



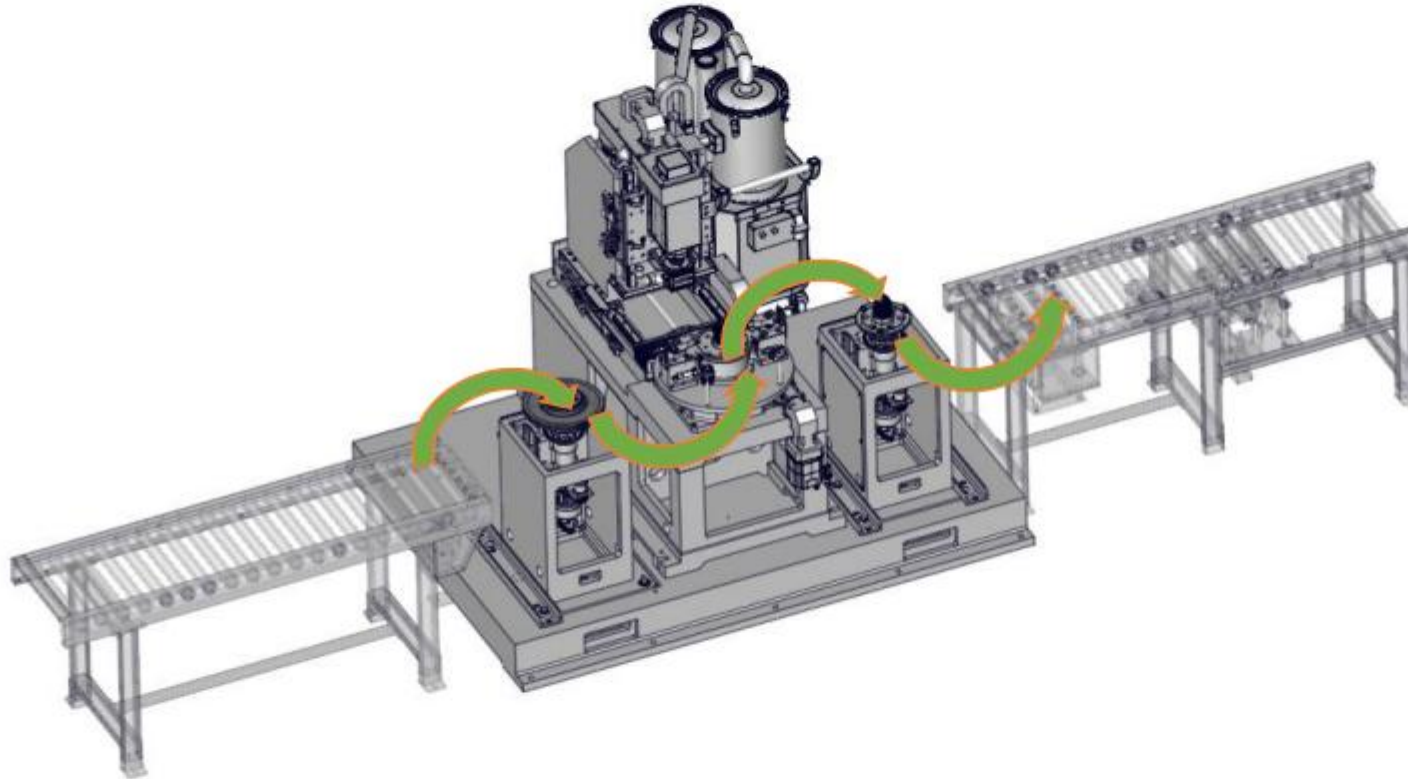
Description

- A3LX20-35 is a special dynamic balancing line for the brake disc, which is mainly composed of unbalance measurement unit, automatic milling unit, electric cabinet, etc. The external guard of the equipment is designed according to the layout requirements of the customer's on-site production line.
- Product unbalance measurement, milling and correction are all done automatically by the equipment;
- Fast production cycle time, high once reduction ratio;
- Rigid structure design, longer service life;
- Stable performance and low error rate;
- Human-machine exchange interface, with touch screen, easy to operate;
- Measurement and weight removal data can be exported, which is convenient for users to do data statistics ;
- Software distinction: machine function display: whether it works, whether it is qualified, counting function;
- PLC: Provides remote guidance, maintenance;
- Safety settings: equipment safety door with interlock design, safe and reliable, to protect the operator's personal safety to the greatest extent;
- Can integrate with the production line for automated production;

