

2 Axis Grinder with 2 Grinding Stations

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Weijing 2 Axis Grinder with 2 Grinding Stations is designed for grinding riser butts or parting lines on the round surface of circular castings.

- Grinding sparks are covered for better safety.
- Diamond wheel saves time cost of grinding wheel changing.
- Repeatable grinding accuracy is controlled by 4 position sensors.
- Safer, faster, more repeatable and controllable than manual grinding.



Technical Specification

- Grinding Accuracy: 1 mm
- Control System: PLC + 11 sensors
- Grinding wheel rotating speed: 2803 rpm
- Grinding wheel linear velocity: 58.7 m/s
- Grinding sparks: covered
- Casting holding: air cylinder
- Movement Drive: hydraulic driving by vane pump
- Grinding Wheel: Diamond wheel with 400 mm Diameter
- Machine power: 18 KW
- Machine weight: 2500 KG
- Machine Dimension: 2000*1850*1750 mm



Casting Requirements

- Casting material: Iron Castings or steel casting
- Casting Shape: circular castings
- Casting Diameter: 107-340 mm
- Casting Height: <170 mm
- Casting Weight: <30 Kg
- Examples: brake disc castings, auto flywheel castings





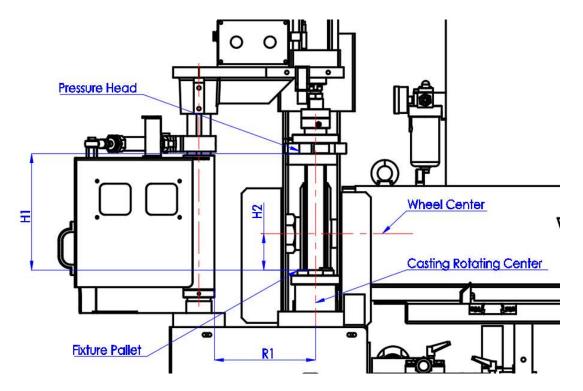








A picture is worth a thousand words

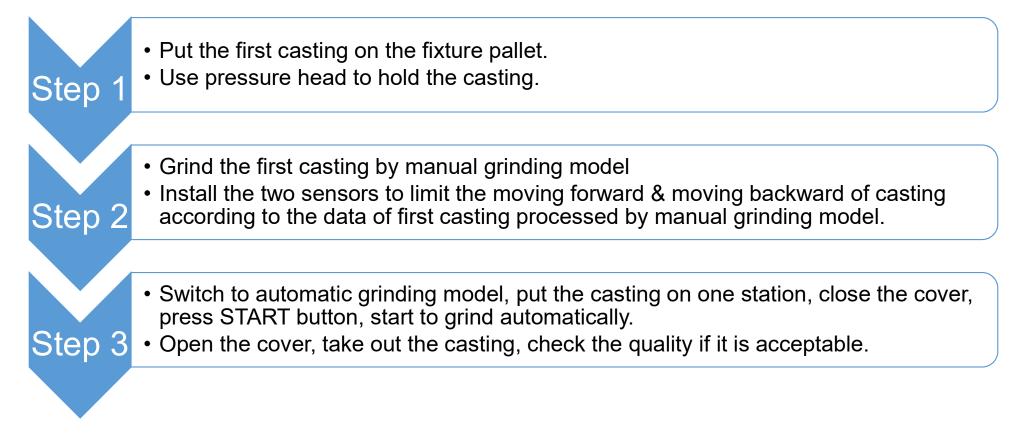


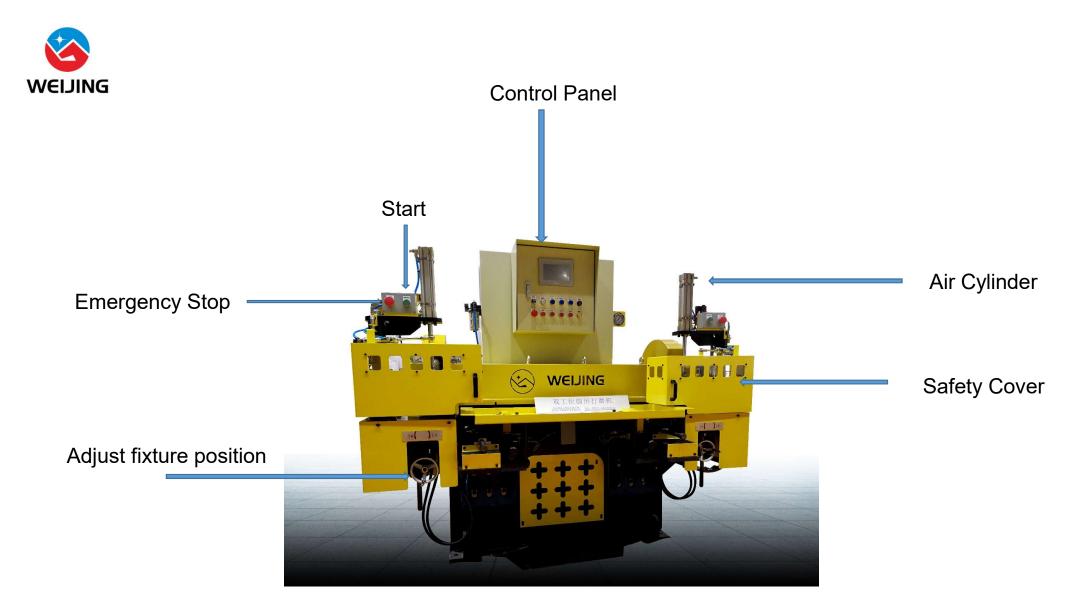
Pressure Head is for holding the casting.Fixture Pallet is for casting to be placed.H1 determines casting height. R1 determines casting diameter.H2 is the height of parting line or riser butts required.





