

OID®

CNC MACHINE SERIES

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OID MECHANICAL PARTS



FIVE-AXIS MACHINING CENTER

Five-axis machining center DY630-5A



DY630-5A five-axis vertical machining center adopts stable C-type structure, standard high-speed electric spindle, direct drive CNC rotary table and servo tool magazine, which can realize high-speed and high-precision machining of complex parts. Widely used in the manufacture of new energy automotive motors, gearboxes, engines, molds, robots, medical devices and other products.

1. Electric spindle: BT40/HSKA63 Speed 12000/18000rpm Torque 70N.m
2. BC axis: double direct drive CNC turntable Maximum load 500KG
3. CNC system: Siemens SINUMERIK 840D (five-axis linkage) / 828D (four-axis linkage)
4. BT40/HSKA63 electric spindle, high precision, high power density, high dynamic response, greatly improve processing efficiency and machining accuracy, reduce machine noise and vibration.
5. BC double-axis direct drive CNC rotary table, built-in high torque torque motor, high precision, high dynamic response, greatly improving machine performance and application range.
6. Hydraulic tool change technology realizes coordinated control of servo tool magazine and servo hydraulic station, and the fastest tool change time can reach 1.2s.
7. Equipped with precision high-speed screw and roller guide to ensure the rigidity and precision of the machine.
8. SINUMERIK 840 Dsl's powerful hardware architecture and intelligent control algorithms help to achieve high dynamic performance and precision with excellent drive and motor technology.



The following are optional machine configurations.

1. Work piece inspection
2. Tool inspection
3. Programming workstation
4. HSKA63 spindle
5. Spindle center outlet
6. Magnetic chip conveyor

Total equipment power: 45kW.

Five-axis machining center DY630-5A

Advantages of five-axis machining

1. The tool can process the Work piece in any position;
2. Can avoid the phenomenon that the cutting speed is zero;
3. Can make the machining tool as short as possible;
4. Can reduce the number of Work piece clamping times;
5. Can process complex parts that were previously only available through casting methods;
6. Improve surface processing quality and shorten processing time;
7. Can avoid the phenomenon that the cutting speed is zero;
8. Can make the machining tool as short as possible;
9. Can reduce the number of Work piece clamping times;
10. Improve surface processing quality and shorten processing time;
11. Reduce the discharge area and reduce the mold polishing;

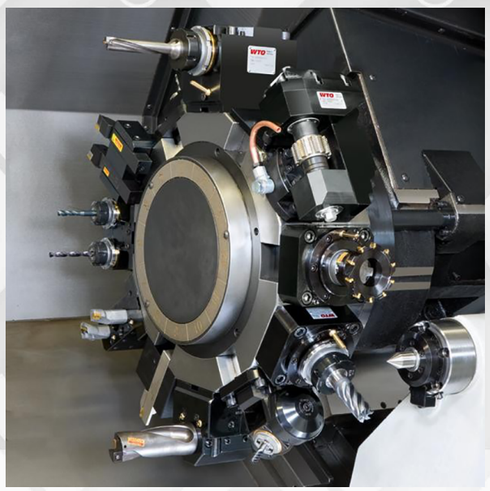
Item	Name		Unit	DY630-5A
Workbench	Table diameter		mm	ϕ630
	Allow maximum horizontal load		kg	500
Processing range	Allow maximum vertical load			300
	T-slot (number of slots × slot width)		mm	8×14H8
	B axis swing angle		º	-35°～ +110°
	X-axis maximum stroke		mm	600
	Y axis maximum stroke		mm	450
	Z axis maximum stroke		mm	400
Spindle	Spindle end to work surface distance	Maximum	mm	550
		Minimum	mm	150
	Cone hole (7:24)			BT40
	Rated speed		rpm	3000
	Maximum speed			12000
	Electric spindle output torque (S1/S3)		N.m	70/95
	Electric spindle output power (S1/S3)		kW	11/15
Axis	Fast-moving	X axis	m/min	36
		Y axis		36
		Z axis		36
	Turntable maximum speed	B axis	rpm	80
		C axis		80
	Feed motor power (X/Y/Z)		kW	2.3/2.3/2.3
Tool magazine	Tool magazine form			Disc
	Tool selection			Two-way selection knife
	Tool magazine capacity		Amount	24
	Maximum tool length		mm	300
	Maximum tool weight		kg	8
	Maximum cutter diameter	Full knife	mm	ϕ80
		Adjacent empty knife	mm	ϕ120
	Tool change time		s	1.8
Tool	Tool holder model			MAS403 BT40
	Pull nail model			MAS403 BT40 -1
Precision	Executive standard			ISO10791-4
	positioning accuracy	X axis / Y axis / Z axis	mm	±0.005/±0.005/±0.005
		B axis / C axis		±5"/±5"
	Repeatability	X axis / Y axis / Z axis	mm	±0.004/±0.004/±0.004
		B axis / C axis		±3"/±3"
Machine weight			kg	6000
Machine tool size		(length × width × height) mm	cm	2400×3500×2850

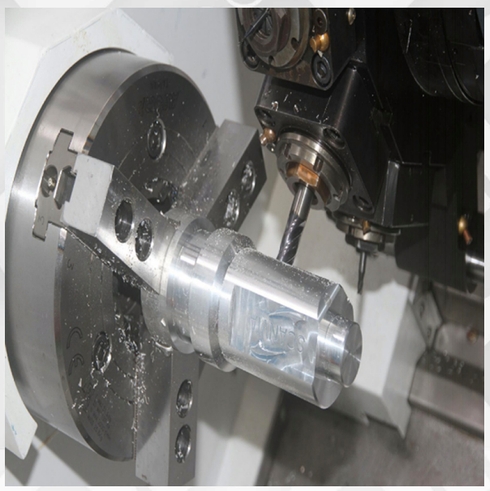


TURNING AND MILLING MACHINES

Turning and milling series DSD-T42







The super large column is stable and not deformed.
Super large span base, 6-point support structure is solid, high-speed displacement, no vibration, no deformation. Ensure that the machine just takes up 1G
The above acceleration.
Eight-axis linkage high-speed displacement up to X1 axis 30M/min, Y1 axis 10M/min, Z1 axis 30M/min, X2 axis 30M/min, Z2 axis
0 m/min, Z3 axis 30M/min, C1/C2 speed, saving processing time.
Low inertia spindle design, high stability, servo turret tool change is fast and accurate, the tool change time is 0.5 seconds, which is very suitable for batch

Spindle technical parameters:

Main chuck size (standard) A2-5 Φ170mm (6-inch chuck)
Main turret form BMT55 (any 12-position installed power knife or no power)
Spindle through hole diameter Φ42mm
Tool holder form (international standard)
The number of knives on the turret body can be 12pcs
Spindle maximum turning diameter Φ170mm
Processing diameter Φ170mm
Standard processing diameter Φ150mm
Processing length 470mm
X-axis stroke 150mm
Z axis travel 470mm
Y-axis travel + - 45mm
Swing maximum speed 5000RPM

Small parts processing. Performance and structure description:

Bed body: adopting honeycomb rib structure to improve the vibration absorption effect, the whole casting is designed with 40 degree inclined box body, and the inside of the casting is ribbed. Bone strengthening, high-strength bending resistance, high-grade Meehan casting material, tempering to eliminate internal stress, ensuring the most. Excellent rigidity and durability, high rigidity structure is derived from years of experience data accumulation and rationalization mechanism slenderness design to improve castings. Resistance to compression and side bending.

Spindle: An angular contact bearing is used to ensure the cutting force is strong and smooth over the entire speed range. Configure 22kW AC servo. The motor is used, and the belt is driven with the main shaft to maximize the performance of the motor and the maximum torque.

Roller screw: THK large-diameter roller screw and servo motor are selected and pre-stretched to eliminate the influence of thermal expansion. The lead screw is automatically lubricated by a central lubrication system to maintain accuracy throughout the operation.

Guide rails: all use THK high-precision, super-heavy load linear guide rails, unique two-sided restraint structure, high rigidity, and fast shift. The movement provides a guarantee, and the Y-axis adopts the structure of the character name, which makes the machine tool have excellent stability and rigidity.

Servo-powered turret: equipped with 12 BMT-type tools, with the same tool change time (only 0.5s). Any two-way selection. Knife and automatically provide the nearest path for the next tool change, reducing non-cutting time.

Rail full protection: the machine is fully enclosed; tightly sealed, no leakage

Sub-spindle technical parameters

Chuck diameter (standard) A2-4 Φ150mm (5 inch chuck)
Spindle through hole diameter Φ30mm
X-axis stroke 150mm
Z axis travel 470mm
Swing maximum speed 5000RPM
The outer surface of the main shaft has a radial runout ≤0.0015mm
Repeat positioning accuracy ≤0.003 mm
Spindle motor drive method Continuously variable speed (5M toothed belt)
Collet chuck
X1 axis fast moving 30m/min
Z1 axis moves quickly 30m/min
Y1 axis fast moving 20m/min
X2 axis fast moving 30m/min
Z2 axis fast moving 30m/min
Z3 axis fast moving 30m/min
Spindle motor power AC11kw
Sub-spindle motor power AC7.5kw
X1/Z1/Y1/X2/Z2/Z3 motor AC3.0 kw/ 3.0kw /2.2kw/3.0kw/3.0kw/2.2kw
total electrical capacity 35KVA
Machine size 4000*2400*2100mm (including chip conveyor)
Machine weight 6200kg

Turning and milling series TMC-XL46



X, Z, Y three-axis travel: 200 × 400 × 360mm
The spindle transmission mode is the belt type maximum speed 5000pm (unit spindle)
The power head standard is vertical 1 * 4 horizontal 1 * 4 to meet the needs of customers radial drilling and milling.
The column is a dynamic triaxial beam structure to prevent deformation of the pallet caused by long-term unbalanced force of the power head, and the overall bed body is very good. Internal rib reinforcement, Z-axis span 400MM, high rigidity
The internal protection is durable with a single piece, the spindle is close to the front and easy to change the knife.
Spindle indexing adopts non-mechanical contact double feedback touch sensing indexing, high resolution and fast response, and high-speed rotation high-speed indexing positioning and milling rigidity with hydraulic locking.
The electrical box is separated and designed in isolation, and the heat source part of the controller is separated to prevent external dust from entering the electric box; the rear side uses a fan to dissipate heat from the fan hot plate.
The high-precision ball screw is used for the three-axis to ensure that the backlash and thermal deformation of the machine are kept at a low value for a long time.
The fast moving speed of the roller shaft of the B-axis is 21m/min, and the three-axis chip feeding 8/8/8 (m/min provides high-speed stable cutting feed.
X, Y axis also uses roller line rail, with high rigidity, low noise, low friction, can do fast displacement and get the best cycle accuracy.
All finished products have been corrected and rounded. To ensure the best positioning accuracy and servo characteristics. And the machine tool undergoes strict inspection measures before stocking, ensuring that the precision of the machine is stable for a long time.
The inner part of the hydraulic tailstock is made of inlaid copper sleeve structure. After the wear is worn, the maintenance is convenient. The double pressure plate M22 screws are locked, the precision is high, and the rigidity is good.

Turning and milling series TMC-XL46

Name	Unit value
Maximum turning diameter on the bed	Φ 360mm
Maximum turning diameter on the skateboard	Φ 120mm
Maximum processing length	380mm
Spindle through hole diameter	Φ46mm
Maximum bar diameter	Φ40mm
Spindle nose	A2-5
Maximum spindle speed	5000ipm (spindle unit)
Spindle positioning	±0.01°
Clamping method	Hydraulic (646 rotary cylinder)
Collet type	HL-42A5 (taper 45°)
Tool holder form	Row of knives (outer circle 5, inner hole 4)
Tool size	20X20X100mm
Power Head	4 in the radial direction and 4 in the axial direction
Power head motor	Servo 1.3kW
Power head maximum speed	3000rpm/min
Power head chuck	ER20
Power head maximum drilling and milling diameter	Φ10mm
Power head maximum tapping diameter	M8
X/z/Y maximum stroke	200X400X360
X/Z/Y fast moving	18000mmX21000mmX18000mm/min
X/Z/Y axis motor	1.38KW(130)
X/Z/Y axis repeat positioning	0.005mm
Main motor	5.5kw
Machine size	2050X1600X1860 (excluding warning lights and foot pads)
Machine weight	3500kg

Temperature operating temperature: normal temperature 20 ± 20 ° C
Storage and transportation: -30 ° C ~ 50 ° C
Maximum change ratio: within 10 ° C / hour

Humidity

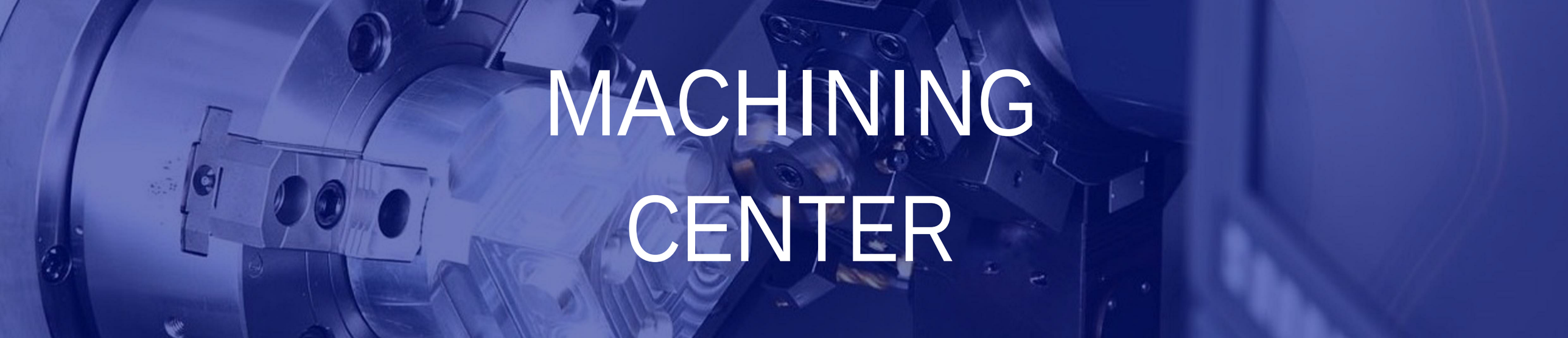
Continuous: 75% or less (no condensation) Short time: 95% or less (no condensation)

Installation site conditions

(1) Not affected by external vibration.
(2) Not affected by corrosive gases.
(3) Avoid direct sunlight on the machine.
(4) Avoid direct contact with outside wind, air and temperature regulation of cold and hot air
(5) Avoid setting heat sources such as heating near the machine.
(6) Reduce dust (avoid castings, welding, sheet metal workshops, etc.).
(7) Avoid water leakage and water immersion.

