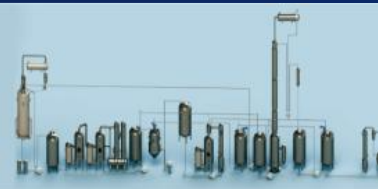


GZPK-26/32/40 Automatic High
Speed Rotary Tablet Press Machine

产品介绍

Products



全产品链

Full product chain



自动化

Automatization



数字化

Digitize



智能化

Intelligent



大健康产业

Big Health Industry

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Part 1

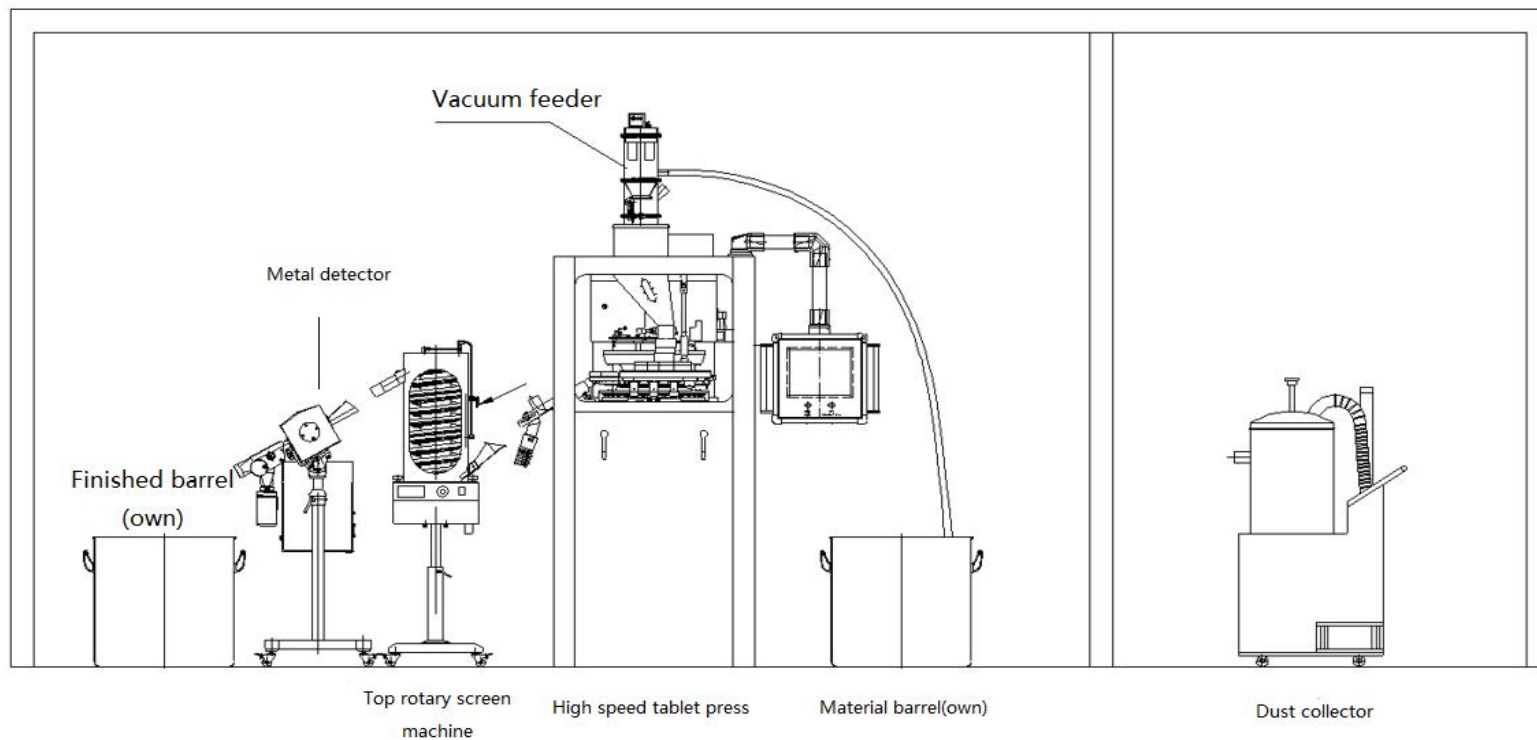


Product overview

1.1 Product overview

GZPK Series Automatic High Speed Rotary Tablet Press is the second generation product newly launched by our company. It concentrates the technical features of domestic automatic high-speed rotary tablet press and makes significant improvements in machine structure and operation control. The machine structure adopts universal seat, universal shape, and replaceable punch plate body, thus realizing the interchangeability of one machine with multiple models. The operation control adopts industrial PLC automatic control, leaving more space for development.