Machine parameters:

No.	Technical specification	Parameters
1	Model	A3LX20-35
2	Max. weight of workpiece	35kg (Fixture included)
3	Max. diameter of workpiece	200-400mm
4	Balancing speed	$\leq 1200\text{rpm}$
5	Min. Achievable Residual Unbalance	$\leq 1\text{g}\cdot\text{mm/kg}$
6	Unbalance Reduction Ratio	$\geq 90\%$
7	Balancing motor power	3 KW (servo)
8	Milling spindle motor power	4KW
9	Balancing machine fixture	Expansion sleeve
10	Operating air pressure	0.4-0.6MPa
11	Operating voltage	Customized
12	Protection	Phase sequence protection, overload protection, air pressure monitoring

Action flow chart:



Equipment operation mode: Measurement → Processing → Retest;

The equipment does not contain conveyor, robot or truss, and the handling between stations is completed by external robot or truss at the client end.

Unbalance measurement

The unbalance measurement unit is composed of the following parts: workpiece is clamped and released by the tooling fixture, servo motor drives the spindle to rotate, fast positioning, and the electric control system performs data acquisition. The high configuration enables faster and more accurate product measurements.

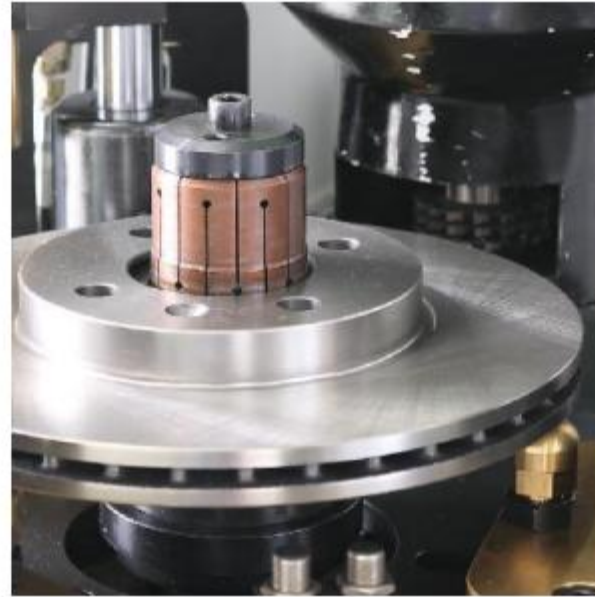
- 1. Pneumatic elastic fixture is adopted, the cylinder is used as the tensioning power source;
- 2. The cylinder pulls the tie rod down to make the elastic sleeve slide down. The taper fit between elastic sleeve and mandrel is adopted,
- 3. When it is necessary to remove the workpiece, the cylinder under the spindle of the balancer will push upward to separate and maintain elastic sleeve from the mandrel, and the state of the workpiece can be released. At this time, the fixture is released and the workpiece can be easily removed.



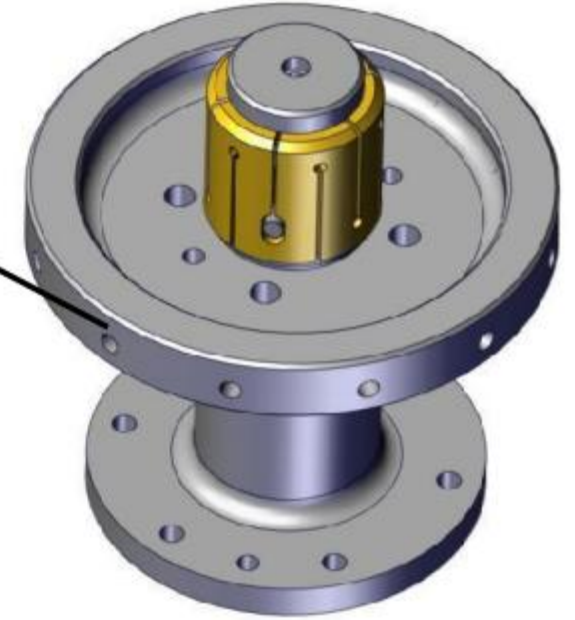
Fixture reference figure

Fixture:

Pneumatic elastic fixture has the advantages of simple structure, high centering precision, large transmission torque, reliable clamping, convenient assembly and disassembly.



