

Formal Offer



Semi - automatic
balancing machine
PHLD - 35H(JP580) with
drilling milling device

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Q uotation L ist:

(Valuedeterminestheprice)

No.	Model	Picture	Qty	Unit Price (USD)
1	PHLD-35H(JP800)		1	31,800\$

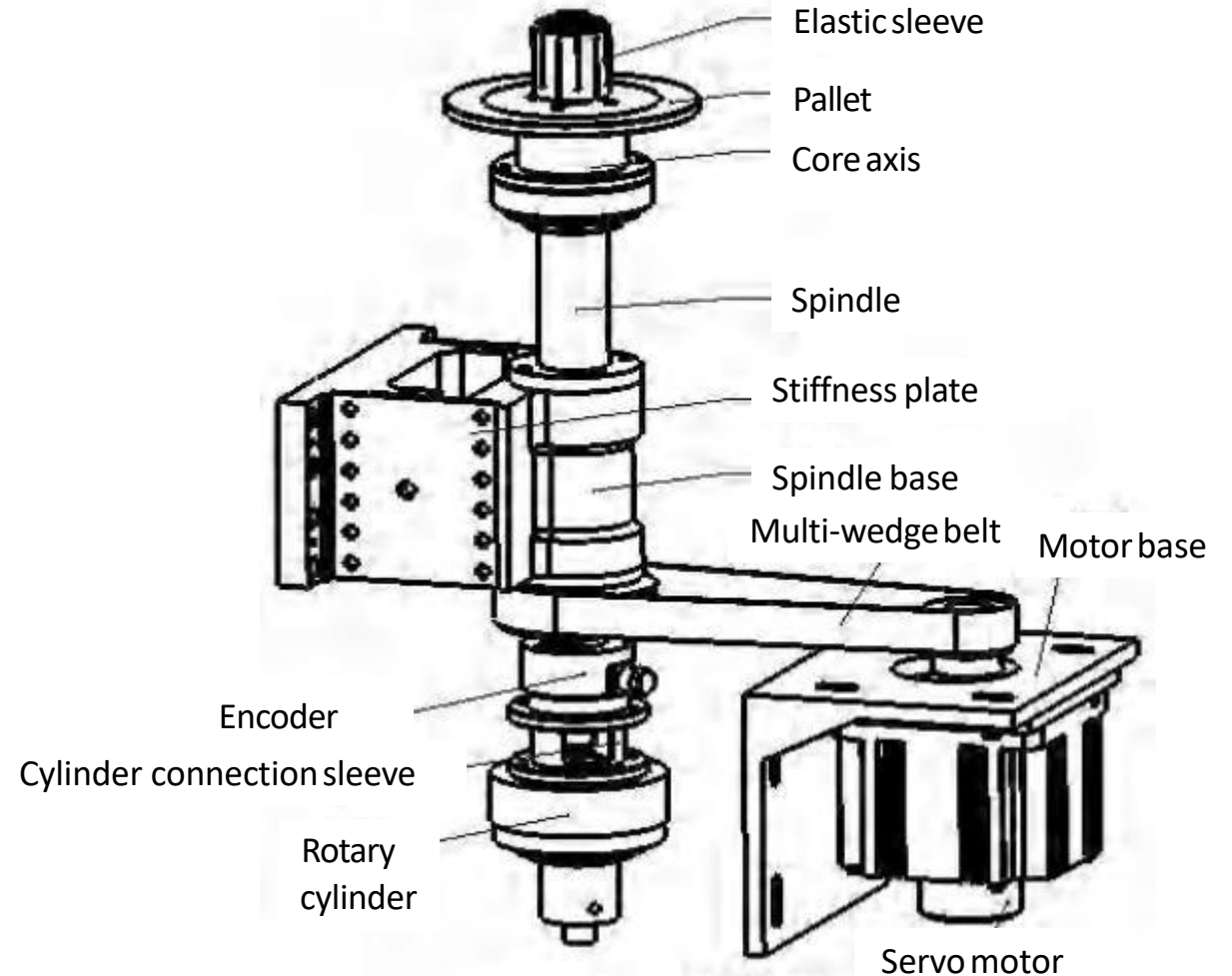
Commercial Terms:

Paym ent term	By T/T, i n advance 40 %, other 60 % before m achine shipping .
D elivery T ime	60 days after received the advance paym ent .
D elivery T erm	FOB S hanghai port
HS C ode	90311 000 90
Warranty	<p>The equipm ent is guaranteed for 12 m onths from the date of shipping .</p> <p>N otice:</p> <p>The seller will responsible the service cost if m achine have any quality issue .</p> <p>If the equipm ent dam age caused by non- norm al use of equipm ent (does not com ply with operating specifications, m an- m ade im pacts, natural disasters, etc .) the buyer should i n charge the service cost .</p> <p>L ife tim e free technical supporting and consultant d . S oftware is life - time free upgrade .</p>
Package	<p>Standard exporting w ooden box w ith plyw ood veneer m aterial non - fum igation, Required logo w ill be painting on box like dam p, fragile and etc . . .</p> <p>if buyer have any special requirem ents, please discussing w ith seller i n advance .</p>
S hipment	<p>T he seller should arrange equipment loading, transportation the equipment to G enova port & supporting the shipping agent deal customs works .</p> <p>The buyer should arrange equipm ent shipm ent from G enova and transport to their workshop, then according to the seller provide foundation draw ing to m ake the device foundation .</p>
Offer valid period	U ntil 30th D ecember, 2023 .

Spindle unit:

- Servo motor drives multi-wedge belt to control spindle rotation at high speed.
- The encoder converts angular displacement or linear displacement into an electrical signal, which makes the angular positioning of workpiece more accurate.
- The station will design the corresponding fixture separately according to the customer's workpiece.