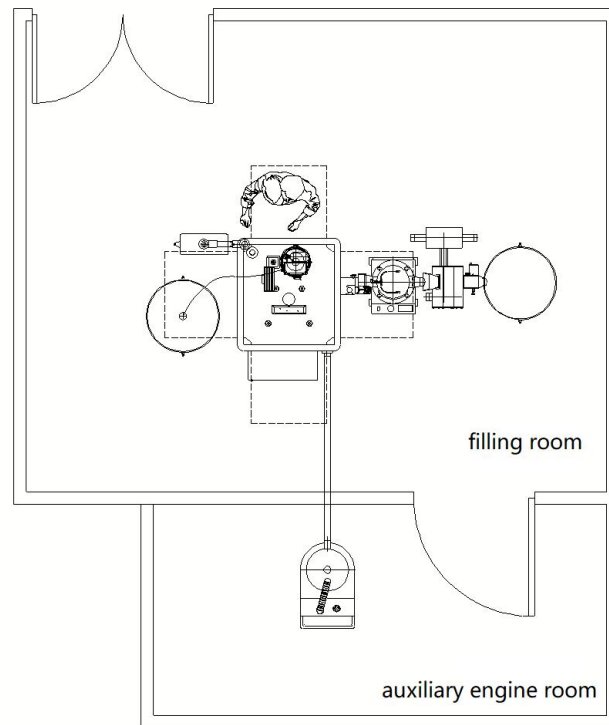
1.2 Reference display charts



1.3 Reference Layout Diagram

Auxiliary equipment:

- Vacuum cleaner (standard)
- Gold inspection machine (optional)
- Screen machine (optional)
- Vacuum feeder (optional)
- Lift feeder (optional)
- Sampling scale (optional)



1.4 Equipment parameters



Model	GZPK-26	GZPK-32	GZPK-40
Capacity (Tablets/h)	160000	210000	260000
No.of station	26	32	40
Max.tablet diameter (mm)	25	16	13
Rotation speed (r/min)	11-102	11-105	11-105
Main.tablet diameter (KN)	100	80	80
Pre-pressure (KN)	20	20	20
Main.filling depth (mm)	20	16	16
Dia.of.die (mm)	38.1	30.16	24.01
Length of punch (mm)	133.6	133.6	133.6
Total power (Kw)	7.5		
Overall weight (Kg)	1800		
Overall diemensions (mm)	1170×1000(+530)×1950		
Noise	≤75DB (A)		

➤ 机器可能在未事先通知的情况下对技术进行改进，所附图片显示可能提供的选择项目

Part 2



Working principle

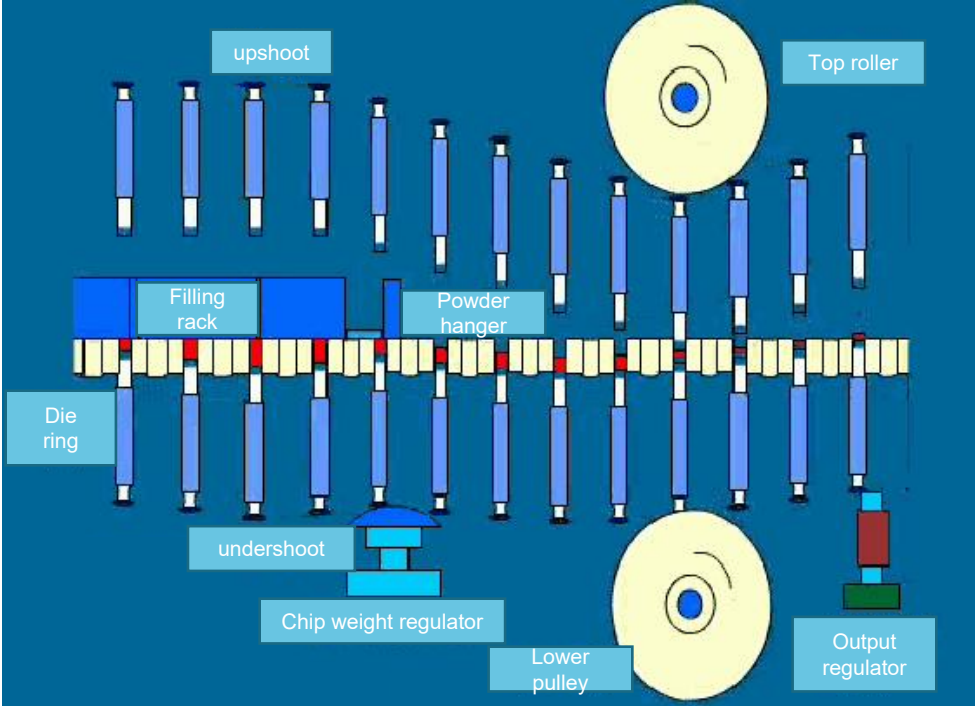
2.1 Work flow



2.2 Structural analysis



2.3 Working principle expansion diagram



2.4 Stamping die



- The die goes up and down and the head is long and short
- The die can adjust the shape and dosage of the tablet