Power supply: 3 phase 380V ± 10%; 50Hz ± 1Hz





MACHINING CENTER

Machining Center 850



Standard accessories:	Optional:
1. Resin sand casting (X/Y axis rail. Z-axis hard rail)	1. Disc type tool magazine (Taiwan)
2. ball screw. wire rail (Taiwan Shangyin / Yintai)	2. Fighting knife magazine (Taiwan)
3. BT40 spindle 8000 rpm (Taiwan Pusen / Luo Yi / Tanjung)	3. Spindle oil cooling (WHO)
4. Knife cylinder (Taiwan still goods)	4. Chip conveyor
5. Spindle synchronous pulley timing belt (Taiwan)	5. The fourth axis (Taiwan Tanjia)
6. Bearings (Only InDustry EXTRA Japan or NSK)	
7. X. Y. Z axis stainless steel protective cover	
8. Japan's Mitsubishi M80 system	
9. Three-axis Mitsubishi original servo motor	
10. Host electrical appliances (Schneider. Germany)	
11. Processing air blowing device (Taiwan Ya Deke)	
12. Processing oil flushing device (Taiwan Zhangtie)	
13. Electric lubrication system (Sino-Japanese joint venture valley)	
14. Fully enclosed cover	
15. Electric box heat exchanger (EA-05N)	
16. Adjust the horn + screws. tools. file boxes	
17. LED long life work light 1	

Moving trip

X axis (table left and right stroke) stroke: 800 mm

Y axis (table front and rear stroke) stroke: 500 mm

Z axis (spindle head up and down stroke) stroke: 530 mm

Spindle center to column guide distance: 550 mm

Main shaft nose to work station Distance: 126-656mm

Specifications

Workbench size: 500×1050mm

T-slot number: 5

T-slot width: 18mm

Worktable maximum load: 600kg

Spindle speed series: inorganic speed regulation

Spindle speed range: 60~8000rpm

Main shaft Cone hole: BT40-Ø150

Machining Center 855L



Specifications / models	Unit	CNC855L
Processing range		
X-axis travel (left and right)	mm	800
Y-axis travel (front and rear)	mm	550
Z-axis travel (upper and lower)	mm	550
Spindle nose to work surface distance	mm	120-670
Spindle center to column track surface distance	mm	595
Workbench specifications		
Workbench size (X-axis direction)	mm	1000
Workbench size (Y-axis direction)	mm	550
Workbench maximum load	kg	500
Spindle specification		
Spindle speed (belt type)	rpm	8000
Main shaft recommended horsepower	kW	7,5
Spindle bore taper		BT40
Feed system		
G00 rapid feed (X/Y/Z axis)	m/min	48/48/48
G01 cutting feed	mm/min	1-10000
Servo motor specifications	kW	2 X 2 X 3
Tool magazine system		
Tool magazine capacity	pcs	Knife arm type 24
Machine size		
Machine length	mm	2400
Machine width	mm	2050
Machine height	mm	2250
Machine weight	kg	5260

Product name	Place of origin	Manufacturer
Spindle	Taiwan	Jian Wei / Luo Wei
X-axis ball screw	Taiwan	PMI
Y-axis ball screw	Taiwan	PMI
Z-axis ball screw	Taiwan	PMI
Triaxial bearing	Japan, Germany	OID/NTN/FAG
X-track	Taiwan, Germany	Rexroth, INA (ball), PMI (roller)
Y line rail	Taiwan, Germany	Rexroth, INA (ball), PMI (roller)
Z-track	Taiwan, Germany	Rexroth, INA (ball), PMI (roller)
Body casting	Local/Taiwan	KBR
Automatic lubrication system	Taiwan-funded	BAOTN
Coupling	Taiwan	REACH
Triaxial shroud	Taiwan-funded	HW
Knife cylinder booster cylinder	Taiwan-funded	Yu Cheng/Reward
Belt	Japan	
Pulley	Taiwan-funded	
Tool magazine	Taiwan	Reward
Controller	Japan	Mitsubishi / FANUC
X/Y servo motor	Japan	Mitsubishi / FANUC
Z servo motor	Japan	Mitsubishi / FANUC
Spindle motor	Japan	Mitsubishi / FANUC

Machining Center 1060



Machine structure

The overall balance of the machine design for a comprehensive consideration, the main structure of the machine using the box and wide base, "people" shaped column structure design.Base, column, saddle, headstock, table and other main casting materials are used to optimize the quality, high tension of the resin sand casting, stable organization, small amount of deformation, can withstand high tensile strength of tension and load.By tempering treatment and vibration natural aging treatment to eliminate stress, can maintain precise displacement and positioning.For the whole machine for testing and analysis of vibration source, stress distribution, temperature rise reaction, structural displacement, etc., to ensure that the design improvement to the best condition.
8000rpm high-speed high-precision spindle spindle, hole taper#40.
X, Y-axis rail selection of Taiwan brand-name linear guide, action sensitive and more accurate.
Z-axis guide sliding surface are high-frequency quenching treatment, and then by precision grinding, all with fluorine resin TURCITE-B, and every place are subject to fully lubricated veneer, high processing stability.
The three-axis ball screw adopts imported high-precision double-nut ball guide rod direct transmission and applies proper pre-pull design.

Machine protection

Machine guards are safe, complete and reliable
Meet GB15760-1995 " Metal Cutting Machine Safety general technical spare parts》
Machine noise: in line with national standards<75db
Electric cabinet cooling with cold heat exchanger cooling, sealed dustproof, dustproof grade IP65

Lubrication system

Automatic lubrication device, the sliding surface and ball screw for mandatory lubrication, oiling time interval and fuel injection is adjustable
Oil selection T68#rail lubricating oil

Machining Center 1060

Pneumatic system

Pneumatic system is equipped with three-point combination, pressure switch, solenoid valve, etc., to achieve pneumatic tool change, spindle blow, pressure 6-8kgs/cm2, flow 220L / min, optional configuration external air gun.

Electrical system

Meet the GB / T5226. 1-1996 "industrial machinery and electrical equipment first part: general technical conditions" standard.

The system has a perfect and reliable chain, safety protection and fault self-diagnosis alarm function

Equipped with RS232 standard communication interface, can be used to store the program calculator diskette

Other systems can be selected according to user requirements

Machine accessories and purchased parts

Machine accessories and purchased parts are selected domestic and foreign high-quality brand (see the list of purchased parts）

Three-color warning light

Red light:display alarm

Yellow light: shows the end of the program

Green light: shows that the program is running

Machine power supply

Supply voltage range: AC three-phase 380V±10% 50Hz

Total machine power: 25kW Max

Normal operating temperature

Ambient temperature：0 ~ 40℃

Humidity:≤5%

Moving stroke	X-axis (left-right stroke of worktable) travel	1000 mm
	Y-axis (front and rear travel of the workbench) travel	600 mm
	Z axis (spindle head down stroke) travel	600mm
	Spindle end to table distance	70-670mm
Specifications	Table size	600*1300mm
	T-slot number	5
	T-slot width	18mm
	Maximum load-bearing table	600kg
	Spindle speed series	Stepless speed regulation
	Spindle speed range	60-8000rpm
	Main shaft taper hole	BT40
Machine accuracy standards	JB / T 8771.2-1998 geometric precision inspection of vertical machining centers	
	JB / T8771.4-1998 machining center linear positioning accuracy and repeat positioning accuracy test	
	JB / T8771.7-1998 precision testing of finishing machining center	
	JB / T 8801-1998 machining center technical conditions	
	Positioning accuracy	± 0.005 mm repeatability:±0.0025 mm
Spindle drive system	Spindle motor power (stepless speed regulation)	11 KW
	Spindle lubrication	Use imported high-grade grease lubrication, closed, maintenance-free
Feed system	Fast moving speed on X/Y axis	24m/min (X / Y axis for linear guide)
	Z axis fast moving speed	20m/min (Z axis for sliding rail）
	Cutting feed rate	1~5000mm
	Manual feed rate	0~2000mm
	Minimum setting with moving unit	0.001mm
	Ball screw (diameter×pitch）	ϕ40×12mm (X、Y、Z)
Automatic tool change part (optional)	Automatic tool changing method	Disc type / hat type
	Tool selection method	Bidirectional arbitrary
	Tool magazine capacity	16/20/24
	Maximum tool length	300mm
	Tool max. weight	7kg
	Tool type	BT-40
	Max. diameter of tool	ϕ80 (full knife state) ϕ140 (frontier knife state）
	Automatic tool change time	3-4s/6-8s

Machining Center 1160



Automatic tool change part (optional)

Automatic tool change: disc type
Tool selection method: two-way arbitrary
Magazine capacity: 24
Maximum tool length: 300mm
Tool max weight: 7kg
Tool type ： BT-40
The maximum diameter of the tool: φ80 (full knife state) φ140 (frontier knife state）
Automatic tool change time: 3-4s

Moving stroke

X-axis (left and right stroke of worktable) travel: 1100 mm
Y-axis (front and rear travel of worktable) travel: 600 mm
Z axis (spindle head down stroke) travel: 600 mm
Spindle end to table distance: 120-700mm

Specifications

Table size ： 600 * 1300mm
Number of T-slots: 5
T-slot width: 18mm
Table maximum load ： 800kg
Spindle speed series: stepless speed regulation
Spindle speed range: 60-8000rpm
Main shaft taper hole: BT40

Machine accuracy standards

JB / T 8771.2-1998 geometric precision inspection of vertical machining centers
JB / T8771.4-1998 machining center linear positioning accuracy and repeat positioning accuracy test
JB / T8771.7-1998 precision testing of finishing machining center
JB / T 8801-1998 machining center technical conditions
Positioning accuracy: ±0.005 mm repeat positioning accuracy: ±0.0025 mm

Spindle drive system

Spindle motor power (stepless speed regulation): 11 KW
Spindle lubrication: imported high-grade grease lubrication, fully enclosed, maintenance-free
Taiwan high-speed high-precision spindle

Machining Center 1160

Machine structure

The overall balance of the machine design for a comprehensive consideration, the main structure of the machine using the box and wide base, "people" shaped column structure design. Base, column, saddle, headstock, table and other main casting materials are used to optimize the quality, high tension of the resin sand casting, stable organization, small amount of deformation, can withstand high tensile strength of tension and load. By tempering treatment and vibration natural aging treatment to eliminate stress, can maintain precise displacement and positioning. For the whole machine for testing and analysis of vibration source, stress distribution, temperature rise reaction, structural displacement, etc., to ensure that the design improvement to the best condition.

8000rpm high-speed high-precision spindle spindle, hole taper#40.

X, Y, Z-axis guide adopts Taiwan famous brand linear guide, action sensitive and higher precision.

The three-axis ball screw adopts imported high-precision double-nut ball guide rod direct transmission and applies proper pre-pull design.

Machine protection

Machine guards are safe, complete and reliable

Meet GB15760-1995 " Metal Cutting Machine Safety general technical spare parts

Machine noise: in line with national standards<75db

Electric cabinet cooling with cold heat exchanger cooling, sealed dustproof, dustproof grade IP65

Lubrication system

Automatic lubrication device, the sliding surface and ball screw for mandatory lubrication, oiling time interval and fuel injection is adjustable

Oil selection T68 rail lubricating oil

Cooling system

Cooling system volume 200L

Cooling pump, motor power 0.5 KW, flow 40L/min

Cutting cooling for Vientiane nozzle spray coolant

Pneumatic system

Pneumatic system is equipped with three-point combination, pressure switch, solenoid valve, etc., to achieve pneumatic tool change, spindle blow, pressure 6-8kgs/cm2, flow 220L / min, optional configuration external air gun.

Electrical system

Meet the GB / T5226. 1-1996 "industrial machinery and electrical equipment first part: general technical conditions" standard.

