

US wheeler

Industrial robot + CNC machine + Intelligent factory

HANGZHOU WHEELER GENERAL MACHINERY CO.,LTD

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COMPREHENSIVE PRODUCT CATALOG



US WHEELER

Industrial Robot/CNC Machine
Intelligent Factory



About Us

Hangzhou wheeler general machinery Co., Ltd. is a national high-tech enterprise specializing in CNC machining equipment, automatic machine tool loading and unloading, digital factory, and non-standard fixture design and manufacture. The company was established in January 2015 and is located in Linping District, Hangzhou City. The company has more than 300 employees and an efficient professional technical research and development team, including more than 60 professional and technical personnel with various intermediate and senior technical titles (engineers). With more than 50 patented technologies, it has offices and service outlets in 22 prefecture-level cities in China, as well as professional agency partners and service outlets in Turkey, Russia, Malaysia, Australia and other countries.



Our Quality
System Standards



Wheeler is currently a strategic partner of robotics companies such as KUKA(Germany), ABB(Switzerland), CNC system companies such as Fanuc, Mitsubishi (Japan), Siemens(Germany).

We provide customers with mechanical processing automation technology scheme design, a full set of automation equipment, technical consultation, and perfect after-sales and technical services.

The company's products are widely used in mass production industries such as auto parts processing and construction machinery.



EM SERIES

The EM series vertical machining center is a new generation of CNC machine tools produced by Wheeler with advanced technology. The machine structure is designed to meet the machining requirements of high rigidity, high stability and high precision. The special shield design greatly improves the service life of the machine itself.



+ Humanity Design



Compay Layout

Auxiliary parts such as pneumatic components are arranged directly behind the machine for unified management



Rotary operating panel

Operator panel support rotation from 0° to 60° to improve operating easier and visibility



Rear chips outlet with a water tank as standard

Multi-level filtration of chip collection tank ensures the cleanliness of the recycling water and improve processing efficiency

High-speed ATC tool magazine

The tool changer is driven by a cam motor to minimize the non-cutting time, which supports the tool that will be used in the change command has been rotated to the position while the machine is processing.

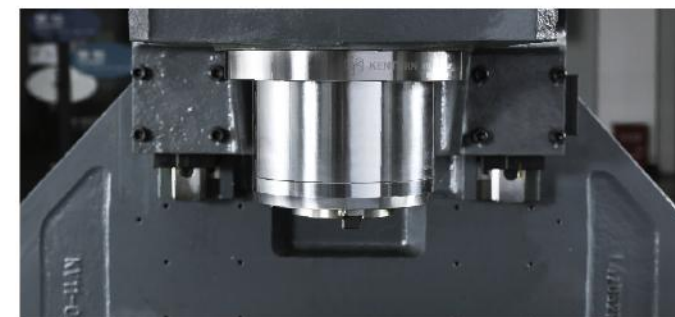
Also, 24 tools (32 tools as optional) capacity to meet different processing demands.

Max. Tool diameter $\phi 150\text{mm}$

Max. Tool length 300mm

Tools capacity: 24T (32T)

Max. Tool weight: 8kg



+ Spinde

The reasonable distance between Spindle and the column takes stable support for the spindle.

An independent cooling system is built into the spindle head, to guarantee the spindle head heat stays within a reasonable range continuously, which reduce the extension of the spindle due to heat increasing, thus ensuring the machining accuracy

8000 r/min
Standard

12000 r/min
Optional



+ Ball Screw

C3 grinded ball screw takes high rigidity, good abrasion resistance, torsional strength for a long service life time.

Mechanical pre-loading of the nut for movement in both directions for anti-backlash ensures the high precision of the machine.

Precision Volumetric type Oiler ensures lubrication effect of the axial feed mechanism



+ Roller Guide Rail

Elastic deformation is low when bearing force.

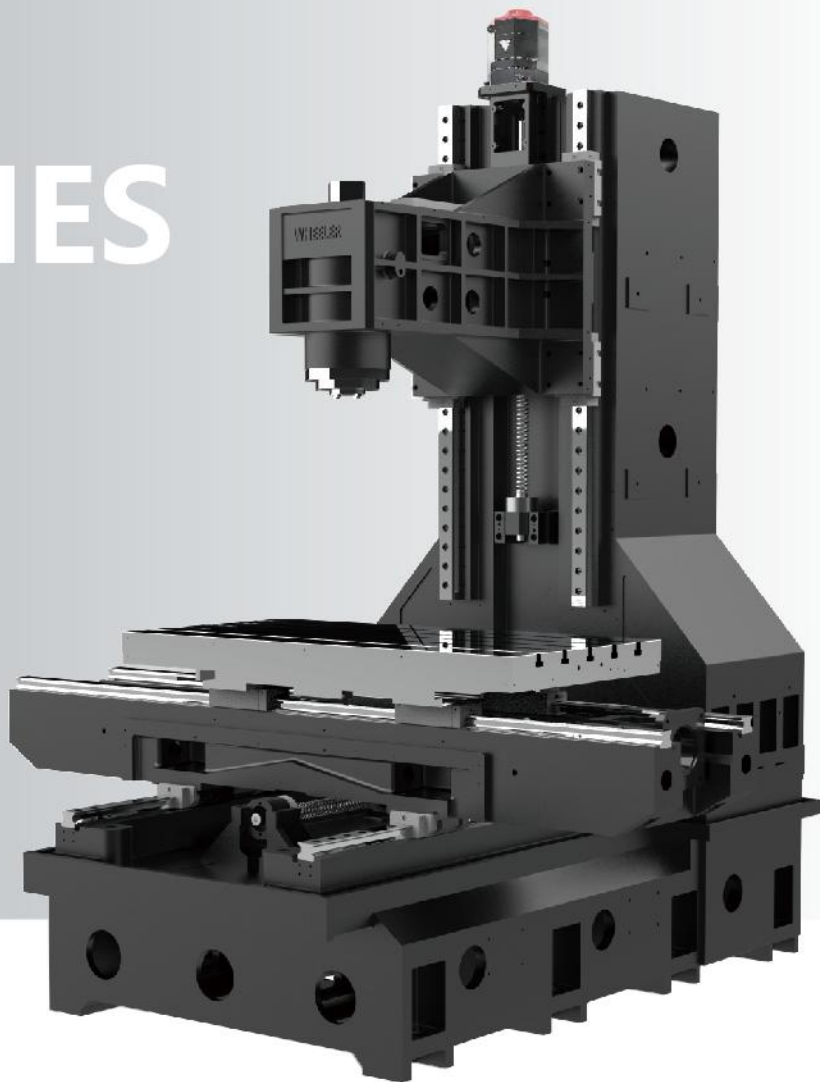
High rigidity is achieved through rollers mounted in the sliding device.

