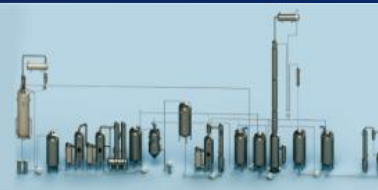


GZPK-83 Automatic High Speed
Rotary Tablet Press Machine

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

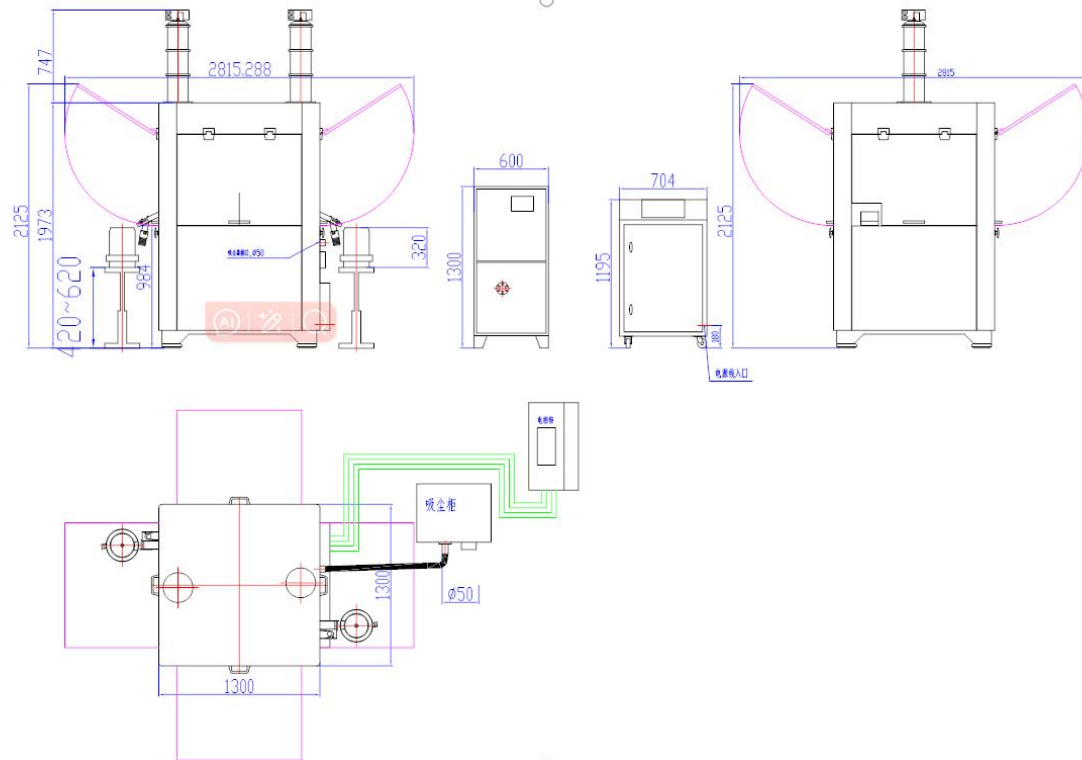
Big Health Industry

Product overview

The part of the GZPK-720 series tablet pressing machine is a fully enclosed tablet pressing room. The material metal in contact with the powder is acid-alkali resistant austenitic stainless steel, and the non-metallic material is non-toxic material. Four transparent Windows can be opened, so that the machine clean without obstruction, easy to replace the punch.

The lower part of the machine is sealed by four stainless steel doors with porous material inside, and contains various driving devices to ensure safety and reduce noise. The process of tablet pressing is completed by five steps: filling, measuring, pre-pressing, main pressing and tablet drawing. The operation of the tablet press is completely controlled by the touch screen on the electric control cabinet.