The system has a perfect and reliable chain, safety protection and fault self-diagnosis alarm function

Equipped with RS232 standard communication interface, can be used to store the program calculator diskette

Other systems can be selected according to user requirements

Machine accessories and purchased parts

Machine accessories and purchased parts are selected domestic and foreign high-quality brand (see the list of purchased parts)

Three-color warning light

Red light: display alarm

Yellow light: shows the end of the program

Green light: shows that the program is running

Machine power supply

Supply voltage range: AC three-phase 380V±10% 50Hz

Total machine power: 25kW Max

Normal operating temperature

Ambient temperature： 0 ~ 40℃

Humidity: ≤5%

Machine weight

Machine weight: 7500Kg

Machining Center 1270L



Moving stroke

X-axis (left and right stroke of worktable) travel: 1200 mm
Y-axis (front and rear travel of worktable) travel: 700 mm
Z axis (spindle head down stroke) travel: 700mm
Spindle Center distance to machine column chute surface distance: 682mm
Spindle nose to the table distance: 150-800mm
Work surface to ground distance: 850mm

Specifications

Table size ： 600 * 1380mm
Number of T-slots: 5
T-slot width: 18mm
Table maximum load ： 900kg
Spindle speed series: inorganic speed
Spindle speed range: 60-8000rpm
Main shaft taper hole: BT 40

Machine accuracy standards

JB / T 8771.2-1998 geometric precision inspection of vertical machining centers
JB / T8771.4-1998 machining center linear positioning accuracy and repeat positioning accuracy test
JB / T8771.7-1998 precision testing of finishing machining center
JB / T 8801-1998 machining center technical conditions
Positioning accuracy: ±0.005 / 300mm repeat positioning accuracy: ±0.003/300mm

Feed system

X/Y / Z axis fast moving speed: 30/30/20m/min (X / Y axis is 45 linear guide, Z axis is sliding guide)
Cutting feed rate: 1~8000mm
Manual feed rate: 0 ~ 2000mm
Ball screw (diameter × pitch) φ40×10mm (X, Y, Z)
Minimum setting with moving unit: 0.001 mm

Spindle drive system

Spindle motor power (stepless speed regulation): 11KW
Spindle lubrication: imported high-grade grease lubrication, fully enclosed, maintenance-free
Taiwan high-speed high-precision spindle spindle

Machining Center 1270L

Automatic tool change part (optional)

Automatic tool change: hat type / disc type (optional Cam arm tool change)
Tool selection method: two-way arbitrary
Magazine capacity: 24 (Cam arm changer 24/32/40）
Tool max weight: 10kg
Tool type ： BT-40
Tool maximum diameter: φ100 (full knife state) φ160 (frontier knife state）
Automatic tool change time: 7-8S /3-4s (manipulator）

Machine structure

The overall balance of the machine design for a comprehensive consideration, the main structure of the machine using the box and wide base, "people" shaped column structure design. Base, column, saddle, headstock, table and other main casting materials are used to optimize the quality, high tension of the resin sand casting, stable organization, small amount of deformation, can withstand high tensile strength of tension and load. By tempering treatment and vibration natural aging treatment to eliminate stress, can maintain precise displacement and positioning. For the whole machine for testing and analysis of vibration source, stress distribution, temperature rise reaction, structural displacement, etc., to ensure that the design improvement to the best condition.
8000rpm high-speed high-precision spindle spindle, hole taper#40.
X, Y-axis guide selection of Taiwan famous brand ball linear guide, action sensitive and higher precision.
Z-axis guide sliding surface are high-frequency quenching treatment, and then by the fine grinding, all with fluorine resin TURCITE-B, and every place are subject to fully lubricated veneer, high processing stability.
The three-axis ball screw adopts imported high-precision double-nut ball guide rod direct transmission and applies proper pre-pull design.

Machine protection

Machine guards are safe, complete and reliable
Meet GB15760-1995 " Metal Cutting Machine Safety general technical spare parts》
Machine noise: in line with national standards<75db
Electric cabinet cooling with cold heat exchanger cooling, sealed dustproof, dustproof grade IP65

Lubrication system

Automatic lubrication device, the sliding surface and ball screw for mandatory lubrication, oiling time interval and oiling adjustable lubricant selection T68 rail lubricants

Cooling system

Cooling system volume 260L
Cooling pump, motor power 2.1 HP, flow 40L/min
Cutting cooling for Vientiane nozzle spray coolant

Pneumatic system

Pneumatic system is equipped with three-point combination, pressure switch, solenoid valve, etc., to achieve pneumatic tool change, spindle blow, pressure 6-8kgs/cm2, flow 220L / min, optional configuration external air gun.

Electrical system

Meet the GB / T5226. 1-1996 "industrial machinery and electrical equipment first part: general technical conditions" standard.
The system has a perfect and reliable chain, safety protection and fault self-diagnosis alarm function
Equipped with RS232 standard communication interface, can be used to store the program calculator diskette
Other systems can be selected according to user requirements

Machine accessories and purchased parts

Machine accessories and purchased parts are selected domestic and foreign high-quality brand (see the list of purchased parts）

Three-color warning light

Red light: display alarm
Yellow light: shows the end of the program
Green light: shows that the program is running

Machine power supply

Supply voltage range: AC three-phase 380V±10%
Power supply frequency: 50Hz±1% three-phase
Total machine power: 32KVA

Normal operating temperature

Ambient temperature ： 0 ~ 40℃
Humidity:≤5%
Air medium: non-corrosive medium light: adequate, well ventilated

Machine weight

Machine weight: 7500Kg

Machining Center 1370



Feed system

X/Y / Z fast moving speed:18m/min
Cutting feed rate:1~10000mm
Manual feed rate:0~5000mm
Minimum setting with moving unit: 0.001 mm
X/Y / Z axis ball screw (diameter × pitch) φ50×10mm (X, Y, Z)

Moving stroke

X-axis (left and right stroke of worktable) travel: 1300 mm
Y-axis (front and rear travel of worktable) travel: 700 mm
Z axis (spindle head down stroke) travel: 650mm
Spindle center-to-post rail distance: 785 mm
Spindle end to table distance: 150~800mm

Specifications

Table size ： 1400*710mm
Number of T-slots: 5
T-slot width: 18 mm
Table maximum load ： 1000kg
Spindle speed series: stepless speed regulation
Spindle speed range: 60-6000rpm
Main shaft diameter ： BT40

Machine accuracy standards

JB / T 8771.2-1998 geometric precision inspection of vertical machining centers
JB / T8771.4-1998 machining center linear positioning accuracy and repeat positioning accuracy test
JB / T8771.7-1998 precision testing of finishing machining center
JB / T 8801-1998 machining center technical conditions
Positioning accuracy: ±0.005 mm repeat positioning accuracy: ±0.0025 mm

Spindle drive system

Spindle motor power (stepless speed regulation): 15 KW
Spindle lubrication: imported high-grade grease lubrication, fully enclosed, maintenance-free
Taiwan high-speed high-precision spindle spindle

Lubrication system

Automatic lubrication device, the sliding surface and ball screw for mandatory lubrication, oiling time interval and fuel injection is adjustable
Oil selection T68#rail lubricating oil

Machining Center 1370

Automatic tool change part (optional)

Automatic tool change: disc type / hat type
Tool selection method: two-way arbitrary
Capacity: 16/20/24
Maximum tool length: 300mm
Tool max weight: 7kg
Tool type ： BT-40
The maximum diameter of the tool: φ80 (full knife state) φ140 (frontier knife state）
Auto tool change time: 3-4s/6-8s

Machine structure

The overall balance of the machine design for a comprehensive consideration, the main structure of the machine using the box and wide base, "people" type, Y-axis motor rear. Base, column, saddle, headstock, table and other main casting materials are used to optimize the quality, high tension of the resin sand casting, stable organization, small amount of deformation, can withstand high tensile strength of tension and load. By tempering treatment and vibration natural aging treatment to eliminate stress, can maintain precise displacement and positioning. For the whole machine for testing and analysis of vibration source, stress distribution, temperature rise reaction, structural displacement, etc., to ensure that the design improvement to the best condition.
8000rpm high-speed high-precision spindle spindle, hole taper#40.
The sliding surfaces of the main shaft guide rails are subjected to high-frequency quenching treatment, and then subjected to fine grinding, and are matched with the fluorine-fluorine resin TURCITE-B,so that every veneer is subjected to complete lubrication, and the processing stability is high.
The three-axis ball screw adopts imported high-precision double-nut ball guide rod direct transmission and applies proper pre-pull design.

Cooling system

Cooling system volume 200L
Cooling pump, motor power 0.5 KW, flow 40L/min
Cutting cooling for Vientiane nozzle spray coolant

Machine protection

Machine guards are safe, complete and reliable
Meet GB15760-1995 " Metal Cutting Machine Safety general technical spare parts》
Machine noise: in line with national standards<75db
Electric cabinet cooling with cold heat exchanger cooling, sealed dustproof, dustproof grade IP65

Pneumatic system

Pneumatic system is equipped with three-point combination, pressure switch, solenoid valve, etc., to achieve pneumatic tool change, spindle blow, pressure 6-8kgs/cm2, flow 220L / min, optional configuration external air gun.

Electrical system

Meet the GB / T5226. 1-1996 "industrial machinery and electrical equipment first part: general technical conditions" standard.
The system has a perfect and reliable chain, safety protection and fault self-diagnosis alarm function
Equipped with RS232 standard communication interface, can be used to store the program calculator diskette
Other systems can be selected according to user requirements

Machine accessories and purchased parts

Machine accessories and purchased parts are selected domestic and foreign high-quality brand (see the list of purchased parts）

Three-color warning light

Red light: display alarm
Yellow light: shows the end of the program
Green light: shows that the program is running

Machine power supply

Supply voltage range: AC three-phase 380V±10% 50Hz
Total machine power: 25KVA Max

Normal operating temperature

Ambient temperature： 0 ~ 40℃
Humidity:≤5%

Machine weight

Machine weight:9000Kg

Machining Center 1375



Moving stroke

X-axis (left and right stroke of worktable) travel: 1300 mm
Y-axis (front and rear travel of worktable) travel: 750 mm
Z axis (spindle head down stroke) travel: 750mm
Spindle center-to-post rail distance: 835 mm
Spindle end to table distance: 150 ~ 900mm
Table to ground distance: 970mm

Specifications

Table size ： 1400*710mm
T-slot: 5-18*152.5 mm (number-size * spacing)
T-slot width: 18 mm
Table maximum load ： 1000kg
Spindle speed series: stepless speed regulation
Spindle speed range: 5-8000rpm
Main shaft diameter ： BT40

Machine accuracy standards

JB / T 8771.2-1998 geometric precision inspection of vertical machining centers
JB / T8771.4-1998 machining center linear positioning accuracy and repeat positioning accuracy test
JB / T8771.7-1998 precision testing of finishing machining center
JB / T 8801-1998 machining center technical conditions
Positioning accuracy: ±0.005 / 300mm repeat positioning accuracy: ±0.003/300mm

Feed system

X/Y / Z axis fast moving speed: 20m/min
X/Y / Z axis motor connection: direct connection
X / Y / Z axis feed motor power: 4.5 KW
Cutting feed rate:1~5000mm
Manual feed rate:0~5000mm
Minimum setting with moving unit: 0.001 mm
Ball screw (diameter × pitch) φ50×10mm (X, Y, Z)

Spindle drive system

Spindle motor power (stepless speed regulation): 20HP
Spindle lubrication: imported high-grade grease lubrication, fully enclosed, maintenance-free
Taiwan high-speed high-precision spindle spindle

Machining Center 1375

Automatic tool change part

Automatic tool change: disc type
Tool selection method: two-way arbitrary
Magazine capacity: 24
Maximum tool length: 300mm
Tool max weight: 15kg
Tool type ： BT-40
The maximum diameter of the tool: φ80 (full knife state) φ140 (frontier knife state）
Automatic tool change time:3-4s

Machine structure

The machine design to the overall balance for a comprehensive consideration, the machine main structure with box and wide base, "people" type, Y-axis motor rear, four rail structure.Base, column, saddle, headstock, table and other main casting materials are used to optimize the quality, high tension of the resin sand casting, stable organization, small amount of deformation, can withstand high tensile strength of tension and load.By tempering treatment and vibration natural aging treatment to eliminate stress, can maintain precise displacement and positioning.For the whole machine for testing and analysis of vibration source, stress distribution, temperature rise reaction, structural displacement, etc., to ensure that the design improvement to the best condition.
8000rpm high-speed high-precision spindle spindle, hole taper#40.
X / Y / Z-axis guide sliding surface are high-frequency quenching treatment, and then by fine grinding, all with fluorine resin TURCITE-B, and every place are subject to fully lubricated veneer, high processing stability.
The three-axis ball screw adopts imported high-precision double-nut ball guide rod direct transmission and applies proper pre-pull design.

Machine protection

Machine guards are safe, complete and reliable
Meet GB15760-1995 " Metal Cutting Machine Safety general technical spare parts
Machine noise: in line with national standards<75db
Electric cabinet cooling with cold heat exchanger cooling, sealed dustproof, dustproof grade IP65

Lubrication system

Automatic lubrication device, the sliding surface and ball screw for mandatory lubrication, oiling time interval and fuel injection is adjustable
Oil selection T68 rail lubricating oil

Cooling system

Cooling system volume 200L
Cooling pump, motor power 0.5 KW, flow 40L/min
Cutting cooling for Vientiane nozzle spray coolant

Pneumatic system

Pneumatic system is equipped with three-point combination, pressure switch, solenoid valve, etc., to achieve pneumatic tool change, spindle blow, pressure 6-8kgs/cm2, flow 220L / min, optional configuration external air gun.