EM SERIES

+ Bear Machine

The entire machine has a solid foundation, which is carried out by mechanical optimization design through advanced simulation and analysis.

High quality hard cast iron improves overall shock absorption and provides high stability and rigidity.



Parameter Specifications

Item	VMC	EM600A	EM800A	EM855A	EM1100A
Trave	X Axis	600mm	800mm	800mm	1100mm
	Y Axis	400mm	500mm	550mm	600mm
	Z Axis	450mm	500mm	550mm	600mm
	Spindle nose to table surface	150-600mm	150-650mm	120-670mm	120-720mm
	Spindle center to Column rail surface	447mm	550mm	595mm	650mm
Worktable	Table Size	700*420mm	1000*500mm	1000*550mm	1200*600mm
	T slot (number*size*spacing)	4*14*84	5*18*90	5*18*90	5*18*100
	Max. Bearing	350kg	500kg	500kg	800kg
	Spindle Speed	50-8000rpm	50-8000rpm	50-8000rpm	50-8000rpm
Spindle	Spindle Drive	Synchronous belt drive	Synchronous belt drive	Synchronous belt drive	Synchronous belt drive
	Spindle motor torque(rate/max.)	35.8/95.5N·m	35.8/95.5N·m	52.5/118N·m	52.5/118N·m
	Spindle Power	7.5/11kW	7.5/11kW	11/15kW	11/15kW
	Rapid speed on X/Y/Z	42/42/48m/min	42/42/48m/min	42/42/42m/min	36/36/36m/min
Servo Axis	Cutting feed speed	1-10000mm/min	1-10000mm/min	1-10000mm/min	1-10000mm/min
	Magazine Form	ATC with 24 Tools	ATC with 24 Tools	ATC with 24 Tools	ATC with 24 Tools {32}
Tool Changer	Tool shank type	BT-40	BT-40	BT-40	BT-40
	Positioning Accuracy	0.01mm	0.01mm	0.01mm	0.01mm
Accuracy (Full Stroke)	Repositioning Accuracy	0.006mm	0.006mm	0.006mm	0.006mm
	Dimension(L*W*H)	2300*1900*2850mm	2500*2350*2900mm	2600*2350*2900mm	2900*2400*3000mm
Others	Weight(Approximate)	4000kg	5000kg	5500kg	6500kg
	CP	25KVA	25KVA	25KVA	30KVA
	System		FANUC 0iMF PLUS{MITSUBISHI}		

Application

Box type parts (mainly applied in machine tool, car and airplane, like engine block, gearbox, spindle box, diesel engine block, gear pump shell, etc.),Complex curved parts (such as cams, integral impellers of engines, propellers, mold cavities, etc.),Special or irregular shaped parts (such as bracket, base, etc. When machining special -shaped components),Board, sleeve and plate parts (like shaft sleeve, plate with many holes, like motor covers), New parts in trial production (with the zoom function can realize machining of parts with the same shape but different sizes, which provides great convenience for a single piece, small-batch, multi-variety production, and new product trial, and greatly shortens the production preparation and trial manufacturing cycle)



Parameter Specifications

EM 1165Z	EM1300A	EM1570	EM1500B
1100mm	1300mm	1500mm	1500mm
650mm	700mm	700mm	800mm
600mm	700mm	700mm	700mm
130-730mm	120-820mm	130-830mm	150-850mm
680mm	770mm	750mm	900mm
1200*600mm	1400*700mm	1600*700mm	1700*800mm
5*18*100	5*18*125	5*18*125	5*18*140
800kg	800kg	1000kg	1200kg
50-6000rpm	50-8000rpm	50-8000rpm	50-6000rpm
Synchronous belt drive	Synchronous belt drive	Synchronous belt drive	Synchronous belt drive
143/236N·m	52.5/118N·m	52.5/118N·m	143/236N·m
15/18.5kW	11/15kW	11/15kW	15/18.5kW
36/36/20m/min	36/36/24m/min	24/24/20m/min	20/20/20m/min
1-10000mm/min	1-8000mm/min	1-8000mm/min	1-10000mm/min
ATC with 24 Tools	ATC with 24 Tools {32}	ATC with 24 Tools {32}	ATC with 24 Tools {32}
BT-50	BT-40 {50}	BT-40	BT-50
0.01mm	0.012mm	0.012mm	0.012mm
0.006mm	0.008mm	0.008mm	0.008mm
3150*2640*3100mm	3400*2600*3850mm	4150*2800*3300mm	4000*3250*3610mm
7500kg	8000kg	9000kg	13300kg
30KVA	30KVA	30KVA	30KVA
		FANUC 0iMF PLUS{MITSUBISHI}	

Parameter Specifications

Item	5 Axis VMC	EU5-700
Trave	X Axis	1150mm
	Y Axis	650mm
	Z Axis	650mm
	C Axis	360 °
	A Axis	-120 °~ +120 °
Worktable	Spindle nose to table surface	100-750mm
	Spindle center to Column rail surface	650mm
	Table Size	φ410mm
	Max. rotary diameter of workpiece	φ720mm
	Center hole diameter	φ70H7mm
	Table Height(To the rail slider surface)	405mm
	Max. Bearing	200kg
Spindle	T slot (number*size*spacing)	14H7mm
	Spindle Speed	10000rpm
	Spindle Drive	Synchronous belt drive
	Spindle motor torque	70Nm
	Spindle Power	11Kw
Servo Axis	Rapid speed on X/Y/Z	36/36/36m/min
	Cutting feed speed	1-10000mm/min
Tool Changer	Magazine Form	Round ATC with 24 Tools
	Tool shank type	BT-40
Accuracy (Full Stroke)	Positioning Accuracy	0.01mm
	Repositioning Accuracy	0.006mm
	Dimension(L*W*H)	2900*2400*2550
Other	Weight(Approximate)	8800kg
	CP	30KVA
	System	SIEMENS/FANUC

DT SERIES

DT series is specially designed to meet the needs of users on the market for high speed, high productivity vertical drilling and tapping center.

