to reduce noise (it is a split-type).
- Large hopper and new three-phase feeding design for easy assembly and disassembly.
- 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.



SPECIFICATION

SPEC/MODEL	HRT23E-SS	HRT29E-SS	HRT35E-SS
TABLET TYPE	ONE LAYER		
NUMBER OF STATION	23	29	35
PUNCH TYPE	D	D, B	BB
MAX. DIA. OF TABLET	25 mm	16 mm, 19 mm (caplet)	13 mm
DEPTH OF FILLING	2 ~ 19 mm 2 ~ 17 mm		
PRODUCTION CAPACITY(TABLET/HR)	16,500 ~ 66,000	20,800 ~ 83,200	25,000 ~ 100,800
RPM OF TURRET	12 ~ 48 RPM		
MAX. MAIN-PRESSURE	10,000 KGS		
MAX. PRE-PRESSURE	10,000 KGS		
OVERALL LENGTHS 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	23.81mm	23.81mm, 22.22mm	22.22 mm
DIAMETER OF DIE	38.1 mm	30.16 mm	24 mm
POWER	3 HP 4 pole		
MACHINE SIZE (L x W x H)	1120 x 1100 x 2200		
PACKING SIZE (L x W x H)	1200 x 1300 x 2100		
MACHINE TOTAL WEIGHT	2,000 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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Feature explanation

Pre-& Main-pressures 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 datum 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.

Integrated double pressing system

- Double pressing wheels: two sets of pre-pressing wheels and main-pressing wheels, it is applicable to Special powders for producing pastille. (see below the picture)
- Two sets of pressing wheel structures: integrated casting (non-pillar type) to reduce the noise when tablets are made and also enhance the precision of tablets. (see below the picture)

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 has hard chrome plated surface treatment.
- Each turret 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 punches install an oil seal to prevent the tablets from the oil sludge pollution.
- Upper punches equip with the safety device to stop machine automatically when it is stuck; lower punches have the 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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Feature explanation

Easy operation & cleaning

- Machine exterior and interior tableting areas are clad by stainless steel#304 or have the hard chrome treatment.
- User-friendly electrical control panel.
- Equip with the tablet counter, machine working timer and electrical appliance safety device.
- 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).



Forced feeding & fixed amount 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.

Options

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