



**Cross Strait research and development,
production, and global synchronized sales**

Campro Precision Machinery Co., Ltd.

No. 12, Jingke 1st Road, Nantun District,
Taichung City 40852



General Agency

Shanghai Zopo Intelligent Equipment Co.,Ltd

9 Floor, Building 1, Sinomach Group Campus,
No.778 Jinji Road, Pudong New Area, Shanghai
P.O: 201206, China
TEL: 86-021-68360398
E-mail: neo.wang@shanghaizopo.com

Campro Precision Machinery (Jiaxing)
Co., Ltd.

No.429 Yunhai Road, Jiaxing City,
Zhejiang Province



CE ISO 9001 TD09005D

CSV Series

3D MACHINING CENTER

- Photos in this document may include special attachments; actual appearance may vary slightly depending on specifications.
- The content of this document is subject to change due to product improvements without prior notice.
- For any inquiries regarding the content of this document, please contact Campro' s Sales Department.

Reliable performance brought by high-speed and high rigidity design

The new CSV series retains the characteristics of Kaibo stone structure, not only with excellent rigidity but also with improved z-axis velocity. Prepare users for efficient processing and automated layout

>> High quality inspection system and quality assurance

- ◆ Three-axis linear guides
- ◆ Efficient and lightweight cutting

High cost-effectiveness makes your processing more valuable



Product Structure and Characteristics

The knife magazine is composed of steps on the side of the column, and the support is connected to the side of the Fu Tong

The spindle is suitable for processing in various ways from 6000 to 12000 rpm, with standard air curtain protection to prevent dust and water vapor from entering and protect the service life of the bearings

The saddle workbench is designed to be thicker and stronger. The use of symmetrical design ensures smaller deformation and better dynamic stability, and the reasonable arrangement of reinforcement bars ensures long-term strengthening of the seated workbench design. The use of symmetrical design ensures smaller deformation and better dynamic stability. Reasonable reinforcement arrangement and timely treatment to ensure long-term stability during use

The spindle box adopts a thermal symmetrical design to reduce thermal deformation caused by spindle heating

Reasonably match the motor with the moving shaft to ensure rapid response and precise control

The base and column structure adopt a wide distance base and wide column design, and the interior adopts a symmetrical structure to ensure that the machine tool has sufficient static load.

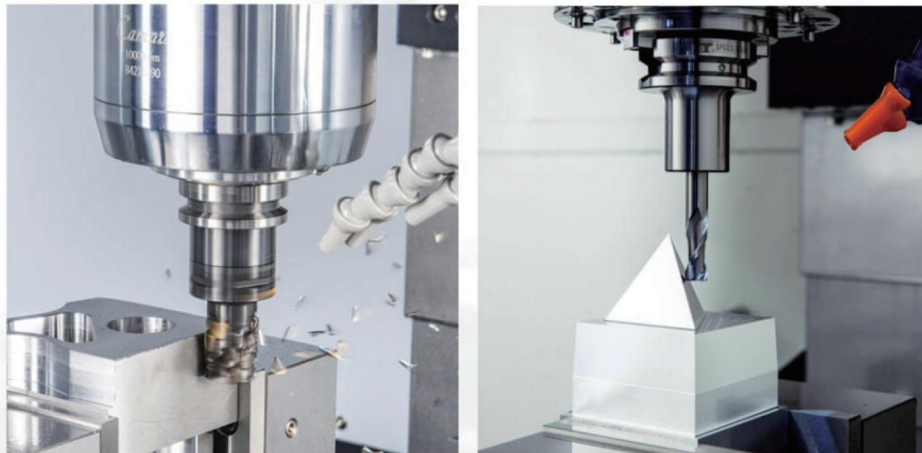
Configure high rigidity guide rails and strong lower reinforcement ribs design

Structural rigidity and dynamic rigidity are the foundation for the stability of precision in high-precision machine tools

Excellent processing performance



Advanced mechanical process design, high-speed, high-precision parts processing experts