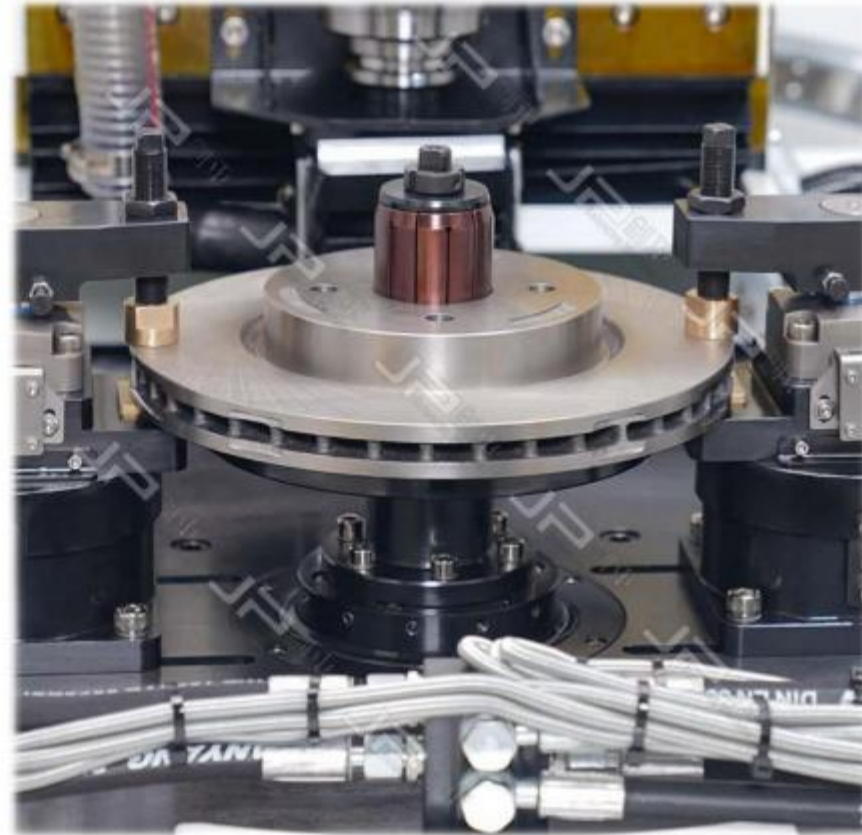
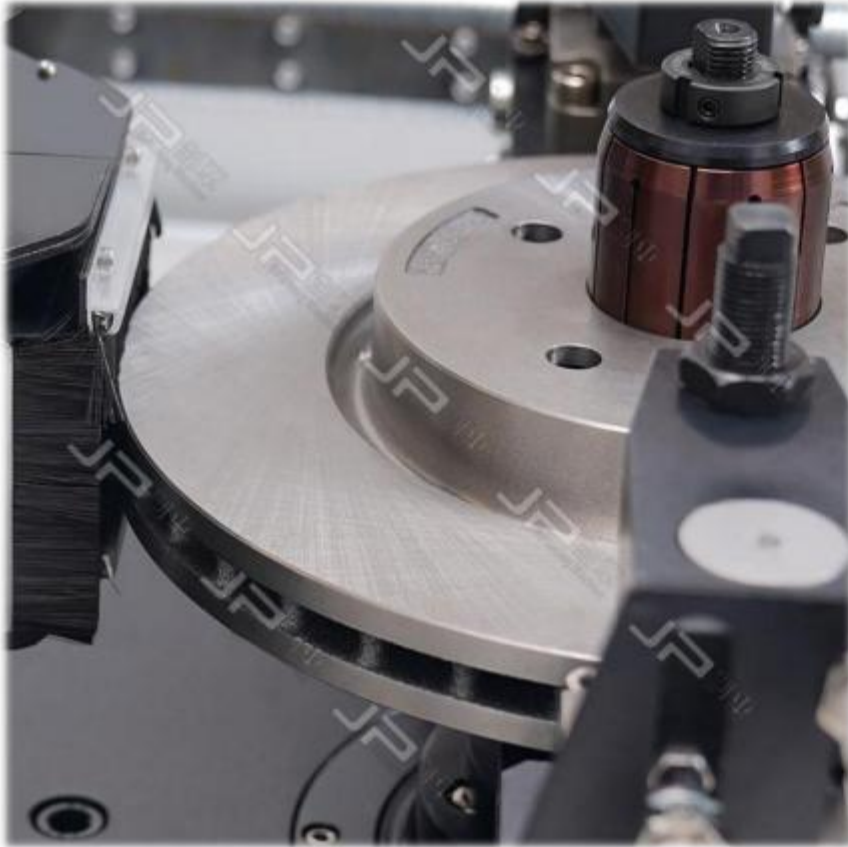
Main
expansion
sleeve



