



Taikan

High-end intelligent equipment
integrated solutions service provider



TAIKAN WECHAT

SHENZHEN CREATE CENTURY MACHINERY CO.,LTD

Address: No. 508, Donghuan Road, Shajing Street, Baoan District, Shenzhen, Guangdong, China

Tel:86-755-2725 5633/733/833

Fax:86-755-2725 5933 E-mail: King.luo@szccm.com; sales1@szccm.com;

Website:www.szccm.com, English website:www.taikanmachine.com

SHENZHEN CREATE CENTURY MACHINERY CO.,LTD.

Company culture

Company mission

To provide precision equipment and quality services to the world and to achieve the customer dreams.

Company vision

Become an excellent brand of mechanical equipment, to make work and life more beautiful

Core values

- Customer first
- Technological innovation
- Honesty and integrity
- Hard working
- Sense of responsibility
- win-win cooperation

General principles of HR

- Let the employees who have the desire to obtain job opportunities
- Let the employees who have the desire and ability to obtain development opportunities
- Let the employees who have the desire and ability and also performance to obtain higher value

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Company Profile

Shenzhen Create Century Machinery CO., LTD(Taikon Precision Machine) was founded in 2005, is one of the national high-tech enterprises of high end intelligent equipment of integrated technical R&D manufacturing, sales and services. We have both Taikan and Yuken two big brands, the products of CNC machine are complete, including High-speed tapping center seri, Hard rail/Line rail vertical machining center series, Gantry machining center series, High-speed engraving and milling machine series, Specular machine, Glass processing machine and other series of precision machining equipment. In China, Taikan has become the leading domestic high-end intelligent equipment manufacturing enterprises after these years of development.



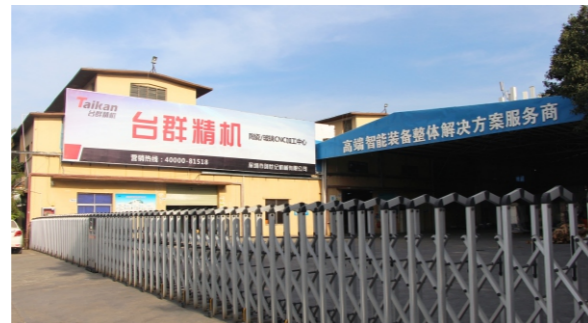
Our headquarter locates in Baoan district, Shenzhen city, with three modern manufacturing bases, with 100000 square meters plant area and more than 1800 workers. The monthly production output reached more than 2000 units. As a national high-tech enterprise, the company has a high-quality professional R & D team, won 200 core technology patents and the product has a complete independent intellectual property rights, award as "the Guangdong famous brand", "Shenzhen high-tech enterprise", "National high-tech enterprise", "Permanent Member Enterprise of Shenzhen Machinery Industry Association", "National key equipment manufacturing industry enterprises in 12th Five-Year", "Deloitte high-tech high growth China Top 50" and other honorary titles, and also passed the certificate of ISO9001 international quality management system and ISO14001 environmental management system.

At present, the company's sales and service network spreads the country, with professional after-sales service centers in Beijing, Tianjin, Shandong, Henan, Anhui, Sichuan, Hubei, Hunan, Jiangsu, Zhejiang, Shanghai, Fujian, Guangdong, Guangxi and other places set offices, to provide customers with comprehensive, convenient and efficient after-sales support.

Looking to the future, we will carry forward the "we always try our best to do better" spirit of enterprise culture. Always adhere to the market and user demand oriented, based on the perfect management system and quality assurance system, continue to provide high-efficiency and high-quality professional services for all the users of metal cutting and glass processing.



Nanpu production base



Hongxiang production base

Honors of Qualification



- Guangdong Province famous trademark
- National high-tech enterprise
- Shenzhen high-tech enterprise
- Shenzhen love enterprise
- China machine tool association member
- Shenzhen machinery association executive director
- 2015 Deloitte technology high growth of China's top 50
- Shenzhen intelligent networking technology and application of association member
- China machinery industry association name, excellent, new mechanical and electrical products list
- Bao'an district of Shenzhen Robot Industrial Technology Innovation Alliance governing enterprise
- ISO9001:2008 quality management system certification
- ISO14001 Environmental management system certification
- All kinds of core technology patents more than 200





R&D advantages

As a national high-tech enterprise, our company always takes technical innovation, product upgrading, technology improvement as key development targets. Put large funds to support R&D, and cooperate with national famous universities and research institutes. Obtain significant scientific and technological achievements and got more than 100 technology patents. All the products pass the certification of ISO9001, ISO14000 quality and environment system and process independent intellectual property rights. Currently, we have technical consultants consist of authoritative industry experts from China, Taiwan, Korea, Malaysia , and industry leading Hundreds of R&D team establish strong foundation for company's long-term development.

Casting technology for CNC machine bed

Make the machine maintain the geometric accuracy, movement precision and positioning accuracy in long-term by specially designed machine casting structure. Based on finite element analysis and modal analysis, through multiple optimizations, we designed high rigidity and superior vibration resistance machine structure. Applying symmetrical and heat balance design to improve the machine deformation, so as to make higher precision.

Intelligent control technology

Taikan improves the precision and thermal deformation compensation function by intelligent technology, adaptive control, and temperature compensation during machining. We achieve the control of high speed and high precision through monitoring, analyzing and optimizing the process, tool path and machine parameters.

AI tool life management technology

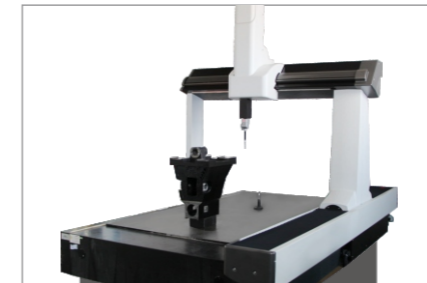
In the process of cutting the tool life management is very important. Taikan developed a tool life management combining Mitsubishi and Fanuc control system, including tool cutting time automatic statistics, display, and alarm, and upload these related data to the server. Take use of the tool life management to monitor the tool usage, and status, and launch the backup tool when the usage status reached the setting value, so as to prevent tool broken or other issue.

ATC tool change speed up technology

ATC uses the servo control technology of absolute value motor, make the tool change faster and more accuracy; T-T can reach 0.8s.

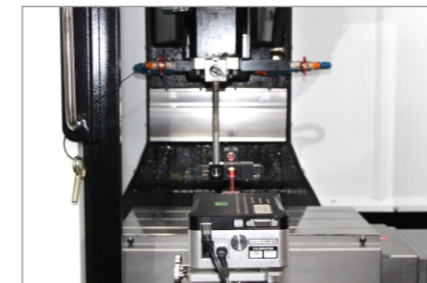
Stick to best quality and never compromise

Inspect the products based on the strictest quality inspection standard



Precision test for machining parts

100% 3D measurement test,
Important components include: head, spindle, automatic tool change system and so on.
100% laser inspection before shipment;
100% cycle inspection before shipment.



Well-known brand laser positioning test

Use well-known RENISHAW laser interferometer to detect the positioning accuracy and repeatability, and make the best geometric precision correction.

Our quality department uses well-known circular instrument to inspect the error and servo matching of two mutually perpendicular, and then use the parameter to adjust and achieve the best results.



Dynamic balance correction of spindle and spindle motor

The geometric accuracy of the machine has been thoroughly tested to ensure the highest accuracy. The inspection standards are the highest standards of JIS and VDI. The inspection items contain each axis straightness, verticalness, parallelism, flatness and so on,

Ball-bar to inspect the circular degree and verticalness

Before shipment, we make the cutting test for each machine, including appropriate parameter adjustment, to guarantee the best machining quality. In order to ensure the perfect quality inspection, we pay high attention to every step and detail, only qualified components can be used on the production line. From production to delivery, each step is strictly inspected by measuring mechanism, which uses high-tech laser system and advanced inspection instrument to detect again and again.

We never ignore one step, in order to provide a high quality equipment, we audit internally and make the strictest inspection.



Production Workshop

At present, the company has three modern production bases, with plant area of more than 100000 square meters, and monthly production of CNC machines more than 2000 sets, supporting world-class testing equipment, manufacturing capacity in the leading position of machinery industry.



The production workshop of drilling and tapping machine



The production workshop of parts processing machine



The production workshop of glass engraving machine



The production workshop of hard rail machine



The production workshop of line rail machine



The production workshop of integrated machine



The production workshop of bare machine



The production workshop of bare machine



The production workshop of gantry machining center

Marketing Network



At present, the company's sales and service network spreads both at home and abroad, with professional after-sales service centers in Southeast Asia(Vietnam, Malaysia, Thailand, India, Indonesia), Middle East(Arab, Iran, Turkey, Pakistan), South America(Argentina, Brazil, Peru, Chile, Mexico), Eastern Europe(Russia, Germany, Italy), Africa(South Africa, Egypt) and Australia. To provide customers with comprehensive, convenient and efficient after-sales support.