Specially spindle



Measuring spindle structure diagram

JP Proposal: Vertical dynamic balancing machine – PHLD-35H(JP580)



1 Description:

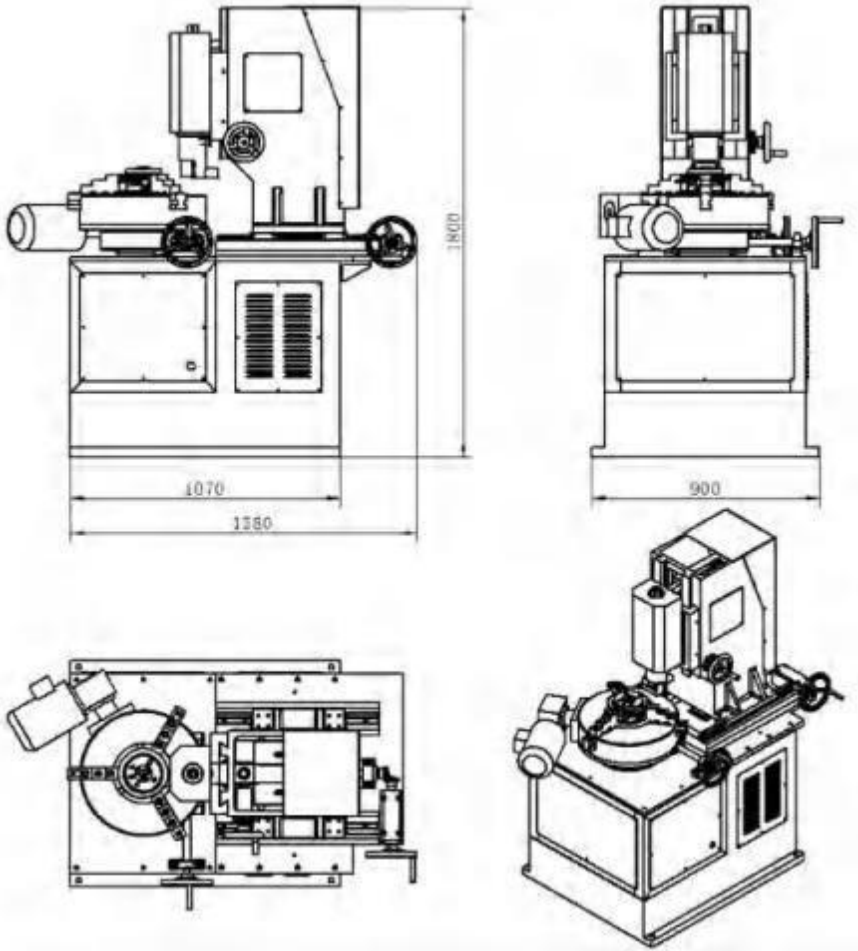
The balancing machine is a new and widely-used device which has been available and developed in recent years. It is mainly applied to balance all kinds of discoid parts, such as fan blade, brake disk, brake drum, saw blade, clutch, belt pulley, chuck, pump impeller, flywheel, grinding wheel, range hood fan, brake, torque converter, tool etc. High speed and precision are advantages of this balancing machine.

The machine match with de-weight device (Milling machine)

2 Features

1. The machine is applied to the balance correction of the excircle and end face of various disc-shaped workpieces which remove weight by drilling
2. Able to do adapter compensation, Weigh- Removing tool can be integrated upon request.
3. Touch screen measuring system. LCD/vector-graphic Display.
4. The Unbalance Amount and Angle, Correction and Bearing Mode, Balancing Rev are displayed intuitively.
5. Large storage of the rotor parameter and measuring records. Various printing of the measuring report
6. Permanent calibration measurement principle with high precision, allowing extremely high initial imbalance
7. With horizontal milling machine de-weighting device, easy to balance correction

Machine Parameters:



Specifications	Parameters
Maximum Weight of Rotor (kg)	35
Maximum Diameter of Rotor (mm)	500
Maximum High of Rotor (mm)	120
Workpiece remove material thickness(mm)	8-32
Spindle Speed(r/min)	~800
Balancer Motor Power (Kw)	1.5 AC
Minimum Achievable Residual Unbalance Amount (emar)	2g.mm/kg
Unbalance Reduction Ratio URR (%)	$\geq 90\%$
Maximum drilling milling angle	According to rotor diameter
Drilling Milling motor power (Kw)	2.2
Working pressure	0.4~0.6MPa
Machine total power (Kw)	4.8

Application :

- The balancing machine is a new and widely- used device which has been available and developed in recent years . It is mainly applied to balance all kinds of discoid parts, such as fan blade, brake disk, brake drum . saw blade . clutch, belt pulley, chuck, pump impeller, flywheel, grinding wheel, range hood fan, brake, torque converter, tool etc . High speed and precision are advantages of this balancing machine .
- Due to using pneumatic inflate clamps, so has a very high accuracy at the same time, also has a quick- release .
- According to user's requirement, The machine can install de-weight device.



5. JP-800B: self-developed by JP, FREE upgrade life-time long



FUNCTIONS:

- Single-plane dynamic balancing test
- Siemens S71200 PLC
- 15 inches touch screen
- Fixture Compensation function
- Linux operating system
- Multiple Language display: Chinese, English, Russian, Spanish, French
- 500 rotor data storage
- 1 million test data storage
- multiple account management
- Unit: mm, inch, feet and yard / g, kg, mg, grain, dram, ounce, pound / °(degree), rad
- Data can be exported via USB

5.1. Main Interface:

➤ Debug menu:

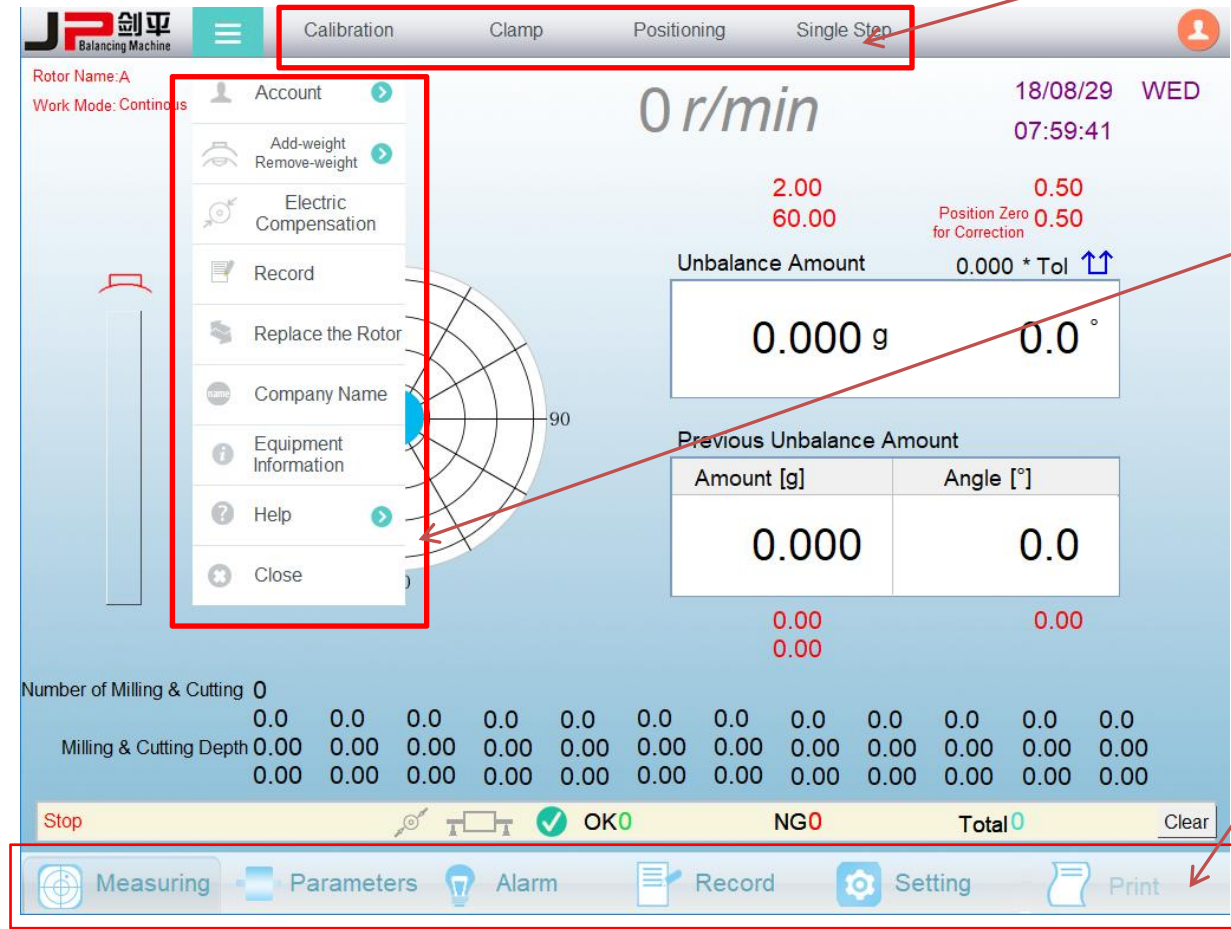
The operator uses when debugging equipment.

➤ Basic menu:

It consists of account management, weight-removing method, electrical compensation, rotor change (call rotor parameters) and other common basic function menu.

➤ Function menu:

It consists of measuring, parameter, alarm, record, setting, print and other functional menus, and switches the viewing and setting of various function interfaces.



Debug menu

Basic menu

Function menu



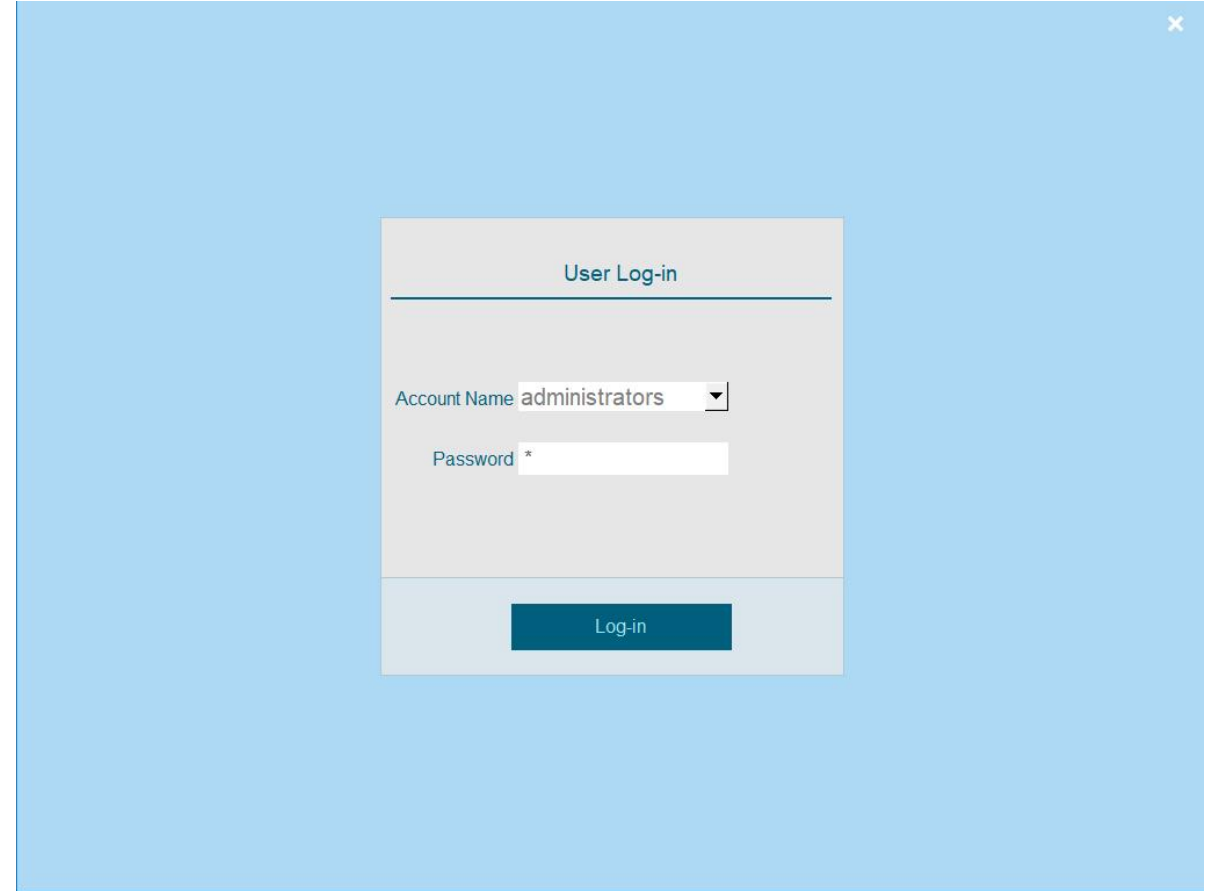
5.2. Account Management:

➤ Description:

For different users, all kinds of operation permissions are different. By default, this machine allocates three classes of users, namely administrator, inspector, operator.

In addition to the system's default three users, this machine can also add, delete users, change passwords and permissions.

Permission	User	Description
A, B, C	Administrator	The highest permission for a software account, can debug and modify the functions in the software, and change the permissions of the other two accounts
A, B	Inspector	Debug the calibration, fixture and other functions of the software
A	Operator	Detect various parameters when the machine is running normally, no modification permission



User login interface

5.3. System parameter setting

Switch between Chinese and English languages according to user needs, and also have the following function settings:

➤ **Measuring times:**

this number indicates that how many times the rotor rotates when it is measured once, and the larger the number, the more stable the measured data, but measuring time is long.

➤ **Refresh frequency:**

this number represents the average parameter used to calculate the measured data. Similar to acquisition average number of times, the larger the number is, the more stable the measured data is, but measuring time is long.

➤ **Vector graphic ratio:**

used to set the multiple of the outermost circle and permissible unbalance value in the main interface.

➤ **Data storage mode:**

this equipment provides two kinds of data storage methods.

➤ **Work mode:**

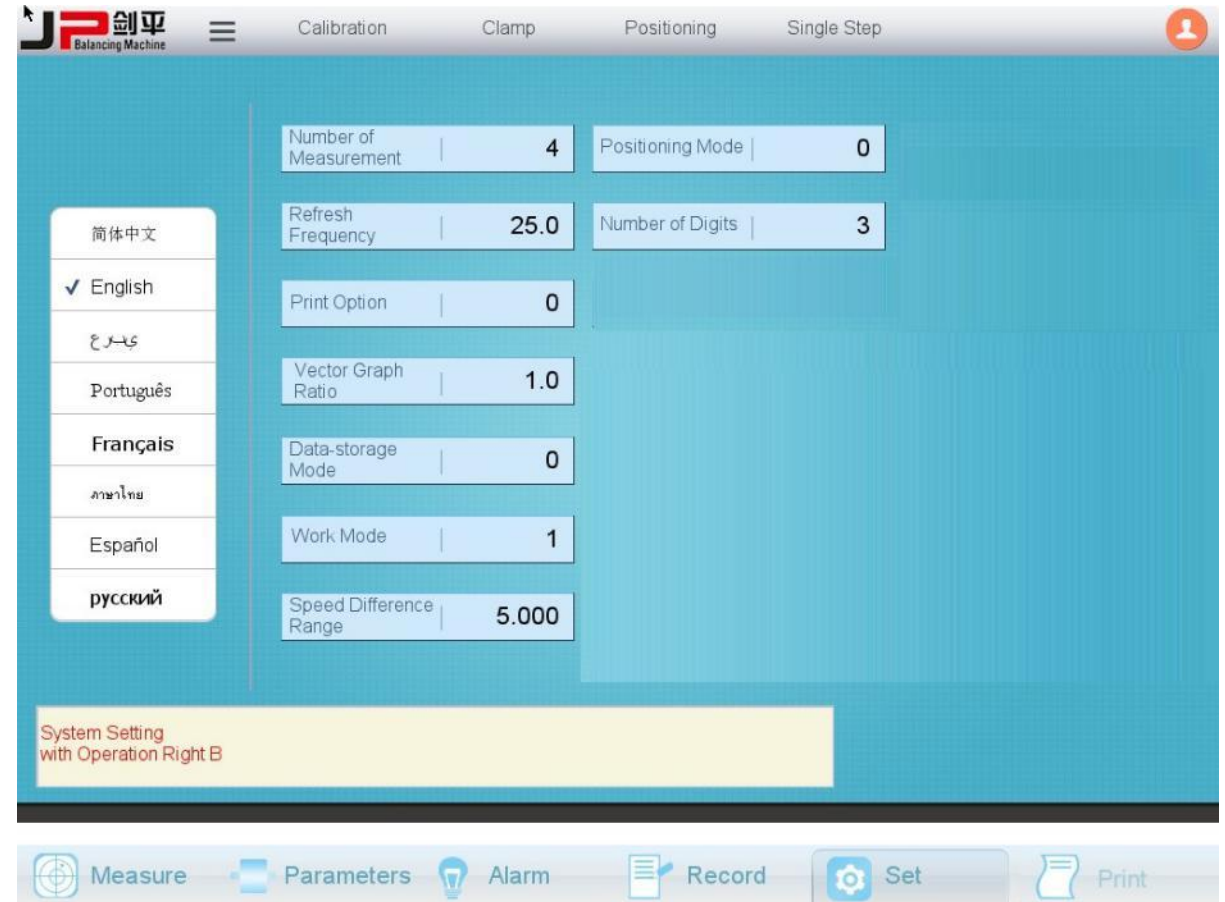
set up work mode

➤ **Rev difference ($\pm\%$):**

used to set the allowable difference range between the measuring and calibrating rotational speeds. Only within this range can the measurement be made, otherwise no measurement is made.

All system parameters are prompted, including parameter defining and setting range.