Electrical system

Meet the GB / T5226. 1-1996 "industrial machinery and electrical equipment first part: general technical conditions" standard.
The system has a perfect and reliable chain, safety protection and fault self-diagnosis alarm function
Equipped with RS232 standard communication interface, can be used to store the program calculator diskette
Other systems can be selected according to user requirements

Machine accessories and purchased parts

Machine accessories and purchased parts are selected domestic and foreign high-quality brand (see the list of purchased parts）

Three-color warning light

Red light: display alarm
Yellow light: shows the end of the program
Green light: shows that the program is running

Machine power supply

Supply voltage range: AC three-phase 380V±10% 50Hz
Total machine power: 30kW Max

Normal operating temperature

Ambient temperature ： 0 ~ 40℃
Humidity:≤5%

Machine weight

Machine weight:11000Kg

Machining Center 1580



Work surface size (mm) 800 × 1700
Left and right stroke (X) (mm) 1500
Front and rear stroke (Y) (mm) 800
Up / down stroke (Z) (mm) 700
Spindle center-to-post rail distance (mm) 810
Spindle face to countertop distance (mm) 130-830
Table T-slot (number-size × spacing) 5-22×140
Spindle taper BT50
Spindle speed (r/min) 8000
X, Y, Z-axis ball screw specifications 6310, 6310, 5010
X, Y, Z fast moving speed (m/min) 20, 20, 15
Z-axis guide rail
X, Y, Z motor connection directly connected
Main motor power (kw) 18.5
X, Y, Z-axis motor torque (N.m) 24, 26, 26
Table load (kg) 1500
Light machine net weight approx (kg) 13000

Standard Accessories	Optional
1. Resin Sand Casting (X / Y Ball Line Rail. Z Axis Hard Rail)	1. Hats Type Magazine (Taiwan / Okada)
2. Ball Screw (Taiwan Silver / Intime)	2. Disc Type Magazine (Taiwan / Okada)
3. Spindle (Taiwan Pusen / Luo Yi / Dan Quan)	3. Chip Conveyor (Domestic)
4. Knife Cylinder (Taiwan Still Products)	4. Spindle Oil Cooler
5. Spindle Timing Belt Pulleys. Timing Belt (Taiwan)	5. The Fourth Axis (Taiwan)
6. Bearing (Only Industry Extra Japan, Nsk)	
7. X. Y. Z Axis Stainless Steel Protective Cover	
8. Mitsubishi M80 System	
9. Three-Axis Mitsubishi Servo Motor	
10. The Host Of Electrical Appliances (Germany Schneider)	
11. Processing Blowing Device (Taiwan Yade Off)	
12. Processing Flushing Device (Taiwan Zhangtie)	
13. Electric Lubrication System (China-Japan Joint Venture)	
14. Fully Enclosed Housing	
15. Electric Heat Exchanger (Ea-05N)	
16. Adjust The Horn+Screws. Tools. File Box	
17. Led Long-Life Work Lamp 1	

Machining Center 1890



Moving stroke

X axis (left and right stroke of worktable) travel: 1800 mm
Y-axis (front and rear travel of worktable) travel: 900 mm
Z axis (spindle head down stroke) travel: 680mm
Spindle center to column rail distance: 940mm
Spindle nose to the table distance: 160-840mm
Working table to the ground distance: 1080mm

Specifications

Table size: 2000 * 900mm
Table T-slot:5-22*164mm
Table maximum load ： 1800kg
Spindle speed series: inorganic speed
Spindle speed range:6000rpm
Main shaft taper hole: BT 50

Machine accuracy standards

JB / T 8771.2-1998 geometric precision inspection of vertical machining centers
JB / T8771.4-1998 machining center linear positioning accuracy and repeat positioning accuracy test
JB / T8771.7-1998 precision testing of finishing machining center
JB / T 8801-1998 machining center technical conditions
Positioning accuracy ±0.005 / 500mm repeatability ±0.003 / 500mm

Feed system

X/Y / Z axis fast moving speed: 16m/min
AC servo motor power: X / Z 4.5 KW, Y 7KW
Cutting feed rate: 1~5000mm
Manual feed rate: 0 ~ 2000mm
Minimum setting with moving unit: 0.001 mm
Ball screw (diameter × pitch) φ50 *12

Spindle drive system

Spindle motor power (stepless speed regulation): 20HP
Spindle lubrication: imported high-grade grease lubrication, fully enclosed, maintenance-free
Taiwan high-speed high-precision spindle spindle

Lubrication system

Automatic lubrication device, the sliding surface and ball screw for mandatory lubrication, oiling time interval and oiling adjustable lubricant selection T68#rail lubricants

Automatic tool change part (optional)

Automatic tool Change Method: hat type / disc type (Cam arm tool change optional)
Tool selection method: two-way arbitrary
Magazine capacity: 20/24 (optional Cam arm tool change)
Tool max weight: 10kg
Tool type: BT-50
Tool maximum diameter: φ100 (full knife state) φ160 (frontier knife state)
Automatic tool change time: 7-8S/3-4s (manipulator)

Machine structure

The machine is designed to balance the overall overall consideration, the main structure of the machine using the box and wide base. Base, column, saddle, headstock, table and other main casting materials are used to optimize the quality, high tension of the resin sand casting, stable organization, small amount of deformation, can withstand high tensile strength of tension and load. By tempering treatment and vibration natural aging treatment to eliminate stress, can maintain precise displacement and positioning. For the whole machine for testing and analysis of vibration source, stress distribution, temperature rise reaction, structural displacement, etc., to ensure that the design improvement to the best condition.
6000rpm high-speed high-precision spindle spindle, hole taper#50.
Three-axis guide sliding surface are high-frequency quenching treatment, and then by fine grinding, all with fluorine tree TURCITE-B, and every place are subject to fully lubricated veneer, high processing stability.
The three-axis ball screw adopts imported high-precision double-nut ball guide rod direct transmission and applies proper pre-pull design.

Machine protection

Machine guards are safe, complete and reliable
Meet GB15760-1995 " Metal Cutting Machine Safety general technical spare parts
Machine noise: in line with national standards<75db
Electric cabinet cooling with cold heat exchanger cooling, sealed dustproof, dustproof grade IP65

Cooling system

Cooling system volume 260L
Cooling pump, motor power 2.1 HP, flow 40L/min
Cutting cooling for Vientiane nozzle spray coolant

Pneumatic system

Pneumatic system is equipped with three-point combination, pressure switch, solenoid valve, etc., to achieve pneumatic tool change, spindle blow, pressure 6-8kgs/cm2, flow 220L / min, optional configuration external air gun.

Electrical system

Meet the GB / T5226. 1-1996 "industrial machinery and electrical equipment first part: general technical conditions" standard.
The system has a perfect and reliable chain, safety protection and fault self-diagnosis alarm function
Equipped with RS232 standard communication interface, can be used to store the program calculator diskette
Other systems can be selected according to user requirements

Machine accessories and purchased parts

Machine accessories and purchased parts are selected domestic and foreign high-quality brand (see the list of purchased parts)

Three-color warning light

Red light: display alarm
Yellow light: shows the end of the program
Green light: shows that the program is running

Machine power supply

Supply voltage range: AC three-phase 380V±10%
Power supply frequency: 50Hz±1% three-phase
Total machine power: 32KVA

Normal operating temperature

Ambient temperature：0 ~ 40℃
Humidity: ≤5%
Air medium: non-corrosive medium light: adequate, well ventilated

Machine weight

Machine weight: 13000Kg



HIGH SPEED ENGRAVING AND MILLING MACHINE

High-speed Engraving and milling machine 650L



The mechanical characteristics of the description：

Base with multi-rib reinforced rigid design, to ensure that the body of heavy load deformation and vibration caused by high-speed machining deformation, are reduced to the lowest possible, to ensure that the positioning accuracy, motion straightness, etc., are always within the scope of accuracy specifications.

High-precision high-rigidity control system：

The control system has a decisive influence on the dynamic machining precision, response speed and rigidity of the engraving and milling machine. The company all Engraving and milling machines are used at both ends of the fixed bearing design and is equipped with appropriate pre-tension, both ends of the ball screw using 2 high-precision angle push bearing fixed to improve the rigidity. By increasing the machine's self-oscillation frequency beyond the normal operating range to ensure high dynamic machining accuracy, servo tuning is easy.

The cutting speed reaches 12m/min, and the cutting speed reaches 8m / min, So that the cutting efficiency is greatly improved.

Optional configuration：

Straight row magazine (BT30-8T)

BT30 hat type magazine (30#-12 / 16T)

The knife instrument

Graphite processing water curtain and filtering system

High-speed Engraving and milling machine 650L

Models	CNC650L
X-axis travel	500 mm
Y-axis travel	600 mm
Z-axis travel	260 mm
Spindle nose to table top	50-310 mm
Three-axis guide rail width	X: MSA30 PII
	Y: MSA30 PII
	Z: MSA30 PII
Table	
Table size	550×600 mm2
T-slot	6×14×90 mm
Table maximum load	250kg
Main shaft	
Standard spindle	Electric spindle
Spindle speed	3000-24000rpm
Spindle taper	ER25-32
Feed rate	
Cutting rate (XYZ)	1-8m/min
Fast feed (XYZ)	X/Y:12m/min Z:12m/min
Ball screw diameter / pitch	X,Y,Z:32/5mm
Other specifications	
Pressure required	6.0kgf/cm2
Machine net weight	3200kg
Floor area	1950×1850mm2
Machine height	2200mm

Number	Configuration	Specifications	Manufacturers	Origin
1	Three-axis angular contact ball bearing	Inner diameter 20, outer diameter 47	TPI	Taiwan
2	Three-axis ball screw (Class C3)	X, Y, Z: R32-5T5-FDDC-C3	Silver / Intime	Taiwan
3	Three-axis linear guide (p-class)	MSA30 PII	Silver / Intime	Taiwan
4	Electric spindle	ER25-32 3000-24000rpm	Rongxing	Domestic
5	Three-axle telescopic shield	Y axis stainless steel, Z axis organ plate	Hong Chun	Domestic
6	Centralized automatic lubrication system	BE2202F-210X		Domestic
7	CNC system	21A system	New generation	Taiwan
8	Three-axis motor and drive system	AC servo 850W	Yaskawa	Japan
9	Spindle cooling system	Independent oil cooler	Rico	Guangdong
10	Lighting device	LED working light	Lai Zhen	Shanghai
11	The knife instrument	JS-68RG	Junsen	Changzhou
12	Frequency converter	VFD075B43A	Delta	Taiwan
13	Contactors		Shihlin	Taiwan
14	Miniature circuit breakers		Schneider	Japan
15	Total power	AC380V, 8.5 KW		
16	Anchor bolt bearing + anchor bolt + nut	n / a		Domestic
17	Toolbox	Open-end wrench 24/27, open-end wrench 32/34, e wrench ER32, high precision ER32 collets		Domestic

High-speed Engraving and milling machine 8080L



The mechanical characteristics of the description：
Base with multi-rib reinforced rigid design, to ensure that the body of heavy load deformation and vibration caused by high-speed machining deformation, are reduced to the lowest possible, to ensure that the positioning accuracy, motion straightness, etc., are always within the scope of accuracy specifications.
High-precision high-rigidity control system：
The control system has a decisive influence on the dynamic machining precision, response speed and rigidity of the engraving and milling machine. The company all Engraving and milling machines are used at both ends of the fixed bearing design and is equipped with appropriate pre-tension, both ends of the ball screw using 2 high-precision angle push bearing fixed to improve the rigidity. By increasing the machine's self-oscillation frequency beyond the normal operating range to ensure high dynamic machining accuracy, servo tuning is easy.

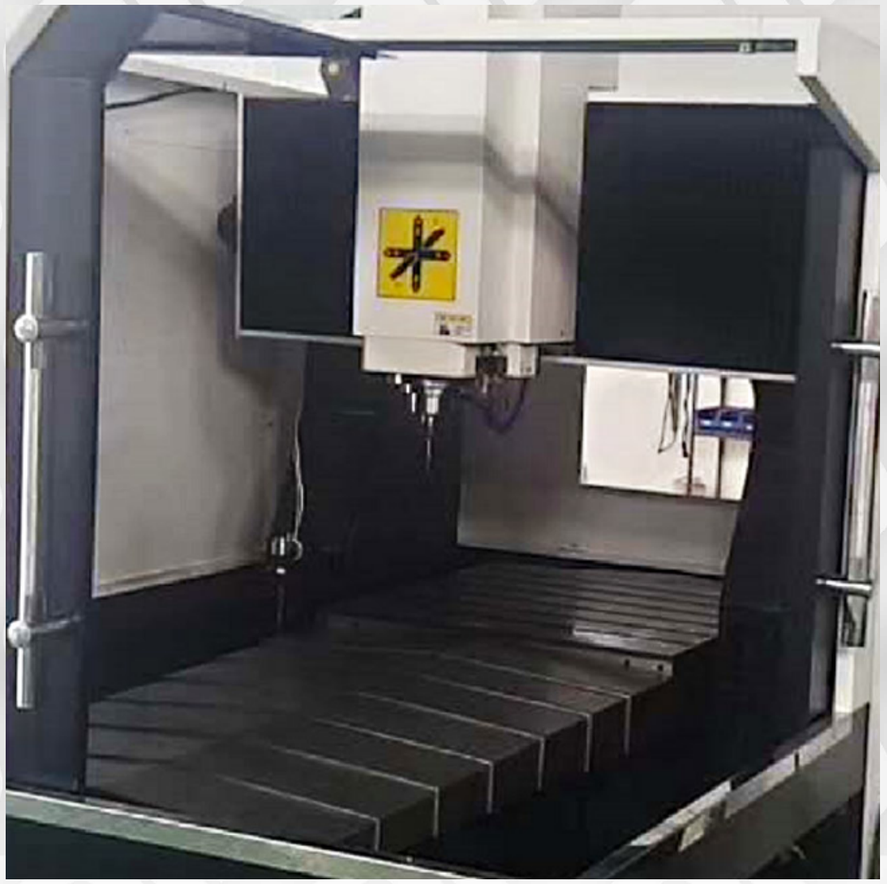
Optional configuration：

Straight row magazine (BT30-8T)
BT30 hat type magazine (30#-12 / 16T)
The knife instrument
Graphite processing water curtain and filtering system
6.5/4.5/3.2 KW BT30 pneumatic broach spindle