The overall layout of the drilling and tapping center is a vertical frame structure, which can withstand the heavy load during processing, and can maintain no vibration and deformation when moving at a high-speed, which is suitable for processing automobiles, motorcycle accessories and small generator accessories

+ ATC time 1.4 seconds without pause

1.4 Seconds

Tool to Tool ATC time

1.9 Seconds

Cutting to Cutting ATC time

BT30 Spindle and efficient servo tool magazine adopted to achieve good ATC performance

+ High output Spindle Motor

Standard	High torque
35Nm	72Nm
Max. torque	Max. torque
5.5kw	7.5kw
Max. Output power	Max. Output power



+ D-D, High precision, High rigidity Spindle head

The spindle at 20,000rpm has the characteristics of small power loss, low vibration, low noise, low temperature rise, etc., ensuring high-precision machining and high-quality rigid tapping

The spindle realizes stepless speed regulation within its speed range to ensure the safety and reliability of the spindle loose clamp, and the spindle is equipped with contactless switch feedback to realize the automatic detection of the tool loose clip.



Application

Auto and motorcycle parts and small generators accessories



+ High-rigidity mechanical structure

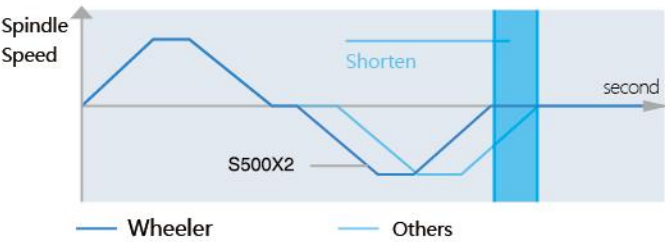
A vertical frame structure is used in the whole layout with a wide and solid base and saddle, with a box structure column, which supports a performance of no vibration, no deformation at a high moving.

+ Quick-reacting servo system

The servo motor reacts quickly, the daily is almost "zero"

The relationship between the servo motor and cutting capabilities is: the use of high-rigidity mechanical structure and high-power spindle motor greatly expands the range of cutting capabilities for high-efficiency machining and heavy cutting.

Tapping Processing Diagram



Parameter Specifications

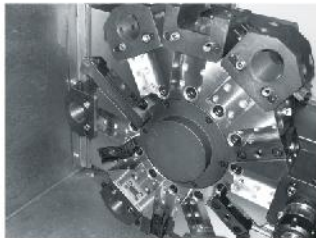
Item	VMC	DT600	DT800	DT1000
Trave	X Axis	600mm	800mm	1000mm
	Y Axis	400mm	500mm	500mm
	Z Axis	330mm	330mm	330mm
	Spindle nose to table surface	150-480mm	160-490mm	155-485mm
	Spindle center to Column rail surface	464mm	546mm	546mm
Worktable	Table Size	700*420mm	1000*500mm	1100*500mm
	T slot (number*size*spacing)	3*14*125mm	5*18*100mm	5*18*100mm
	Max. Bearing	250kg	300kg	350kg
Spindle	Spindle Speed	50-20000rpm	50-20000rpm	50-20000rpm
	Spindle Drive	直联驱动	直联驱动	直联驱动
	Spindle motor torque(rate/max.)	23.6/35 N·m	23.6/35 N·m	23.6/35 N·m
	Spindle Power	3.7/5.5kW	5.5kW	5.5kW
	Rapid speed on X/Y/Z	48/48/48m/min	48/48/48m/min	48/48/48m/min
Servo Axis	Cutting feed speed	1-10000mm/min	1-10000mm/min	1-10000mm/min
	Magazine Form	翻转式伺服刀库16把(21把)	翻转式伺服刀库16把(21把)	翻转式伺服刀库16把(21把)
Tool Changer	Tool shank type	BT-30	BT-30	BT-30
	Positioning Accuracy	0.01mm	0.01mm	0.01mm
Accuracy (Full Stroke)	Repositioning Accuracy	0.006mm	0.006mm	0.006mm
	Dimension(L*W*H)	1760*2320*2240mm	2480*2540*2440mm	2750*2380*2440mm
Others	Weight(Approximate)	2900kg	4000kg	4500kg
	CP	15KVA	15KVA	15KVA
	System		FANUC/MITSUBISHI	

LT SERIES

LT series CNC lathe is a high precision and high efficiency automatic lathe. Equipped with multi-station turreet, it has a wide range of processing performance, it also has various functions such as linear interpolation, which have played a good economic effect in the mass production of complex parts.

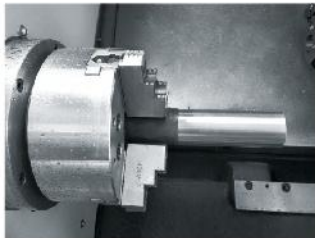


+ Turret



Standard with imported 12-station servo tower, hydraulic locking. Power tower and hydraulic tower are optional.

+ Chuck



Standard 8" aperture (52 mm) hollow hydraulic chuck. Large aperture (66 mm) hollow hydraulic chuck is optional.

+ Manual Hydraulic Tailstock



The heavy-duty tailstock is connected with the bed body through the rectangular guide rail to ensure the rigidity of the tailstock and ensure the stability during processing and the excellent quality of the processed parts.

+ Bed



Adopt inclined 30° structure of bed body and base, with good rigidity, reasonable structure, conducive to chip removal and cooling during processing.