High-speed drilling and tapping machine series

Suitable for the production of various shapes of complex two, three-dimensional concave and convex model with complicated cavity and surface, the three axes high speed movement can reach 60m/min, the speed is fast, and the processing time is greatly saved, can be applied to the mass parts processing, especially for the 3C industry

Items Description	Unit	T-500	T-500H	T-500B	T-500C	T-530	T-600	T-700	T-1000	T-1300
Working table size	mm	620×400	620×400	620×400	620×400	620×320	700×400	800×400	1100×510	1400×510
Travel	X axis	mm	500	500	500	500	600	700	1050	1300
	Y axis	mm	400	400	400	400	390	400	500	500
	Z axis	mm	320	320	300	300	300	320	320	320
Spindle speed	rpm	50-20000	50-24000	50-20000	50-24000	50-20000	50-20000	50-20000	50-20000	50-20000
Spindle taper	#	BT-30	BT-30	BT-30	BT-30	BT-30	BT-30	BT-30	BT-30	BT-30
Spindle power	kw	5.5	3.7	5.5	7.5	5.5	5.5	5.5	5.5	5.5
X/Y/Z axis traverse rate	m/min	60/60/60	60/60/60	48/48/48	48/48/48	48/48/48	60/60/60	60/60/60	48/48/36	48/48/36
Max load	kg	250	250	250	250	250	250	250	300	250

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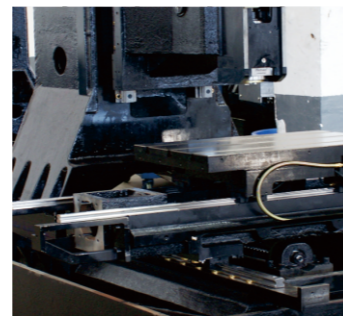
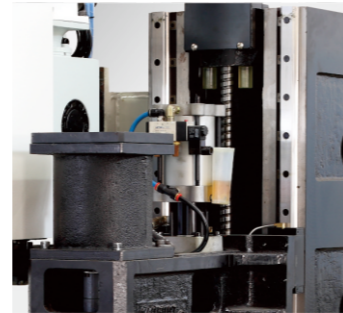
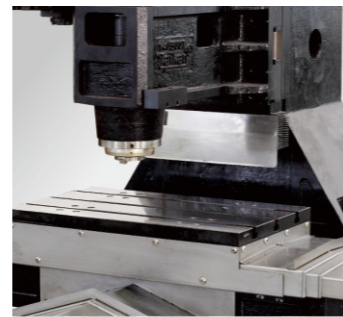
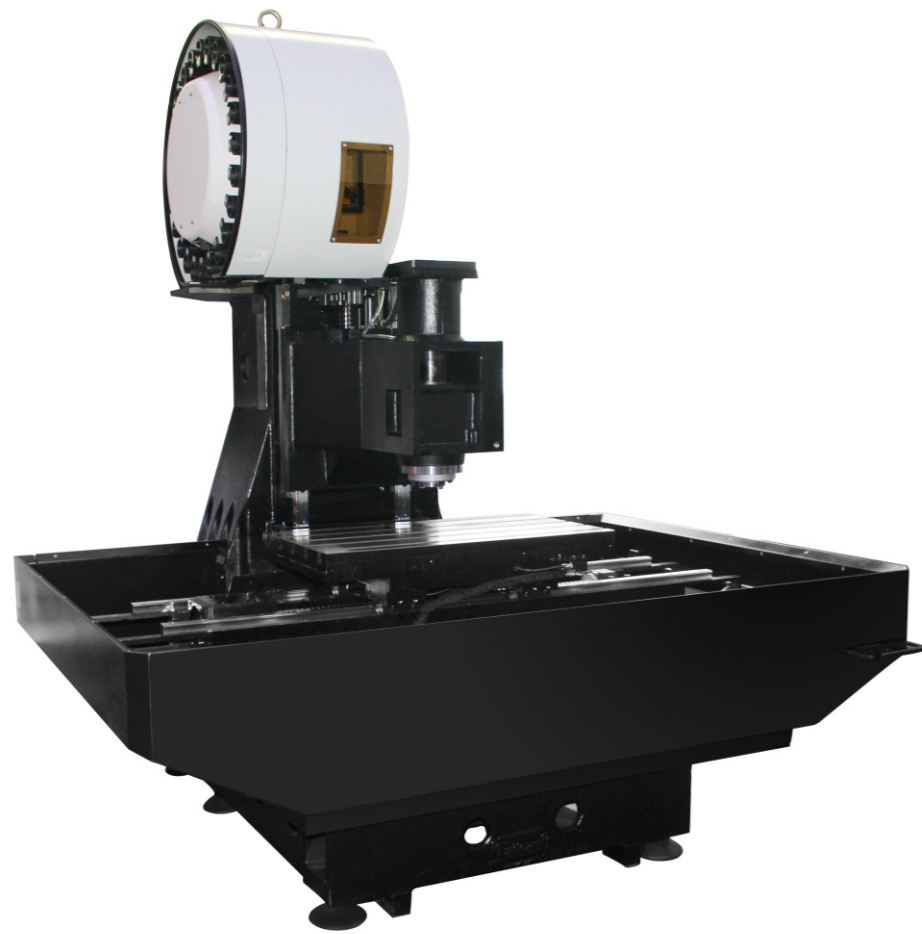


Parts and products processing center series

Big stable column, high-speed movement without vibration, no deformation, fast feed up to 48 m/min. Z axis adopts brake servo motor, non-counterweight design, to enhance Z axis drive performance and achieve the best surface precision in 3D processing. The three axes adopt ball linear rail, with high rigidity, low noise, low friction, to get the best cycle precision. And uses back chip removal to save the space well.

Items Description	Unit	T-V856	
Working table size	mm	900×500	
Travel	X axis	mm	800
	Y axis	mm	500
	Z axis	mm	600
Spindle speed	rpm	50-10000	
Spindle taper	#	BT-40	
Spindle power	kw	7.5	
X/Y/Z axis traverse rate	m/min	48/48/48	
Max load	kg	450	
x axis ball screw specification		Yintai/R40-16T4-FDDC-1078-1271-0.008	
y axis ball screw specification		Yintai/R40-16T4-FDDC-783-971-0.008	
z axis ball screw specification		Yintai/R40-16T4-FDDC-833-1031-0.008	
x axis line rail specification		MSA35E2SS F0A+R1740-30/30PII	
y axis line rail specification		MSA45E2SS F0A+R1100-25/25PII	
z axis line rail specification		MSA45E2SS F0A+R1310-25/25PII	

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- X/Y/Z axes adopt the high precise linear slide rail, to ensure the positioning accuracy when the machine move at high speed.
- The machine bed, spindle and other key parts are made of meehanite, with proven good stability per 3D dynamic element analysis, to acquire reliable precision in process of high-speed cutting.
- Three axes ball screws use Taiwan C3 precision ball screw, the ball screw motor and bearing adopt imported P4-class high-speed bearing, all three axes ball screw perform pre-tension, to get stable performance and improve the efficiency of axial power transmission;
- With ultra-wide base, extended saddle and solid cross-bar design to keep stable and load capacity during high-speed movement.
- Direct spindle, linked with rigid coupling driven by Mitsubishi or Fanuc motor, it effectively avoid lateral stress and noise caused by belt connection, as well as the accuracy deviation generated in gear wear. Its maximum rotational speed can be up to 15000RPM, which is suitable for light cutting and medium& heavy cutting, so as to guarantee high efficiency and precision in processing.
- Built-in spindle can eliminate the thermal stress well.
- Adopts European P-class axes, ball bearing linear rail, affordable load, support quick movement and ensure positioning precision.
- Ball screws are equipped with supporting mechanism, which improves the efficiency of axial power transmission.

Parts and products processing center series

Big stable column, high-speed movement without vibration, no deformation, fast feed up to 48 m/min. Z axis adopts brake servo motor, non-counterweight design, to enhance Z axis drive performance and achieve the best surface precision in 3D processing. The three axes adopt ball linear rail, with high rigidity, low noise, low friction, to get the best cycle precision. And uses back chip removal to save the space well.

Items Description	Unit	T-V6	T-V6 (30000rpm electric spindle)	T-V6H
Working table size	mm	700×400	700×400	700×400
Travel	X axis	600	600	600
	Y axis	390	390	390
	Z axis	450	450	450
Spindle speed	rpm	50-12000	500-30000	50-30000
Spindle taper	#	BT-40	BT-30	BT-30
Spindle power	kw	5.5	5.5	5.5
X/Y/Z axis traverse rate	m/min	48/48/48	48/48/48	48/48/48
Max load	kg	300	300	300
x axis ball screw specification		Yintai/R25-16T4-FSDC-843-1061-0.008	NSK /W2506C-75PSS-C5Z16	NSK /W2506C-75PSS-C5Z16
y axis ball screw specification		Yintai/R25-16T3-FSDC-573-791-0.008	NSK /W2507C-22PSS-C5Z16	NSK /W2507C-22PSS-C5Z16
z axis ball screw specification		Yintai/R32-16T4-FSDC-669-910-0.008	NSK /W3207C-67PSS-C5Z16	NSK /W3207C-67PSS-C5Z16
x axis line rail specification		MSA25E2SSF0A+R1360-20/20PII	THK/HSR25B2SSCOE+1360LP-II	THK/HSR25B2SSCOE+1360LP-II
y axis line rail specification		MSA30E2SSF0A+R920-20/20PII	THK/HSR30B2SSCOE+920LP-II	THK/HSR30B2SSCOE+920LP-II
z axis line rail specification		MSA35E2SSF0A+R1000-20/20PII	THK/HSR35B2SSCOE+1000LP-II	THK/HSR35B2SSCOE+1000LP-II

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CNC Machining center series-X &Y Linear guide, Z Box way

Combine hard rail and line rail advantage, both X/Y axis adopt line rail, rapid speed, small rolling friction resistance, convenient lubrication, long-term stability, is suitable for the small scrap rate requirement, fast speed auto parts machining, mechanical processing, mold manufacturing, and other fields.

The Z axis uses hard rail, turning and cutting force is bigger during machining (cast iron, cast copper), can effectively avoid lathe bed vibration, not only guarantee the machining efficiency, also ensure the machining accuracy. Generally speaking, it can apply on automated processing of medium and small parts which required high precision and high efficiency.

