



# Production Equipment List

## Marchton Automation Equipment Co., Ltd.

No.	Equipment Name	Equipment Model (Virtual)	Equipment Brand	Quantity (Unit/Set)	Processing Capacity	Purpose (Corresponding to Core Business)	Remarks
1	CNC Machining Center (Vertical)	VMC-850	Taiqun	8	Maximum machining size 850×500×500mm, accuracy ±0.005mm	CNC Machining: Milling, drilling, tapping and cavity machining of precision components, applicable to steel, aluminum, copper and other materials	Equipped with a 24-tool magazine, spindle speed 8000rpm
2	CNC Machining Center (Horizontal)	HMC-630	Doosan	5	Maximum machining size 630×630×600mm, accuracy ±0.003mm	CNC Machining: Multi-face machining of complex box-type components, improving machining accuracy and efficiency	Suitable for machining large precision components
3	CNC Lathe (Flat Bed)	CK6140	Shenyang Machine Tool	7	Maximum machining diameter 400mm, length 1000mm, accuracy ±0.002mm	CNC Turning: Turning of shaft, sleeve and disc components, including external circle, inner hole and thread machining	Spindle through hole 52mm, rotational speed 4000rpm
4	CNC Lathe (Slant Bed)	CK36D	Haas	4	Maximum machining diameter 360mm, length 500mm, accuracy ±0.001mm	CNC Turning: Machining of high-precision small shaft components and precision thread components with smooth chip evacuation	Equipped with a tailstock, suitable for precision turning
5	CNC Press Brake	WC67Y-160T/3200	Amada	2	Bending thickness 0.5-12mm, bending length 3200mm, bending angle ±0.5°	Sheet Metal Fabrication: Bending and forming of sheet metal components, applicable to stainless steel, iron plate and aluminum plate	Maximum bending thickness 12mm, length 3200mm
6	CNC Shearing Machine	QC12Y-6×3200	Trumpf	1	Shearing thickness 0.3-6mm, shearing length 3200mm, shearing accuracy ±0.1mm	Sheet Metal Fabrication: Cutting and blanking of sheet metal raw materials with precise dimension control	Maximum shearing thickness 6mm, length 3200mm

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7	CNC Punch Press	TP-300	Jinfangyuan (Golden Circle)	1	Maximum punching force 300kN, sheet thickness 0.5-5mm, positioning accuracy $\pm 0.02\text{mm}$	Sheet Metal Fabrication: Punching, blanking and forming of sheet metal components, applicable to various hole types	Programmable, suitable for batch machining
8	Laser Cutting Machine	G3015	Han's Laser	1	Cutting range 3000×1500mm, thickness 0.5-10mm, accuracy $\pm 0.05\text{mm}$	Sheet Metal Fabrication: High-precision sheet metal cutting and special-shaped component machining, applicable to multiple materials	Accuracy $\pm 0.05\text{mm}$ , cutting thickness 0.5-10mm
9	Ordinary Lathe	CA6140	Dalian Machine Tool	3	Maximum machining diameter 400mm, length 1000mm, accuracy $\pm 0.01\text{mm}$	Auxiliary CNC Turning: Rough machining and standby machining of simple shaft components	Used for rough turning to reduce production costs
10	Ordinary Milling Machine	X5032	Beijing Machine Tool	3	Worktable size 1250×320mm, machining accuracy $\pm 0.01\text{mm}$	Auxiliary CNC Machining: Rough milling of components and simple plane machining, cooperating with machining centers	Used for rough machining and auxiliary forming
11	Drilling Machine	Z5140	Xihu Machine Tool	2	Maximum drilling diameter 40mm, drilling accuracy $\pm 0.02\text{mm}$	General Auxiliary: Auxiliary drilling and tapping of small components and sheet metal components	1 desktop and 1 vertical type
12	Sheet Metal Welding Equipment	MZ-1000	Panasonic	2	Welding thickness 0.5-10mm, welding accuracy $\pm 0.1\text{mm}$ , applicable to various metals	Sheet Metal Fabrication: Welding and splicing of sheet metal components, applicable to multiple materials	Including argon arc welding and CO <sub>2</sub> gas shielded welding
13	Grinding and Polishing Equipment	MP-300	Dongcheng	3	Grinding accuracy $Ra \leq 0.8\mu\text{m}$ , suitable for surface treatment of components and sheet metal components	General: Grinding and polishing the surface of components and sheet metal components to remove burrs	2 manual and 1 semi-automatic units

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14	Precision Measuring Instrument (VMS Image Measuring Instrument)	VMS-3020	Zhantai	1	Measuring range 300×200×100mm, measuring accuracy ±0.001mm	General: Dimensional inspection of precision components and sheet metal components to ensure machining accuracy	Regularly calibrated, accuracy ±0.001mm
15	Height Gauge	TESA-Hite 400	TESA	1	Measuring range 0-400mm, resolution 0.0001mm, accuracy ±0.001mm	Auxiliary Inspection: Height and depth inspection of shaft and plane components	Resolution 0.0001mm
16	Measuring Tools (Caliper, Micrometer, etc.)	Standard Specifications	Mitutoyo	15 Sets	Measuring accuracy 0.001mm-0.01mm, suitable for on-site rapid inspection	General: On-site rapid inspection and auxiliary precision measurement	Including digital calipers, micrometers, etc.
17	Material Rack	Standard Type	Deli	5	Each layer load capacity 500kg, adjustable layers, suitable for storing various materials	General: Standard storage of raw materials, semi-finished products and finished products	Stored in separate areas, suitable for different materials
18	CNC System Control Cabinet	Matching Each Equipment	Siemens	12	Applicable to each CNC equipment, programming accuracy ±0.001mm, stable operation	Special for CNC Equipment: Controlling operation and programming adjustment parameters	Used in conjunction with CNC equipment

Description: All equipment is in normal operation. CNC equipment and precision measuring instruments are regularly calibrated, which are suitable for the three core machining businesses of the factory and meet the requirements of batch and customized production.