Parameter Specifications

	Item	LT-210	LT-210M	LT-300	LT-300M
Capacity	Swing over bed	510mm	510mm	560mm	560mm
	Max. cutting Diameter	250mm	235mm	460mm	400mm
	Recommend cutting Diameter	210mm	210mm	260mm	260mm
	Max. cutting Length	500mm	450mm	640mm	550mm
	Bar Capacity	51mm	44mm	74mm	74mm
	Spindle center to ground	1050mm	1050mm	1050mm	1050mm
Stroke	X Axis	175mm	175mm	260mm	220mm
	Z Aixs	510mm	480mm	680mm	600mm
Spindle	Speed	4500rpm	5000rpm	3000rpm	3000rpm
	Taper	A2-6	-	A2-8	-
	Motor Power	11kW	15kW	15/18.5kW	15/18.5kW
	Spindle Bore	66mm	-	91	-
Feedrate	Rapids on X/Z Axis	30/24m/min	30/24m/min	30/24m/min	30/24m/min
	Cutting Feedrate	1-10000mm/min	1-10000mm/min	1-10000mm/min	1-10000mm/min
	NO. of tools	12 Station Bot	12 Station Bot	12 Station Bot	12 Station Bot
Turret	Boring Bar Diameter	40mm	25mm	50mm	32mm
	Turret Type	Servo Turret + Hydraulic Lock	Power Turret + Hydraulic Lock	Servo Turret + Hydraulic Lock	Power Turret + Hydraulic Lock
Tailstock	Tailstock Type	Programmable Servo Tailstock			
	Tailstock sleeve taper	MT-4	-	MT-5	-
Accuracy (Full Stroke)	Positioning Accuracy	0.01mm	0.01mm	0.01mm	0.01mm
	Repositionong Accuracy	0.006mm	0.006mm	0.006mm	0.006mm
	Dimensions(L*W*H)	2570*2300*1750mm	2600*1630*1750mm	3010*2500*1900mm	3185*1630*1800mm
Others	Weight	3600kg	4000kg	4700kg	5000kg
	System	SIEMENS 828D (FANUC 0iTF)			

* () is optional

LM SERIES

LM series VMC is a high-tech intensive product with high-quality, high-precision, high-performance designed and manufactured by WHEELER according to user requirements. The machine tool is novel in design, the overall structure looks nice and generous with stable precision, reliable performance, convenient and flexible operation.

The Z-axis adopts nitrogen oil pressure counterweight to ensure accurate and reliable balance.

The X/Y axis adopts roller slides, and the Z axis adopts roller slides or hard rails, and the load carrying capacity is greatly increased

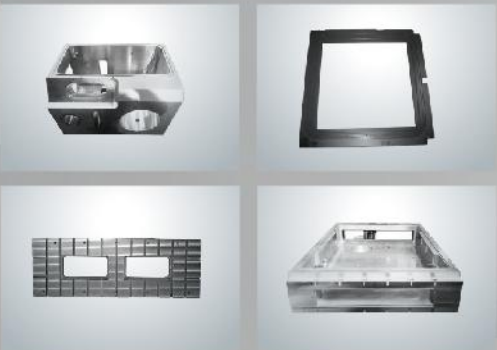
The worktable is featured with full-stroke support, average load, minimum wear, and is not easy to deform.

The beam rail adopts a non-synchronized and wide box-structure sliding seat, which greatly improves the Y-axis rigidity and improves the cutting ability.

The large contact area of the beam effectively avoids the vibration during processing.

The machine is equipped with a volumetric lubricating system. The timing and quantitative automatic centralized oil supply ensure machine parts are fully lubricated.

Application



This series of machine tools have strong rigidity, flexible and convenient operation, and is suitable for the processing of large sheet metal parts, box parts, and molds. It can complete milling, boring, drilling (drilling, expanding, reaming), tapping, countersinking and other multi-processes once the parts is clamped. It can be used in automotive industry, construction industry, aerospace industry, home appliance mold and other industry.



+ Y axis

The Y-axis adopts linear guide rails, with no crawling phenomenon at low speed. The guide rails are designed with a stepped structure, which not only ensures the rigidity of the gantry frame, but also reduces the tilting moment of the sliding saddle and ram.



+ Roller Slider

The use of roller sliders greatly increases the loading capacity and strengthens the positional/re-positional accuracy and rigidity of the machine tool.



+ Double Column

The machine has hefty bearing body structure and huge column beam structure support (reinforced the bottom rail support), the head ribs are arranged intact, and the whole machine has good rigidity, which can realize heavy cutting of large workpieces and molds.



+ Z axis

The Z axis adopts nitrogen oil pressure counterweight, and the balance quality is accurate and reliable.



+ Machine Bed

The bed adopts a low center of gravity, which effectively reduces the gravity of the machine, and further enhances the stability when the machine is processing at high speed. High-strength column and the low gravity bed form the foundation of high-performance.