Items Description	Unit	T-8L	T-10L	T-11L	T-12L
Working table size	mm	1000×500	1300×600	1200×600	1360×700
Travel	X axis	mm	800	1000	1100
	Y axis	mm	500	600	550
	Z axis	mm	500	600	550
Spindle speed	rpm	50-8000	50-8000	50-8000	50-8000
Spindle taper	#	BT-40	BT-40	BT-40	BT-50
Spindle power	kw	11	11	11	15
X/Y/Z axis traverse rate	m/min	24/24/16	24/24/16	20/20/16	20/20/12
Max load	kg	450	800	800	1000
x/y/z axis ball screw specification		4012	4012	/	5010
x axis line rail specification		MSA35LA	MSA45LA	/	MSA55LS
y axis line rail specification		MSA45LA	MSA55LA	/	MSA45LS (four rail)
z axis line rail specification		Slide guide	Slide guide	/	Slide guide

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CNC Machining center series-Box way

The machine is made with high quality metal casting, plating Turcite B on 3 axes slide to prevent friction, ensure the guide move rapidly and slide wear little. All slides adopt automatic super lubrication. It's driven by high torque, low noise, and high stability of the AC CNC servo motor, providing variable speed for different materials. Combine strong cutting ability, excellent accuracy and performance to make the milling and boring simple and feasible. Three axes adopt C3 high precision ball screw, and integrate the double nut design, suitable for precision machining. (X, Y, Z axis are hard rail)

Items Description	Unit	T-8	T-10	T-11	T-12
Working table size	mm	1050×500	1300×600	1200×580	1360×700
Travel	X axis	mm	800	1000	1100
	Y axis	mm	500	600	550
	Z axis	mm	500	600	600
Spindle speed	rpm	50-8000	50-8000	50-8000	50-6000
Spindle taper	#	BT-40	BT-40	BT-40	BT-50
Spindle power	kw	11	11	11	15
X/Y/Z axis traverse rate	m/min	16/16/16	16/16/16	16/16/16	12/12/12
Max load	kg	600	800	800	1000
x/y/z axis ball screw specification		4012	4012	/	5010

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CNC Machining center series-Box way

Main parts adopt high-class Meehanite (FC - 30) which owns stable character, ensure the long-term accuracy and lifetime. Column is variable layer structure, greatly enhance mechanical rigidity. All of slide surface are precision grinding, and plate with Turcite - B wear-resisting pieces. Z axis counter weight and column adopt guide design, it's to prevent the z-axis fast moving configuration and column collision; three axes use precision ball screw, directly drive by servo motor, back deviation is smaller. (X, Y, Z axis are hard rail)

Items Description	Unit	T-13	T-15	T-16	T-18	
Working table size	mm	1400×710	1700×800	1800×900	2000×900	
Travel	X axis	mm	1300	1500	1600	1800
	Y axis	mm	700	800	900	900
	Z axis	mm	650	700	680	680
Spindle speed	rpm	50-6000	50-6000	50-6000	50-6000	
Spindle taper	#	BT-50	BT-50	BT-50	BT-50	
Spindle power	kw	15	18.5	18.5	22	
X/Y/Z axis traverse rate	m/min	12/12/12	12/12/12	12/12/12	12/12/12	
Max load	kg	1000	1500	1600	1600	
x/y/z axis ball screw specification		5010/5010/5010	6310/6310/5010	5508/5508/5508	5512/5512/5512	

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Gear head machining center series

Equip with gear transmission. Forced cooling spindle and bearings are to restrain the spindle thermal stretching. Two sections of automatic transmission gear box in low and high grade, high precision grinding gear, low-grade is suitable for large torsion heavy cutting, high-grade suitable for high speed finish machining. (X, Y, Z axis are hard rail)

Items Description	Unit	T-11G	T-12G	T-13G	T-16G	T-18G	
Working table size	mm	1200×625	1360×700	1400×710	1800×900	2000×900	
Travel	X axis	mm	1100	1200	1300	1600	1800
	Y axis	mm	650	700	700	900	900
	Z axis	mm	650	600	650	680	680
T slot (number*width*distance)	mm	6-18×100	5-18×152.5	5-18×152.5	5-22×165	5-22×165	
Distance from spindle nose to working table	mm	120-750	150-750	150-800	160-840	160-840	
Distance from spindle center to body surface	mm	710	785	785	950	950	
Spindle speed	rpm	50-6000	50-6000	50-6000	50-6000	50-6000	
Spindle taper	#	BT-40/BT-50	BT-50	BT-50	BT-50	BT-50	
Spindle power	kw	11	15	15	18.5	22	
X axis rapid traverse rate	m/min	12	12	12	12	12	
Y axis rapid traverse rate	m/min	12	12	12	12	12	
Z axis rapid traverse rate	m/min	12	12	12	12	12	
Cutting speed	mm/min	1-10000	1-10000	1-10000	1-10000	1-10000	
Three axis motor power (X, Y, Z)	kw	3.0/3.0/3.0	3.0/3.0/3.0	3.0/3.0/3.0	4.5/7.0/4.5	4.5/7.0/4.5	
Maximum tool weight	kg	8	8	15	15	15	
Tool length	mm	300	300	300	300	300	
Max diameter (Full knife / adjacent empty knife)	mm	75/150	75/150	110/180	110/180	110/180	
Tank capacity	L	350	350	350	350	400	
Air pressure demand	kg/m3	6	6	6	6	6	
Total power consumption	kva	20	25	30	35	35	
Positioning accuracy	mm	0.008	0.012	0.012	0.012	0.012	
Repeatability accuracy	mm	0.005	0.006	0.006	0.008	0.008	
Max load	kg	800	1000	1000	1600	1600	
Machine weight (estimated)	kg	7800	8000	12800	16000	16800	
Outline dimensions (length * width * height)	mm	3280×2940×2850	3590×2960×2900	4000×3000×3450	4370×3200×3500	4850×3500×3500	
Spindle speed ratio	#	1:1/4:1	1:1/4:1	1:1/4:1	1:1/4:1	1:1/4:1	

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CNC high speed engraving & milling machine

This machine is gantry structure, made by senior Meehanite, internal reinforcement keel frame, all are cast iron after annealing treatment, high stability and non-deformation. The weight is heavier than same models from other companies. Sealing cover and double doors are convenient for product processing. The machine is equipped with special high speed engraving control system developed by Taikan.

Main parts are imported from Japan, Switzerland, Germany, Taiwan, such as: servo motor, rail line, coupling, screw assembly, to strengthen the high precision and high efficiency. It can process different materials: steel, copper, aluminum, graphite, organic glass, etc. Spindle can cool down automatically during working, so as to make sure the heat not damage the spindle features. 100% measured precision ball screw and linear guide rail, coupling, to ensure the stability in the process of machining and zero gap for returning.

According to customer's demand, the model can be equipped with additional tool magazine, to improve the production efficiency.

Items Description		Unit	C-650	C-760	C-870
Travel	X axis	mm	635	600	739
	Y axis	mm	500	750	790
	Z axis	mm	240	320	310
Working table size	mm	500X600	600X800	800X700	
Max table load	kg	350	400	400	
Distance from working table to spindle	mm	80-320	150-470	140-450	
Spindle speed	rpm	2000-24000	2000-24000	2000-24000/OPT18000	
Spindle taper	#	ER25	ER25	BT30	
Spindle locking mode		Manual operation/Pneumatic	Manual operation/Pneumatic	Pneumatic	
Spindle cooling	#	Oil cooling	Oil cooling	Oil cooling	
X,Y,Z spindle servo motor	Kw	0.85/0.85/0.85	0.85/0.85/0.85	1.3/1.3/1.3	
Spindle motor	Kw	5.5	5.5	5.5/OPT7.5	
Rapid feed	m/min	10	10	10	
Cutting feed	m/min	7.5	7.5	7.5	
CNC system resolution	mm	0.001	0.001	0.001	
Positioning accuracy	mm	0.005	0.005	0.005	
Repeat positioning accuracy	mm	0.003	0.003	0.003	
Tool detection	#	Standard	Standard	Standard	
Lubrication system	#	Automatic lubrication system	Automatic lubrication system	Automatic lubrication system	
Machine weight(estimated)	kg	3100	3400	3500	
Outline dimensions(length*width*height)	mm	2080X1840X2320	2300X2100X2400	2460X1850X2500	

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High speed machining center series

Casting structure with large span box and Y" shape column design, to ensure the machine durable without deformation, shaking-resistance during mechanical processing, guarantee the stability of machining. The humanized interface is easier for operation.

Items Description		Unit	T-8HL
Working table size		mm	900×500
Travel	X axis	mm	800
	Y axis	mm	500
	Z axis	mm	580
Spindle speed	rpm		50-15000
Spindle taper	#		BT-40
Spindle power	kw		7.5
X/Y/Z axis reverse rate	m/min		36/36/36
Max load	kg		450

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Double column machine series

Gantry machine series are widely used in aerospace, automobile, precise mould and parts processing industry, provide high reliability of the mechanical system and software interface with diversity, selectivity and easy operating, thoroughly make high-precision dream comes true.(X, Y axis are hard rail, Z axis is line rail)

Large columns and beams supporting box structure ensure the best of rigidity. The beams adopt hatchback design, the dilated sliding wide the stress surface, the gravity of head center is close to center of the beam, all these is to achieve better precision of movement and ultra strong cutting ability of heavy chips.

The overall structure highlights the unique high stability, professional design of center symmetric spindle system. Equip the exact configuration of the spindle, spindle motor, ball screw and variable heavy oil pressure cylinder position, to avoid unbalance torque generated deflection temperature, so as to maintain best accuracy. Z axis variable heavy oil cylinder uses suspension support, close to the moving center of gravity position, is symmetric to the center of the spindle and drive screw motor, so as to eliminate unbalanced torque, ensure the micro feed of the fixed rail and long-term precision. Y-axis square rail slide with all travel sustained is to ensure the best stability. (X, Y, Z axis are hard rail)

Items Description	T-20L	T-30L	T-40L	T-60L	T-80L	T-100L	T-120L
Working table size (length*width) (mm)	2200X1100	2700X1300	3000X1400	4000X1800	6000X2300	10000X3200	12000X3200
T slot (number*width*distance)	7-22X150	7-22X150	7-22X200	9-22X200	11-22X200	15-28X200	15-28X200
Max load (kg)	6000	8000	10000	16000	22000	45000	50000
X axis travel	2000	2500	3000	4200	6200	10000	12000
Y axis travel	1300	1500	1800	2200	2700	4200	4200
Z axis travel	800	900	900	1000	1000	1500	1500
Distance from spindle nose to working table (mm)	180-980	180-1080	150-1050	310-1310	310-1310	300-1800	300-1800
Gantry width (mm)	1300	1500	1800	2200	2700	4200	4200
Z axis counterweights	Hydraulic + nitrogen oxygen balance	Hydraulic + nitrogen oxygen balance	Hydraulic + nitrogen oxygen balance	Hydraulic + nitrogen oxygen balance	Hydraulic + nitrogen oxygen balance	Hydraulic + nitrogen oxygen balance	Hydraulic + nitrogen oxygen balance
Spindle speed (rpm)	6000	6000	6000	4000	4000	4000	4000
Spindle taper	BT50	BT50	BT50	BT50	BT50	BT50	BT50
Spindle diameter (mm)	φ190	φ190	φ200	φ200	φ200	φ230	φ230
Spindle (drive ratio)	Belt driven 1:1.25 Gear box 1:1/1:4	Belt driven 1:1.25 Gear box 1:1/1:4	Belt driven 1:1.25 Gear box 1:1/1:4	Belt driven 1:1.25 Gear box 1:1/1:4	Belt driven 1:1.25 Gear box 1:1/1:4	Belt driven 1:1.25 Gear box 1:1/1:4	Belt driven 1:1.25 Gear box 1:1/1:4
Three axis cutting feed rate (mm/min)	10-7000	10-7000	10-7000	10-7000	10-7000	10-7000	10-7000
3 axis movement speed (m/min)	12/12/10	12/12/10	12/12/10	12/12/10	10/10/10	8	8
Positioning accuracy	Free 0.012/1000	Free 0.012/1000	Free 0.012/1000	Free 0.012/1000	Free 0.012/1000	Free 0.012/1000	Free 0.012/1000
Repeatability accuracy (mm)	Free 0.008/1000	Free 0.008/1000	Free 0.008/1000	Free 0.008/1000	Free 0.008/1000	Free 0.008/1000	Free 0.008/1000
Spindle drive moto (continuous/30min)	18.5/22	18.5/22	18.5/22	22/26	22/26	30/37	30/37
X, Y, Z drive moto	7/4.5/4.5	7/4.5/4.5	7/4.5/4.5	9/7/7	9/7/7	11/7/7	11/7/7
Outline dimension (length*width*height)(mm)	6110x3320x4480	7500x3800x5000	9000x3800x4800	10000x5500x5000	9900x4650x4800	20000x5000x5500	25500x12000x6000
Machine weight (estimated) (kgs)	18000	21000	22500	43500	49000	130000	155000

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Specular machine series

use cast iron machine body,high-rigidity structure design,make the machine with higher stability,better precision,lower vibration, longer service-life,higher quality surface finish.

