



2022

Balancing Machine Brochure

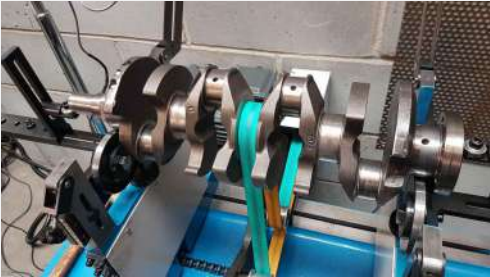
Innovative Balancing Solutions



Belt Drive Balancer

Belt Drive type balancing machine is widely used in small, middle and big-sized motors rotors, impeller, fans, crankshaft, turbocharger, water pump, roller, grinding wheel, main shaft of machine tool , textile machinery, tool , spindle, etc ..

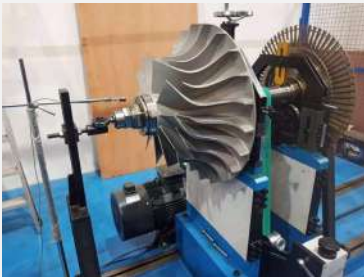
Model	PHQ-50	PHQ-160H PHQ-300H PHQ-500H	PHQ-1000H PHQ-2000H PHQ-3000H	PHQ-5000	PHQ-10000	PHQ-20000
Max Mass of Workpiece(kg)	50	160 300 500	1000 2000 3000	5000	10000	20000
Max Diameter of Workpiece (mm)	700	1000 1220 1500	1600 1800 2100	2400	2400	2800
Distance Between Two Support Bearings (mm)	80-700	130-1270	160-1780 160-1780 160-2280	500-2200	750-4600	750-5600
Journal Diameter Scope of Workpiece (mm)	80-75	15-75	25-120	40-380	60-400	60-400
Diameter Scope of Driving Belt (mm)	18-200	40-400 40-500 40-600	40-700 40-800 50-900	50-1000	50-1000	100-1300
Requency Conversion Motor Power (kw)	0.75	1.5 1.5 2.2	4 5 7.5	15	18.5	30
Machine Bed Length(mm)	900	1500	2000 2000 2500	2500	5000	6000



PHQ-50



PHQ-160H/300H/500H



PHQ-1000H/2000H/3000H



PHQ-10000H



PHQ-20000

Universal Joint Drive Balancer

Universal Joint Drive type balancing machine is widely used in balancing all kinds of light, middle and big-sized motors rotors, impeller, fans, crankshaft, turbocharger, water pump, roller, grinding wheel, screw rotor etc ...

Model	PHW-1000H PHW-2000H PHW-3000H	PHW-5000	PHW-10000H	PHW-20000	PHW-30000	PHW-40000	PHW-100000
Max Mass of Workpiece(kg)	1000 2000 3000	5000	10000	20000	30000	40000	100000
Max Diameter of Workpiece (mm)	1600 1800 2100	2400	2400	2800	3000	3400	4200
Distance Between Two Support Bearings (mm)	1600 1900 1900	2500	4000	5200	6000	7000	10000
Journal Diameter Scope of Workpiece (mm)	25-120	40-380	60-400	60-400	80-500	80-560	80-620
Universal coupling torque(N.m)	250 300 700	1250	2250	5000	7800	9000	15000
Requency Conversion Motor Power (kw)	4 7.5 7.5	15	22	55	75	90	220
Machine Bed Length(mm)	2500 3000 3000	4000	5500	7000	8000	8000	10000



PHW-1000H/2000H



PHW-3000H



PHW-5000



PHW-20000



PHW-100000

Dual Drive Balancer

One machine with two drive system (belt drive device & coupling drive type), more widely application range.

Model	PHWQ-1000H PHWQ-2000H PHWQ-3000H	PHWQ-5000	PHWQ-10000H	PHWQ-20000	PHWQ-30000
Max Mass of Workpiece(kg)	1000 2000 3000	5000	10000	20000	30000
Max Diameter of Workpiece (mm)	1600 1800 2100	2400	2400	2800	3000
Distance Between Two Support Bearings (mm)	1600 1900 1900	2500	4000	5200	6000
Journal Diameter Scope of Workpiece (mm)	25-120	40-380	60-400	60-400	80-500
Universal coupling torque(N.m)	250 300 700	1250	2250	5000	7800
Requency Conversion Motor Power (kw)	4 7.5 7.5	15	22	55	75
Machine Bed Length(mm)	2500 3000 3000	4000	5500	7000	8000



PHWQ-3000H



PHWQ-5000



PHWQ-20000



PHWQ-30000

Vertical Balancer

Vertical balance all kinds of discoid parts, such as: brake disk,brake drum, clutch, pulley, flywheel, torque converter etc...
It can add drilling or milling device to remove material.