Reference display charts





The electric control cabinet is independent of the main machine, the electric control area is separated from the production area, the safety and hygiene coefficient is greatly improved;

Adopting 10-inch touch screen automatic control, no hand wheel operation, highly automated production; All production information can be displayed, stored, extracted and changed;

Different levels of user passwords can be set;

Full-automatic servo motor control, adjusting the metering guide, controlling the depth of the filler, ensuring high precision of the slice difference;

Three-pulp packing system:

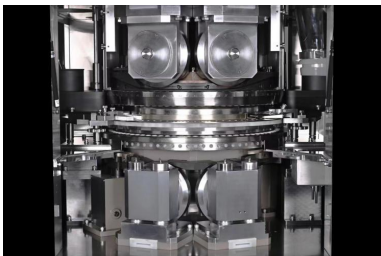
Upper impeller to increase the fluidity of the powder, equalize the density of the powder

The lower impeller is used for filling and metering to ensure the uniformity of filling

B&R PCC control systems
and operating systems



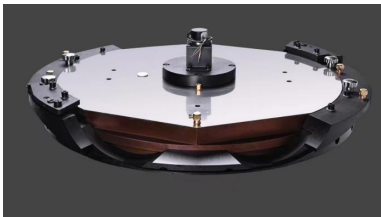
High precision turntable



Pressure support system for identical workstations



Pressure wheel assembly (same size and interchangeable)



stay on track



general market

Equipment parameters



Model	83	65	51
No. of station	83	65	51
Caoacuty(tablets/h) MAX OR MIN	710000 160000	560000 120000	440000 98000
Rotation speed(rpm)	16-72	16-72	16-72
Max.tablet diameter	13	16	25
Main pressure	100KN	100KN	100KN
Pre-pressure	100KN	100KN	100KN
Max.filling depth	16mm	16mm	20mm
Maximum tablet thickness mm	8.5	8.5	8.5
Pitch circle diameter mm	720	720	720
Shank diameter mm	19	19	25.35
Middie height	22.22	22.22	23.8
Can press shaped pieces	YES	YES	YES
Net weight kgs	5000	5000	5000

➤ The machine may make improvements to the technology without prior notice, the attached pictures show the options that may be offered

Device Name	Device Specifications	quantities
Siemens Touch Panel SMART1000	6AV6648-OCE11-3AX0 (6AV6648-OBE11-3AX0)	1
Siemens CPU ST40	6ES7288-1ST40-0AA0	1
Siemens Inverter V20 15KW	6SL3210-5BE31-5UVO	1
Siemens inverter V20 0.75KW three-phase	6SL3210-5BE17-5UVO	2
Siemens contactor 50A22KW	3RT5036-1AN20	1
Braking Resistors	PWR1000W-500/7K50	1
Meanwell Power	NDR-120-24V, 5A	2
ABB Circuit Breakers	S203-C32	1
ABB Circuit Breakers	S203-C10	2
ABB Circuit Breakers	MS116-0.63-1.0A	1
ABB Circuit Breakers	MS116-10-16A	1
ABB Auxiliary Switches	HKF1-11	2
ABB Circuit Breakers	S202-C10	4
ABB Circuit Breakers	A9-30-10 AC220	1
DEGSON Relay 24V	DRPE-2CH-LR-D24-07A	15
DEGSON Relay Base	DPKF08A-E3-00Z	15
Panasonic Relays	MY33002	4
Isolation control transformers	BK100W 380/220	1
Guideway Filters	CW4L2-30A-R	2
MOXA Switches	EDS-205A	1
INOVANCE Input Module	GL20-1600END	3
INOVANCE Output Module	GL20-0016ETN	2
INOVANCE Analog Modules	GL20-4AD	3
INOVANCE PN module	GL20-RTU-PN	1
INOVANCE Drive PN 750W	TS620FS2R81-RT-750	2
Inovance Holding Motor Cables	S6-L-M007-3.0-T	2
INOVANCE Multiturn Absolute A3 Motor Encoder Cables	S6-L-P024-3.0-T	2
INOVANCE Battery Pack	S6-C4A	2
Inovance servo motor 750W	MS1H1-75B30CB-A331Z	2
Phase Sequence Relay	OMRON K8DS-PH1	1
Material Level Sensor	CR18-8DN M18-NPN	2
The following are peripheral mounting devices		
Pressure Transmitter	LAC7S12	4
buzzers	HS22-SMD/S	1
Exhaust fan	9803	1
KAKU Fans	KA1238HA2	1
Communication cable network cable	Super Category VI 1.5m (with crystal tips on both ends)	1