Items Description	Unit	S-450	S-540A
x/y working table size	mm	450×350	520×400
x/y/z axis position accuracy	mm	0.01/0.01/0.01	0.006/0.006/0.006
x/y/z axis repeat accuracy	mm	0.005/0.005/0.005	0.005/0.005/0.005
Distance from spindle nose to working table	mm	90-200	170-400
Cutting speed	m/min	12	10
Spindle speed	rpm	5000-100000	1000-36000
Machine weight (estimated)	kg	1400	2800
Max load	kg	80	200
Outline dimensions(length*width*height)	mm	1200×1400×1850	1800×1500×2200

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CNC glass engraving machine series

Natural granite marble lathe bed, base and beam, no deformation and truly achieve high speed, high precision high stability. Automatic machine with signal detection to ensure operational safety; high precision pressure detector that ensures safety and the product yield; using high sensitivity angle seat valve to control opening and closing of the vacuum and prolong the service life of the vacuum parts.

Items Description	Unit	B-540
x/y working table size	mm	520X400
x/y/z axis position accuracy	mm	0.006/0.006/0.006
x/y/z axis repeat accuracy	mm	0.005/0.005/0.005
Max feed speed	m/min	15
Cutting speed	m/min	10
Spindle speed	rpm	1000~36000
Machine weight (estimated)	kg	200
Max load	kg	2800
Outline dimensions(length*width*height)	mm	1800X1500X2200

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CNC glass engraving machine series

Natural granite marble lathe bed, base and beam, no deformation and truly achieve high speed, high precision high stability. Automatic machine with signal detection to ensure operational safety; high precision pressure detector that ensures safety and the product yield; using high sensitivity angle seat valve to control opening and closing of the vacuum and prolong the service life of the vacuum parts.

Items Description	Unit	B-700/2	B-700/2C	B-800/2B	B-800/4B
x/y working table size	mm	500x700	500x700	333x800	333x800
x/y/z axis position accuracy	mm	0.01/0.01/0.008	0.01/0.01/0.008	0.01/0.01/0.008	0.01/0.01/0.008
x/y/z axis repeat accuracy	mm	0.008/0.008/0.005	0.008/0.008/0.005	0.008/0.008/0.005	0.008/0.008/0.005
Max feed speed	m/min	15	15	18	18
Cutting speed	m/min	8	8	8	8
Spindle speed	rpm	60000	60000	60000	60000
Mechine weight (estimated)	kg	150	90	130	130
Max load	kg	1800	1860	2840	2900
Half sealed outline dimensions(length*width*height)	mm	1780x1480x1700	1780x1480x1700	/	/
Full sealed outline dimensions(length*width*height)	mm	1420x1510x1910	1420x1510x1910	1700x1800x1930	1700x1800x1930

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CNC glass engraving machine series

The crossbeam of the machine bed is made of gantry structure with high rigidity. The bed, column and beam are cast iron structure with high-strength and good shock-absorbing ability, they have strong stability and resistance to deformation. The large damping structure is established inside the bed with excellent shock absorber capability. Using a single z-axis (spindle) structure design to ensure high precision and anti-deformation. Using aluminum table, the surface be disposed of the hard anodized with high anti-scratch, anti-corrosion ability, the machine uses semi-protective structure, easy to operate and high processing efficiency. The whole structure is compact, easy to operate, small footprint and high output per unit area. Operation box separate with the machine to avoid electrical cabinet resonance caused by machine vibration.

Items Description	Unit	B-400	B-400T
x/y working table size	mm	570x500	570x500
x/y/z axis position accuracy	mm	0.01/0.01/0.008	0.01/0.01/0.008
x/y/z axis repeat accuracy	mm	0.008/0.008/0.005	0.008/0.008/0.005
Max feed speed	m/min	12	12
Cutting speed	m/min	6	6
Spindle speed	rpm	48000	40000
Mechine weight (estimated)	Kg	100	100
Max load	Kg	1300	1300
Outline dimensions(length*width*height)	mm	1200×1150×1950	1500×1150×1950

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CNC machining center-3 axis linear guide

Machining center with linear guide use to process complicated parts like board type, plate type, mold and small shell; it finish milling, boring, drilling, tapping the thread and cut the tread and other process one time. Adopts high precision linear guide and lead screw, with better dynamic response, achieve high speed cutting, low speed and no stick-slip; it widely use in high precision components, 3C products, hardware, automobile accessories and medical equipments field.

Item	Specification	Unit	T-V850	T-V1050	T-V1060	T-V1260
Working table	Working table size(L X M)	mm	950X500	1100X500	1200X600	1300X600
	Max. loading	kg	600	600	800	1000
	Working table height	mm	920	920	945	945
	T-Slot(qty*width*distance)	mm	5-18*100	5-18*100	5-18*100	5-18*100
Spindle	Spindle specification		BT40/φ150	BT40/φ150	BT40/φ150	BT40/φ150
	Spindle speed	rpm	8000/10000/12000	8000/10000/12000	8000/10000/12000	8000/10000/12000
Traverse	X/Y/Z traveling	mm	850/500/530	1050/500/530	1050/600/580	1200/600/580
	Distance from spindle noseto working table	mm	100-630	100-630	150-730	150-730
	x/y/z traverse rate	m/min	36/36/36	36/36/36	36/36/36	36/36/36
Machine appearance	Length *Width*height	mm	2100X2600X2800	2400X2600X2800	2600X2900X3000	2910X2900X3000
	Machine weight	kg	5500	5900	7000	7500

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CNC machining center series-X&Y Linear guide, Z Box way

This series of vertical machining centers because of the high rigidity of the z-axis, X, Y axis is a high-speed moving linear rolling guide, so that the machine tool high-speed feed when the vibration small, low speed feed without crawling, both the high-speed and hard rail machine high steel, so machine tools widely used in mechanical manufacturing, Mold manufacturing and other industries, especially automotive manufacturing and motorcycle manufacturing.

Item	Specification	Unit	T-850L	T-1050L	T-1060L	T-1260L
Working table	Working table size(L X M)	mm	950X500	1100X500	1200X600	1300X600
	Max. loading	kg	600	600	800	1000
	Working table height	mm	920	920	945	945
	T-Slot(qty*width*distance)	mm	5-18*100	5-18*100	5-18*100	5-18*100
Spindle	Spindle specification		BT40/φ150	BT40/φ150	BT40/φ150	BT40/φ150
	Spindle speed	rpm	8000/10000/12000	8000/10000	8000/10000/12000	8000/10000
Traverse	X/Y/Z traveling	mm	850/500/530	1050/500/530	1050/600/580	1200/600/580
	Distance from spindle noseto working table	mm	100-630	100-630	150-730	150-730
	x/y/z traverse rate	m/min	36/36/20	36/36/20	36/36/20	36/36/20
Machine appearance	Length *Width*height	mm	2100X2600X2800	2400X2600X2800	2600X2900X3000	2910X2900X3000
	Machine weight	kg	6000	6400	7500	8000

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CNC machining center-3 axis box way

T-850 and T-1060 box way vertical machining Center series of machine Tool movement coordinates of the guide rail body are hardened after grinding set of cast iron Guide to PTFE plastic veneer. Its characteristic is: the friction coefficient is small, the damping is good, the low-speed does not crawl, the fast localization precision is high, the contact surface is big, the bearing capacity is strong. Most of the main drive of the machine adopts the drive mode of motor-synchronous toothed belt-spindle, which makes the spindle get higher speed and greatly reduce the vibration and noise of the spindle box, which is more favorable to the processing of high speed and high precision. This series of machine tools are widely used in mechanical manufacturing, mold manufacturing and other industries to process plate parts, shell and mold and other complex parts. The workpiece can finish milling, drilling, boring and hinge processing in a series of processes after clamping. Can be used as a single station, but also can be more than one assembly production line processing parts.