Motion principle:

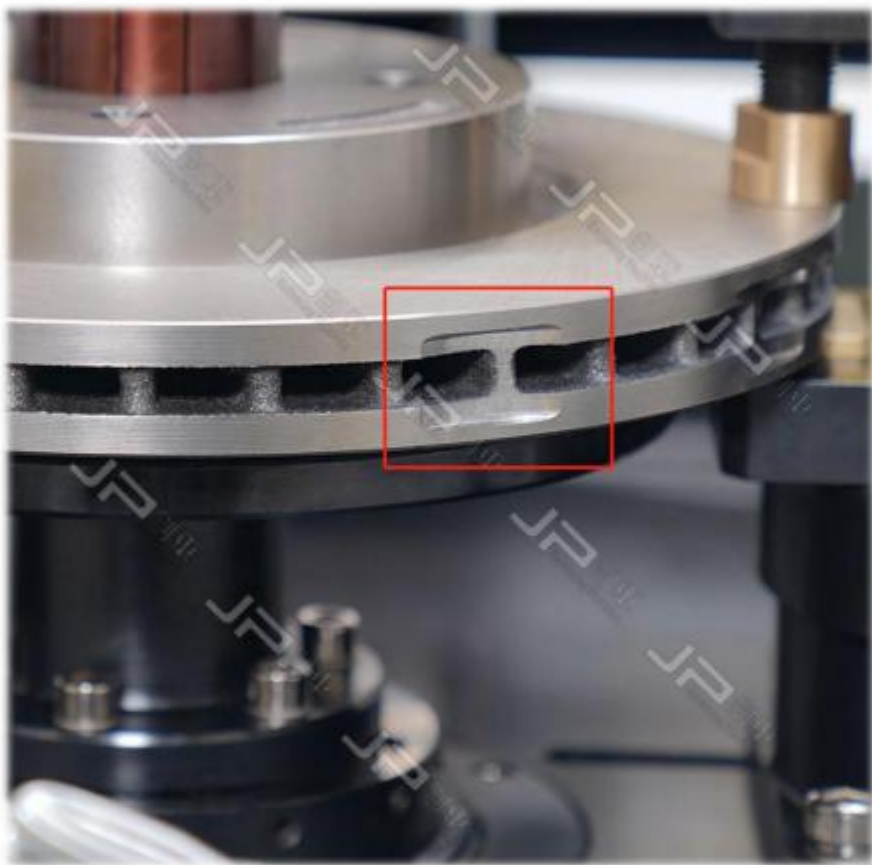
- 1. Pneumatic elastic fixture is adopted
- 2. The cylinder is used as the tensioning power source;
- The cylinder drives the spring shaft down to make the elastic sleeve slide down. The taper fit between elastic sleeve and mandrel is adopted,
- 3. When it is necessary to remove the workpiece, the cylinder under the spindle of the balancer will push upward to separate and maintain elastic sleeve from the mandrel, and the state of the workpiece can be released. At this time, the fixture is released and the workpiece can be easily removed.