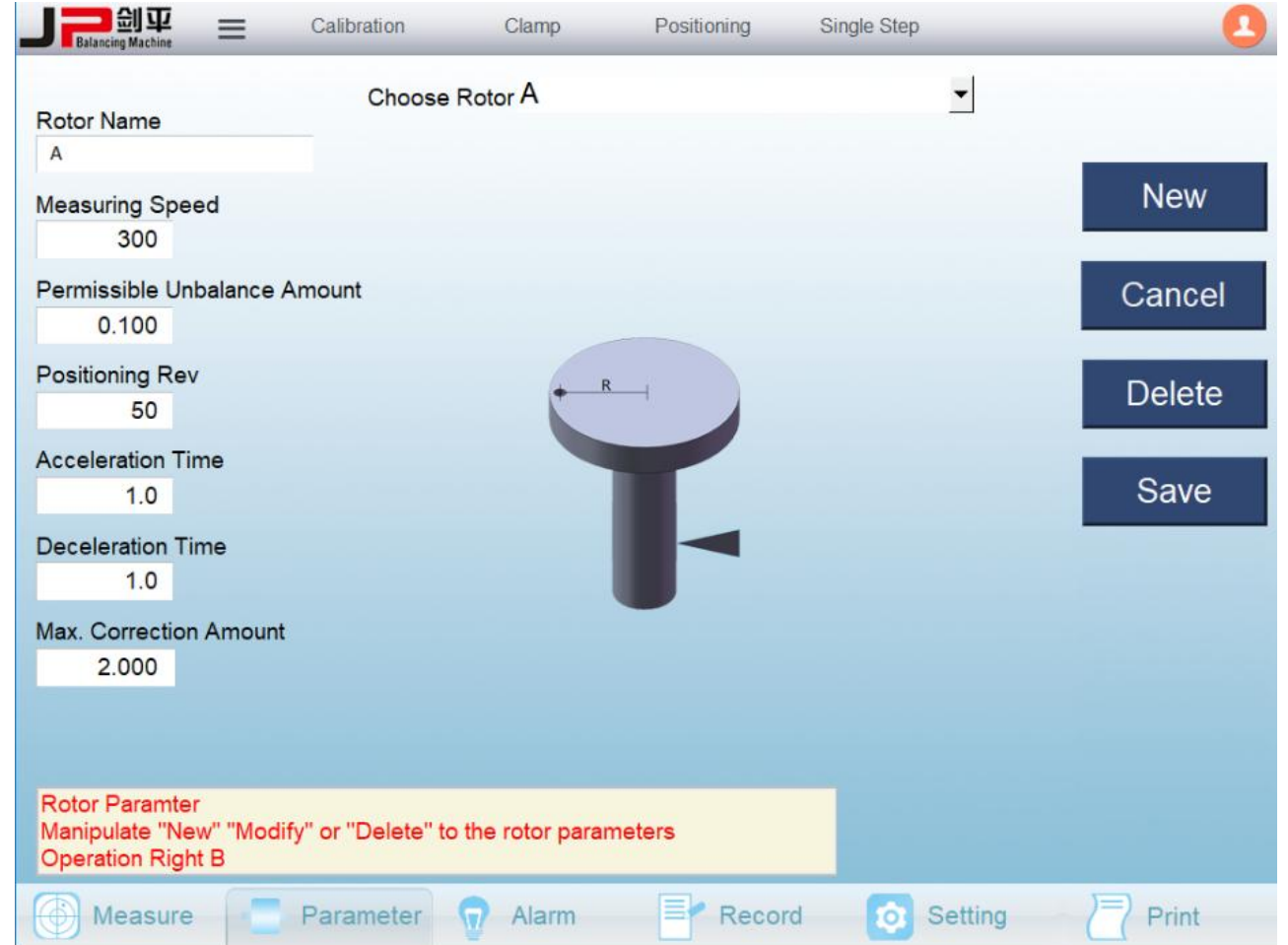
Note: changes can only be made if the highest permissions are displayed in the login.



5.4. Workpiece parameter setting:

➤ Description:

- Operators input a single type of workpiece related parameters, and stored them in the system after named, so as to call at any time.
- It can greatly shorten the time of modifying software when changing workpiece, this function can store up to 100 kinds of workpiece parameter information.
- All system parameters are prompted, including parameter defining and setting range.