Item	Specification	Unit	T-850	T-1050
Working table	Working table size(L X M)	mm	950X500	1200X600
	Max. loading	kg	600	800
	Working table height	mm	920	945
	T-Slot(qty*width*distance)	mm	5-18*100	5-18*100
Spindle	Spindle specification		BT40/φ150	BT40/φ150
	Spindle speed	rpm	8000/10000	8000/10000
Traverse	X/Y/Z traveling	mm	850/500/530	1050/600/580
	Distance from spindle noseto working table	mm	100-630	150-730
	x/y/z traverse rate	m/min	20/20/20	20/20/20
Machine appearance	Length *Width*height	mm	2100X2600X2800	2600X2900X3000
	Machine weight	kg	5800	6300

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Robot series

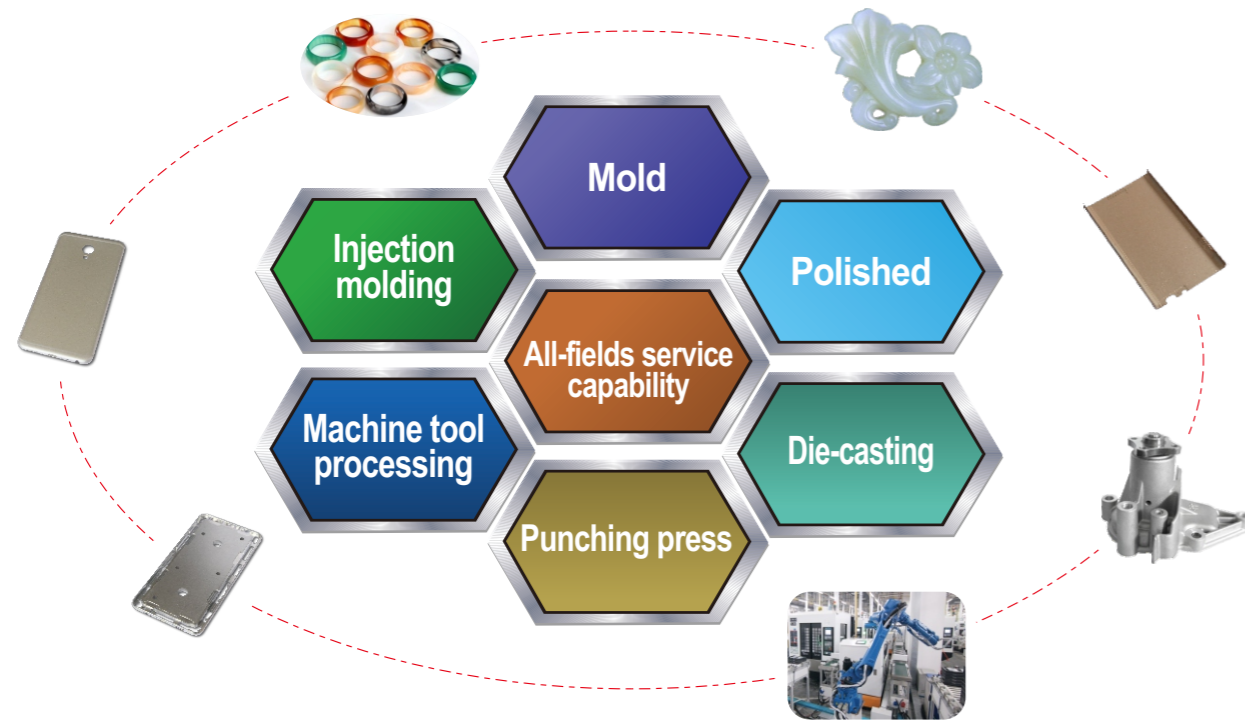
Wide work range and high anti-dust and anti-drip performance. Can be widely used in a variety of operating environment. The width is the smallest of the same level, only 280mm. Powerful wrist can be flexible to carry a variety of working pieces.

Version		MC20-01	MC10L-01
Structure		Joint type	
Freedom		6	
Drive mode		AC servo mode	
Max work range	J6	±6.28rad (±360°)	
Max speed	J6	10.5rad/s (600° /s)	
Afford weight*1		20kg(Max.22kg)	10kg
Distance of wrist torque	J5	49N · m	24.5N · m
Distance of wrist inertia force*2	J6	.8kg · m ²	.7kg · m ²
Accuracy of position repeatability*3		±0.6mm	
Max use of air pressure		0.49MPa (5.0kgf/cm ²) less than	
Ambient temperature		0~45℃	
Set condition		Floor style, Hanging type	
Resistant to environment*4		Equivalent to IP65(Dustproof & waterproof)	
Mechine weight		220kg	225kg

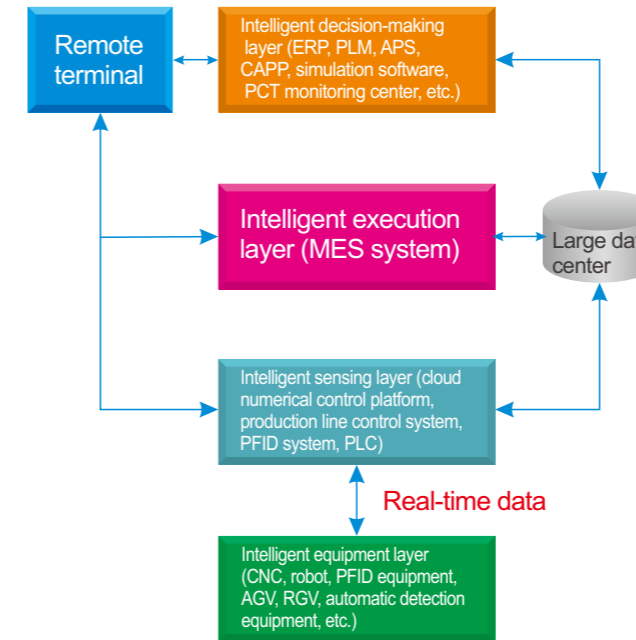
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Intelligent manufacturing system solutions

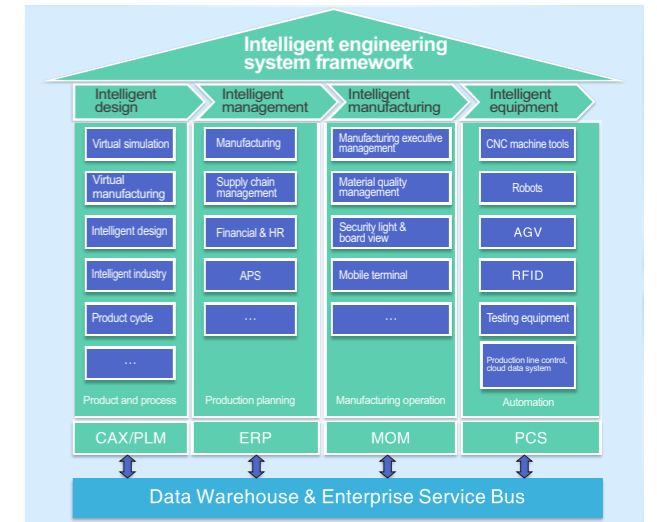
Based on CNC machine tool processing, to provide intelligent solutions for a variety of industrial manufacturing in 3C industry



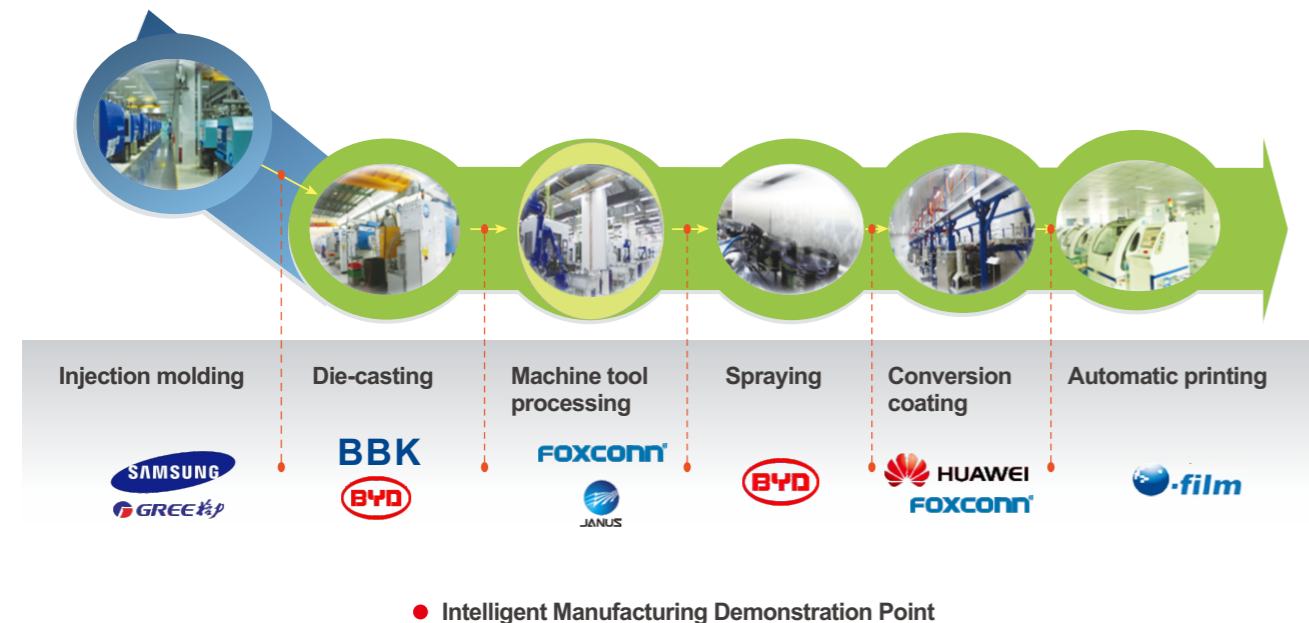
Program architecture



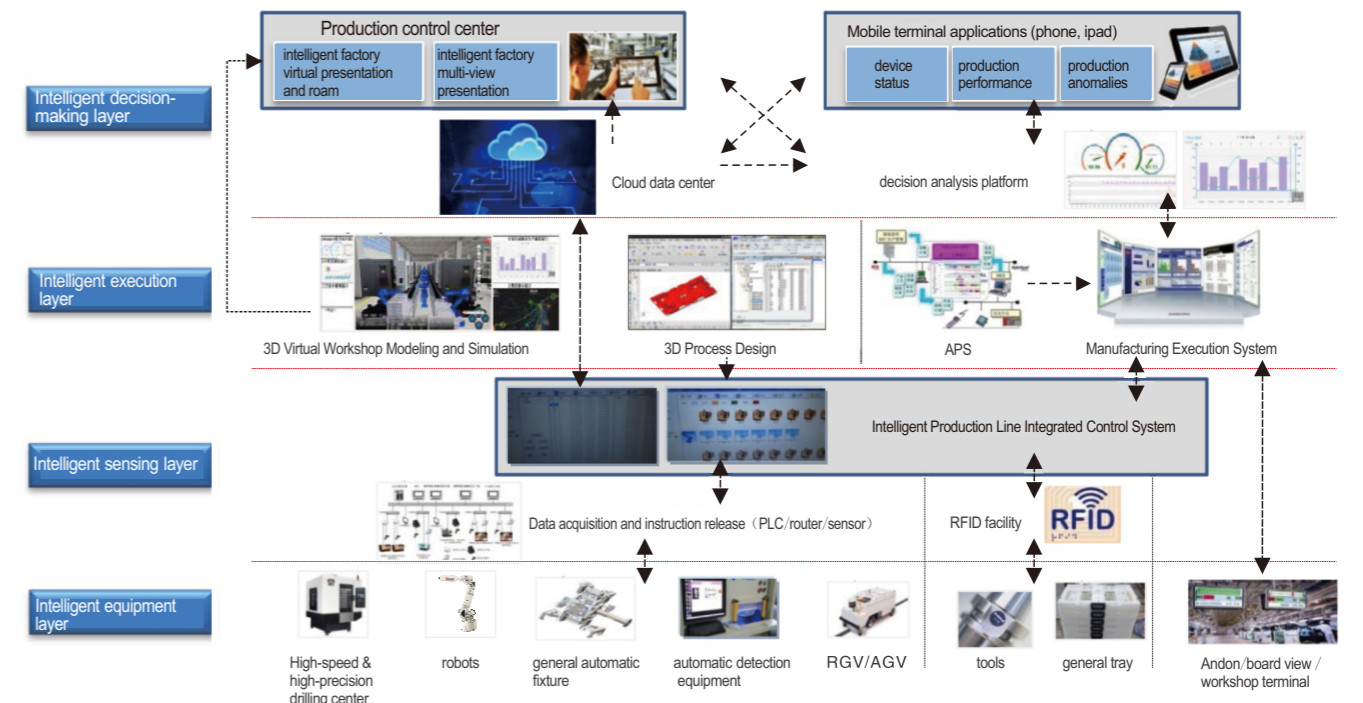
System framework



Rich experience in the transformation, has been provide intelligent transformation for each well-known enterprises the industry