High-speed Engraving and milling machine 8080L

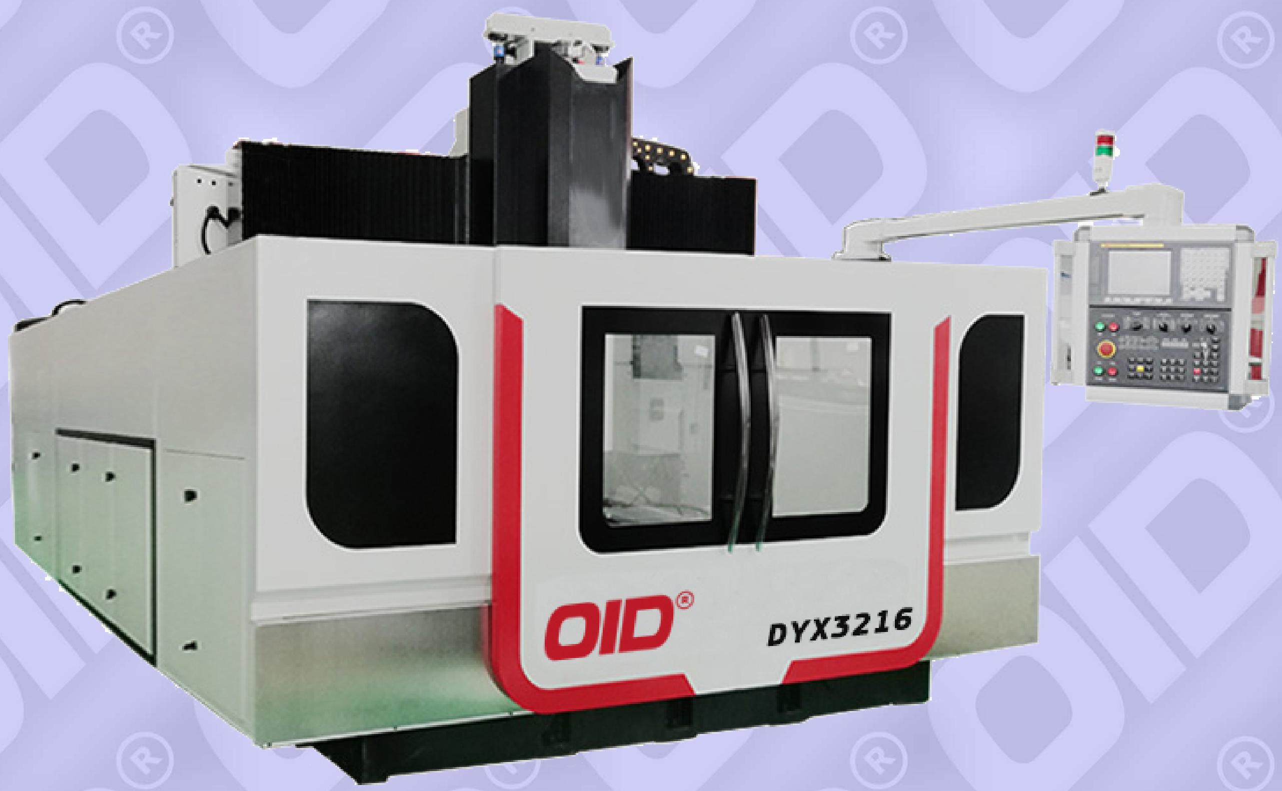
Data	CNC8080L
X-axis travel	800 mm
Y-axis travel	800 mm
Z-axis travel	380 mm
Spindle nose to table top	50-430 mm
Three-axis guide rail width	X: MSA35 PII
	Y: MSA35 PII
	Z: MSA35 PII
Table	
Table size	800×800 mm2
T-slot	7×16×100 mm
Table maximum load	400kg
Main shaft	
Standard spindle	Electric spindle
Spindle speed	3000-24000rpm
Spindle taper	ER25-32
Feed rate	
Cutting rate (XYZ)	1-8m/min
Fast feed (XYZ)	X/Y:12m/min Z:12m/min
Ball screw diameter / pitch	X,Y,Z:40//8mm
Other specifications	
Pressure required	6.0kgf/cm2
Machine net weight	4300kg
Floor area	2400×2250mm2
Machine height	2380mm

Number	Configuration	Specifications	Manufacturers	Origin
1	Three-axis angular contact ball bearing	Inner diameter 25, outer diameter 62	TPI	Taiwan
2	Three-axis ball screw (Class C3)	X, Y, Z: R40-5T5-FDDC-C3	Silver / Intime	Taiwan
3	Three-axis linear guide (p-class)	MSA35 PII	Silver / Intime	Taiwan
4	Electric spindle	ER25-32 3000-24000rpm	Rongxing	Domestic
5	Three-axle telescopic shield	Y axis stainless steel, Z axis organ plate	Hong Chun	Domestic
6	Centralized automatic lubrication system	BE2202F-210X		Domestic
7	CNC system	21A system	New generation	Taiwan
8	Three-axis motor and drive system	AC servo 1300W	Yaskawa	Japan
9	Spindle cooling system	Independent oil cooler	Rico.	Guangdong
10	Lighting device	LED working light	Lai Zhen	Shanghai
11	The knife instrument	JS-68RG	Junsen	Changzhou
12	Frequency converter	VFD075B43A	Delta	Taiwan
13	Contactors		Shihlin	Taiwan
14	Miniature circuit breakers		Schneider	Japan
15	Total power	AC380V, 12KW		
16	Anchor bolt bearing + anchor bolt + nut	n / a		Domestic
17	Toolbox	Open-end wrench 24/27, open-end wrench 32/34, e wrench ER32, high precision ER32 collets		Domestic





GANTRY
MACHINING CENTER



Technical bed features

1. DYX3216 type moving beam double drive CNC gantry milling machine, table fixed, double drive makes the gantry movement, bearing capacity, small footprint.

2. Moving beam movement force is relatively fixed, screw, Rail is not easy to damage, long Machine life.

3.The model vertical stroke between 300~400mm processing effect is the best condition.

Since the movable beam double-drive gantry machine table is fixed, can be designed thick and solid, and therefore have a very good bearing, generally bearing weight as long as the volume of the machine can be placed to allow. The table mobile machine, in the design must take into account the weight of the mobile, the thickness of the table is often only fixed table 1/2 to 1/3, structural strength is weak, without considering the motion characteristics of the premise, per square meter bearer is only about 1 ~ 1.5 t, the scope of application is significantly smaller.

Under the assumption that the cutting conditions are the same, the quality of the load is an important factor affecting the rail wear and accuracy retention.

Table mobile gantry machine in addition to the weight of the workpiece table itself weight is also very great, if the long-term processing of heavy workpieces, will inevitably lead to accelerated rail wear, a period of time accuracy will decline. The corresponding table fixed gantry machine, since the mass load is constant, will not change with the change of the workpiece, as long as the design to select the appropriate RAIL, Rail wear will be small and stable, the machine can be long maintain accuracy.

Table mobile gantry machine at no load can generally achieve its marked design speed, but with the increase in the weight of the workpiece, the moving speed of the inevitable decline, affecting efficiency, and table fixed gantry machine tool since the workpiece load and mobile independent, regardless of carrying multiple artifacts, can ensure the design speed, which makes sense on larger machines.

At the same time when the user is concerned about the fast-moving speed, often fall into a misunderstanding, this misunderstanding is to ignore the acceleration, in fact, the impact of fast-moving speed of processing efficiency is far less than the impact of acceleration, especially in some of the complex shape of the workpiece, sometimes several times to improve the processing efficiency

Since the mobile gantry table table load is variable, when the machine manufacturer to set a larger acceleration, once placed heavier workpiece, the machine will vibrate, shock and thus damage the transmission system; gantry mobile gantry although the workpiece is not involved in the movement, but the gantry frame center of gravity, high acceleration prone to excessive overturning force, causing damage to the under the reasonable design of the machine tool acceleration can be close to the vertical machining center, so that not only can improve the processing efficiency, but also reduce the surface roughness value.

Gantry machining center DYX3216

Training

The supply side is responsible for the technical training of the demand side, training time and training personnel agreed, training place in the demand side, training content including machine structure, performance and function, numerical control system, machine operation, maintenance and so on.

CNC system

1. Japan Mitsubishi M80B System
2. Can be transmitted by Ethernet
3. Provide communication software

System standard functions: three-axis linkage, thin 8.4-inch display, linear interpolation, circular interpolation, helical interpolation, metric conversion, automatic acceleration and deceleration, spindle orientation, tool radius compensation, tool position compensation, coordinate setting, program Editing, background editing, status display, parameter setting display, etc. (See Mitsubishi Japan for CNC system and servo motor technical data)

1. The maximum tool weight 10KG
2. Working voltage: three-phase 380V/50Hz. The supplier provides the range of fluctuations allowed by the voltage.
3. Mechanical part: resin sand casting of machine tool body.
4. Lubrication system: electric setting and automatic lubrication.

Equipment model			DYX3216
Workbench and T-slot			1600×3200mm slot width 22mm*7
Processing stroke (XYZ)			1600*3200*750mm
Gantry through width / height			2100/1300mm
Rapid feed rate (XYZ axis)			10*10*8m/s
Precision Ball Screw (Taiwan)		X axis	50 lead diameter 10
		Y axis	Diameter 80 lead 12
		Z axis	Diameter 40 lead 6
		Landscape	On 65 under 55
Precision Ball Guide (Taiwan Silver)		Portrait	65*2
		Z direction	45×4 (precision ball guide)
Spindle	Taper		BT50
	Rotating speed		50~6000 rpm
	Balance system		Pneumatic balance
Spindle end to table distance			350-1100mm
Motor Power	Spindle		15/18.5KW
	X axis		3.0KW
	Y axis		4.5*2KW
	Z axis (brake)		3.0KW
Precision	Triaxial positioning accuracy		±0.01mm/300mm
	Triaxial repeat positioning accuracy		±0.01mm/300mm
Machine weight			About 20 tons

Number	Name	Manufacturer, model
1	Spindle	Taiwan Pusen
2	Spindle motor	Japan's Mitsubishi / FANUC / Taiwan's new generation
3	Servo drive system	Japan Mitsubishi / FANUC servo drive motor / Japan Yaskawa Electric
4	Hand wheel	
5	X, Y, Z axis screw	Taiwan
6	X, Y, Z guide	Taiwan
7	Ball screw support bearing	X, Y. Z axis, all for screw bearing
8	Coupling	Professional collaboration factory
9	Screw lock nut	Professional collaboration factory
12	Nitrogen balance system	Professional collaboration factory
14	Spindle oil cooler	Professional collaboration factory
15	CNC system	Mitsubishi Japan
18	transformer	Professional collaboration factory
19	breaker	Siemens / Schneider
20	AC contactor	Siemens / Schneider

Gantry machining center DYX3216

Sales service

1. Machine tool quality, specifications and performance in line with the provisions of the contract, in the correct installation, proper use and maintenance of the premise, since the acceptance of the machine began to calculate the warranty period.The warranty period for the timely free warranty.
2. In the warranty period, the inspection certificate for the user if the reason for loading and unloading during transport, storage time is too long to cause mechanical appearance or internal damage; improper operation, dismantling the man-made damage caused by their own modification, is not within the scope of the above free warranty, the user must pay all renovation, maintenance costs.
3. After exceeding the warranty period, the supplier continues to provide maintenance services for users, and charge the cost of parts and service fees based on the normal charges.
4. After acceptance, the demand side is not based on contract performance, the supplier has the right to stop after-sales service.
5. The buyer did not pay the full amount before, the machine system in accordance with the agreed payment time to set the password and restrict the use of the password in the payment date after ten days of validity. After the payment is paid, the password procedure is deleted.
6. Due to operational reasons for failure, demand can be notified by telephone, fax supplier, the supplier rushed to the scene to be resolved within 48 hours, in case of major failure, the supplier Engineer must arrive at the site to be resolved.
7. Transport: car transport, the cost borne by the supplier. After the arrival of the loading and unloading by the demand side, the cost of the demand side.
8. The warranty period: one year warranty, life-long service.