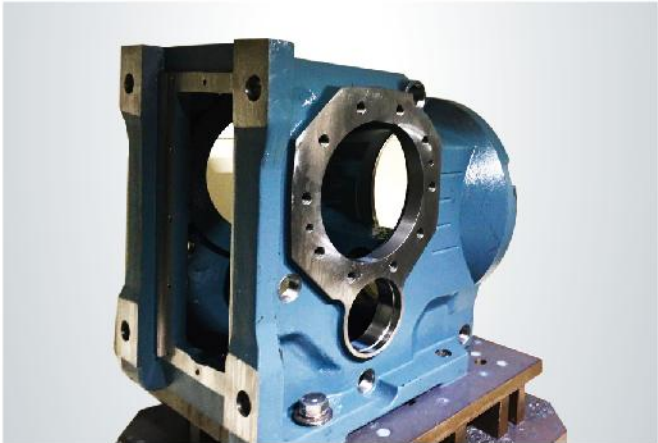
Parameter Specifications

	Item	LM-1210L	LM-1613L	LM-2015(hard rail)	LM-2518(hard rail)	LM-3018(hard rail)	LM-3025(hard rail)
Stroke	X axis	1200mm	1600mm	2000mm	2500mm	3000mm	3000mm
	Y axis	1000mm	1300mm	1500mm	1800mm	1800mm	2900mm
	Z axis	500mm	600mm	800mm	800mm	800mm	1000mm
	Spindle nose to worktable	200-700mm	200-800mm	170-970mm	180-980mm	180-980mm	300-1300mm
	Spindle center to column	1050mm	1400mm	1500mm	1850mm	1850mm	2550mm
Worktable	Worktable Size	1300*900mm	1700*1200mm	2100*1200mm	2700*1500mm	3200*1500mm	3100*2100mm
	T - slot	5*18*165	7*22*150	7*22*150	10*22*150	10*22*150	11*22*180
	Bearing	2000kg	3000kg	4000kg	8000kg	8000kg	10000kg
Spindle	Speed	50-10000rpm	50-12000rpm	50-6000rpm	50-6000rpm	50-6000rpm	50-6000rpm
	Drive	D-D	D-D	Synchronous Belt	Synchronous Belt	Synchronous Belt	Synchronous Belt
	Motor Torque	52.5/118N·m	52.5/118N·m	143/236N·m	143/236N·m	143/236N·m	143/236N·m
	Motor Power	11/15kW	11/15kW	15/18.5kW	15/18.5kW	15/18.5kW	15/18.5kW
Feedrate	Rapids on X/Y/Z axis	20/20/20m/min	18/18/18m/min	18/18/15m/min	15/15/15m/min	8/10/10m/min	8/10/10m/min
	Cutting Feedrate	1-10000mm/min	1-10000mm/min	1-10000mm/min	1-10000mm/min	1-10000mm/min	1-10000mm/min
ATC	ATC Type	ATC (Optional)					
	Tool Shank	BT-40	BT-40	BT-50	BT-50	BT-50	BT-50
Accuracy (Full Stroke)	Positioning Accuracy	0.01mm	0.012mm	0.015mm	0.018mm	0.018mm	0.018mm
	Repositioning Accuracy	0.006mm	0.008mm	0.012mm	0.012mm	0.012mm	0.012mm
Others	Dimension (L*W*H) (contain footplate)	3050*2100*2700mm	4450*4024*3200mm	5400*4325*4350mm	7120*4750*4510mm	8600*4850*4675mm	8300*5125*5500mm
	Weight (approximately)	9200kg	13500kg	19000kg	24000kg	24000kg	39000kg
	System	FANUC-0iMF{MITSUBISHI}					

HM SERIES

Horizontal Machining Center

The HM series machining center has a high-rigidity roller guide, integrated with international advanced design concepts: inverted T-shaped bed, hanging box layout, the three-axis high-rigidity roller guide realizes the perfect fusion of high-precision and high-efficiency processing, and is especially suitable for the face milling of the hole type in box parts. It is widely used in automotive, aerospace, rail transportation, petroleum valves, plastic machinery, mining machinery, general machinery, and other mechanical processing fields.



+ High speed and High efficiency

High-speed machining of aluminum parts.
The positioning time is shortened by high acceleration and high deceleration axis feedrate, through high-speed B-axis rotation (table rotation), high-speed ATC, and high-speed drilling, HM series VMC is one of the world's mainstream machine tools, which greatly reducing the processing cycle.

Aluminum casting processing time is 34% shorter than traditional machine tools

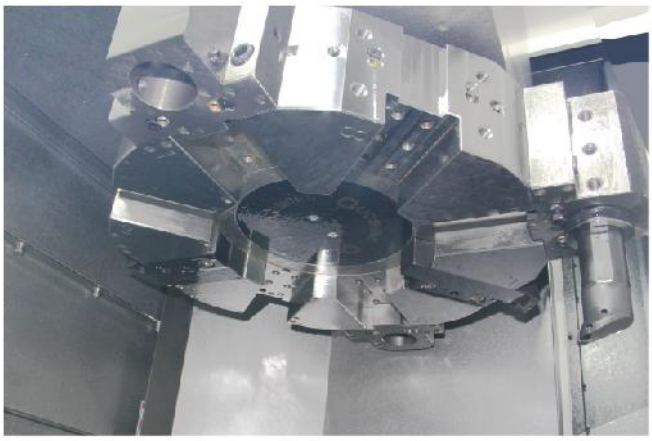
Parameter Specifications

	Item	HS 5000	HM 6300	HM 8000
Stroke	X axis	1100mm	1050mm	1100mm
	Y axis	600mm	750mm	850mm
	Z axis	600mm	900mm	900mm
	Spindle nose to worktable	180-780mm	130-1030mm	180-1080mm
Worktable	Worktable Size	500*500mm	630*700mm	800*800mm
	T - slot	5*18*100	5*22*125	5*22*160
	Bearing	350kg	950kg	1500kg
	Speed	50-10000rpm	50-6000rpm	50-6000rpm
Spindle	Drive	D-D	Synchronous Belt	Synchronous Belt
	Motor Torque	96N·m	191N·m	191N·m
	Motor Power	11/15kW	15/18.5kW	15/18.5kW
Feedrate	Rapids on X/Y/Z Axis	36/36/36m/min	24/24/24m/min	24/24/24m/min
	Cutting Feedrate	1-10000mm/min	1-10000mm/min	1-10000mm/min
ATC	ATC Type	ATC 24-Tools	ATC 30-Tools	ATC 30-Tools
	Tool Shank	BT-40	BT-50	BT-50
Accuracy (Full Stroke)	Positioning Accuracy	0.01mm	0.012mm	0.012mm
	Repositioning Accuracy	0.006mm	0.008mm	0.008mm
	Dimensions (L*W*H)	2680*2950*2850mm	5025*3710*2880mm	5245*4050*3100mm
Others	Weight (approximately)	7500kg	12000kg	14000kg
	System	FANUC 0i-MF/MITSUBISHI		

LV500

Vertical Lathe

Vertical lathes are mainly used for the processing of large and medium-sized processed parts. High rigidity, high precision, high processing efficiency are its main characteristics. Suitable for processing products are brake drums, brake discs, wheel bodies, transmission wheels, wheel hubs, transmission gears, card rings, pulleys, etc. in automotive, power generation, shipbuilding, metallurgy, mining and other industries.