Operating Process







Key components – Control Buttons



Control Buttons

First Line: Power, Machine Start, Oil Pump Start, Left Grinder Start, Right Grinder Start, Alarm

Second Line: Emergency Stop, Machine Stop, Oil Pump Stop, Left Grinder Stop, Right Grinder Stop, Reset



Key components for better safety



Cover Sensor (left image)

If the cover is opened by mistake, the grinder will stop automatically for better safety.

Pressure Head (right image)

To press the casting during grinding for absolute safety





Key components for better holding



Pneumatic electromagnetic valve (left image)

To control air cylinder up and down

Air Cylinder with 2 sensors (right image)

Air Cylinder is for pressing clamping. 2 Sensors are to check the right position for air cylinder.



Weijing Automation



Key components for better moving control



Left Image

2 Sensors for controlling castings forward & backward at right position

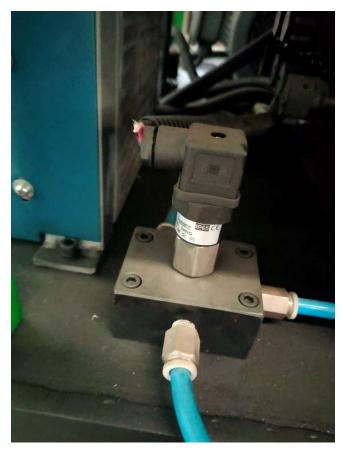
Right Image

Solenoid valves to control hydraulic cylinder and vane motor working.





Key components for durable quality



Pressure sensor (left image)

To check the air pressure if it is right

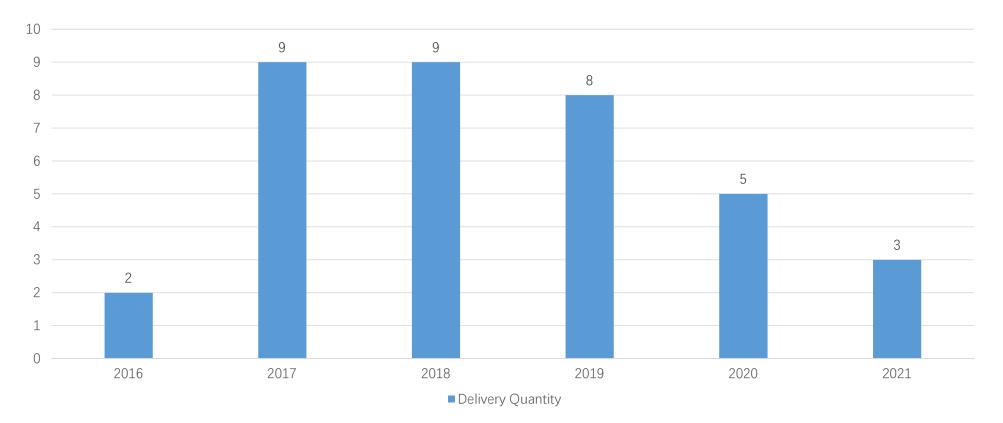
Right image

Durable Diamond wheel with 400 mm Diameter





How Many Sets We Have Delivered



Total delivered: 36 sets, from 2 axis to 5 axis Calculated on Mar 19, 2021



Grinding Circular Castings, Should Choose Weijing!