1	Japan's Mitsubishi system / / FANUC system / Taiwan's new generation system	set
2	Emergency Switch	set
3	Transformer	set
4	Automatic lubrication system	set
5	Spindle oil cooler	set
6	Machine protection	set
7	Electronic hand wheel	set
8	Work light, program end and warning light	set
9	Headstock balancing mechanism	set
10	Electric control cabinet (including electric box air conditioner)	set
11	Configure common toolboxes: common tools such as screwdrivers, wrenches, air guns, etc.	set
12	Pressure plate and T-bolt nut	set
13	BT50 powerful handle	set
14	Machine tool accuracy test record	set
15	Certificate of Compliance	set
16	Packing List	set
17	CNC system operation manual	set
18	CNC system programming manual	set

Number	Accessory name	Specifications and models	Quantity / machine
1	Shank	BT50 (including 7 collets)	1
2	Common tools	Screwdriver 2, set of hex wrench, set of wrenches	1 set
3	Air gun		1
4	Platen and screw		6 pairs
5	Machine mattress iron and anchor screws	By foot hole configuration	Set



HIGH SPEED
DRILLING CENTER

High speed drilling center T5



1. Moving trip

X axis (table left and right stroke) stroke: 500 mm

Y axis (table front and rear stroke) stroke: 400 mm

Z axis (spindle head up and down stroke) stroke: 300mm

Main shaft nose to work station Distance: 200~500mm (can be increased by 200mm)

2. Specifications

Workbench size: 620 × 420mm

T-slot number: 3

T-slot width: 18mm

Workbench maximum load: 250kg

Spindle speed series: stepless speed regulation

Spindle speed range: 60-12000rpm

Main shaft Cone hole: ISO NO 30

3. Machine accuracy standards

JB / T 8771.2-1998 "Vertical machining center geometric accuracy test"

JB / T8771.4-1998 "Processing Center Linear Positioning Accuracy and Repeat Positioning Accuracy Test"

JB / T8771.7-1998 "Processing Center Precision Inspection of Finished Parts"

JB / T 8801-1998 "Processing Center Technical Conditions"

Positioning accuracy: ±0.01mm Repeat positioning accuracy: ±0.005mm

4. Spindle drive system

Spindle motor power (stepless speed regulation): 5.5 KW

Spindle lubrication: Lubricated with imported advanced grease, fully enclosed, maintenance free

The spindle adopts Taiwan high-speed high-precision spindle

5. Feed system

X/Y/Z axis fast moving speed: 48m/min

Cutting feed rate: 1~10000mm

Manual feed rate: 0~2000mm

Minimum setting and moving unit: 0.001mm

Ball screw (diameter × pitch) φ32 × 10mm (X, Y, Z)

6. Automatic tool change part (optional)

Automatic tool change method: clip arm type

Tool selection method: two-way arbitrary

Tool magazine capacity: 14 (optional 16/20/.. put)

Maximum tool length: 300mm

Maximum tool weight: 7kg

Maximum diameter of the tool: φ80 (full knife state) φ140 (clear knife state)

Automatic tool change time: 1.4s

High speed drilling center T5

7. Mechanical characteristics of the machine:
The machine is a wide-type vertical bed, a precision-grade high-precision horizontal table, and a vertical high-speed drilling and tapping machine with a reinforced single column.
X, Y, Z arbitrary coordinates and three-coordinate linkage control can be realized at high speed.
The X, Y and Z axes are supported by Taiwan's well-known brands of precision screw rods and special bearings for ball screws imported from Japan.
P-class silent linear slides using the latest international standards
The spindle uses high-speed, high-precision world-class bearings.
8. Machine protection
Machine guards are safe, complete and reliable
Comply with GB15760-1995 "General Technical Spare Parts for Safety Protection of Metal Cutting Machines"
Machine noise: in line with national standards <75db
The electric control cabinet is cooled by a cold heat exchanger, sealed and dustproof, and the dustproof grade is IP65.
9. Lubrication system
The automatic lubrication device is used to apply forced lubrication to each sliding surface and ball screw. The oil filling time interval and oil filling amount are adjustable.
Lubricating oil selects T68# rail lubricating oil

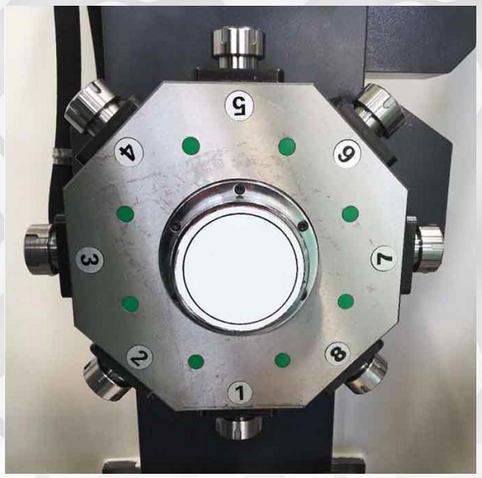
10. Cooling system
Cooling system volume 200L
Cooling pump, motor power 0.5KW, flow rate 40L/min
Cutting cooling for the Vientiane nozzle spray coolant
11. Pneumatic system
The pneumatic system is equipped with a three-point combination, pressure switch, solenoid valve, etc., to achieve pneumatic tool change, spindle blow, pressure 6-8kgs / cm2 flow 220L / min, optional configuration of external air gun.
12. Electrical system
It complies with the standard of GB/T5226.1-1996 "First part of industrial machinery and electrical equipment: General technical conditions".
The system has perfect and reliable interlocking, safety protection and fault self-diagnosis alarm function.
Equipped with RS232 standard communication interface, you can use the calculator floppy disk to store the program.
Other systems can be selected according to user requirements
13. Machine parts and purchased parts
Machine parts and purchased parts are selected from domestic and foreign quality brands (see list of purchased parts for details)

Standard accessories:	
1. Resin sand castings	12. Processing oil flushing device
2. Ball screw (Taiwan Shangyin / Yintai) R-32-C3 level mute	13. Electric lubrication system
3. Spindle (Taiwan) straight knot type BT30 100-12000rpm* (optional 20000rpm)	14. Fully enclosed outer casing
4. Knife cylinder (made in Taiwan)	15. Cooling oil recovery tank car and iron filing tray
5. Three-axis rail (Taiwan Shangyin / Yintai)	16. Adjust the horn + screw
6. Bearing (OID Extra Japan, NSK)	17. Tools, file boxes
7. X. Y. Z axis stainless steel protective cover (made in Taiwan)	18. 1 luxury quartz lamp
8. Siemens system	19. 14 clip arm magazine
9. Three-axis servo motor (Japan Yaskawa / FANUC / Mitsubishi)	20. Chain plate chip conveyor (optional)
10. Host electrical appliances (Schneider. Germany)	21. The fourth axis (optional)
11. Processing air blowing device	22. Cradle five axes (optional)

14. Three-color warning light
Red light: display alarm
Yellow light: the end of the display program
Green light: The display program is being executed
15. Machine power supply
Power supply voltage range: AC three-phase 380V ± 10% 50Hz
Total power consumption of the machine: up to 25KVA
16. Normal use temperature
Ambient temperature: 0~40°C
Humidity: ≤85%

High speed drilling center T5Z





The main technical parameters				
Three-axis travel	X	mm	500	
	Y	mm	350	
	Z	mm	350	Can be raised by 200mm
	Spindle nose to workbench	mm	150-480	
Workbench	Table size	mm	550x320	
	T-slot	mm	3x14x92	
	Weight capacity	kg	180	
Spindle	Chuck specification		ER32	
	Maximum speed	RPM	6000	Optional 8000
	Tapping maximum speed	RPM	2000	Rigid tapping
Guide	X, Y	mm	30	Taiwan
	Z	mm	35	Taiwan
Ball screw rod	Triaxial	mm	32x12	Taiwan
Tool magazine	Number of bits	T	8	
	Maximum tool diameter available	mm	Φ63	
	Tool change form		Index type	
	Tool change time	Second	1,2	
Motor	Spindle motor	KW	3.7/5.5	servo motor
	Feed motor	KW	1,5(X, Y),2(Z)	servo motor
	Knife motor	KW	0.55	servo motor
	Cooling pump	KW	0.12	
Feed	Fast moving speed	mm/min	32000	
	Feed rate	mm/min	1-12000	
Precision	Positioning accuracy	mm	0.012/300	
	Repeatability	mm	0.005	
	Turret accuracy	mm	±0.006	
Maximum processing capacity	Drilling	mm	Φ25	Aluminum parts
	Tapping	mm	M16	
	Pupil	mm	Φ60	
	Milling surface	mm	Φ63	
	Milling keyway	mm	Φ12	Steel
Dimensions	Length, width and height	mm	1400x1500x2300	
Machine weight		Kg	1850	

High speed drilling center V6



1. The main structural parts such as base, saddle, workbench, column and headstock are made of high-grade Meehanite cast iron and subjected to secondary annealing to ensure high rigidity and high stability.
2. Large-span base (national standard A), which effectively disperses gravity and processing tolerance, optimizes the force line and loads the workpiece with heavier load.
3. The saddle can be extended (national standard D) to greatly improve the power accuracy.
4. The best spindle head clamp column contact ratio design (GB B/C)
5. Three-axis mining torque motor, providing acceleration up to 1G, 0-60m/min only takes 0.21 seconds
6. The spindle head adopts no counterweight design and is driven by high-power Z-axis motor. The feed is sensitive and accurate.
7. 200 liter sink, rear chip removal, rear slant base design, the drain angle is large, the chip liquid reflux speed is fast, and the brush can be quickly re-brushed away from the chip to avoid accumulation in the machine room and achieve the function of rapid chip removal.
8. X/Y/Z three-axis rail and ball screw adopt centralized oil lubrication system.

The main spare parts specifications:

1. Screw (Taiwan silver)
2. Line rail (Taiwan silver)
3. Spindle (made in Taiwan)
4. Tool magazine (made in Taiwan)
5. Five castings (material: FC30)
6. Triaxial shield (made in Taiwan)
7. Knife cylinder (made in Taiwan)
8. Basic block

V6 option equipment:

1. Straight knot spindle 10000/12000/ 15000rpm
2. Spindle center water outlet
3. BT40 spindle (belt / straight knot)
4. 20T disc type tool magazine

Model	Unit	V6
X/Y/Z axis travel	mm	600/400/300
Spindle nose to work surface distance	mm	170-620
Spindle style		BT40 (straight knot type)
Spindle speed	rpm	10000
Spindle motor	Kw	43592
X/Y/Z rapid feed rate	m/min	48/48/48
Working desk size	mm	700X420
T-slot (width x slot number x spacing)	mm	18x3x125
Maximum load (average distribution)	kg	300
Maximum tool diameter (full knife / no adjacent knife)	mm	75/150
Maximum tool length	mm	250
Maximum tool weight	kg	8
Automatic tool change form		Disc type (same type)
Number of automatic tool changers	pcs	20
Pull bolt		P40T-1(45°)
Tool change time (knife versus knife)	sec	0.7
Mechanical size (length x width x height)	mm	1750X1530X2090
Mechanical weight	kg	2300

High speed drilling center V6C

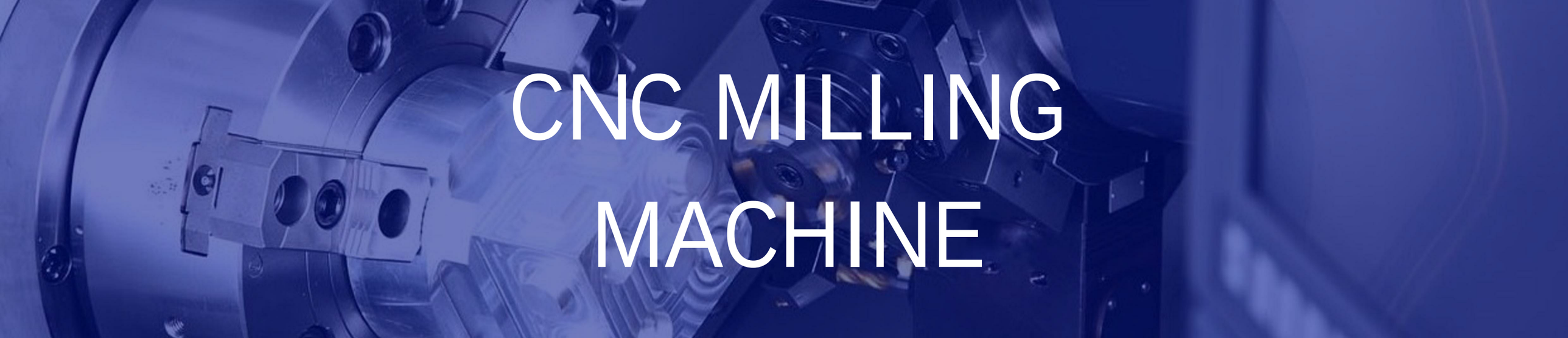


Model	Unit	V6C
X/Y/Z axis travel	mm	600/450/450
Spindle nose to work surface distance	mm	140-590
Spindle style		BT40 (straight knot type)
Spindle speed	rpm	12000
Spindle motor	Kw	7,5
X/Y/Z rapid feed rate	m/min	48/48/48
working desk size	mm	700X420
T-slot (width x slot number x spacing)	mm	14x3x125
Maximum load (average distribution)	kg	250
Maximum tool diameter (full knife / no adjacent knife)	mm	75/150
Maximum tool length	mm	250
Maximum tool weight	kg	8
Automatic tool change form		Disc
Number of automatic tool changers	pcs	16
Pull bolt		P40T-1(45°)
Tool change time (knife versus knife)	sec	0,7-
Mechanical size (length x width x height)	mm	1750X1530X2090
Mechanical weight	kg	3500

Vertical drilling and attack center V6C
Scope of application: Especially suitable for 3C parts, hardware, mold, auto parts, graphite, medical equipment, aviation.

The main features:

1. The main structural members such as the base, saddle, work table, column and headstock are made of high-grade Meehanite cast iron and subjected to secondary annealing to ensure high rigidity and high stability.
2. Large-span base (national standard A), which effectively disperses gravity and processing tolerance, optimizes the force line and loads the workpiece with heavier load.
3. The saddle can be extended (national standard D) to greatly improve the power accuracy.
4. The best spindle head clamp column contact ratio design (GB B/C).
5. Three-axis high-torque motor with acceleration up to 1G, 0-48m/min.
6. The spindle head is designed with no counterweight and is driven by a high-power Z-axis motor for precise and precise feed.
7. 200 liter sink, rear chip removal, rear slant base design, the drain angle is large, the chip liquid reflux speed is fast, and the brush can be quickly re-brushed away from the chip to avoid accumulation in the machine room and achieve the function of rapid chip removal.
8. The X/Y/Z three-axis rail and ball screw use a centralized oil lubrication system.