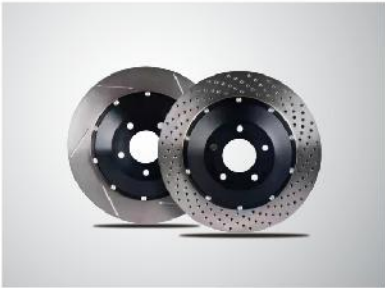
+ Chuck

+ Turret

- Casting:** Gb300 high-grade resin sand casting is adopted, After tempering treatment and vibration natural aging treatment to eliminates internal stress
- Structure:** Complete processing of the spindle box surface, the bed mounting surface, and the spindle motor mounting surface one at a time, to warrant better accuracy, high rigidity, and stable processing.
- Spindle:** Integrated spindle box and base to provides higher rigidity.Bearings imported from Japan to provides better accuracy and life
- Linear guide rail:** Roller linear guide rail to withstand higher cutting forces
- Bed:** The lathe bed is wider and the Z-axis rail spans larger for better shock resistance

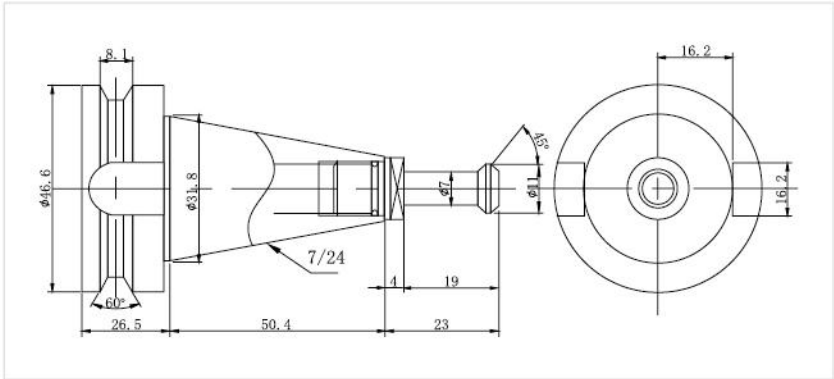
Parameter Specifications

	Item	LV500
Processing capacity	Max. Swing D. of bed	650mm
	Max. Turning D.	550mm
	Max. Turning Length	465mm
Spindle	Power	15/18.5 kW
	Torque (rate/max.)	143/236 N·m
	Speed	2000rpm
	Chuck Size	12 inch
Servo Axis	X / Z Rapid Speed	30/36 m/min
	X / Z Torque	12/22 N·m
	Feed Speed	1-10000 mm/min
Travel	X Axis	310mm
	Z Aixs	500mm
Turret	Capacity	8
	Turret Type	Hydraulic Turret
	Max. diameter of boring bar	40mm
Accuracy (Full Stroke)	Positioning Accuracy	0.01mm
	Repositioning Accuracy	0.006mm
Others	Dimensions (L*W*H)	1650*3060*2900mm
	Weight (approximately)	6100Kg
	System	FANUC-0iTF PLUS

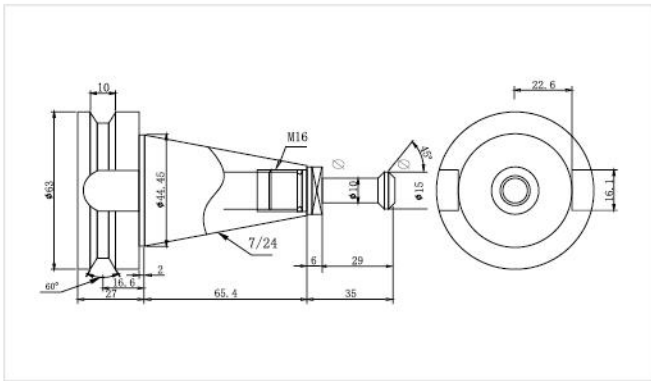


Tool Holder Type Diagram

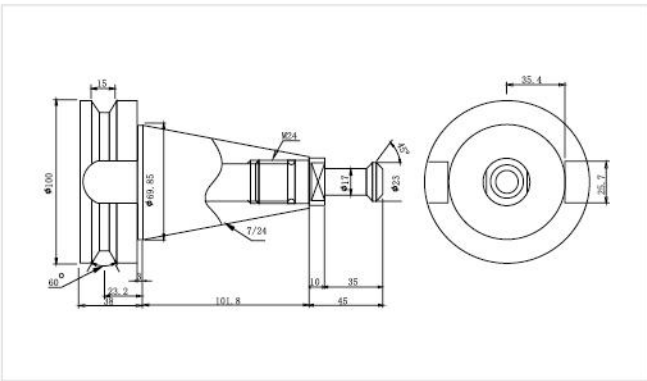
BT30



BT40



BT50



Four-axis Hydraulic Fixture



Hydraulic Fixture & Pneumatic Fixture



Optional Configuration

Provide customers with Fanuc, Siemens, MITSUBISHI and other mainstream systems, as well as various optional equipment with different functions. You can choose freely according to production needs and usage habits.



4/5 axis turntable



CTS with filter tank



Linear Scale (Grating ruler)



Tool Setter



Workpiece probe



Chip Conveyor



Hydraulic station



Oil and Mist collector



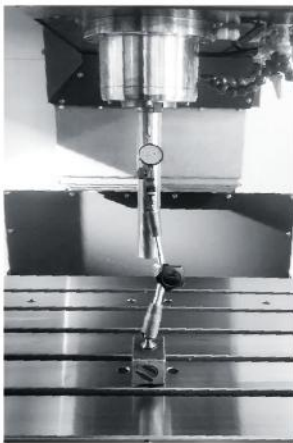
D-D Spindle with 12000 RPM

Quality Control

100% full inspection for each machine before shipment



Laser detection



Circular inspection



Spindle deflection detection



Maximum torque cutting



Robot Autmation Production Line I

Product: Automotive wheels

The automation unit covers an area of about 270 square meters, with an annual output of about 800,000 pieces (with single production line,three shifts), only need to arrange a worker to load and unload materials regularly and conduct daily inspections. The system uses 14 devices (machining center, robot loading and unloading, automatic coding, online monitoring and automatic cleaning)



Robot Automation Production Line II

Product: High-end lock

The production line is a multi-functional and compound production line with a group of ground rail robots to complete the loading and unloading of seven machine tools. In addition, it is equipped with vision, truss, sampling inspection, online monitoring,AGV docking bin and other equipment.



Robot automation production line III

Product: Automobile differential housing device

Automatic processing line configuration: vertical machining center, vertical lathe, loading line, unloading line, cleaning machine, angular positioning, sampling table, laser marking, online detection, inversion and protection device.



Product: Bellows body

The automatic production by 1 robot to complete the loading and unloading of three machine tools, the loading and unloading bin using positioning car, the middle contains fine positioning table and reverse rotary table.