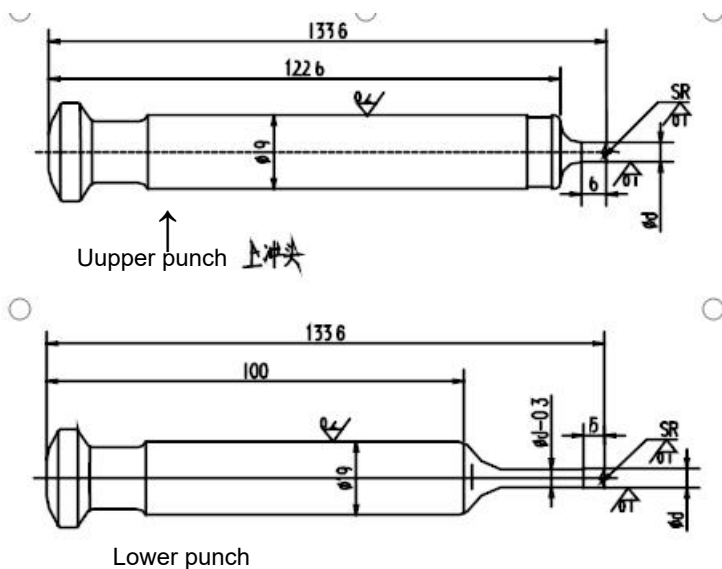


Communication cable network cable	Ultra Category 6 10m (with crystals on both ends)	1
Communication cable network cable	Ultra Category 6 5m (with crystals on both ends)	1
Communication cable network cable	Category 6 cable	6
Inductive Proximity Switches M8 (NPN)	ISS 108MM/2NO-2EO-M8 (NPN)/Schneider	10
Inductive Proximity Switches	TL-Q5MC1-Z Square (NPN)	4
Small Pushbutton Switches	LA160-L8A	2
Schneider push button red with light		1
Schneider Pushbutton Green Ribbon Light		1
Schneider Key Switch		1
Schneider Push Button Emergency Stop		1
Rotary encoders with internal hermetic control	OVW2-20-	7
Linke coupling	LK12-25-0608	7

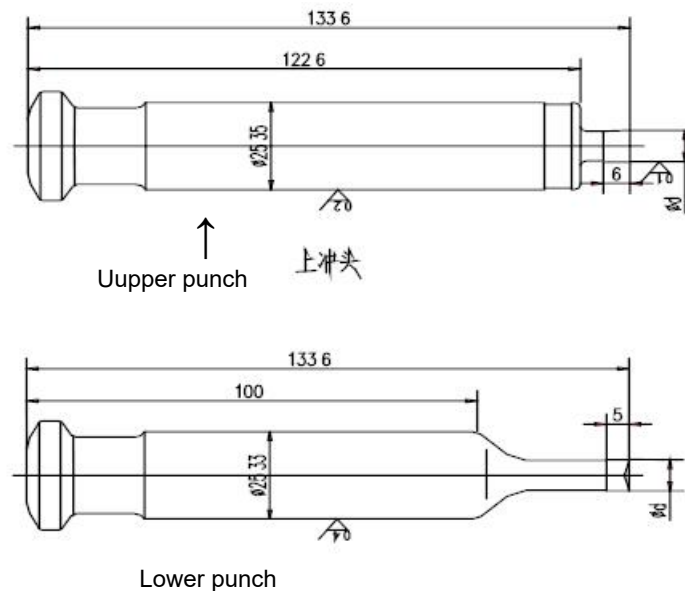
Configuration table of main electric parts of high-speed rotary tablet press machine

Punching fixtures for GZPD model can be provided by our company or imported models:

EU-B: Punching rod $\Phi 19$, Punching rod length 133.60, see attached drawing.



EU-D: Punch rod $\Phi 25.35$, punch rod length 133.60, see the attached drawing



Main drive principle

GZPK-720 series tablet press is driven by the main motor, which is decelerated by worm gear box and then drives the main shaft to rotate. The main shaft is connected with the punching disk, on which there are upper, middle and lower punching dies. The punching disk drives the upper and lower punching dies to rotate along the curves of the upper and lower guide rails, which realizes five processes, such as filling, metering, pre-pressing, main pressing and tablet discharging, and completes the whole process of tablet pressing. See the flow chart of tablet pressing process and the principle diagram of main transmission system.