Model	PHLD-16	PHLD-42	PHLD-65	PHLD-35H
Max Mass of Workpiece(kg)	16	42	65	35
Max Diameter of Workpiece (mm)	800	800	800	180-450
Max Height of Workpiece (mm)	160	160	160	80
Requency Conversion Motor Power (kw)	1.5	1.5	2.2	2.2



PHLD-16/42/65



PHLD with drliing device



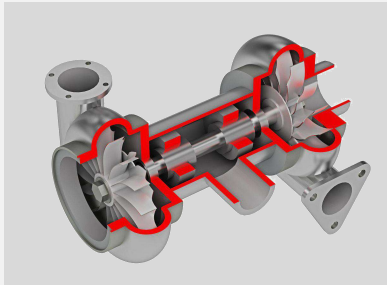
PHLD-35H (semi-auto milling machine)

Turbocharger Balancer

Specially for automotive turbocharger manufacturing & repair industry.

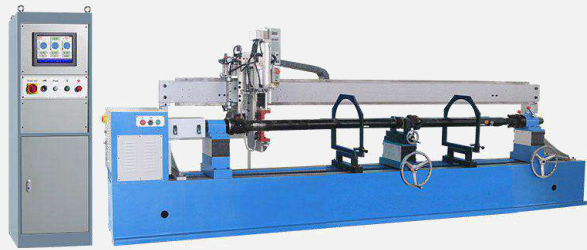


Model	PRZY-0.5	PHZY-1.6/5/16
Max Mass of Workpiece(kg)	0.5	1.6/5/16
Max Diameter of Workpiece (mm)	60	300
Distance Between Two Support Bearings (mm)	30-115	60-400
Journal Diameter Scope of Workpiece (mm)	5-15	5-40
Diameter Scope of Driving Belt (mm)	5-15	15-150
Motor Power (kw)	0.1DC	0.23DC

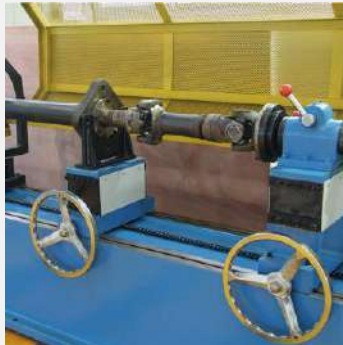
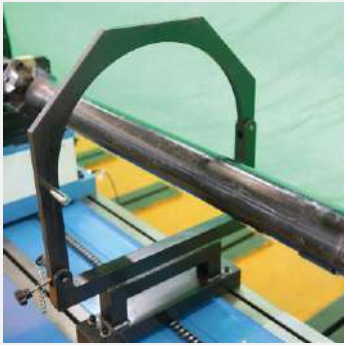


Drive Shaft Balancer

It can balance one piece / two pieces/ three pieces and four pieces drive shaft. Manual welders and safety cover can be attached.



Model	PHCW-100/350	PHCT-100/350	PHCF-100/350
Max Mass of Workpiece(kg)	100/200	100/200	100/200
Workpiece effective length(mm)	2000	4500	5500
Max Diameter of Workpiece (mm)	130	130	130
Max shaft diameter of the workpiece(mm)	120	120	120
Balancing speed(rpm)	3200	3200	3200
Universal coupling torque(N.m)	60	60	60
Requency Conversion Motor Power (kw)	1.5	2.2	2.2
Machine Bed Length(mm)	3300	6000	7000



Portable Balancer

Mainly application for on-site balancing works for fan blower, motor, cooling tower, CNC spindle etc...



