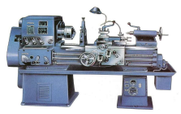
Shenzhen Misheng Technology Co., LTD ----(Equipment List)----

NO.	NAME	PICTure	Brand	Processing range	Precision	Surface	Quantity (set)	Advantage
1	Slow wire cutting		Sodick	570mm*370mm*300mm	±0.003	Ra=0.2μm~0.8μm	7	The advanced slow wire processing machine adopts the non-electrolysis-proof pulse power supply with zero average voltage, and the damage of electrolysis has been reduced to a low level. In addition, due to the improvement of pulse power supply, high peak value and narrow pulse width (microsecond level) are generally used, and most of the materials are thrown out of the gas phase, which takes away a lot of heat, the surface temperature of the workpiece cannot rise, and the phenomenon of cracking is greatly Reduce; not only high processing efficiency, but also greatly improve the surface quality. The use of electroless power supply for WEDM can control the surface metamorphic layer below 2μm. The wear resistance of the cutting edge of the carbide die is no different from that of grinding, or even better than mechanical grinding. More and more parts are processed by "replaced the grinding by cutting".
2	Medium wire cutting		DATIE	500mm*400mm*300mm	±0.006	Ra=0.8μm~1.2μm	16	"Medium wire cutting retains many excellent qualities of fast wire cutting, such as simple structure, relatively low cost, excellent process effect, less loss in use, etc. More importantly, it integrates the world-renowned precision mold processing device The excellent concept of the machine tool is integrated into practice, combined with the technology that the slow wire cutting can be cut stably for many times, especially the machine tool hardware is upgraded and updated, so as to improve the precision of the machine tool and enhance the stability of the machine tool. Compared with the fast wire cutting, this machine is more humanized, more convenient, and more widely applicable."
3	Fast wire cutting		DATIE	400mm*450mm*400mm	±0.007	Ra=1.2μm~3.2μm	20	Fast wire cutting has the advantage of being cheap and high quality. General and ordinary processing requirements are still very large. In addition to high-precision mold mechanical parts, such as general large-scale mine machinery parts, the requirements are not very high; but other processing methods cannot be used. Inexpensive fast wire cutting has become the first choice. The structure of the machine bed of the fast wire has been done for decades, and it has actually been very stable. Of course, the shoddy behavior of individual bad manufacturers has caused a misunderstanding to our customers: they think that the fast wire machine is the representative of the mess! In fact, that's not the case at all! In terms of the same fast walking wire bed structure. For example, the beds of Baoma and Ruijun are similar to fast walking wire, but as long as every detail is perfected, a very good machine can still be produced.
4	CNC MILLING MACHINE		Taikan/Fanuc	800mm*400mm*300mm	±0.005	Ra=0.8μm~1.2μm	50	1. Strong adaptability Because the CNC milling machine can realize the linkage of multiple coordinates,the CNC milling machine can complete the processing of complex surfaces, especially for parts with complex shapes that can be represented by mathematical equations and coordinate points, the processing is very convenient. When changing the machined parts, the CNC milling machine only needs to replace the NC program for the machining of the parts, without using cams... 2. Stable processing quality For the same batch of parts, because the same machine tool and tool and the same processing program are used, the movement trajectory of the tool is exactly the same, and the CNC milling machine is automatically processed according to the CNC program, which can avoid human errors, which guarantees the parts consistent processing and consistent quality. 3. 3. High production efficiency A larger cutting amount can be used on the CNC milling machine, which effectively saves time. There are also functions such as automatic speed change and other auxiliary operation automation, which greatly shorten the auxiliary time, and do not require inspection and measurement between processes. Therefore, the productivity of CNC milling machines is 3-4 times higher than that of ordinary milling machines, or even higher.
5	CNC TURNING MACHINE		Taikan/Fanuc	800mm*400mm*300mm	±0.003	Ra=0.8μm~1.2μm	30	1) Shorten the product manufacturing process chain and improve production efficiency. A variety of special tools can be installed, and the new tool arrangement can reduce tool change time and improve processing efficiency. CNC machine tools can complete all or most of the processing procedures in one clamping, thus greatly shortening the product manufacturing process chain. In this way, on the one hand, the production auxiliary time caused by the change of the loading card is reduced, and at the same time, the manufacturing cycle and waiting time of the tooling and fixture are also reduced, which can significantly improve the production efficiency. 2) Reduce the number of clamping and improve the machining accuracy. The reduction in the number of card loadings avoids the accumulation of errors due to positioning fiducial conversions. At the same time, most CNC machine tools have the function of online detection, which can realize the in-situ detection and precision control of key data in the manufacturing process, thereby improving the machining accuracy of the product; the high-strength integrated bed design improves the gravity machining of difficult-to-cut materials. The machine tool is equipped with an automatic feeding device, which can realize automatic feeding and continuous feeding, and basically realize the assembly line operation of a single machine tool. 3) Reduce the floor space and reduce the production cost. The compact and beautiful shape design improves the space utilization and makes maintenance and repairs more convenient, making customers greatly satisfied; although the price of a single CNC machine tool turning and milling compound processing equipment is relatively high, due to the shortening of the manufacturing process chain and the equipment required for the product The reduction of the number of fixtures, workshop area and equipment maintenance costs can effectively reduce the overall fixed asset investment, production operation and management costs.