Implementation plan



Parameter and Configuration

● Standard configuration ○ Optional configuration ▲ Need check △ Not support

Configuration item	Drilling and tapping machine	Parts and products processing machine	Hard rail machining machine	Line rail machining machine	Gantry processing machine
Toolbox and adjust tools	●	●	●	●	●
System operating instructions	●	●	●	●	●
Operation Manual	●	●	●	●	●
Full covered shield	●	●	●	●	●
Explosion proof light	●	●	●	●	●
Spindle blowing device	●	●	●	●	●
Three pile light	●	●	●	●	●
Rs232 layout	●	●	●	●	●
Rigid tapping function	●	●	●	●	●
Electrical box air conditioning	○	○	○	○	○
Electrical box heat exchange system	●	●	●	●	●
Column height increasing 150mm	▲	▲	○	○	○
Column height increasing 250mm	▲	▲	○	○	○
Hand wheel	●	●	●	●	●
Cutting fluid system	●	●	●	●	●
Guide hood	●	●	●	●	●
Drum type ATC	△	△	○	○	○
Disc type tool magazine	△	●	○	○	○
Chain type tool magazine	△	△	○	○	○
Arm type tool magazine(16T)	●	△	△	△	△
Arm type tool magazine(21T)	○	△	△	△	△
Lubrication system	●	●	●	●	●
Coolant through spindle	△	○	○	○	○
Spindle coolant	○	○	○	○	●
Whole gear head	△	△	○	○	○
ZF gear box	△	△	○	○	○
The fourth axis	○	○	○	○	○
Mitsubishi M70	●	●	●	●	●
Mitsubishi M720	○	○	○	○	○
Mitsubishi M80	○	○	○	○	○
Fanuc Oi-MF(1) software packet	○	○	○	○	○
Fanuc Oi-MF(5) software packet	●	○	○	○	○

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Configuration for parts and products processing machine

Item	Specification	Unit	T-V850	T-V1050	T-V1060	T-V1260
Working table	Working table size(L X M)	mm	950X500	1100X500	1200X600	1300X600
	Max. loading	kg	600	600	800	1000
	Working table height	mm	920	920	945	945
	T-Slot(qty*width*distance)	mm	5-18*100	5-18*100	5-18*100	5-18*100
Spindle	Spindle specification		BT40/φ150	BT40/φ150	BT40/φ150	BT40/φ150
	Spindle speed	rpm	8000/10000/12000	8000/10000/12000	8000/10000/12000	8000/10000/12000
lead screw	Spindle diameter/Pitch(XYZ)	mm	4012	4012	4012	4012
linear guide	Width(XYZ)	mm	45	45	45	45
Traverse	X/Y/Z traveling	mm	850/500/530	1050/500/530	1050/600/580	1200/600/580
	distance from spindle nose to working table	mm	100-630	100-630	150-730	150-730
Feeding	Cutting speed	mm/min	1-10000	1-10000	1-10000	1-10000
	Rapid traverse rate		36/36/36	36/36/36	36/36/36	36/36/36
Accuracy	Positioning accuracy/300	mm	0.008	0.008	0.008	0.010
	Repeatability/300	mm	0.005	0.005	0.005	0.007
Automatic tool magazine	Tool capacity	pc	24	24	24	24
	Max. tool dia.	mm	φ75	φ75	φ75	φ75
	Max. tool dia.(no adjacent tool)	mm	φ150	φ150	φ150	φ150
	Max tool length	mm	250	250	250	250
Motor	Max tool weight	kg	8	8	8	8
	Spindle motor	kw	11	11	11	11
	X/Y/Z servo motor	kw	2.0/2.0/3.0	2.0/2.0/3.0	2.0/2.0/3.0	2.0/2.0/3.0
	Chip conveyor motor	kw	0.1	0.1	0.1	0.1
Machine appearance	Length *Width*height	mm	2100X2600X2800	2400X2600X2800	2600X2900X3000	2910X2900X3000
	Machine weight	kg	5500	5900	7000	7500

Item	Specification	Unit	T-850L	T-1050L	T-1060L	T-1260L	T-850	T-1060
Working table	Working table size(L X M)	mm	950X500	1100X500	1200X600	1300X600	950X500	1200X600
	Max. loading	kg	600	600	800	1000	600	800
	Working table height	mm	920	920	945	945	920	920
	T-Slot(qty*width*distance)	mm	5-18*100	5-18*100	5-18*100	5-18*100	5-18*100	5-18*100
Spindle	Spindle specification		BT40/φ150	BT40/φ150	BT40/φ150	BT40/φ150	BT40/φ150	BT40/φ150
	Spindle speed	rpm	8000/10000/12000	8000/10000	8000/10000/12000	8000/10000	8000/10000	8000/10000
lead screw	Spindle diameter/Pitch(XYZ)	mm	4012	4012	4012	4012	4012	4012
linear guide	Width(XYZ)	mm	45	45	45	45	45	45
Traverse	X/Y/Z traveling	mm	850/500/530	1050/500/530	1050/600/580	1200/600/580	850/500/530	1050/600/580
	distance from spindle nose to working table	mm	100-630	100-630	150-730	150-730	100-630	150-730
Feeding	Cutting speed	mm/min	1-10000	1-10000	1-10000	1-10000	1-10000	1-10000
	Rapid traverse rate		36/36/20	36/36/20	36/36/20	36/36/20	24/24/20	24/24/20
Accuracy	Positioning accuracy/300	mm	0.008	0.008	0.008	0.010	0.008	0.008
	Repeatability/300	mm	0.005	0.005	0.005	0.007	0.005	0.005
Automatic tool magazine	Tool capacity	pc	24	24	24	24	24	24
	Max. tool dia.	mm	φ75	φ75	φ75	φ75	φ75	φ75
	Max. tool dia.(no adjacent tool)	mm	φ150	φ150	φ150	φ150	φ150	φ150
	Max tool length	mm	250	250	250	250	250	250
Motor	Max tool weight	kg	8	8	8	8	8	8
	Spindle motor	kw	11	11	11	11	11	11
	X/Y/Z servo motor	kw	2.0/2.0/3.0	2.0/2.0/3.0	2.0/2.0/3.0	2.0/2.0/3.0	3.0/3.0/3.0	3.0/3.0/3.0
	Chip conveyor motor	kw	0.1	0.1	0.1	0.1	0.1	0.1
Machine appearance	Length *Width*height	mm	2100X2600X2800	2400X2600X2800	2600X2900X3000	2910X2900X3000	2100X2600X2800	2600X2900X3000
	Machine weight	kg	6000	6400	7500	8000	5800	6300

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Configuration for parts and products processing machine

Items Description	Unit	T-V6/T-V6 ^(30000rpm spindle)	T-V6H	T-V856	T-500	T-500H	T-500B	T-500C	T-530	T-600	T-700	T-1000	T-1300	
Work table T slot-Dimensions	mm	700*400	700*400	900*500	620*400	620*400	620*400	620*400	620*320	700*400	800*400	1100*510	1400*510	
Travel	X axis	mm	600	600	800	500	500	500	500	600	700	1050	1300	
Travel	Y axis	mm	390	390	500	400	400	400	300+100 ^(Loading and unloading of workpiece)	390	400	500	500	
Travel	Z axis	mm	450	450	600	320	320	300	300	320	320	320	320	
Work table T slot-Dimensions	mm	3-18*125	3-18*125	5-18*100	3-14*120	3-14*120	3-14*120	3-14*120	3-14*120	3-18*125	3-18*125	3-14*125	M12 taphole,distance150*150	
Distance from spindle nose to working table	mm	190-640	155-605	125-725	205-525	205-525	155-455	155-455	155-455	180-500	180-500	150-470	150-470	
Distance from spindle center to body surface	mm	480	480	720	445	445	445	445	445	445	445	572	572	
Spindle speed(standard)	rpm	50-12000/500-30000	50-30000	50-10000	50-20000	50-24000	50-20000	50-24000	50-24000	50-20000	50-20000	50-20000(24000)	50-20000(24000)	
Spindle taper	#	BT-40/BT-30	BT-30	BT-40	BT-30	BT-30	BT-30	BT-30	BT-30	BT-30	BT-30	BT-30	BT-30	
Spindle power	KW	5.5	5.5	7.5	5.5	3.7	5.5	7.5	7.5	5.5	5.5	5.5	5.5	
X axis rapid traverse rate	m/min	48	48	48	60	60	48	48	48	60	60	48	48	
Y axis rapid traverse rate	m/min	48	48	48	60	60	48	48	48	60	60	48	48	
Z axis rapid traverse rate	m/min	48	48	48	60	60	48	48	48	60	60	36	36	
Cutting speed	m/min	1-10000/1-20000	1-10000	1-10000	1-30000	1-30000	1-30000	1-30000	1-30000	1-30000	1-20000	1-20000	1-20000	
Three axis motor power(X,Y,Z)	KW	1.5/1.5/3.0	1.5/1.5/3.0	2.0/2.0/3.0	1.5/1.5/2.2	1.5/1.5/2.2	1.5/1.5/2.2	1.5/1.5/2.2	1.5/1.5/2.2	1.5/1.5/2.2	1.5/2.2/2.2	2.2/2.2/3.0	2.2/2.2/3.0	
Max tool weight	KG	8	4	8	3	3	3	3	3	3	3	3	3	
Tool length	mm	300	300	300	200	200	200	200	200	200	200	200	200	
Max diameter(Full knife/adjacent empty knife)	mm	78/120	80/150	75/150	60/80	60/80	60/80	60/80	60/80	60/80	60/80	60/80	60/80	
Tank capacity	L	150	150	200	125	125	145	145	145	125	125	170	170	
Air pressure demand	Mpa	≥0.6	≥0.6	≥0.6	≥0.6	≥0.6	≥0.6	≥0.6	≥0.6	≥0.6	≥0.6	≥0.6	≥0.6	
Total power consumption	Kva	15	15	12	12	12	12	12	12	12	12	13.5	13.5	
Positioning accuracy	mm	±0.005	±0.005	±0.008	±0.005	±0.005	±0.005	±0.005	±0.005	±0.005	±0.005	±0.008	±0.01	
Repeat accuracy	mm	±0.003	±0.003	±0.003	±0.003	±0.003	±0.003	±0.003	±0.003	±0.003	±0.003	±0.005	±0.005	
Max load	KG	300	300	450	250	250	250	250	250	250	250	300	250	
Machine weight(estimated)	KG	3100	3400	4900	3100	3100	3100	3050	3050	3100	3150	4510	4730	
Outline dimensions(length*width*height)	mm	1900*2510*2480	2030*2100*2300	2250*2610*2700	1690*2600*2500	1690*2600*2500	1690*2600*2300	1600*2600*2300	1600*2600*2300	1600*2600*2300	1820*2600*2500	1950*2600*2500	2480*2850*2550	3110*2850*2550
Tool magazine	T	20	20	24	16/21	16/21	16/21	21	21	16/21	16/21	21	21	