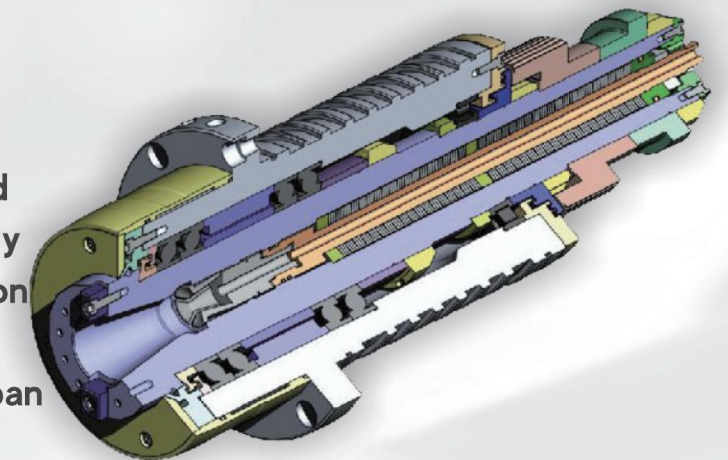
Example of workpiece display



Spindle motor diagram

High rigidity precision spindle

Adopting a high-speed silent toothed belt spindle, paired with high rigidity P4 angled ball bearings, and precision grinding assembly to ensure optimal dynamic rotation accuracy and lifespan

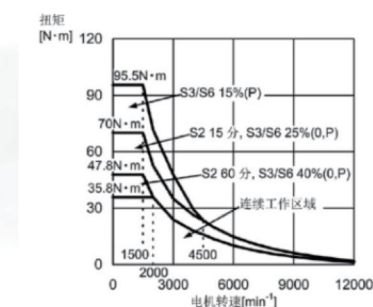
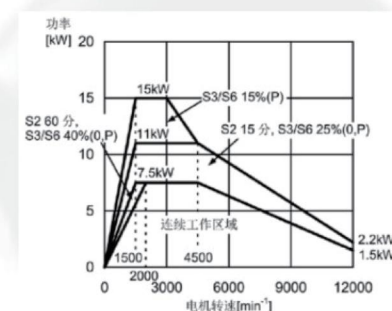


Spindle horsepower/torque curve chart

Belt type spindle

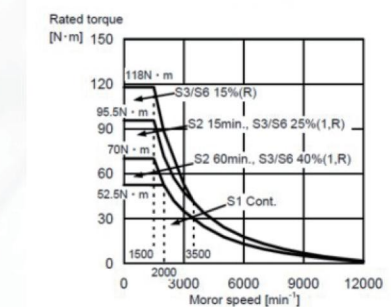
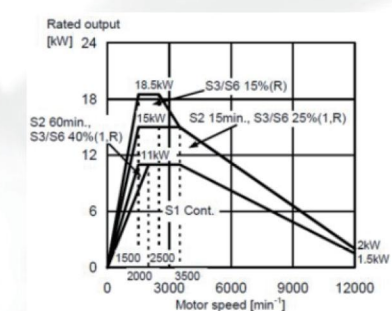
FANUC 15HP BT40

Application: 550/750



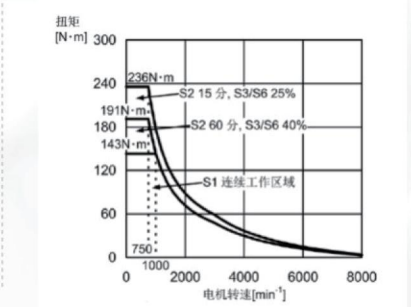
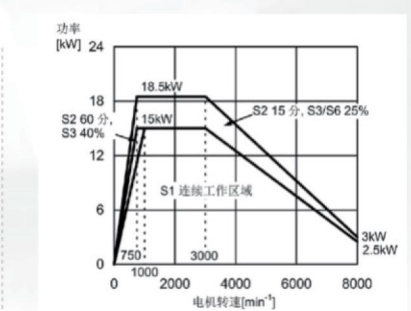
FANUC 20HP BT40