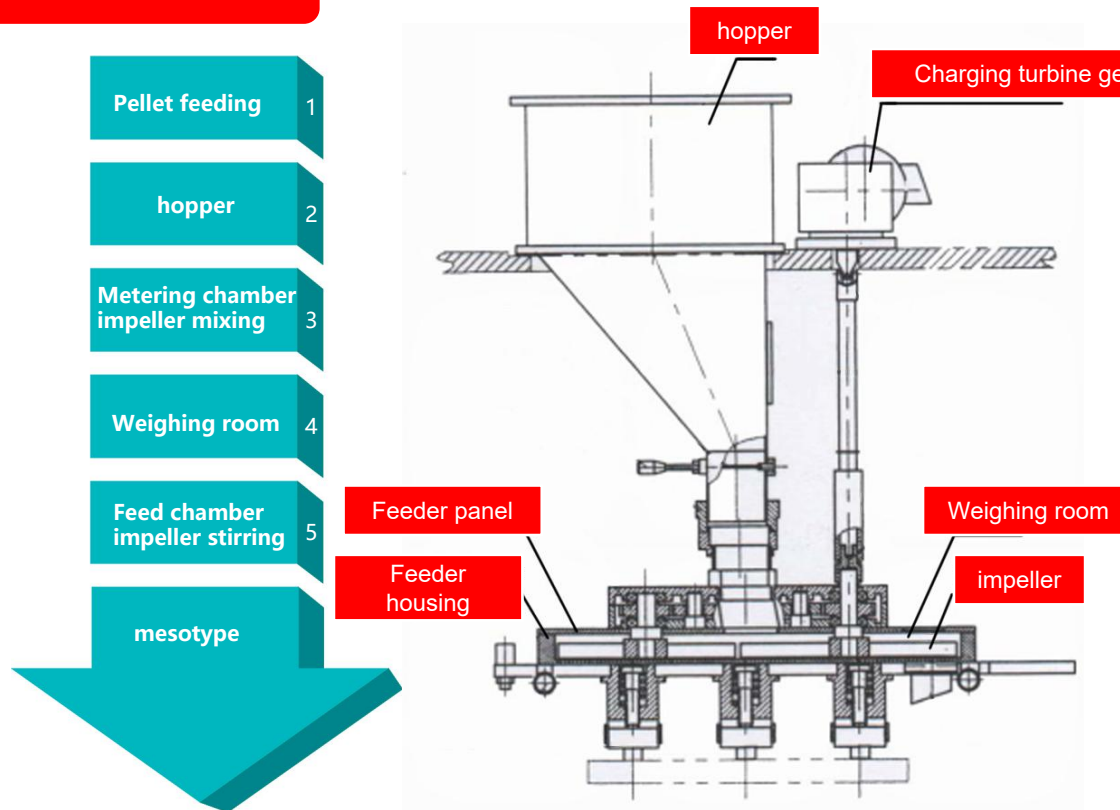
2.5 Working turntable

- The turntable rotates for one week to drive the die to pass through the feeding mechanism, filling mechanism, pressure mechanism, and tablet discharging mechanism in order to complete the process of continuous tablet pressing.