Automatic milling unit:

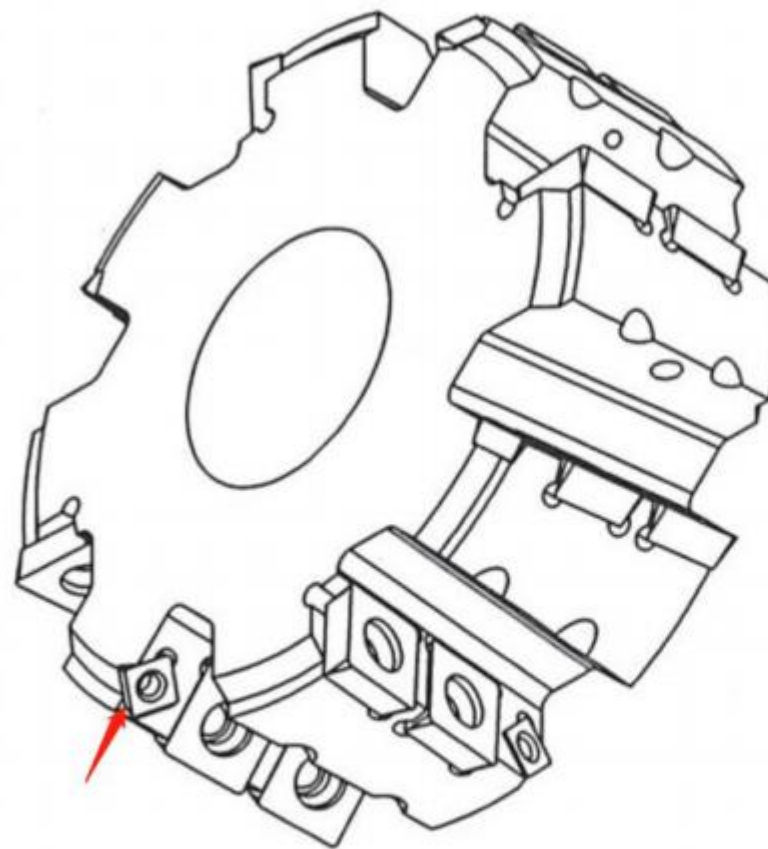


During milling, the fixture is in the released state to avoid the cutting force affecting the spindle, the hydraulic cylinders on both sides press the workpiece, and after the tool feed is in place, the precision servo rotary table rotates the workpiece for circumferential cutting;

Tool:



Effect display after milling



Tool reference figure

Customized milling tool, the tool structure is replaceable blade type, the upper and lower sides with chamfered blade (as indicated by the arrow), during unbalance correction, the main edge perform cutting and the two sides chamfered, effectively control the cutting burr;

APPLICATIONS IN OTHER INDUSTRIES



Railway Industry



Aircraft Industry



Electric Industry



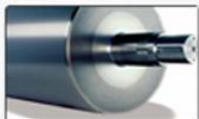
Oil and gas Industry



Automotive and transport Industry



General Industry



Paper and printing Industry



Wind Industry



Naval Industry



Equipment and machinery goods manufacturing Industry



Chemical Industry



Military Industry

WHY CHOOSE US

21+

21+ years
experience in
production and sales



Customer
first service concept



Professional
innovation and
R&D team



Multi-industry
leading experience



Strict and
Effective Quality
Assurance System



Perfect
after-sales system



ABOUT US

--2004: Founded
--30000SqM:Shanghai(Headquarter&RD Center)
floorspace:12000 SqM;
--Suzhou(ProductionBase)floorspace:18000SqM
--5 BranchesInChina:Qingdao,Chendu,Guangzhou
Wuhan,Henan
--12 Oversea distributor/agents& 1 indian service
center:
USA,Mexico,Ecuador,Australia,NewZealand,India
Thailand,Korea,Spain,Greece,Hungary,RUSSIA
--Main Industry:Automotive parts,Aerospace
Military,Motor,Fan,Pump,etc.



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