Application: 850/1050



FANUC 25HP BT50

Application: 1100A/1200A/1300A/1500A



Specifications and Parameters

Machine Standard Specifications Table

CSV-550/750/850/1050

Model/Item			Unit	CSV-550	CSV-750	CSV-850	CSV-1050
Travel	X-axis travel		mm	550	750	850	1050
	Y-axis travel		mm	430	430	520	540
	Z-axis travel		mm	480	480	520	520
	Distance from spindle nose to table surface		mm	100-580	100-580	110-630	110-630
	Distance from spindle center to columnrail surface		mm	485	485	654	654
Table	Table area		mm	650X430	850X430	950×520	1150×520
	Maximum table load capacity		kg	300	300	500	650
	T-shaped groove<groove width x quantity x spacing>		mm	14×4×100	14×4×100	18×5×100	18×5×100
Spindle	Maximum spindle speed		rpm	10000	10000	10000	10000
	Spindle drive method			Belt	Belt	Belt	Belt
	Spindle taper			NO.40	NO.40	NO.40	NO.40
	Spindle bearing inner diameter		mm	60	60	70	70
Automatic tool changer system	Tool holder type			BT	BT	BT	BT
	Tool storage capacity			20	20	24	24
	The maximum diameter of the cutting tool is less than that of any adjacent tools		mm	φ80<φ130>	φ80<φ130>	φ80<φ150>	φ80<φ150>
	Tool storage capacity		mm	250	250	250	250
	Maximum tool weight		kg	7	7	7	7
	Tool selection method			Random storage method	Random storage method	Random storage method	Random storage method
	24 tools	Tool-to-tool	sec.	2.5	2.5	2.5	2.5
		Point-to-point	sec.	5	5	5	5
Feed rate	Rapid feed	X,Y-axis	m/min.	30	30	36	36
		Z-axis	m/min.	30	30	30	30
	Cutting feed		mm/min.	10000	10000	10000	10000
Other specifications	Floor area<width x depth>		mm	2240X2670	2240×2670	2930×2260	3330×2260
	Machine weight		kg	3000	3300	5000	5700
	Machine height		mm	2520	2520	2680	2680
	Power supply		kva	15	20	20	20
	Air pressure source		kg/cm²	6~8	6~8	6~8	6~8

※Maximum spindle speed: The maximum speed may sometimes be limited by the fixtures and tools used.

※Actual values for power supply, air pressure source, machine weight, and dimensions may vary from the above figures depending on optional accessories and peripheral equipment.

Machine standard specifications table

CSV-1100A/1200A/1300A/1500A

Model/Item			Unit	CSV-1100A	CSV-1200A	CSV-1300A	CSV-1500A
Travel	X-axis travel		mm	1100	1250	1300	1550
	Y-axis travel		mm	610	700	800	850
	Z-axis travel		mm	630	700	700	850
	Distance from spindle nose to table surface		mm	110-740	60-760	140-840	120-970
	Distance from spindle center to columnrail surface		mm	667	740	870	960
Table	Table area		mm	1300X610	1400x700	1500X800	1700X850
	Maximum table load capacity		kg	900	900	900	1600
	T-shaped groove<groove width x quantity x spacing>		mm	18×5×100	18×5×120	18×5×150	7-18 (5×125/2×100)
Spindle	Maximum spindle speed		rpm	8000	6000	6000	6000
	Spindle drive method			Belt	Belt	Belt	Belt
	Spindle taper			NO.40	NO.50	NO.50	NO.50
	Spindle bearing inner diameter		mm	70	100	80	100
Automatic tool changer system	Tool holder type			BT	BT	BT	BT
	Tool storage capacity			24	24	24	24
	The maximum diameter of the cutting tool is less than that of any adjacent tools		mm	φ80<φ150>	φ110<φ200>	φ110<φ200>	φ110<φ200>
	Tool storage capacity		mm	250	300	300	300
	Maximum tool weight		kg	7	15	15	15
	Tool selection method			Random storage method	Random storage method	Random storage method	Random storage method
	24 tools	Tool-to-tool	sec.	2.5	3.5	3.5	3.5
		Point-to-point	sec.	5	7	7.0	7.0
Feed rate	Rapid feed	X,Y-axis	m/min.	36	36	24	24
		Z-axis	m/min.	32	24	24	24
	Cutting feed		mm/min.	10000	10000	10000	10000
Other specifications	Floor area<width x depth>		mm	3404X2831	3300X2900	3300X3100	4000X3400
	Machine weight		kg	6800	7800	8500	12000
	Machine height		mm	2850	2900	2900	3600
	Power supply		kva	25	30	30	30
	Air pressure source		kg/cm ²	6~8	6~8	6~8	6~8