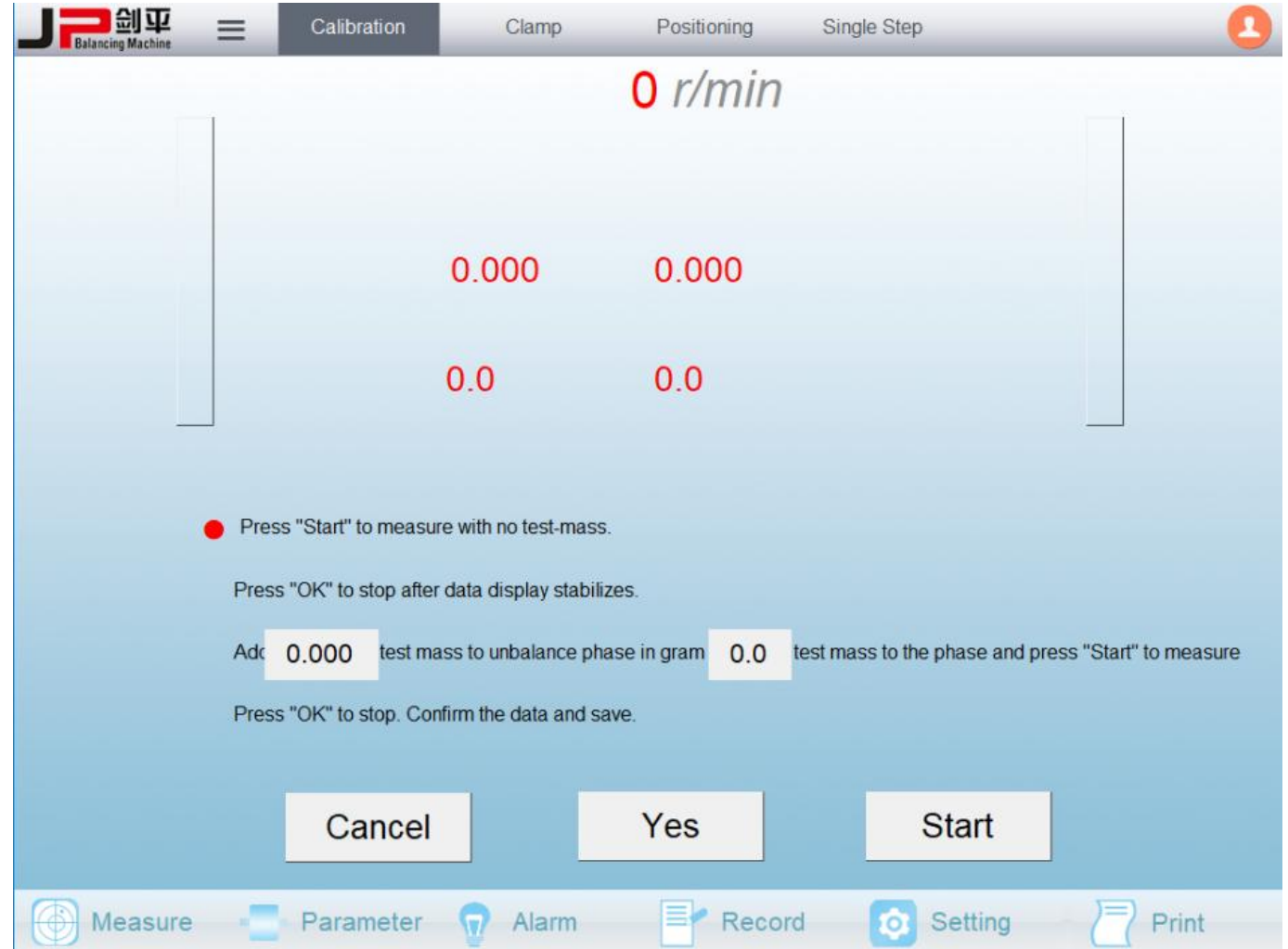
5.5. Calibration:

➤ Why need calibration?

Calibration should be carried out before formal measurement, and the process of calibration is actually to add known mass (test weight) to a certain position (correction plane) of the rotating part of the machine to be tested for trial operation. Thus, calculate the influence coefficients of the vibration measured by each vibration sensor and the unbalance of the correction plane. Formal measurement can be performed only after calibration.

✘Note:

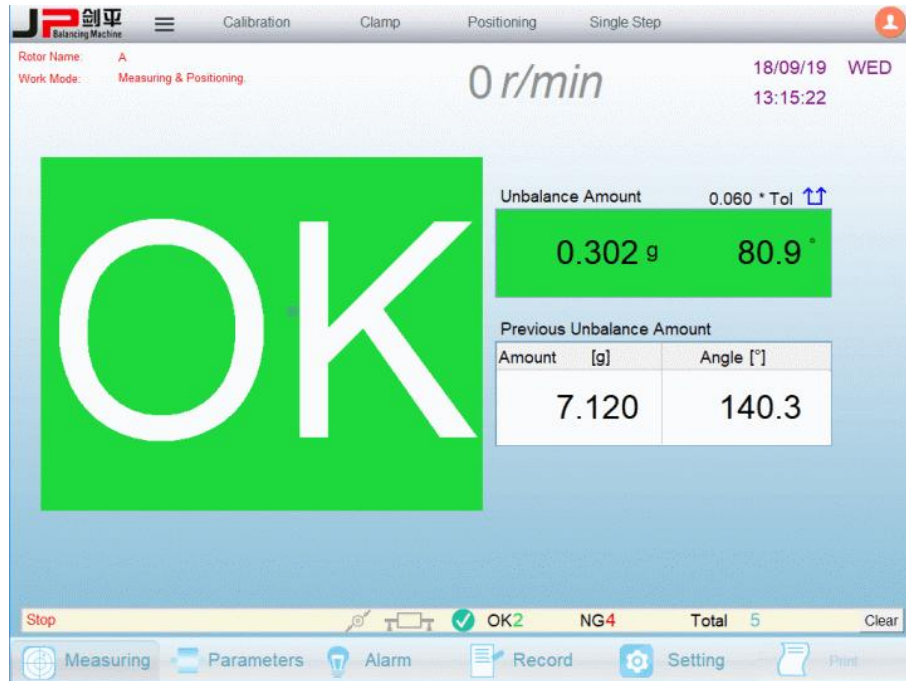
The calibration process also has wizard tips , helping user to get started quickly.



The screenshot shows the calibration interface of the JP Balancing Machine. At the top, there is a navigation bar with the following tabs: Calibration (selected), Clamp, Positioning, and Single Step. The speed is displayed as 0 r/min. The main display area shows two columns of data, each with a vertical scale on the left and right. The data values are 0.000 and 0.000 in the top row, and 0.0 and 0.0 in the bottom row. Below the data, there are instructions: "Press 'Start' to measure with no test-mass." and "Press 'OK' to stop after data display stabilizes." There are two input fields for test mass: "Add 0.000 test mass to unbalance phase in gram" and "0.0 test mass to the phase and press 'Start' to measure". Below these fields, there are three buttons: "Cancel", "Yes", and "Start". At the bottom, there is a toolbar with icons for Measure, Parameter, Alarm, Record, Setting, and Print.