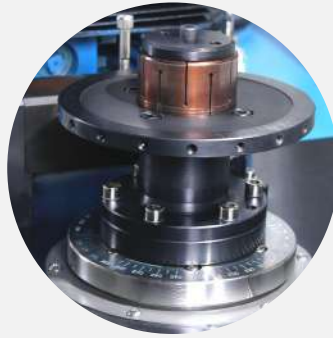
DM-3 portable balancer parameters

- 1.7-inch touch screen
- Win CE operation system
- Measuring speed 180-10000r/min
- The resolution of unbalance amount: 0-3
- Waveform display
- Indexing function
- Sensor Detect
- Harmonic analysis
- Vector decomposition and composition.
- 100 sets of scaling data storage.
- Electronic compensation
- Single/Double plane balance.
- Data can be exported.
- The Battery cruise time : 2.5h.
- Machine weight : 6.78kg
- Machine size : 450*260*145mm

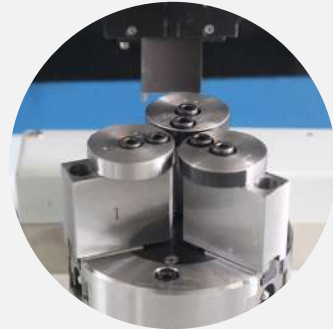


Automatic Balancing Drilling Machine

Vertical automatic balancing machine, specifically designed for the balancing of pulley, flywheel, brake drum, assembled clutch etc.

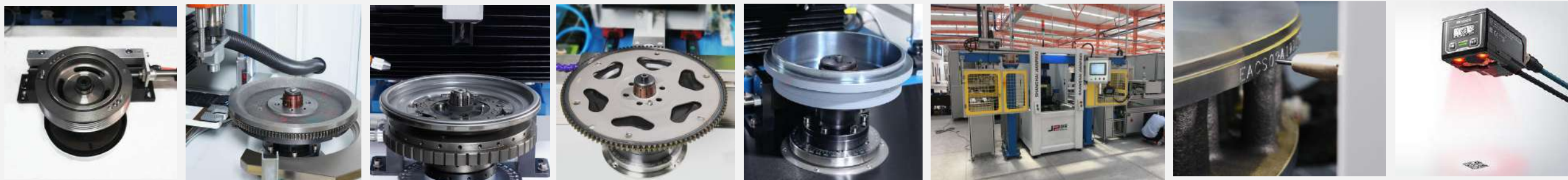


Customized Fixture



Features:

- Single-sided balance, axial drilling.
- Quick model change, parameterized adjustment, simple operation and strong compatibility.
- It can be single machine automatic balance, online automatic line for automatic production,
- Can be equipped with MES system to realize data traceability.
- Avoidance function for drill holes.
- Industrial vacuum cleaner for removing drilling chips.
- Operator interface by Siemens PLC.
- Modular Constructed concept.



Automatic Balancing Milling Machine

Widely used for balancing of assembled brake disc, brake drum, Differential, Clutch etc.....



• Fixture customization

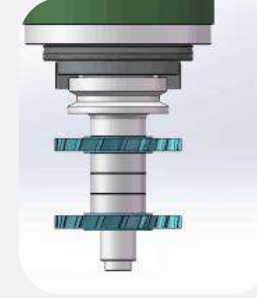


Three-jaw
chuck



Elastic
sleeve

• Cutter tool customization



Milling
Device



After Milling

• Option: ① Intergarte conveyer, ② Marking device, ③ Scanner, ④ Deburring



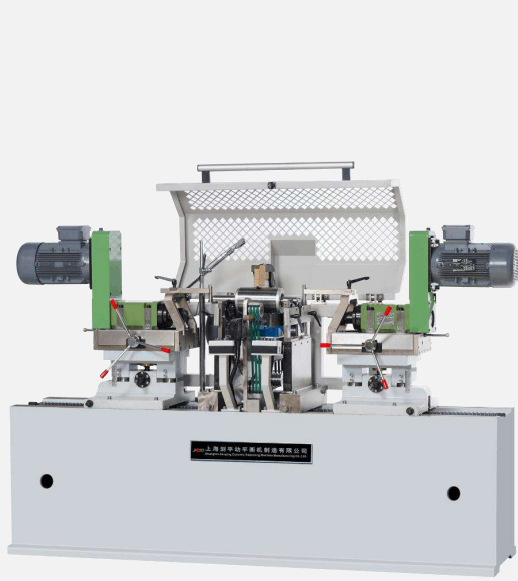
Features:

- Machine parameters are customized according to product parameters
- Vertical automatic balancing machine, specifically developed for the
- The unbalance is automatically corrected by milling.
- High level of flexbity and quick production change over
- Low failure rate,Reduction in machine"down time"

• Application for all of disc-shape, such as: Brake disc, Brake drum, Clutch, Differential case.