※Maximum spindle speed: The maximum speed may sometimes be limited by the fixtures and tools used.

※Actual values for power supply, air pressure source, machine weight, and dimensions may vary from the above figures depending on optional accessories and peripheral equipment.

Standard/Optional Features List

● Standard ○ Optiona X Not available

Content	CSV-550	CSV-750	CSV-850	CSV-1050
10,000 RPM Belt-Driven Spindle	●	●	●	●
Front Spindle Ring Jet	●	●	●	●
Three-Axis Screw Pre-Stretching	●	●	●	●
Air Pressure Unit	●	●	●	●
Air Gun Unit	●	●	●	●
Water Gun Unit	●	●	●	●
Spindle Air Blow System	●	●	●	●
Spindle Oil Chiller	●	●	●	●
Three-Axis Telescopic Cover	●	●	●	●
Electrical Cabinet Air Conditioner	○	○	○	○
Automatic Tool Changer System	●	●	●	●
Automatic Lubrication System	●	●	●	●
Machine Interior Work Light	●	●	●	●
Three-Color Warning Light	●	●	●	●
Automatic Power-Off	●	●	●	●
Base Chip Flushing	●	●	○	○
Belt-Driven Spindle 12,000 RPM	○	○	○	○
Direct-Drive Spindle 10,000 RPM	○	○	○	○
Direct-Drive Spindle 12,000 RPM	○	○	○	○
Direct-Drive Spindle 15,000 RPM	○	○	○	○
Built-In Spindle 16,000-40,000 RPM	X	X	○	○
Spindle High-Pressure Water Outlet 20/50/70 BAR	○	○	○	○
Automation Interface	○	○	○	○
Tool Magazine Automatic Door	○	○	○	○
Three-Axis Linear Scale	○	○	○	○
Tool Breakage Detection	○	○	○	○
Cutting Fluid Thermostat	○	○	○	○
Workpiece Measurement System	○	○	○	○
Chip Conveyor	○	○	○	○
Special Material Chip Conveyor	○	○	○	○
Oil Mist Collector	○	○	○	○
Tool Presetter	○	○	○	○
Oil-Water Separator	○	○	○	○
Rotary Table (4th Axis Rotary Table)	○	○	○	○
Modified BT50 Spindle	X	X	X	X
Voltage Stabilizer	○	○	○	○

● Based on the principle of continuous innovation and refinement, our company reserves the right to change specifications without prior notice.