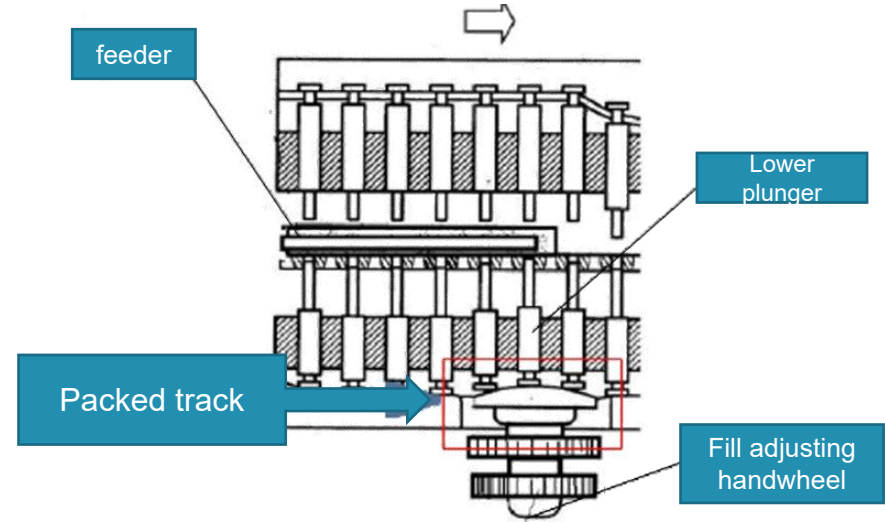
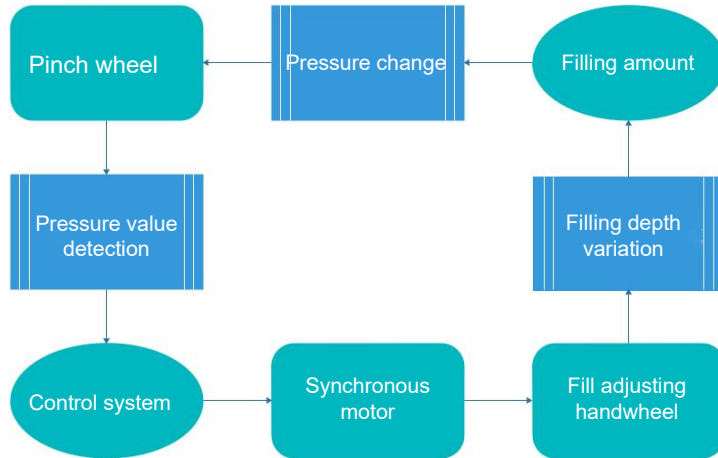


- Rotary speed control;
- On the operation interface, press "speed up", "speed down", key to the turntable for stepless speed regulation

2.6 Forced feeder



2.7 Filling mechanism



2.8 Preloading mechanism

01

Eliminate the air filled by the die and improve the quality of the tablet

02

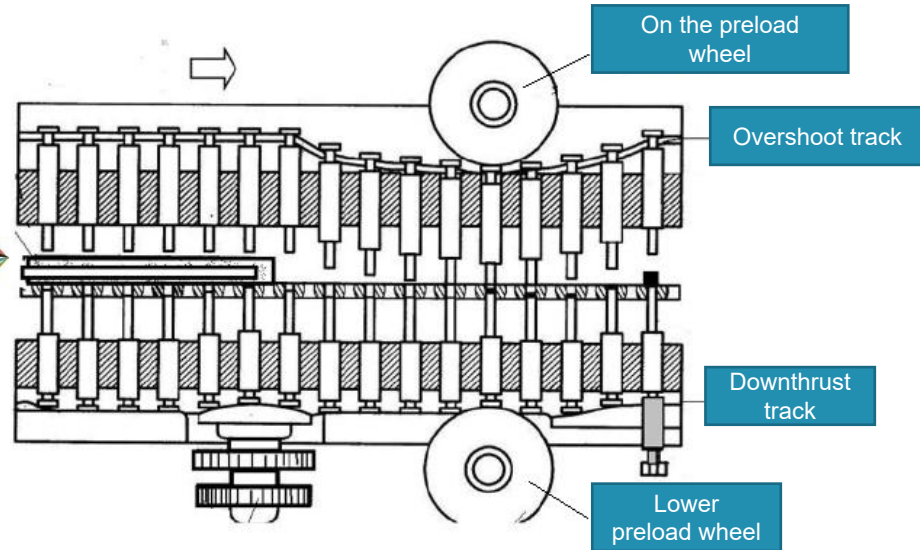
Make the material more compressible after entering the main pressure