6	Turning lathe		JOEN LIH	φ420mm*1200mm	±0.01	Ra=0.8μm~1.2μm	4	1. Large torque at low frequency, stable and reliable output. 2. Flexible application of high-performance vector control. 3. The torque dynamic response is fast and the speed stabilization accuracy is high. 4. The speed of deceleration and parking is fast, the anti-interference ability is strong, and the response is sensitive.
7	Milling lathe		FASS	900mm*400mm*300mm	±0.02	Ra=0.8μm~1.2μm	10	1. Less friction during machining and longer life of milling cutter. 2. Easy clamping, no vibration, and high precision of the machined surface. 3. Easy to make and set, suitable for long and thin workpieces. 4. Less power consumption.
8	4-AXIS CNC MACHINE		MAG/MAKINO	φ630mm*900mm	±0.005	Ra=0.8μm~1.2μm	5	1. Improve production efficiency: 4-axis CNC engraving machines can be programmed to reduce human interference in specific manufacturing processes. This helps reduce production time, thus ensuring increased productivity. 2. Simplify work: The process that operators perform manually with traditional machines takes a lot of time and effort. These processes can be programmed using a 4-axis CNC engraving machine, simplifying the operator's job. 3. High precision: The 4-axis CNC engraving machine can consistently produce precision workpieces. After confirming the programming control, the 4-axis CNC engraving machine can produce thousands of pieces in a short time. 4. Flexible machining: Since the process is programmed, the 4-axis CNC engraving machine is flexible. You can run a key program for a fragment, save it, and call it again when you need to clone the fragment. 5. Easy to set up: The 4-axis CNC engraving machine is easy to set up and easy to operate, which helps you save time and allows you to efficiently complete tasks on time.
9	5-AXIS CNC MACHINE		MAG/MAKINO	φ630mm*500mm	±0.005	Ra=0.8μm~1.2μm	2	1. It is suitable for processing complex special-shaped parts. The five-axis machining center can realize the processing of complex parts that are difficult to achieve or basically unmachinable by general machining centers, so it is widely used in aerospace, shipbuilding, mold and other processing industries. 2. High precision machining. The five-axis machining center completes the inspection by dimensional analysis of the material through five-axis positioning, so the accuracy of the five-axis vertical machining center is higher than that of the ordinary machining center. 3. The processing is firm and firm. Master the computer, eliminate human error, the parts have good processing consistency and firm quality. 4. High flexibility. When dealing with object conversion, it is generally only necessary to change the numerical control sequence, which shows good adaptability and can save a lot of time for production. Based on the five-axis machining center, an automated production system with high flexibility can be formed. 5. Efficient. The five-axis machining center has high machining accuracy. The rigidity of the bed is large, and the processing volume can be automatically selected. The five-axis machining center has high productivity, which is generally 3 to 5 times that of the ordinary machining center. It can cope with the processing of some complex parts and can improve by more than ten times or even dozens of times. 6. Good production conditions. The machine has a high degree of automation, the operator's work intensity is greatly reduced, and the working environment is better. 7. Conducive to management. The use of five-axis machining centers is conducive to the mastery and management of production, and creates conditions for the automation of the production process.
10	Grinding Machine		JOEN LIH	1000mm*500mm*300mm	±0.003	Ra=0.2μm~0.8μm	12	1. The machining parts have high precision and stable quality. The positioning accuracy and repeated positioning accuracy of the surface grinder are very high. It is easier to ensure the consistency of the size of a batch of parts. As long as the process design and procedures are correct and reasonable, and careful operation, the parts can be guaranteed. To obtain higher machining accuracy, it is also convenient to implement quality control of the machining process. 2. The degree of automation is high, which can reduce the operator's physical labor intensity. The grinding machine processing process is automatically completed according to the input program. The operator only needs to start the tool setting, the EDM machine to load and unload the workpiece, and to replace the tool. During the processing process, Mainly observe and supervise the operation of the machine tool. 3. Dimensions should conform to the characteristics of grinding machine processing. In CNC programming, the dimensions and positions of all points, lines and surfaces are based on the programming origin. Therefore, the coordinate dimensions are directly given on the part drawing, or the dimensions are quoted on the same datum as far as possible. 4. Unified geometry type or size The shape and inner cavity of the parts adopt a unified geometry type or size, which can reduce the number of tool changes, and may also apply control programs or programs to shorten the program length. The shape of the part is as symmetrical as possible to facilitate programming with the mirror machining function of the surface grinder to save programming time.