● Standard ○ Optiona X Not available

Content	CSV-1100A	CSV-1200A	CSV-1300A	CSV-1500A
10,000 RPM Belt-Driven Spindle	○	○	○	○
Front Spindle Ring Jet	●	●	●	●
Three-Axis Screw Pre-Stretching	●	●	●	●
Air Pressure Unit	●	●	●	●
Air Gun Unit	●	●	●	●
Water Gun Unit	●	●	●	●
Spindle Air Blow System	●	●	●	●
Spindle Oil Chiller	○	○	○	○
Three-Axis Telescopic Cover	●	●	●	●
Electrical Cabinet Air Conditioner	○	○	○	○
Automatic Tool Changer System	●	●	●	●
Automatic Lubrication System	●	●	●	●
Machine Interior Work Light	●	●	●	●
Three-Color Warning Light	●	●	●	●
Automatic Power-Off	●	●	●	●
Base Chip Flushing	○	○	○	○
Belt-Driven Spindle 12,000 RPM	○	○	○	○
Direct-Drive Spindle 10,000 RPM	○	○	○	○
Direct-Drive Spindle 12,000 RPM	○	○	○	○
Direct-Drive Spindle 15,000 RPM	○	○	○	○
Built-In Spindle 16,000-40,000 RPM	○	○	○	○
Spindle High-Pressure Water Outlet 20/50/70 BAR	○	○	○	○
Automation Interface	○	○	○	○
Tool Magazine Automatic Door	○	○	○	○
Three-Axis Linear Scale	○	○	○	○
Tool Breakage Detection	○	○	○	○
Cutting Fluid Thermostat	○	○	○	○
Workpiece Measurement System	○	○	○	○
Chip Conveyor	○	○	○	○
Special Material Chip Conveyor	○	○	○	○
Oil Mist Collector	○	○	○	○
Tool Presetter	○	○	○	○
Oil-Water Separator	○	○	○	○
Rotary Table (4th Axis Rotary Table)	○	○	○	○
Modified BT50 Spindle	○	●	●	●
Voltage Stabilizer	○	○	○	○

● Based on the principle of continuous innovation and refinement, our company reserves the right to change specifications without prior notice.

Industry-leading machine tools ensure machining precision



Okuma, Japan



Okuma, Japan



Okuma, Japan



Japan's OKUMA

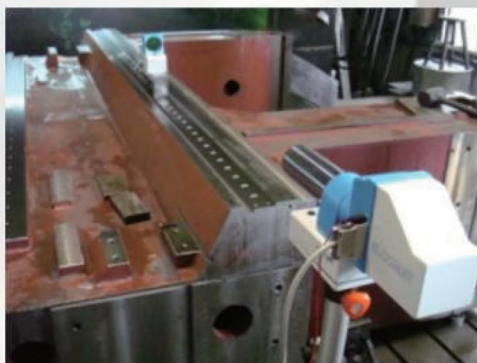


Spain's CORREA (Nicolas)