Electric Vehicle Motor Automatic Balancing Machine



Semi-Automatic



Single-station Automatic



Two-station Automatic

Features:

- **Balancing machine unit:**

The part above the rigid plate (except the roller) adopts anti-magnetic design.

- **Rotary transport unit:**

The gripper is made of antimagnetic material.

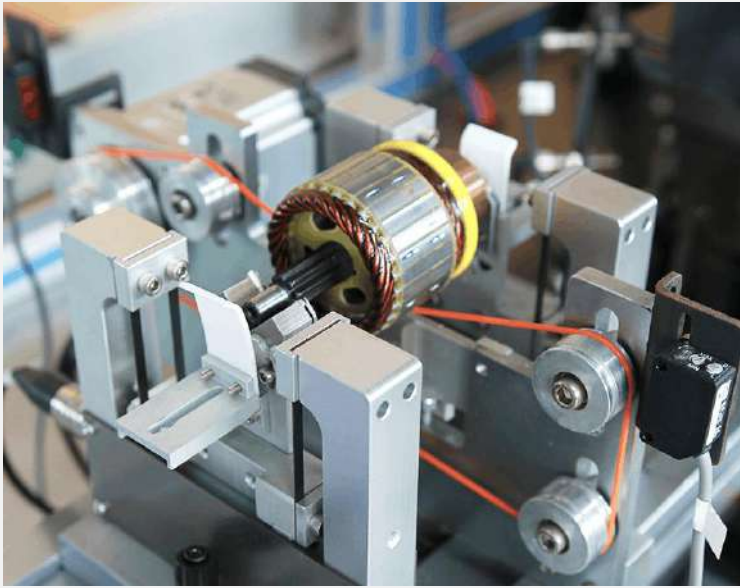
- **Weight removal unit:**

The tooling fixture and the force offset chuck adopt anti-magnetic material

1. It is widely used for high, medium and low production lines
2. The robot or pick and place gantry can be integrated
3. We' ll supply an automated guard for protection
4. Fast changover
5. Advanced measure system can do MES, suitable for mass production
6. JP Can provide single-station/two-station/four stations erotor balancer models



Armature Balancing Machine



Two-station



Five-station

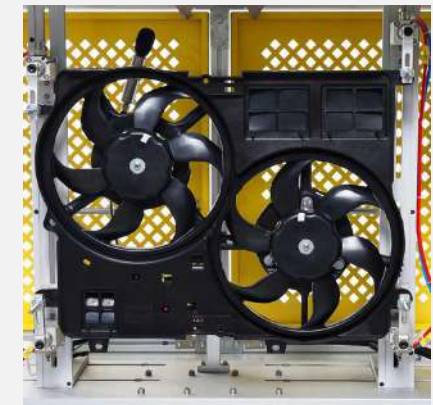
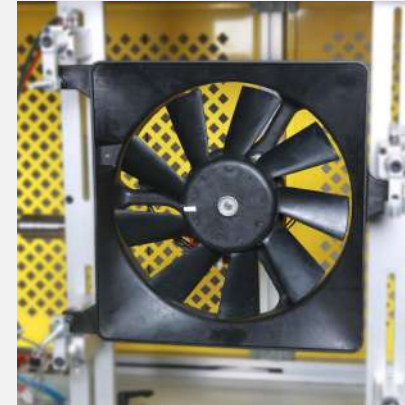
Advantages:

- Wide range of application, quick changeover of small batches and multiple varieties.
- Fully automatic measurement and weight removal, simple training can be on duty operation.
- Fault alarm prompt, easy maintenance.
- It can be equipped with a separate automatic assembly line or a fully automatic rotor production line.
- According to the rotor characteristics, there are multiple deduplication methods such as R/V/T milling.
- Fully independent intellectual property rights, special products can support highly customized solutions.
- The main electrical components adopt brand components, machine performance is stable and reliable.
- Sound and light prompt for qualified judgment, one person can operate two machines at the same time.