03

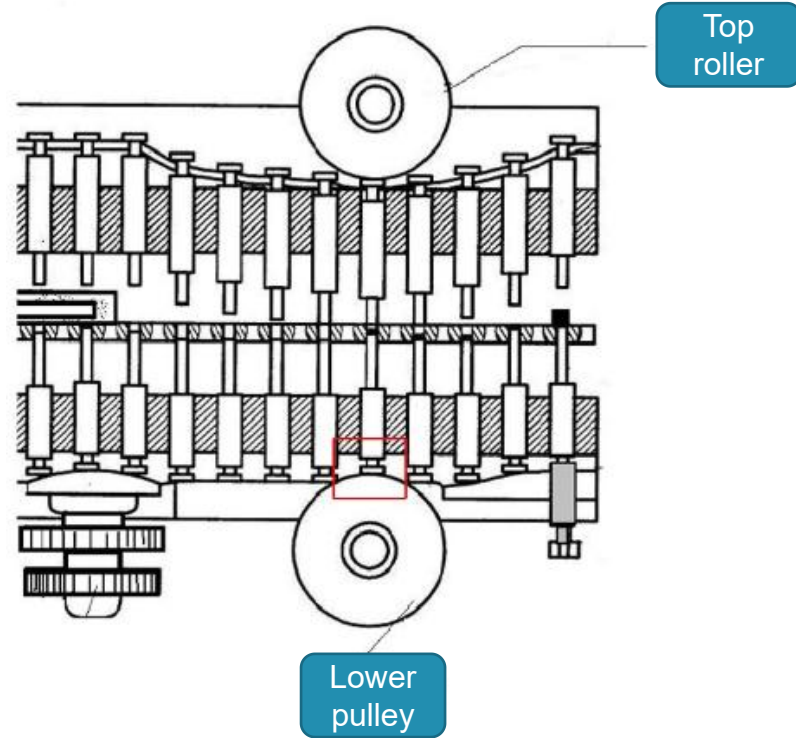
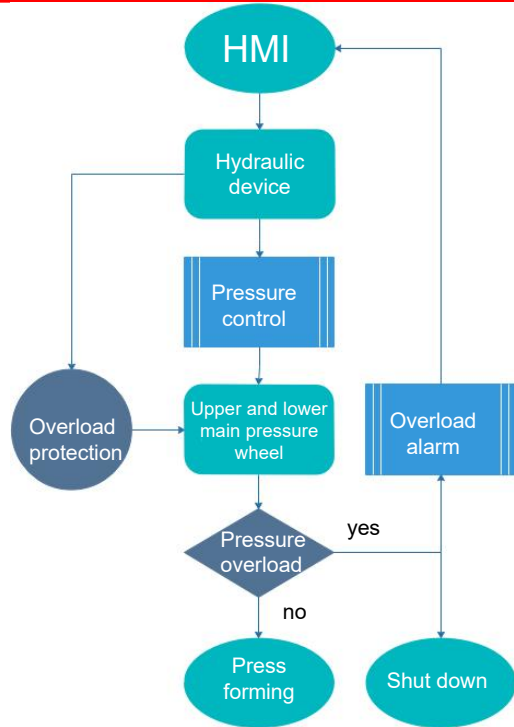
The main pressure process is shortened

04

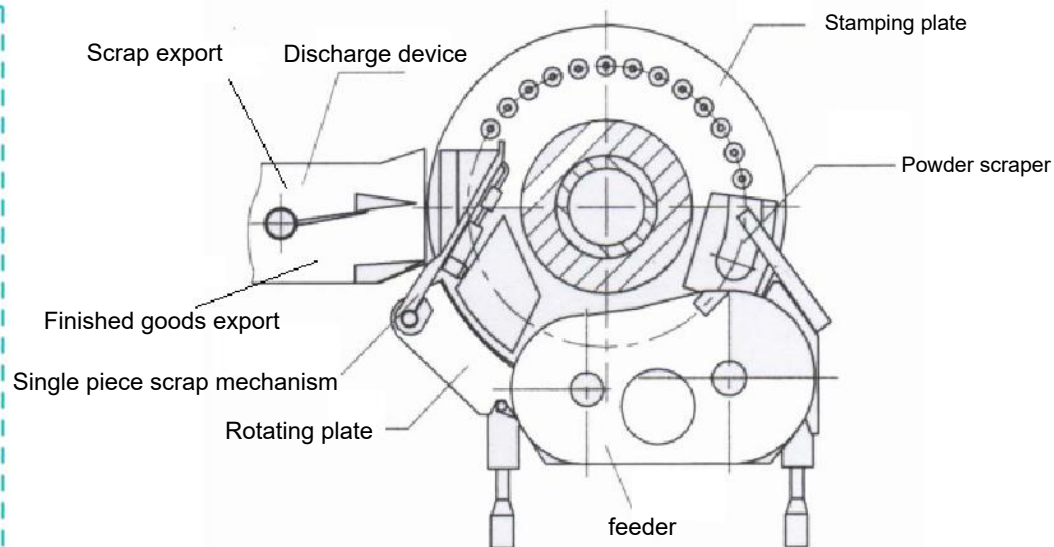
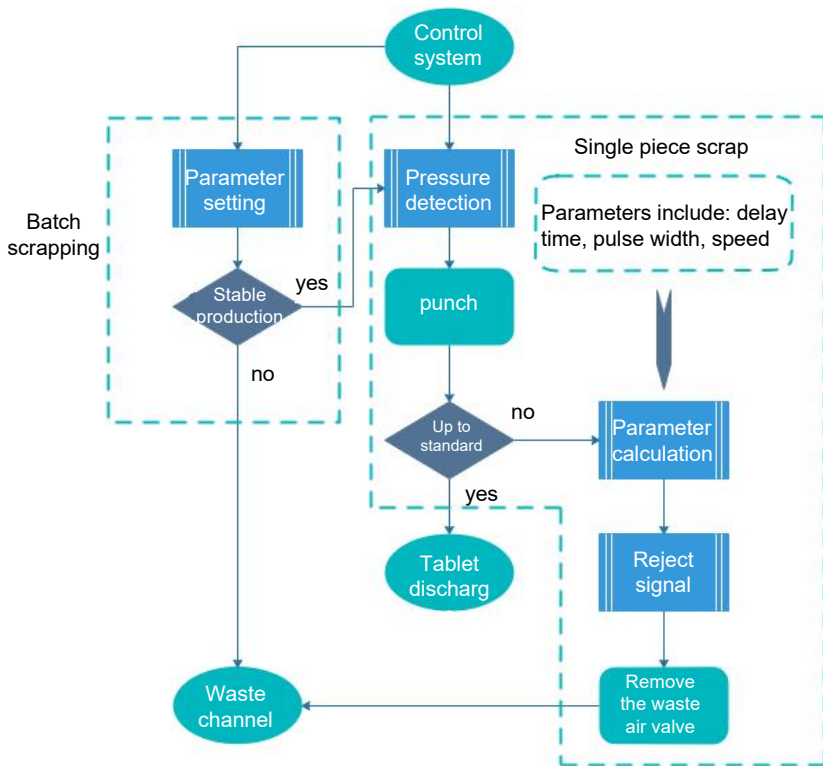
Improve the working efficiency of the tablet press