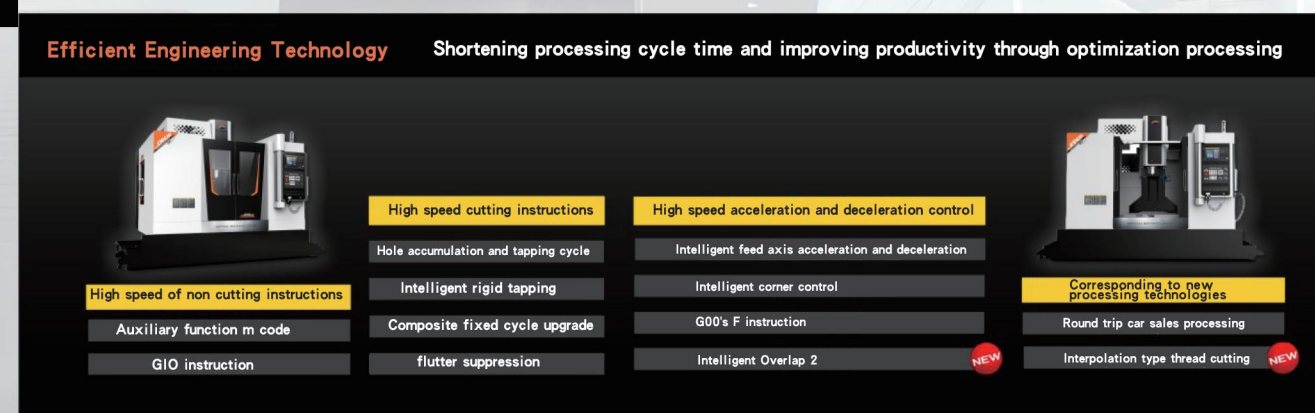
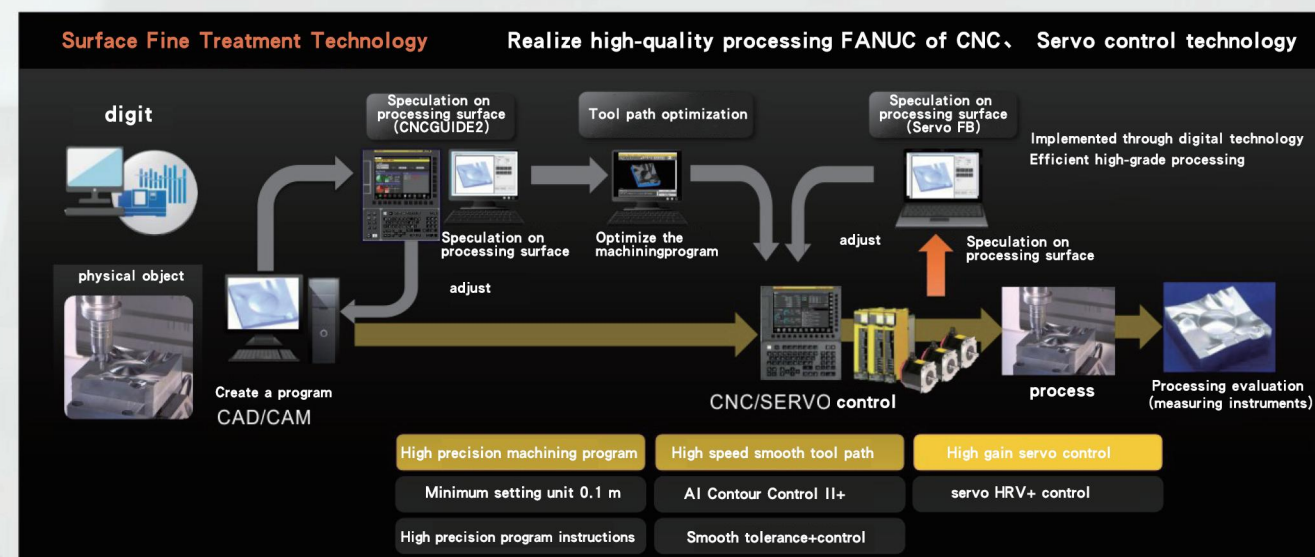


Spain's CORREA (Nicolas)

Precision measurement equipment and rigorous inspection processes ensure product quality



FANUC-3B System advantages



0i-FPlus STEP2 Product characteristics

- **Strengthen basic performance**
 - New CPU improves basic performance and enhances CNC performance
 - Approximately three times the processing power of small line segment programs
 - **Add system option function**
 - Enhanced lathe functions, standard configuration of handwheel retraction, dynamic graphics function, and standard energy-saving level selection function promote energy-saving design of machine tools
 - Added support for involute interpolation, cone/spiral interpolation, slow curve normal direction control, interpolation type thread turning, intelligent overlap, intelligent corner control and other functions
 - **Support customizing new fonts**
 - **Expand the number of control axes**
 - By using a dedicated PMC axis setting, it can support servo control for more peripheral devices, replacing the I/O Link axis function
 - The maximum number of servo motors that can be connected is 18
 - **Configure large program memory**
 - CNC standard program memory 8MB
 - Extended program memory supports a maximum of 4GB and up to 4000 login programs