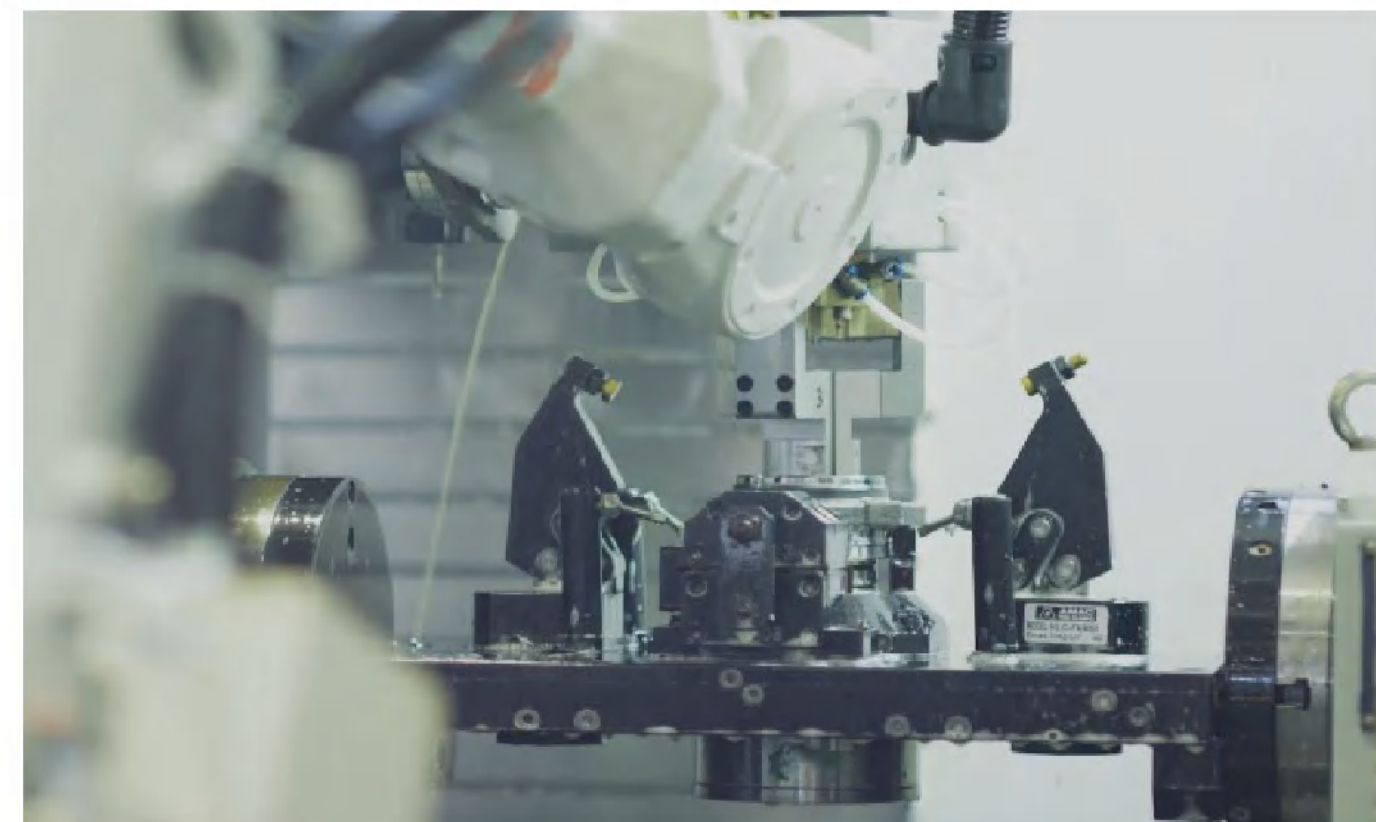
Robot Line I



Product: Piston

The production line is composed of three robot units, each unit is equipped with two machine tools, a bin and a sampling platform.