Configuration for high speed machining center CNC Machining center series-X &Y Linear guide, Z Box way

Our products are improved continuously, the above information is subject to change without notice.

Items Description	Unit	T-8HL	T-8L	T-10L	T-11L	T-12L	T-13L	T-15L
Working table size	mm	900×500	1000×500	1300×600	1200×600	1360×700	700×1500	800×1700
Travel	X axis	mm	800	800	1000	1100	1300	1500
	Y axis	mm	500	500	600	550	700	800
	Z axis	mm	580	500	600	550	700	700
Work table T slot -Dimensions	mm	5-18×100	5-18×90	5-18×100	5-15×125	5-18×122	5-18×135	5-22×140
Distance from spindle nose to working table	mm	150-730	160-660	70-670	160-710	87-687	190-890	130-830
Distance from spindle center to body surface	mm	720	560	655	699	785	757	810
Spindle speed(standard)	rpm	50-15000	50-8000	50-8000	50-8000	50-8000	50-6000	8000
Spindle taper	#	BT-40	BT-40	BT-40	BT-40	BT-50	BT-50/155	BT50/∅155
Spindle power	kw	7.5	11	11	11	15	15	15
X axis rapid traverse rate	m/min	36	24	24	20	20	20	20
Y axis rapid traverse rate	m/min	36	24	24	20	20	20	20
Z axis rapid traverse rate	m/min	36	16	16	16	12	12	15
Cutting speed	mm/min	1-10000	1-10000	1-10000	1-10000	1-10000	1-10000	1-10000
Three axis motor power(X, Y, Z)	kw	2.0/2.0/3.0	3.0/3.0/3.0	3.0/3.0/3.0	3.0/3.0/3.0	3.0/3.0/3.0	3.0/3.0/3.0	4.5/4.5/4.5
X/Y/Z axis ball screw specification		/	4012	4012	/	5010	5010	6310、6310、5010
X axis line rail specification		/	MSA35LA	MSA45LA	/	MSA55LS	MSA45LS (three sliding block)	MSA55LS (three sliding block)
Y axis line rail specification		/	MSA45LA	MSA55LA	/	MSA45LS (four rail)	MSA45LS (four rail)	MSA45LS (four rail)
Z axis line rail specification		/	Slide guide	Slide guide	/	Slide guide	Slide guide	Slide guide
Maximum tool weight	kg	8	8	8	8	15	15	15
Tool length	mm	300	300	300	300	300	300	300
Max diameter (Full knife / adjacent empty knife)	mm	75/150	75/150	75/150	75/150	110/180	110/180	110/180
Tank capacity	L	200	200	250	250	250	350	350
Air pressure demand	Mpa	≥0.6	≥0.6	≥0.6	≥0.6	≥0.6	≥0.6	≥0.6
Total power consumption	kva	15	15	18	18	30	30	35
Positioning accuracy	mm	0.008	0.008	0.008	0.008	0.012	0.012	0.012
Repeat accuracy	mm	0.005	0.005	0.005	0.005	0.006	0.006	0.008
Max load	kg	450	450	800	800	1000	1000	1500
Machine weight (estimated)	kg	5000	5375	8228	6500	9471	9200	12255
Outline dimensions (length * width * height)	mm	2750×2200×2860	2690×2380×2740	3260×2700×2850	3400×3000×3000	3650×3020×2900	3590×2960×2900	4360×3200×3500

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CNC Machining center series-Box way

Items Description	Unit	T-8	T-10	T-11	T-12	T-13	T-15	T-16	T-18
Working table size	mm	1050×500	1300×600	1200×580	1360×700	1400×710	1700×800	1800×900	2000×900
Travel	X axis	mm	800	1000	1100	1200	1300	1500	1800
	Y axis	mm	500	600	550	700	700	800	900
	Z axis	mm	500	600	600	600	650	700	680
Work table T slot -Dimensions	mm	5-18×90	5-18×120	6-18×100	5-18×152.5	5-18×152.5	5-22×135	5-22×165	5-22×165
Distance from spindle nose to working table	mm	130-630	210-810	120-720	160-760	150-800	190-890	160-840	160-840
Distance from spindle center to body surface	mm	500	600	710	785	785	800	950	950
Spindle speed(standard)	rpm	50-8000	50-8000	50-8000	50-6000	50-6000	50-6000	50-6000	50-6000
Spindle taper	#	BT-40	BT-40	BT-40	BT-50	BT-50	BT-50	BT-50	BT-50
Spindle power	kw	11	11	11	15	15	18.5	18.5	22
X axis rapid traverse rate	m/min	16	16	16	12	12	12	12	12
Y axis rapid traverse rate	m/min	16	16	16	12	12	12	12	12
Z axis rapid traverse rate	m/min	16	16	16	12	12	12	12	12
Cutting speed	mm/min	1-10000	1-10000	1-10000	1-10000	1-10000	1-10000	1-10000	1-10000
Three axis motor power(X, Y, Z)	kw	3.0/3.0/3.0	3.0/3.0/3.0	3.0/3.0/3.0	3.0/3.0/3.0	3.0/3.0/3.0	4.5/4.5/4.5	4.5/7.0/4.5	4.5/7.0/4.5
X/Y/Z axis ball screw specification		4012	4012	/	5010	5010/5010/5010	6310/6310/5010	5508/5508/5508	5512/5512/5512
Max tool weight	kg	8	8	8	15	15	18.5	18.5	18.5
Tool length	mm	300	300	300	300	300	300	300	300
Max diameter (Full knife / adjacent empty knife)	mm	75/150	75/150	75/150	75/150	110/180	110/180	110/180	110/180
Tank capacity	L	200	350	350	350	350	350	350	400
Air pressure demand	Mpa	≥0.6	≥0.6	≥0.6	≥0.6	≥0.6	≥0.6	≥0.6	≥0.6
Total power consumption	kVa	15	20	20	30	30	35	35	35
Positioning accuracy	mm	0.008	0.008	0.008	0.01	0.01	0.012	0.012	0.012
Repeat accuracy	mm	0.005	0.005	0.005	0.006	0.006	0.008	0.008	0.008
Max load	kg	600	800	800	1000	1000	1500	1600	1600
Machine weight (estimated)	kg	4636	7228	6000	9395	8500	12255	11300	13137
Outline dimensions (length * width * height)	mm	2710×2320×2740	3380×2610×2850	3280×2940×2850	3650×3020×2900	4000×3000×3450	4360×3200×3500	4370×3200×3500	4850×3500×3500

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Configuration for Double column machine series