Engine Cooling Fan Balancing Machine

Functions:

- Single-plane / Double Plane dynamic balance
- Current test
- Voltage test
- power test
- Indexing algorithm
- 500 sets of workpiece parameters
- 1 million Measurement record
- Display unit customization
- Supported several languages
- Date count
- Data output
- Permission function
- Programmed power supply
- Scanner
- Pneumatic fixture
- Bracket quick stop
- Tricolor warning light
- Overcurrent protection
- Overvoltage protection
- Short circuit protection
- Air pressure protection (equipment)
- Start with both hands
- Dual power protection
- Automatic security door/Safety grating
- Counterweight box indicator light
- Maintenance lighting



Fan and Motor Assembly Balancing Machine



Machine function:

- Chips sorting box
- Safety guarding, safety light curtain
- Human machine interface control
- Detachable mesh protection
- Tricolor alarm light sound and light tips
- Electrical cabinet file placement bag
- Automatic color marking
- Equipment integration design
- Print label
- With or Without workpiece testing
- CW or CCW detection

Software function:

- | | |
|---|------------------------------------|
| • Man-machine transation 12" touch screen | • Sensor detection |
| • Account management | • Data save & record |
| • Supporting 8 different language | • Trouble shooting |
| • Siemens PLC | • Remote monitor |
| • Clamp compensation | • USB data can be exported |
| • Indexing function | • Data printing |
| • ISO accuracy calculation | • Automaticly guide operation step |



Wheel Hub Balancing Machine



Features:

- CCD image can automatic identify incoming material model
- End surface and radial runout measurement first harmonic second harmonic
- Automatic centering dynamic unbalance measurement and marking/coding
- High-precision expansion sleeve fixture / multi-jaw fixture that can clamp a wide range
- Gantry loader assembly line automatic conveying automatic sorting
- The measurement and unbalance data can be exported which is convenient for users to do data statistics
- Short production cycle time suitable for mass production
- Mainly used in automatic balancing detection and sorting of wheel hubs can also detect the unbalance amount and angle of wheel hubs

Tire Automatic Balancing and Testing Machine



Features:

- Applied to the balance correction of automobile tire wheels
- Using the Shanghai Jianping dynamic balance algorithm, the workpiece is automated from loading, balance detection, automatic marking, auxiliary manual trimming and unloading. It can be applied to mass continuous production.
- Adopt the measurement control system developed by Shanghai Jianping, which integrates measurement, control and calculation functions
- The interface is clear and intuitive, easy to operate and use
- It can be connected with unmanned automatic line and other equipment

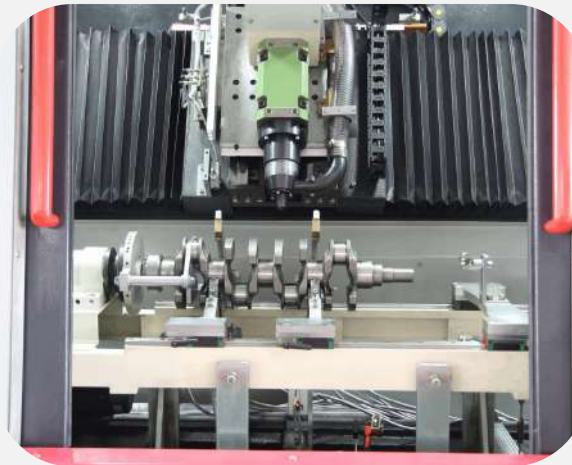


Crankshaft Dynamic Balancing Machine

This machine is dedicated to balancing and correction for 4 cylinder/ 6 Cylinder car crankshaft.

Features:

- Can do twice and more weight removing correction for workpieces
- Automatic measurement automatic drilling correction and retest
- Manual loading and unloading
- 15" touch screen
- Advanced balancing machine measuring software
- Rigid structural design, longer service life



Co-branding





Contact us:
Shanghai Jianping Dynamic Balancing Machine Manufacturing Co., Ltd
Attn: Flora Guan
Email: jp018@jp-balancer.com
Whats'App: 86 135 6430 1605
Address: No.2151 Panchuan RD, Shanghai, China