Robot Line II



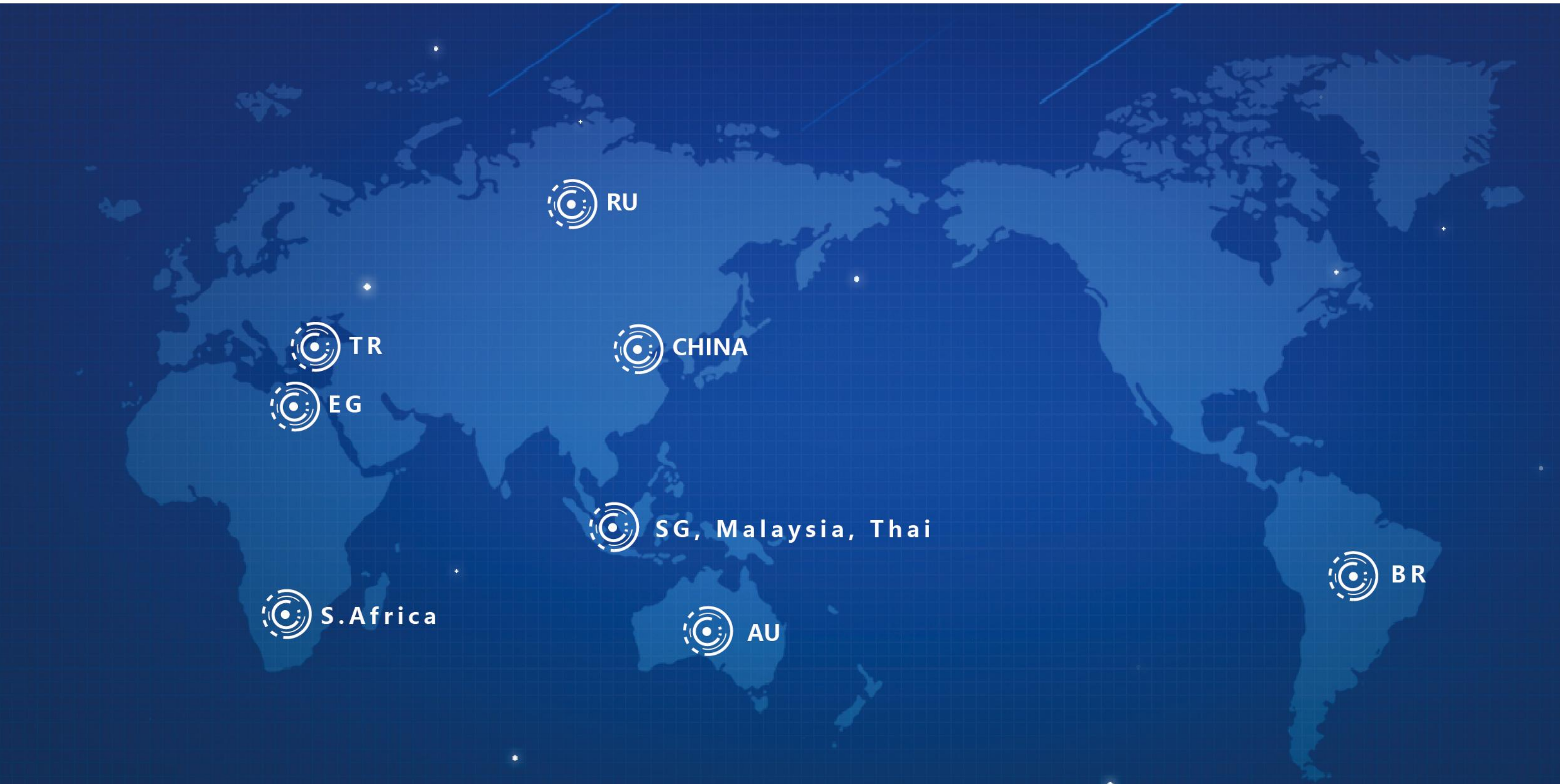
Product: Automotive wheels hub

A robot is used to load and unload with 3 machine tools. The automation unit includes three vertical machine centers, one robot, one set of loading bin, one set of feeding conveyor, one set of visual positioning system and safety protection device. This automation unit realizes one set of grasping, positioning and clamping system using six kinds of workpieces for automatic processing, which reached flexible manufacturing and improves the enterprise's economic efficiency and profitability.

Robot Automation Production Line III



Sales and after-sales outlets



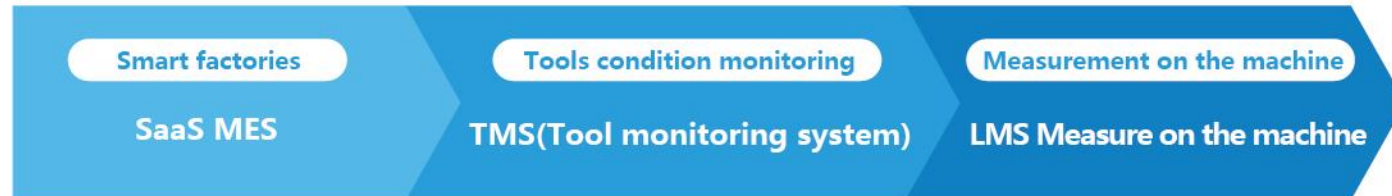
About Wheelink

Wheelink is founded in July 2021, as an industrial Internet platform company incubated by Wheeler.

The company is committed to providing users with SaaS MES, digital factory, Measurement on the machine, tool monitoring, spindle failure prediction and other digital intelligent products.

It aims to help enterprise customers solve the problems of difficult production management, high tool cost and high processing defective product rate.

Product Groups



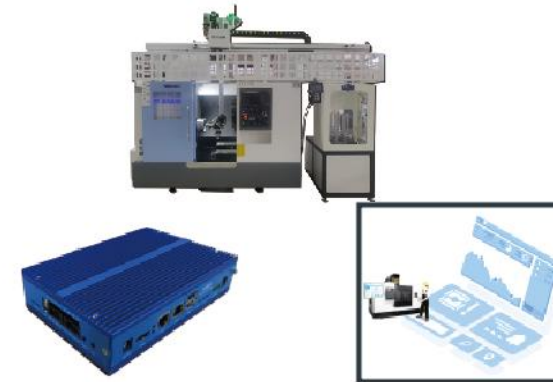
Board management templates

The key indicators are automatically counted and presented in real time, which can monitor the key information such as equipment running status, equipment alarm, and operation rate, and drive the production and operation of enterprises



70% increase in operational efficiency

SaaS MES



- The machine tool is networked at the factory, and function to achieve equipment monitoring, program management, output statistics and report to work, quality management and other functions.
- Supports more than 99% of mainstream CNC systems and more than **95%** PLC
- Data acquisition efficiency increased by **99%**

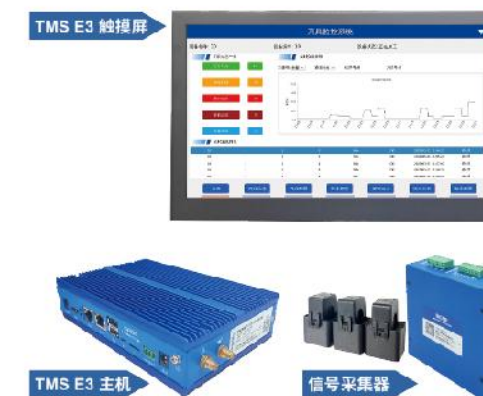
Improve efficiency, reduce costs

- Automatic setting of workpiece reference in batch production**
 - Reduce production auxiliary operation time and increase production capacity
 - Increase automation
 - Reduce labor costs
- Workpiece accuracy control during production**
 - Updates the machining coordinate system tool offset based on the actual margin
 - Improved workpiece accuracy
 - Reduced rework, scrap
- Geometric tolerance workpieces, measurement of surface features**
 - Quickly measure geometric and positional features such as inner and outer aperture, rectangle, position, parallelism, flatness, symmetry, coaxiality and so on of the workpiece
 - Measure workpiece surface features

LMS



TMS



- Broken tool detection**: When the broken tool is found to be abnormal, it can control the machine tool to stop working, and the accuracy rate is **100%**.
- chipping edge detection**: Real-time detection of tool chipping abnormal situation, accuracy rate is **100%**
- wear detection**: Real-time detection of spindle load current, reaction of tool wear, calculation of tool life, accuracy rate is **99%**

**The total end of tool monitoring
=
real-time monitoring + life prediction**