2.9 Main pressure mechanism



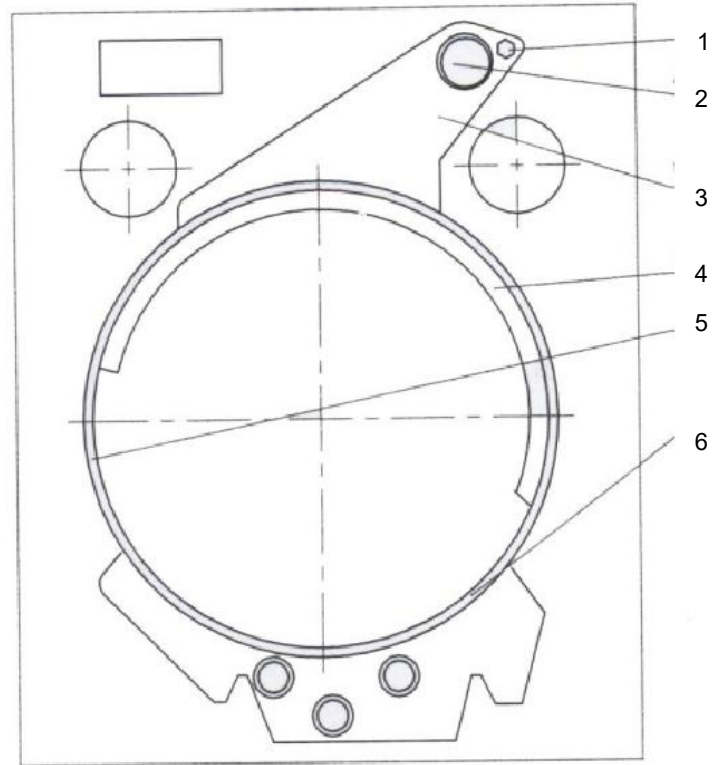
2.10 Release mechanism



2.11 Powder absorber

- Functions:
- Clear the punch plate and rod dust
- Remove sheet chamber dust

- 1. Lock the screw
- 2. Air volume regulating valve
- 3. Powder absorbing shell
- 4. Right coaming
- 5. Left coaming panel



Part 3



Auxiliary engine

3.1 Material feeding method

Hand feed



- Add the material to the hopper manually
- High dust, high labor intensity
- Suitable for smaller batch production

Elevator feed (optional)



- Material pipe with soft connection charging
- The feeding process is closed, safe and hygienic
- Suitable for mixing and feeding to solve the problem of stratification

Vacuum feeder (optional)



- Compact structure, airtight, no pollution, safety and health, low noise
- Easy to install, easy to operate, fast delivery speed
- Suitable for the height of 2.7m and above the floor workshop

3.2 Tablet polishing (optional)

- Screen machine is a special polishing equipment for tablets, which can complete the dust removal work on the surface of various shapes of tablets.
- Multilayer screen structure can effectively isolate tablets and dust.
- The amplitude and production speed are continuously adjustable.
- It is easy to disassemble and install, easy to use and clean.
- Reliable performance, high efficiency, low noise
- The entire production process is intuitive and visual.