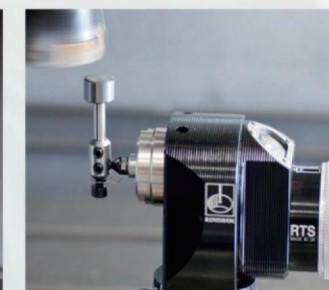
Partial optional configurations



Tool breakage detection



Workpiece measurement



Contact type tool setter



Laser tool setter



Axial grating ruler



Coolant constant temperature



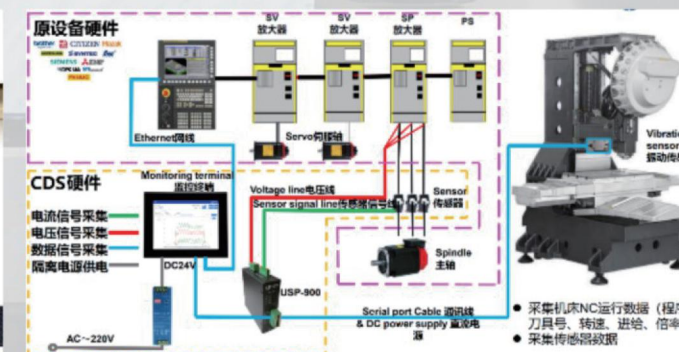
Oil mist collection



High pressure water outlet of spindle



Knife breakage detection in the knife magazine



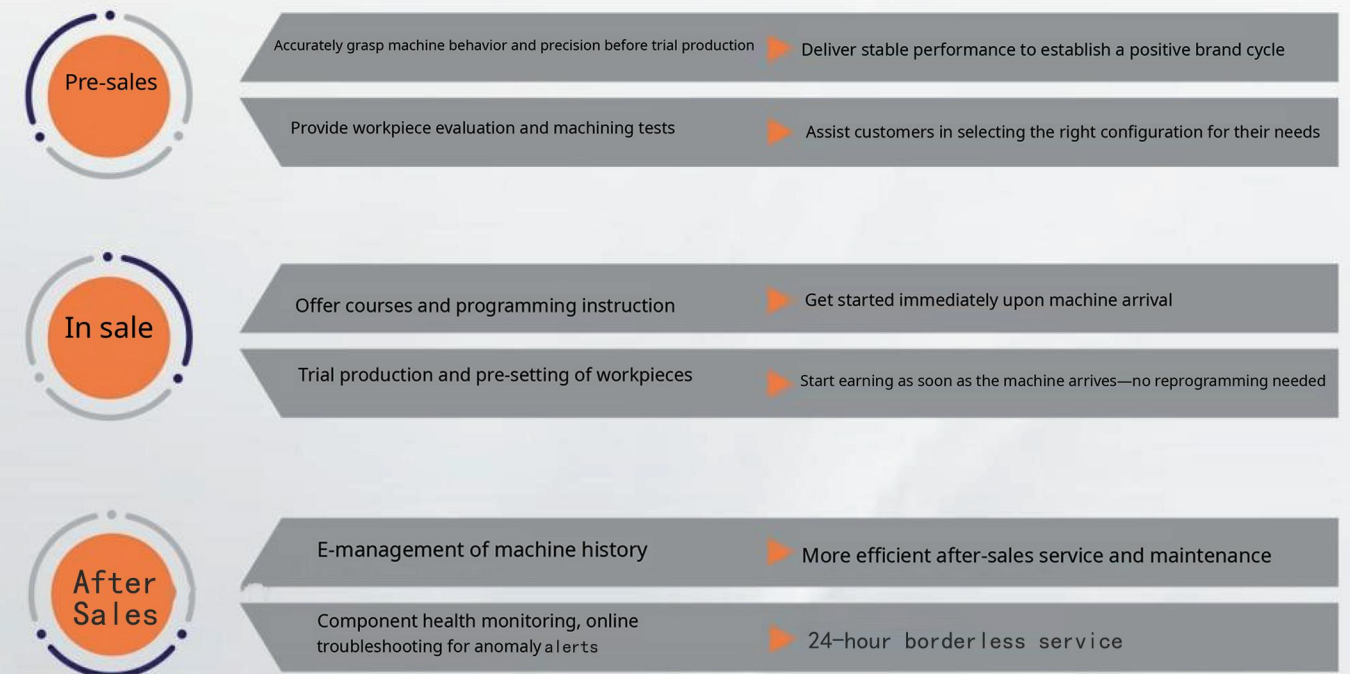
Tool breakage detection

Our services



Kaibo's machine tools deliver high-precision and highly stable cutting performance, with a wide range of applications suitable for aerospace, the 3C industry (computers, consumer electronics), optical components, automotive parts, and many other fields, meeting customers' diverse machining needs!

Our services



Selected partner companies