5.6. Workpiece result display interface:

OK interface



NG interface

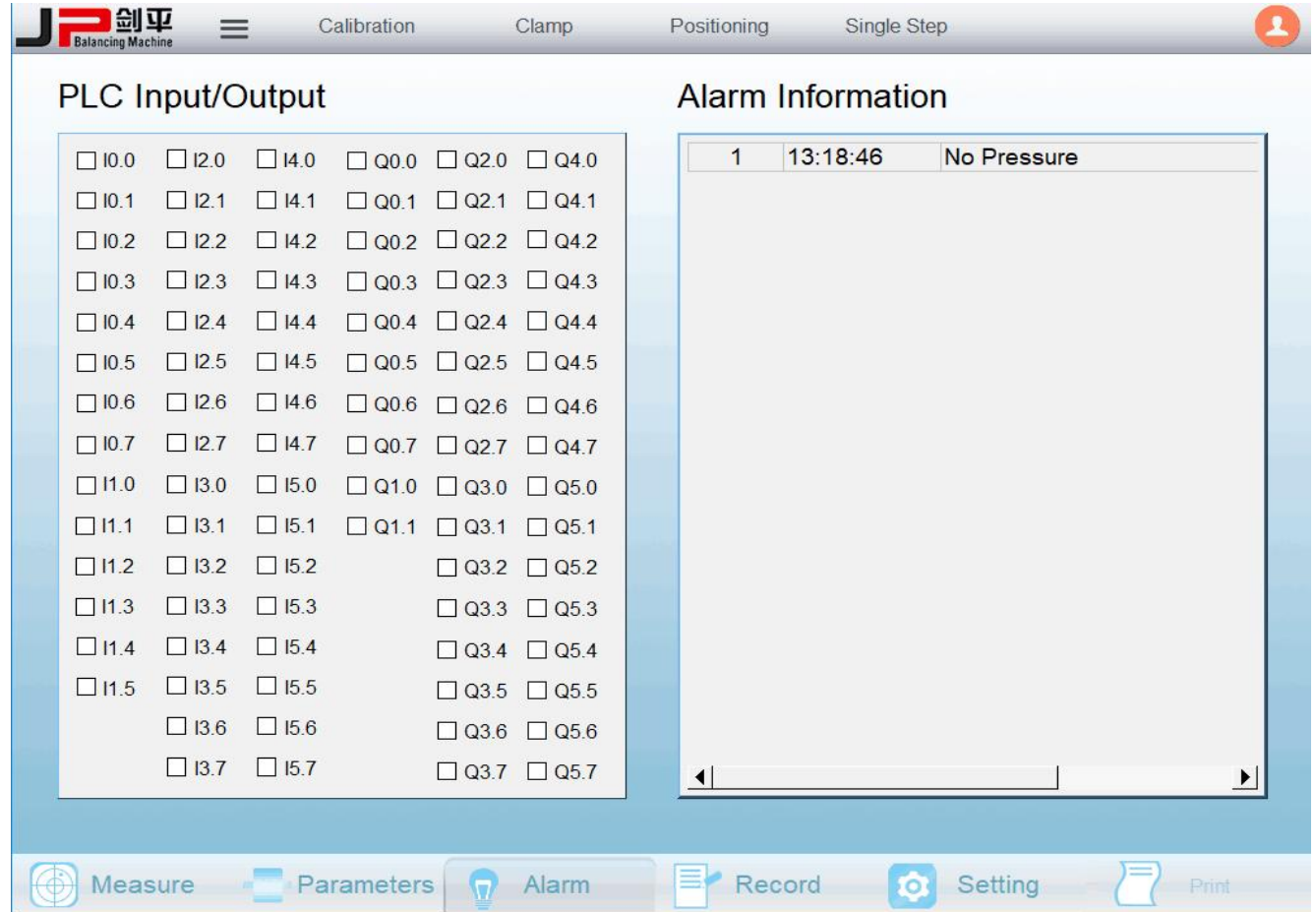


- When the workpiece retesting is completed, the touch screen interface uses uppercase letters and colors to indicate whether the workpiece is qualified or not, this helps operator to distinguish more conveniently, and the interface is clear at a glance.
- Qualified workpiece: green uppercase letter **OK**.
- Unqualified workpiece: red uppercase letter **NG**.

5.7. Diagnosis message:

Description:

- The interface displays the current error information of the equipment, providing effective help to the operator to determine the cause of the fault and to point out the detailed fault location information.
- All alarm content can be viewed in the alarm information interface.



The screenshot displays the software interface for the JP Balancing Machine. The top navigation bar includes 'Calibration', 'Clamp', 'Positioning', and 'Single Step'. The main content area is divided into two panels:

- PLC Input/Output:** A grid of checkboxes for digital inputs (I0.0-I1.5, I2.0-I2.7, I3.0-I3.7, I4.0-I4.7, I5.0-I5.7) and digital outputs (Q0.0-Q0.7, Q1.0-Q1.1, Q2.0-Q2.7, Q3.0-Q3.7, Q4.0-Q4.7, Q5.0-Q5.7).
- Alarm Information:** A table showing the current alarm status. The first entry is:

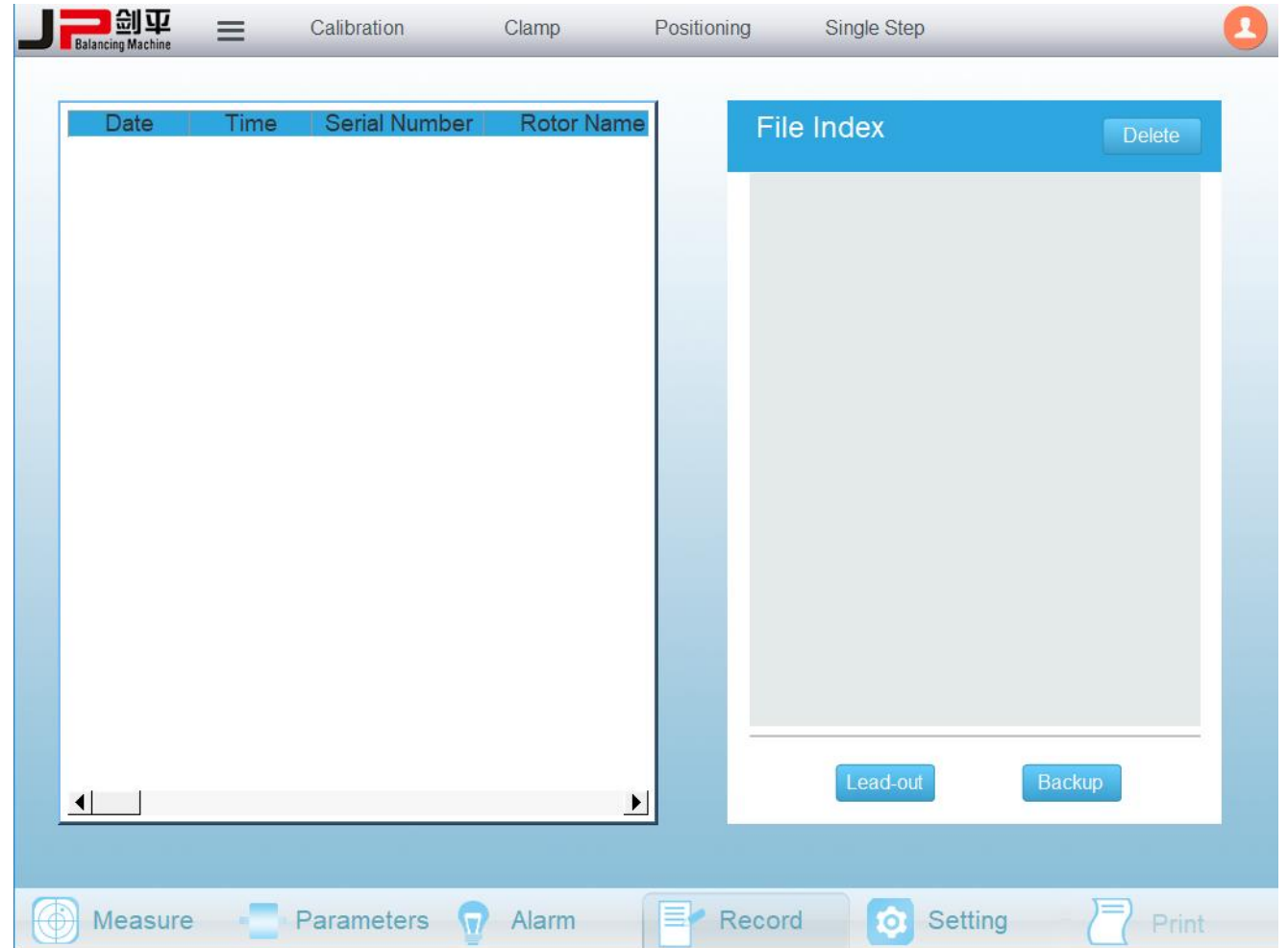
Alarm ID	Time	Description
1	13:18:46	No Pressure

The bottom toolbar contains icons for 'Measure', 'Parameters', 'Alarm', 'Record', 'Setting', and 'Print'.

5.8. History query:

➤ Description:

- Data query function can do search, statistics, filter, classify, export and other data management work.
- The settings have a variety of record options, history can be exported and backup server and deleted. By default, the administrator uses permissions to operate.
- This function can store up to 1 million parameters.



Actual debugging photos in customer's workshop:



Standrd packing list:

Type	Name	Specification	Qty
Main Machine	Vertical Balancing Machine	PHLD-35H	1
	Measuring unit	JP-800	1
Accessories	Power Plug		1
	safety cover		1
	Sensor cable		1
Tools	Ratchet spanner		1
	Allen Wrench		each for one
Wearing Parts	Transmission Belt		1
	Fuse		2
Documents	The drawings of foundation installation		1
	The instructional manual of Electrical principles		1
	Products Manual		1
	The instruction manual of measuring		1
	The instruction manual of inverter		1
	Operation video CD		1
	Win 7/ 10 CD		1

Equipment installation and environment conditions:

No.	Field conditions	Conditions required	Ineligible impact.
1	Foundation conditions	Solid and stable foundation	Affects detection linearity
2	Install	Equipment is firmly connected to the foundation and leveled	Affects detection stability
3	field vibration	The equipment should be installed away from the vibration source	Interference detection results
4	Air	Relative humidity $\leq 85\%$, no corrosive gas components	Shorten uselife
5	Ambient temperature	-10 ~ 45 °C	Affects detection linearity
6	Power supply	Three-phase five-wire system	Affects detection stability
7	Ground wire	Requires reliable grounding, grounding resistance is less than 4 ohms	Interference detection results

Factory Photos & Certifications:



Office building



Workshop interior



Factory layout



Warehouse



ISO



CE



SGS



BV

Value C customers :



After-sale Service:

(we provide complete balancing solutions, not only a machine)



➤ Operating

1. Machine match with English version manual instruction and operation CD (easy to learn)
2. Provide online support, like whatsapp, video conference and phone call (guide step by step)

➤ Training

1. Training in JP workshops (for free)
2. Training in buyers company (for charge, normally two or three days needed)
 - **1st day:** inspection cable connection, the finished foundation is qualified guide customer know each components name and functions as well
 - **2nd day:** demo and teach user do calibration (vertical+horizontal+Mathematical+ Physical mode) use customer workpieces do dynamic balance See the buyer operating the machine separately
 - **3th day:** review all operation step and learn each parts maintenance method.

➤ Troubleshooting

1. Before delivery :Special QC department check carefully ensure all is qualified with high quality
2. Through see customer actual photos or short video, using discussed group or email or video meeting or phone call give solutions immediately
3. Use remote monitor to inspection
4. Dispatch engineer go to customer workshops onsite

➤ Maintenance

1. During the warranty: free replace the Dam aged or broke part by non-human causes
2. Over warranty :just pay components cost price, we have safety stock for all parts
3. Software updated lifetime for free when JP have new version
4. For simple operation issue, through whatsapp/video/phone call deal with directly
5. For difficult issue, invite engineer to help you repair or debugging onsite
6. We also can provide 365 days 24 hours online technical support

We are committed to being your most trusted supplier in China.



About US:

- A high-tech enterprise.
- Founded in 2004
- Occupied area: 10,000m².
- Headquarters & factory located in Shanghai, China.
- Employees: 200+
- Business scope: 100+ countries.
- Cooperators : Over 8500
- Key market: Automatic / Manual balancing machine for automotive, motor, pump, home applications, refrigeration industry and service market.