【 Tablet screen machine 】

3.3 Other auxiliaries



【 Metal Detector 】 (Optional)

- Metals can be separated from materials
 - Integrated metal foreign object removal system, even if the metal is sealed in the product can be detected
 - Available in various calibers and sizes for all practical applications
 - Compact and easy to install
-
- It is used for dust removal and collection in working turntable



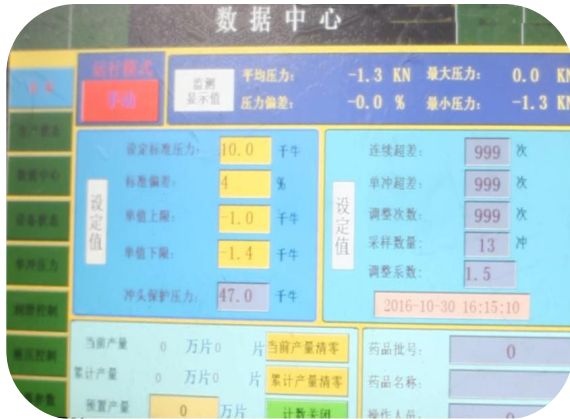
【 Industrial vacuum cleaner 】

Part 4



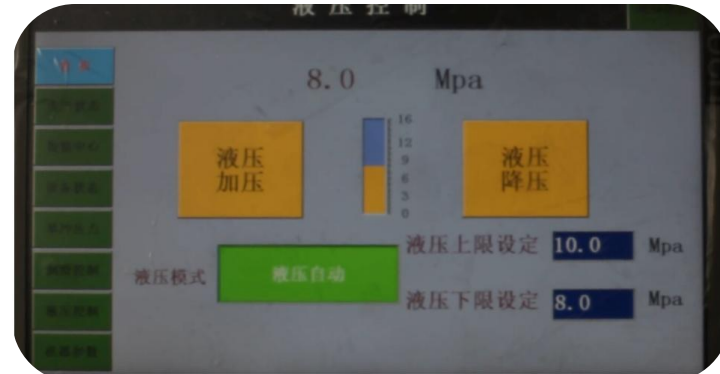
Performance

4.1 Automaticity of the system



【Automatic weight adjustment】

After the production parameters are set, the system can automatically adjust the increase and decrease of the material according to the set filling amount, so as to minimize the difference in the amount of tablets.



【 Automatic function of hydraulic system 】



The user can set the upper and lower limits of the hydraulic system, and the computer automatically stabilizes the hydraulic pressure between the set values.



【Lubrication system automatic function】

The system controls the lubrication pump according to the lubrication time and interval parameters, and users can adjust the parameters according to actual needs.



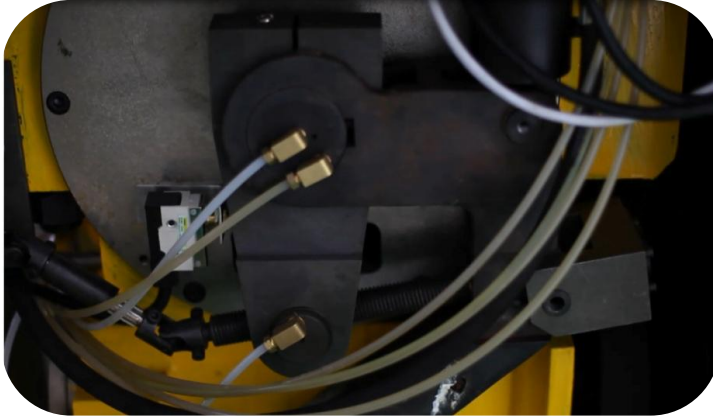
【 Scrap system 】



【 Remove waste solenoid valve 】

The system can be used for single scrap (custom) and batch scrap. Single piece scrap to achieve a single unqualified tablet blowing into the waste channel; The channel switching solenoid valve automatically transfers to the waste channel, and the drugs are eliminated in batches.

4.2 Hydraulic system



【Principal pressure】



【 Preloading 】

Main pressure, prepressure twice forming, large pressure wheel, five-column frame structure, so that the machine has a long pressure time, stable work and load-bearing load without deformation ability. Ensure piece weight accuracy and hardness while maintaining smooth operation and low noise.