Items Description	T-20L			T-30L			T-40L		T-60L		T-80L	T-100L	T-120L
Working table size (length*width) (mm)	2200X1100	2200X1300	2700X1300	3000X1400	3000X1800	3000X2300	4000x1800	4000x2300	6000X2300	6000X2300	8000X2500	10000X3200	12000X3200
T slot (number*width*distance)	7-22X150	7-22X150	7-22X150	7-22X200	9-22X200	11-22X200	9-22x200	11-22X200	11-22X200	11-22X200	30-28x250	15-28x200	15-28x200
Max load (kg)	6000	6000	8000	10000	10000	12000	16000	16000	22000	25000	32000	45000	50000
X axis travel	2000	2000	2500	3000	3000	3200	4200	4200	6200	6200	8200	10000	12000
Y axis travel	1300	1500	1500	1800	2200	2700	2200	2700	2700	2900	4000	4200	4200
Z axis travel	800	900	900	900	1000	1000	1000	1000	1000	1000	1250	1500	1500
Distance from spindle nose to working table (mm)	180-980	180-1080	250-1150	150-1050	310-1310	310-1310	310-1310	310-1310	310-1310	310-1310	350-1600	300-1800	300-1800
Gantry width (mm)	1300	1550	1500	1800	2200	2700	2200	2700	2700	2900	3400	4200	4200
Z axis counterweights	Hydraulic +nitrogen oxygen balance	Hydraulic +nitrogen oxygen balance	Hydraulic +nitrogen oxygen balance	Hydraulic +nitrogen oxygen balance	Hydraulic +nitrogen oxygen balance	Hydraulic +nitrogen oxygen balance	Hydraulic +nitrogen oxygen balance	Hydraulic +nitrogen oxygen balance	Hydraulic +nitrogen oxygen balance	Hydraulic +nitrogen oxygen balance	Hydraulic +nitrogen oxygen balance	Hydraulic +nitrogen oxygen balance	Hydraulic +nitrogen oxygen balance
Spindle speed (rpm)	6000	6000	6000	6000	6000	6000	4000	4000	4000	4000	4000	4000	4000
Spindle taper	BT50	BT50	BT50	BT50	BT50	BT50	BT50	BT50	BT50	BT50	BT50	BT50	BT50
Spindle diameter (mm)	φ190	φ190	φ200	φ190	φ200	φ190	φ200	φ200	φ200	φ200	φ200	φ230	φ230
Spindle (drive ratio)	Belt driven 1:1.25 Gear box1:1/1:4	Belt driven 1:1.25 Gear box1:1/1:4	Belt driven 1:1.25 Gear box1:1/1:4	Belt driven 1:1.25 Gear box1:1/1:4	Belt driven 1:1.25 Gear box1:1/1:4	Belt driven 1:1.25 Gear box1:1/1:4	Belt driven 1:1.25 Gear box1:1/1:4	Belt driven 1:1.25 Gear box1:1/1:4	Belt driven 1:1.25 Gear box1:1/1:4	Belt driven 1:1.25 Gear box1:1/1:4	Belt driven 1:1.25 Gear box1:1/1:4	Belt driven 1:1.25 Gear box1:1/1:4	Belt driven 1:1.25 Gear box1:1/1:4
Three axis cutting feed rate (mm/min)	10-7000	10-7000	10-7000	10-7000	10-7000	10-7000	10-7000	10-7000	10-7000	10-7000	10-7000	10-7000	10-7000
3 axis movement speed (m/min)	12/12/10	12/12/10	12/12/10	12/12/10	12/12/10	12/12/10	12/12/10	10/10/10	8	8	8	8	8
Positioning accuracy	Free 0.012/1000	Free 0.012/1000	Free 0.012/1000	Free 0.012/1000	Free 0.012/1000	Free 0.012/1000	Free 0.012/1000	Free 0.012/1000	Free 0.012/1000	Free 0.012/1000	Free 0.012/1000	Free 0.012/1000	Free 0.012/1000
Repeatability accuracy (mm)	Free 0.008/1000	Free 0.008/1000	Free 0.008/1000	Free 0.008/1000	Free 0.008/1000	Free 0.008/1000	Free 0.008/1000	Free 0.008/1000	Free 0.008/1000	Free 0.008/1000	Free 0.008/1000	Free 0.008/1000	Free 0.008/1000
Spindle drive moto (continuous/30min)	18.5/22	18.5/22	18.5/22	18.5/22	18.5/22	22/26	22/26	22/26	22/26	22/26	22/26	30/37	30/37
X、Y、Z drive moto	7/4.5/4.5	7/4.5/4.5	7/4.5/4.5	7/4.5/4.5	7/4.5/4.5	9/7/7	9/7/7	9/7/7	11/7/7	11/7/7	11/7/7	11/7/7	11/7/7
Outline dimensions (length * width * height)	6110x3320x4480	7500x3800x5000	7000x4500x5000	9000x3800x4800	9000x4500x5000	10000x5500x5000	9900x4650x4800	9840x5150x4850	18000x5000x5000	18000x5000x5000	20000x5000x5500	22500x10000x6000	25500x12000x6000
Machine weight(estimated)(kgs)	18000	19000	21000	22500	33500	43500	40000	49000	68000	71000	95000	130000	155000

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Configuration of specular machine

Items Description	Unit	S-450	S-540A
Working table size	mm	450*350	520X400
Travel	X axis	440	520
	Y axis	340	400
	Z axis	110	230
X,Y,Z axes position accuracy	mm	0.01/0.01/0.01	0.006/0.006/0.006
X,Y,Z axes repeat accuracy	mm	0.005/0.005/0.005	0.005/0.005/0.005
Max feed speed	m/min	15	15
Cutting speed	m/min	12	10
Spindle speed	rpm	5000-100000	1000~36000
Distance from spindle nose to working table	mm	90~200	170~400
Tool specification	#	None(collet specification:ER11)	ISO25/HSK-E32
Tool change method	#	Manual operation	Pneumatic
Tool magazine	T	None	Semi-umbrella servo 13
Control system	#	New generation/Taida system	Simens
Voltage	#	Single-phase 220V/50Hz	Three-phase 380V/50HZ
Air pressure	Mpa	≥0.6	≥0.6
Total power	Kw	4.0	10
Max load	kg	80	200
Machine weight (estimated)	kg	1400	2800
Cover	#	Full face	Full face
Outline dimensions (length * width * height)	mm	1200×1400×1850	1800X1500X2200

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CNC glass engraving machine series

Items Description	Unit	B-700/2	B-700/2C	B-800/2	B-800/2B	B-800/4B
Working table size	mm	500X700	500X700	500x800	333x800	333x800
Travel	X axis	370	370	415	415	210
	Y axis	500	200	500	290	290
	Z axis	90	90	90	90	90
Ground rail manipulator stroke	mm	/	U:680 V:246 W:111	/	/	/
Cantilever manipulator stroke	mm	/	/	/	V:635 W:290 A:±100°	V:635 W:290 A:±100°
X,Y,Z axes position accuracy	mm	0.01/0.01/0.008	0.01/0.01/0.008	0.01/0.01/0.008	0.01/0.01/0.008	0.01/0.01/0.008
X,Y,Z axes repeat accuracy	mm	0.008/0.008/0.005	0.008/0.008/0.005	0.008/0.008/0.005	0.008/0.008/0.005	0.008/0.008/0.005
Max feed speed	m/min	15	15	18	18	18
Cutting speed	m/min	8	8	8	8	8
Spindle power	kw	1.8	1.8	1.8	1.8	1.8
Spindle speed	rpm	60000	60000	60000	60000	60000
Distance from spindle nose to working table	mm	60-150	60-150	70-160	70-160	70-160
Spindle distance	mm	350	350	410	410	205
Tool specification	#	Φ 4, Φ6, Φ3.175	Φ 4, Φ6, Φ3.175	Φ4, Φ6, Φ3.175	Φ4 Φ6 Φ3.175	Φ4, Φ6, Φ3.175
Tool change method	#	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic
Control system	/	/	/	/	/	/
Unprocessed measurement compensation	#	Automatic tool compensation	Automatic tool compensation	Automatic tool compensation	Automatic tool compensation	Automatic tool compensation
Air pressure	Mpa	≥0.6	≥0.6	≥0.6	≥0.6	≥0.6
Vacuum suction	Mpa	-0.05~-0.09	-0.05~-0.09	-0.05~-0.09	-0.05~-0.09	-0.05~-0.09
Power requirement	#	Single-phase 220V/50Hz	Single-phase 220V/50Hz	Single-phase 220V/50Hz	Single-phase 220V/50Hz	Single-phase 220V/50Hz
Total power	kw	5.5	7	5.5	7	11
Max load	kg	150	90	130	130	130
Machine weight (estimated)	kg	1800	1860	2400	2840	2900
Manipulator&fixture	/	/	Ground rail manipulator, fixture alone	/	Cantilever manipulator, double angle fixture	Cantilever manipulator, double angle fixture
Single feed box capacity	P	/	50	/	50	50
Total load in one time	P	/	50	/	200	200
Reloading time	S	/	Non-stop	/	≤10	≤10
Half sealed outline dimensions (length*width*height)	mm	1780x1480x1700	1780x1480x1700	/	/	/
Full sealed outline dimensions (length*width*height)	mm	1420x1510x1910	1420x1510x1910	1460x1630x1930	1700x1800x1930	1700x1800x1930

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CNC glass engraving machine series

Items Description	Unit	B-540	B-700A/2	B-400	B-400T
Working table size	mm	520X400	500X700	570x500	570x500
Travel	X axis	520	360	400	400
	Y axis	400	490	400	400
	Z axis	230	160	160	160
X,Y,Z axes position accuracy	mm	0.006/0.006/0.006	0.006/300	0.01/0.01/0.008	0.01/0.01/0.008
X,Y,Z axes repeat accuracy	mm	0.005/0.005/0.005	0.005	0.008/0.008/0.005	0.008/0.008/0.005
Max feed speed	m/min	15	15	12	12
Cutting speed	m/min	10	8	6	6
Spindle power	kw	3.5	3.7	3.7	3.7
Spindle speed	rpm	1000~36000	10000~40000	48000	40000
Distance from spindle nose to working table	mm	170~400	70~140	20-180	20-180
Spindle distance	mm	/	310	/	/
Tool specification	#	ISO25/HSKE32	ISO20	None(collet specification:ER20)	ISO20
Tool change method	#	Pneumatic	Pneumatic	Pneumatic	Pneumatic
Tool magazine	T	/	22	/	9
Unprocessed measurement compensation	#	Automatic tool compensation	Automatic tool compensation	Automatic tool compensation	Automatic tool compensation
Air pressure	Mpa	≥0.6	≥0.6	≥0.6	≥0.6
Vacuum suction	Mpa	-0.06	-0.06	-0.06	-0.06
Power requirement	#	three-phase(380V/50Hz)	single-phase(220V/50Hz)	three-phase(380V/50Hz)	three-phase(380V/50Hz)
Total power	kw	10	11.5	5.5	5.5
Max load	kg	200	130	100	100
Machine weight (estimated)	kg	2800	2100	1300	1300
Outline dimensions (length * width * height)	mm	1800X1500X2200	1330x1600x1620	1200×1150×1950	1500×1150×1950

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Configuration of robot

Items Description	MC20-01	MC10-01
Structure	Joint type	
Freedom	6	
Drive mode	AC servo mode	
Max work range	J1	±3.14rad (±180°)
	J2	+1.05~-2.53rad (+60~-145°)
	J3	+4.22~-2.84rad (+242~-163°)
	J4	±3.14rad (±180°)
	J5	±2.42rad (±139°)
	J6	±6.28rad (±360°)
Max speed	J1	2.96rad/s (170°/s)
	J2	2.96rad/s (170°/s)
	J3	2.96rad/s (170°/s)
	J4	6.28rad/s (360°/s)
	J5	6.28rad/s (360°/s)
	J6	10.5rad/s (600°/s)
Afford weight*1	20kg(Max.22kg)	10kg
Distance of wrist torque	J4	49N·m
	J5	49N·m
	J6	23.5N·m
Distance of wrist inertia force*2	J4	1.6kg·m ²
	J5	1.6kg·m ²
	J6	.8kg·m ²
Accuracy of position repeatability*3	±.06mm	
Max use of air pressure	0.49 Mpa (5.0kgf/cm ²) below	
Ambient temperature	0~45°C	
Set condition	Floor style, Hanging type	
Resistant to environment*4	Equivalent to IP65(Dustproof & waterproof)	
Mechine weight	220kg	225kg

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