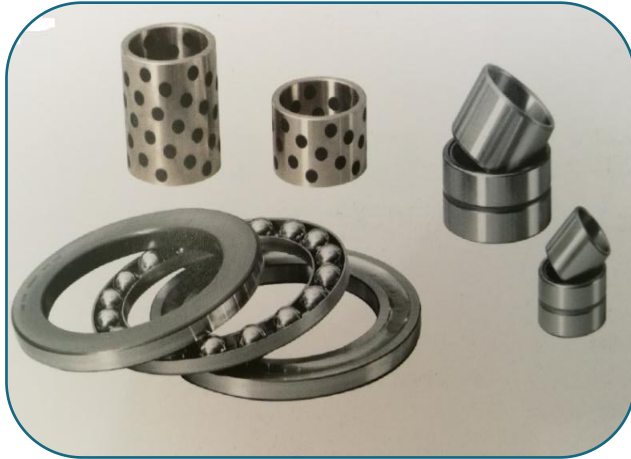
4.3 Charging system



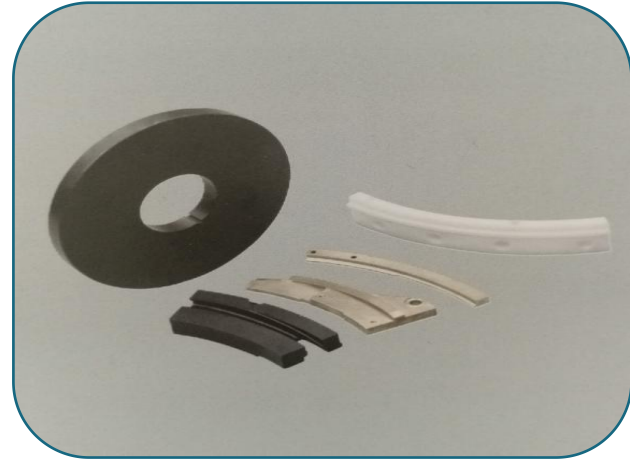
The feeder is easy to disassemble and assemble, easy to clean. High-precision double impeller forced feeding mechanism, with two agitators to force the material into each die hole, so that the difference between the weight of the sheet is smaller, to solve the ordinary sheet press free blanking insufficient filling, working disk dust and cross pollution problems.

【 Forced feeding system 】

4.4 Core components



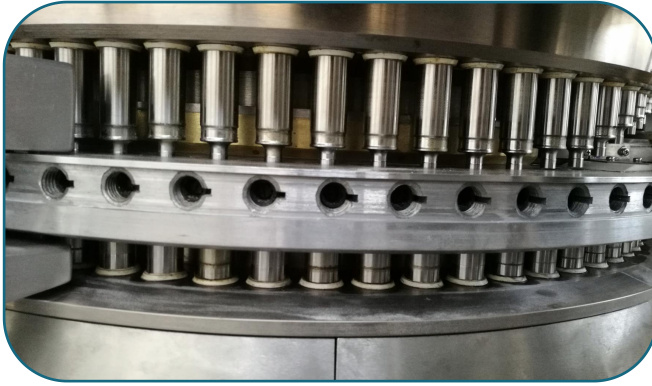
[High Precision Bearings]



【High-precision guide rails and press wheels】

- ◆ Adopting high-precision bearings, smooth transmission, long life and low noise.
- ◆ Adopting high-precision guide rails and press wheels; wear-resistant, with good consistency and interchangeability.

4.4 Core components

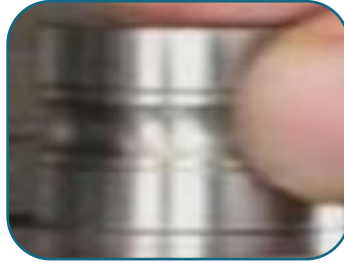


【High Precision Punching Plate Combination】

Adopting the highest domestic coordinate grinder and other equipments to ensure the dimensional accuracy, positional accuracy and roughness requirements of punching, which makes the work of replacing punching dies easier, greatly reduces labor intensity and improves labor efficiency;



4.4 Core components



comparison



The machine [Convex-concave center mold locking structure].

The contact surface of the top wire of the center punch plate is convex-concave, and the convex-concave surface of the top wire and the ring groove of the center die make a horizontal fit to tighten (face-to-face contact), which ensures that the center die won't be taken out of the tableting machine for a long period of time, which is extremely high in safety and lowest in risk.

Comparable [Tapered center mold locking structure]

The contact surface of the top wire of the center die of other manufacturers in the same industry adopts the conical surface (point contact), and the top wire adopts the way of side top with the center die, and this kind of side slanting top in the working process of the tablet press because of the sticking punch or astringent punch and so on, there is the center die in the position of the tablets by the downward punching out of the holes of the center die, and then the tablets will be out of the stopper bar, the forcing of the feeder, and other devices all hit the broken, crash the car and such serious accidents, which will cause a long time to stop the production of the user, waiting for the spare part to repair the serious losses.



Thanks

ZHE JIANG CANAAN KAIXINLONG TECHNOLOGY CO.,LTD.

Tel:0086-577-13958804817
E-mail:kaixinlong99@kaixinlong.com
E-mail:support@kaixinlong.net

<http://www.kaixinlong.net>

Add;No.199.Kaifa Road No.2.Ruian Economic Development Zone.
Ruian City.Zhejiang.China
P.C:325200