CNC MILLING MACHINE

CNC milling machine

CNC5X



Number	Name	CNC5X
1	Operating system	Wide number GSK980MDI
2	Servo motor	Wide number 130SJT-M060D
3	Server Driver	Wide number GR2045T-LA1
4	Ball screw rod	SDF3208-C3
5	Main motor (servo)	Wide number 3.7KW
6	Control appliance	Fuji/Siemens
7	Spindle	BT40/7000 turn
8	Tool magazine	Four-station tool magazine

Name	CNC5X
Working schedule X/Y/Z	900*360*150mm Z axis with 400 manual strokes
Working desk size	1470*320mm
Workbench T-slot	16 slot width * 75 pitch * 3 strips
Guide rail hardness	Average hardness HRC52-55
X-axis guide form	Swallowtail
Y-axis guide form	Double swallowtail
Number of linkage axes	Three-axis linkage (supporting four-axis linkage)
Spindle speed	Directly connected to 7000 rpm
Spindle taper	BT40
Spindle sleeve diameter	Ø120
Spindle taper jump	Within 0.005MM
main motor power	3.7kw (servo motor)
Main motor rated torque	24N*M (three times overload operation in 5 minutes)
Shift mode	Infinitely variable speed
Maximum drilling capacity	Ø25
Maximum tapping ability	M16
Feed motor power	X/Y/6N*M Z/7.5N*M
Fastest moving speed	X/Y/8 m/min Z/18 m/min
Spindle center to column distance	360MM
Spindle end to table distance	0-400MM
protecting mask	Half shield
Programming mode	Computer/manual
File transfer method	USB/network cable
Cool down	120W waterproof water pump
Milling machine dimensions	L1800*B1600*H2480mm
Machine weight	1800KG
using electric	Three-phase AC380V
Gas source	0.5-0.8MPA
Total power	8.2KW

CNC milling machine NC5VA



Number	Model	NC5VA
1	X-direction travel	830mm
2	Y-direction	360mm
3	Z-direction travel	120mm
4	Work lift manual stroke	360mm
5	Spindle	R8 (NT30)
6	Motor	3P
7	Spindle speed	80-4500 (rpm/min)
8	System	Huazhong CNC System
9	Flashlight	LED explosion-proof lighting
10	Lubrication and oil supply system	Gear pump automatic lubrication and constant volume oil supply system
11	Sheet metal	Semi-surrounded waterproof sheet metal
12	Protection	Y-axis guide organ board protection
13	Sheet metal protection	Semi-protection

Model introduction:

Two rails, three-axis servo motor, servo three-axis travel 830*360*120, manual lift manual stroke 360mm, spindle R8 (NT30), motor 3p, 80-4500r/M, automatic speed control, Y-axis Guide rail organ protection, semi-surround waterproof sheet metal, gear pump automatic lubrication and constant volume oil supply system, LED explosion-proof lighting; Huazhong CNC system.

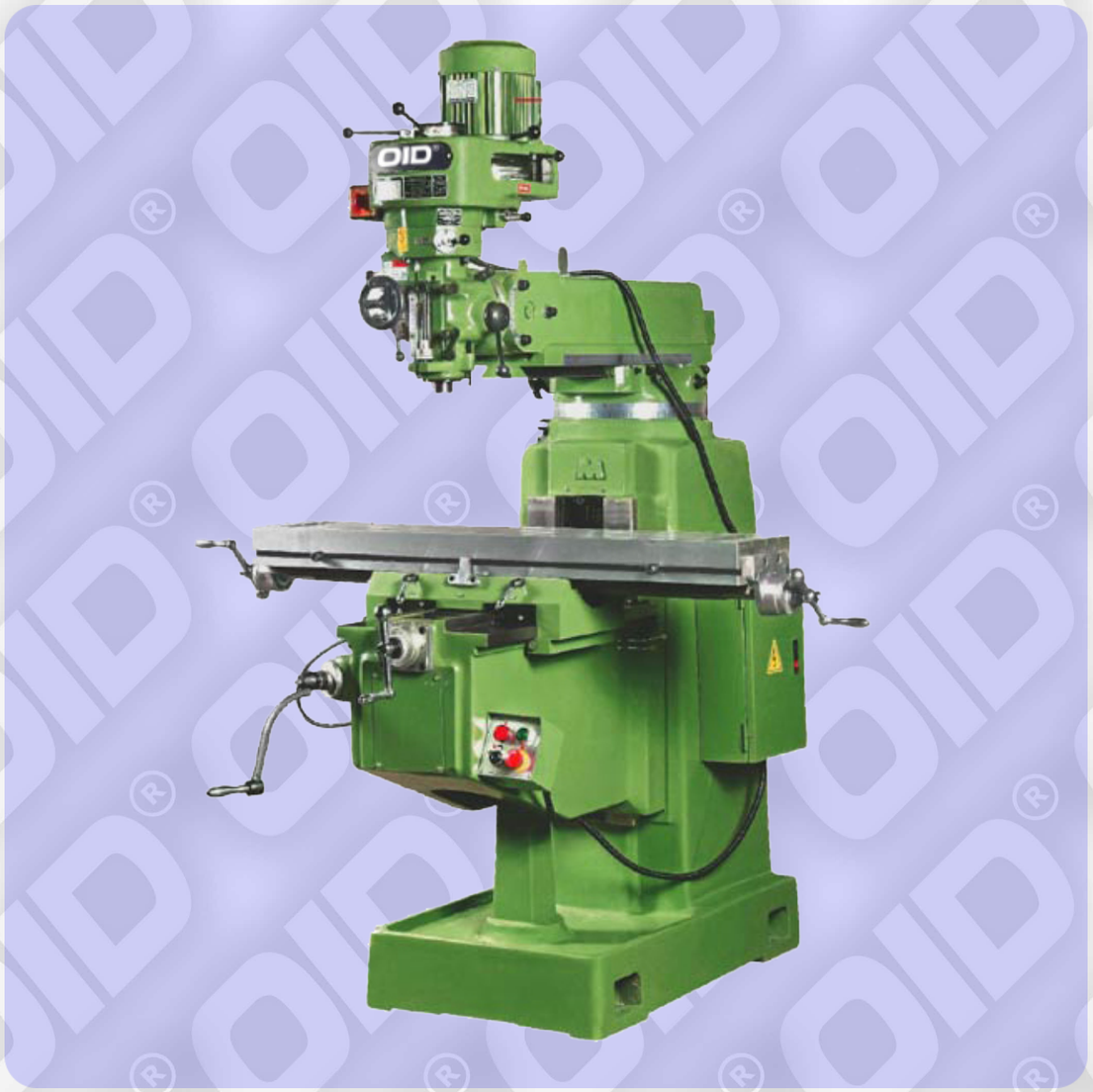
Features:

1. The fuselage is stable, the structure design is reasonable; GO speed 8M/MIN
2. Adopt fixed arm structure, CNC headstock to increase rigidity;
3. Automatic speed regulation of the spindle, centralized volumetric oil supply system;
4. With oil shortage alarm shutdown; can lock the machine at will;
5. Use angular contact ball bearings to import electrical components;
6. CNC system warranty for one year



TURRET MILLING MACHINE

Turret milling machine M3



The machine features:

1. The machine is compact in structure, small in size and high in flexibility. The milling head can be rotated 90° left and right, and rotated 45° back and forth. The ram can not only be stretched back and forth, but also can be rotated 360° in the horizontal plane, thus greatly expanding the effective working range of the machine tool. .
2. The machine is made of high-grade Meehan casting, which has strong structure, no deformation and good stability. The main shaft is made of chrome-molybdenum alloy. After precision grinding by quenching and tempering heat treatment, it is equipped with precision grade bevel ball bearing combination, which has strong cutting force and excellent precision.
3. The triaxial angle nut is made of high-grade phosphor bronze (PBC-2), which has good wear resistance and long service life.
4. X, Y-axis slides are attached with TURCITE-B wear-resistant sheets, which are light in operation, low in wear rate and durable.
5. The work surface is precision ground after quenching and hardening, which is not easy to wear.
6. Equipped with a manual oil pump to lubricate the workbench and lift platform.
7. Equipped with improved electrical box and controller with 24V, 110V, 220V output sockets.
8. Optional pneumatic broach device for 2 seconds tool change, efficient, fast and safe.

The standard accessories:

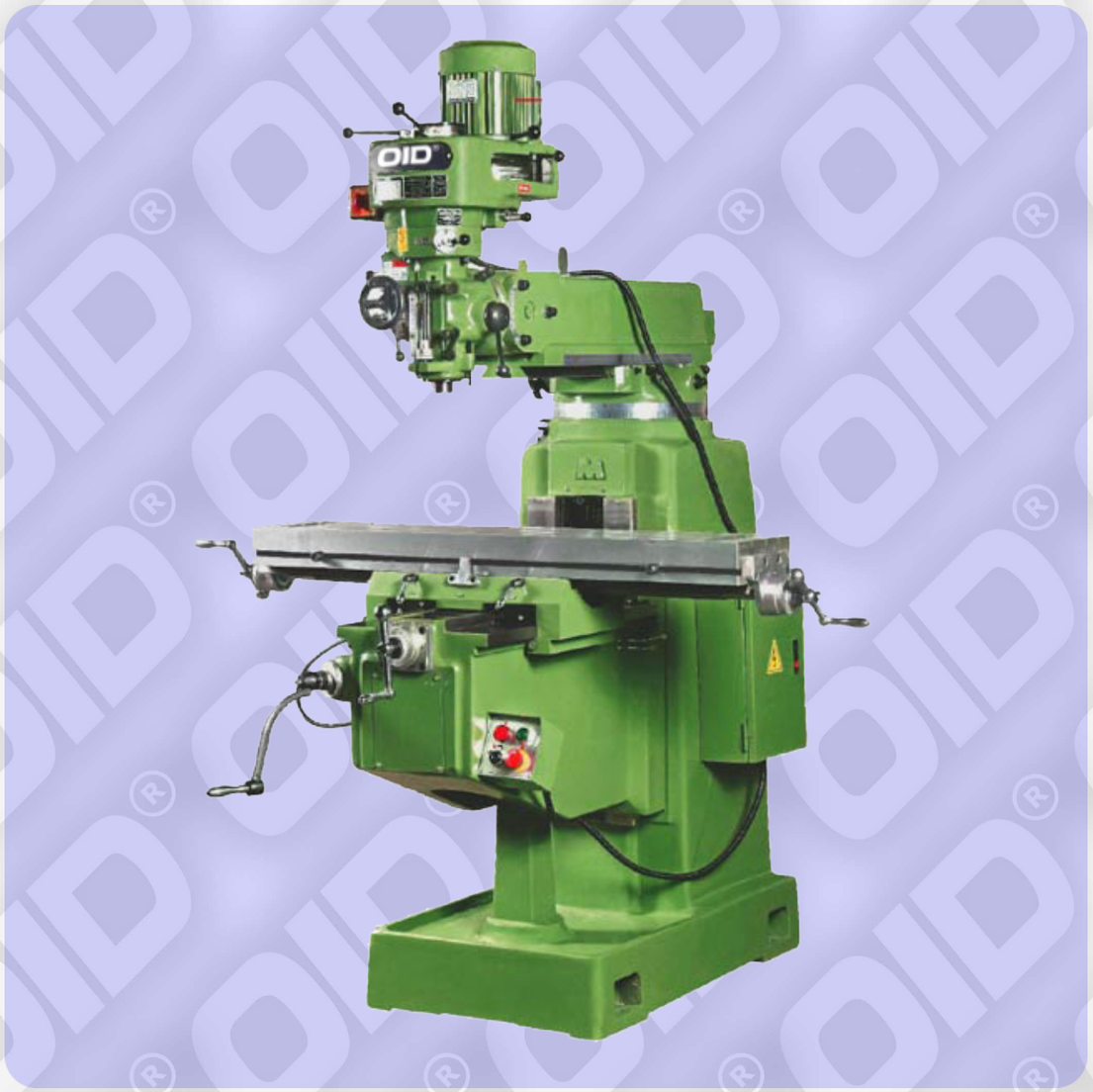
1. Pull rod
2. Toolbox
3. Adjustment tool
4. Front and rear slag rubber
5. Electrical box and control box,

Special accessories:

1. Digital display
2. 6" pliers
3. R8 cable / code iron
4. Quartz lamp, water pump
5. Electronic / servo / mechanical automatic feeder

Model		Unit	M3
Working desk size		mm	254*1270
Stroke	Left and right (X)	mm	760
	Before and after (Y)	mm	405
	Up and down (Z)	mm	400
	Spindle travel	mm	127
Spindle	Speed		70-5440rpm (16 speed)
	Taper		R8 optional NT30
	Horsepower		3HP
Maximum table load		kg	300
Maximum distance from the end face of the spindle to the work surface		mm	430
Machine size		mm	1600*1680*2100
Machine weight		kg	1200

Turret milling machine M4



The machine features:

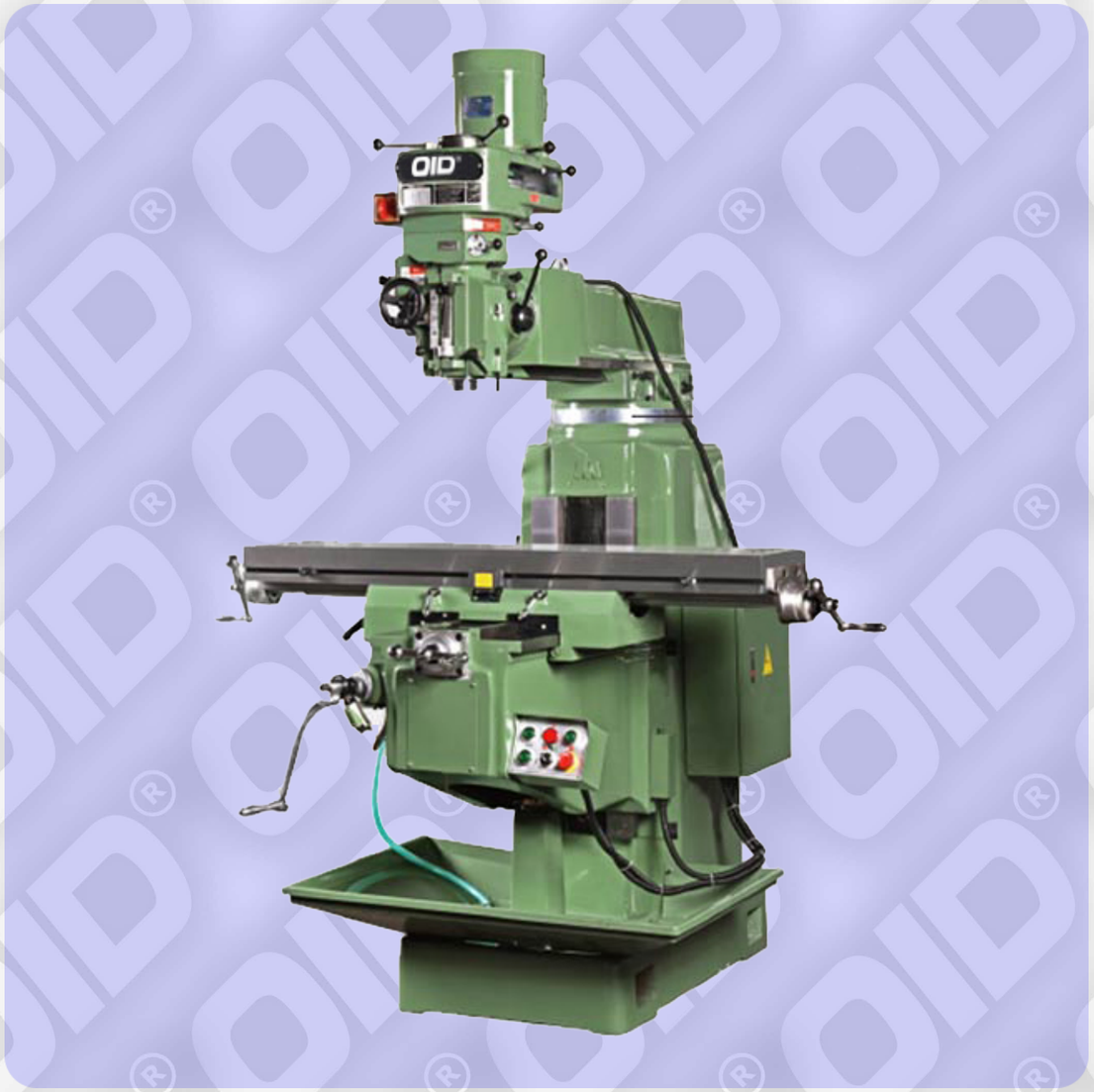
The machine is compact in structure, small in size and high in flexibility. The milling head can be rotated 90° left and right, and rotated 45° back and forth. The ram can not only be stretched back and forth, but also can be rotated 360° in the horizontal plane, thus greatly expanding the effective working range of the machine tool.
The machine is made of high-grade Meehan casting. It has strong structure, no deformation and good stability. The main shaft is made of chrome-molybdenum alloy. After precision grinding by quenching and tempering heat treatment, it is equipped with precision grade bevel ball bearing combination, which has strong cutting force and excellent precision.
The three-axis angle nut is made of high-grade phosphor bronze (PBC-2), which has good wear resistance and long service life.
X, Y-axis slides are attached with TURCITE-B wear-resistant sheets, which are light in operation, low in wear rate and durable.
The work surface is hardened by hardening and hardening, which is not easy to wear.
Equipped with manual oil pump, centralized lubrication of work table and lifting platform.
Equipped with improved electrical box and controller with 24V, 110V, 220V output sockets.
The spindle can be used with NT30.
Optional pneumatic broach device for 2 seconds tool change, efficient, fast and safe.

The attachment:

Tie rods, toolboxes, adjustment tools, front and rear slag rubber, electrical and control boxes, quartz lamps, pumps.
Two-axis digital display, X-axis cutter, 6" bottomless pliers, R8 or NT30 collet set, M12 pressure plate. Water basin (M5 comes standard, M4 needs to be purchased separately)

Model		Unit	M4
Working desk size		mm	254*1270
Stroke	Left and right (X)	mm	760
	Before and after (Y)	mm	405
	Up and down (Z)	mm	400
	Spindle travel	mm	127
Spindle	Speed		70-5440rpm (16 speed)
	Taper		R8 optional NT30
	horsepower		3HP
Maximum table load		kg	350
Maximum distance from the end face of the spindle to the work surface		mm	430
Machine size			1600*1730*2200
Machine weight		kg	1250

Turret milling machine M5



Model		Unit	M5
Working desk size		mm	305*1370
Stroke	Left and right (X)	mm	860
	Before and after (Y)	mm	435
	Up and down (Z)	mm	430
	Spindle travel	mm	127
Spindle	Speed		70-5440rpm (16 speed)
	Taper		R8 optional NT30
	horsepower		5HP
Maximum table load		kg	500
Maximum distance from the end face of the spindle to the work surface		mm	480
Machine size		mm	1600*1780*2350
Machine weight		kg	1450

Machine characteristics:

The machine is compact in structure, small in size and high in flexibility. The milling head can be rotated 90° left and right, and rotated 45° back and forth. The ram can not only be stretched back and forth, but also can be rotated 360° in the horizontal plane, thus greatly expanding the effective working range of the machine tool.
The machine is made of high-grade Meehan casting. It has strong structure, no deformation and good stability. The main shaft is made of chrome-molybdenum alloy. After precision grinding by quenching and tempering heat treatment, it is equipped with precision grade bevel ball bearing combination, which has strong cutting force and excellent precision.
The three-axis angle nut is made of high-grade phosphor bronze (PBC-2), which has good wear resistance and long service life.
X, Y-axis slides are attached with TURCITE-B wear-resistant sheets, which are light in operation, low in wear rate and durable.
The work surface is hardened by hardening and hardening, which is not easy to wear.
Equipped with manual oil pump, centralized lubrication for workbench and lifting platform, optional electric lubrication pump.
Equipped with improved electrical box and controller with 24V, 110V, 220V output sockets.
M5 spindle end to table distance can be increased by 100MM/150MM/200MM
Optional pneumatic broach device for 2 seconds tool change, efficient, fast and safe.

Annex:

Tie rods, toolboxes, adjustment tools, front and rear slag rubber, electrical and control boxes, quartz lamps, pumps.
Two-axis digital display, X-axis cutter, 6" bottomless pliers, R8 or NT30 collet set, M12 pressure plate. Water basin (M5 comes standard, M4 needs to be purchased separately)

Turret milling machine M6



Machine characteristics:

1. The machine is compact in structure, small in size and high in flexibility. The milling head can be rotated 90° left and right, and rotated 45° back and forth. The ram can not only be stretched back and forth, but also can be rotated 360° in the horizontal plane, thus greatly expanding the effective working range of the machine tool. .
2. The machine is made of high-grade Meehan casting, which has strong structure, no deformation and good stability. The main shaft is made of chrome-molybdenum alloy. After precision grinding by quenching and tempering heat treatment, it is equipped with precision grade bevel ball bearing combination, which has strong cutting force and excellent precision.
3. The triaxial angle nut is made of high-grade phosphor bronze (PBC-2), which has good wear resistance and long service life.
4. X, Y-axis slides are attached with TURCITE-B wear-resistant sheets, which are light in operation, low in wear rate and durable.
5. The work surface is precision ground after quenching and hardening, which is not easy to wear.
6. Equipped with a manual oil pump to lubricate the workbench and lift platform. (optional automatic oil pump)
7. Equipped with improved electrical box and controller with 24V, 110V, 220V output sockets.
8. M6 includes upper and lower electric lift, spindle NT40.

Turret milling machine M6

Standard accessories:

1. M6 contains two-axis digital display
2. X-axis automatic knife cutter
3. 6" pliers
4. M12 pressure plate
5. NT40 chuck set 7 sets / set
6. Up and down electric lift
7. Water pump
8. Quartz lamp
9. Pull rod
10. Water basin
11. Toolbox
12. Adjustment tool
13. Front and rear slag rubber
14. Electrical box and controller.

Model		Unit	M6
Working desk size		mm	305*1370
Stroke	Left and right (X)	mm	770
	Before and after (Y)	mm	405
	Up and down (Z)	mm	505
	Spindle travel	mm	127
Spindle	speed		70-5440rpm (16 speed)
	Taper		NT40
	Horsepower		5HP
Maximum table load		kg	500
Maximum distance from the end face of the spindle to the work surface		mm	505
Machine size		mm	1700*1700*2450
Machine weight		kg	1900

Turret milling machine XW6H



Machine characteristics:

1. The machine is compact in structure, small in size and high in flexibility. The milling head can be rotated 90° left and right, and rotated 45° back and forth. The ram can not only be stretched back and forth, but also can be rotated 360° in the horizontal plane, thus greatly expanding the effective working range of the machine tool.
2. The machine is made of high-grade Meehan casting, which has strong structure, no deformation and good stability. The main shaft is made of chrome-molybdenum alloy. After precision grinding by quenching and tempering heat treatment, it is equipped with precision grade bevel ball bearing combination, which has strong cutting force and excellent precision.
3. The triaxial angle nut is made of high-grade phosphor bronze (PBC-2), which has good wear resistance and long service life.
4. X, Y-axis slides are attached with TURCITE-B wear-resistant sheets, which are light in operation, low in wear rate and durable.
5. The horizontal shaft speed is 100rpm-2000rpm stepless speed regulation, the speed range is high, and it is more suitable for finishing.
6. The vertical and horizontal axes can be used at the same time, and the workpiece can be clamped at one time, which can improve the processing efficiency and processing accuracy.
7. The work surface is precision ground after quenching and hardening, which is not easy to wear.
8. Equipped with a manual oil pump for centralized lubrication of the workbench and lifting platform. (optional automatic oil pump)
9. Equipped with improved electrical box and controller with 24V, 110V, 220V output sockets.
10. XW6 includes up and down electric lift (optional stepless speed regulation).
11. Optional pneumatic swivel angle plate for box processing for higher precision.

Turret milling machine XW6H

Standard accessories:

1. Two-axis digital display
2. X-axis automatic knife cutter
3. 6" pliers
4. M12 pressure plate
5. NT40 chuck set 7 sets / set
6. Up and down electric lift
7. Water pump
8. Quartz lamp
9. Pull rod
10. Water basin
11. Toolbox
12. Adjustment tool
13. Front and rear slag rubber
14. Electrical box and controller.

Model		Unit	XW6H
Working desk size		mm	305*1370
Stroke	Left and right (X)	mm	770
	Before and after (Y)	mm	405
	Up and down (Z)	mm	505
	Spindle travel	mm	127
Vertical axis	Speed		70-5440rpm (16 speed)
	Taper		NT40
	horsepower		5HP
	Speed		100-2000rpm (stepless speed regulation)
Horizontal axis	Taper		NT40
	horsepower		5HP
Maximum table load		kg	500
Maximum distance from the end of the vertical shaft to the work surface		mm	505
Distance from the centerline of the horizontal axis to the work surface			-160mm—+340mm
Distance from the end of the horizontal axis to the inside of the table			50mm—400mm
Machine size		mm	1700*1700*2450
Machine weight		kg	2400

Optional accessories:	
1. Pneumatic broach device	2. Vertical axis stepless speed regulation
3, X / Y axis cutter (electronic / mechanical / servo)	4. Z-axis stepless speed regulation
5. Oil mist cooling device	6. Optional three-axis digital display or spindle sleeve feed depth digital display
7. Spindle stepless speed regulation feed (single axis CNC ZNC)	



CNC LATHE

CNC lathe

CK6136,6140,6150

OID MECHANICAL PARTS MACHINE SERIES



Since its development, it has been continuously improved and improved. It has become a mature product, and its users are widely used in many industries across the country. It is widely used in large-scale machining of auto parts, motorcycle parts, valves and other parts. The spindle adopts high-precision rolling bearing support, high rotation precision, X and Z axes adopt high-precision ball screw drive, good dynamic performance and high positioning accuracy. Integral bed foot, good stability, the guide rail is made of wear-resistant cast iron, and it can maintain the processing precision and service life by super-audio quenching and precision grinding for a long time. The working clamping method can be selected by manual three-jaw chuck or press The user requires a hydraulic chuck and a hydraulic tailstock.

The standard configuration

1. CNC GSK928TD-L system
2. Vertical 4-station electric knife holder
3. Φ 250 manual three-jaw chuck
4. Independent spindle infinitely variable speed
5. Manual tailstock
6. X and Z axis servo motor
7. Pair ball bearing, high speed grease

Model	CK6136	CK6140	CK6150
Max. swing over bed	360mm	400mm	500mm
Bed width	360mm		
Max. swing over slide	180mm	210mm	310mm
Workpiece cutting length	750mm	1000mm	1500mm
Spindle hole	ϕ52mm / ϕ82mm		
Spindle nose	ISO-C6 / ISO-C8		
Spindle taper	MT6 / 1:20		
Main motor power	4.0kw / 5.5kw / 7.5kw		
Spindle speeds	100-1600 (infinitely variable speed)		
Z axis screw Dia.×Pitch	Φ40×6		
X axis screw Dia.×Pitch	Φ25×4		
Tool positions of the turret	4 (standard) 20×20 / 25×25		
Taper of tailstock sleeve	MT4 or MT5		
Diameter of tailstock sleeve	Φ65 or ϕ75		
Travel of tailstock sleeve	130mm		
Net weight (kg)	1400	1500	1700
Packing size (L×W×H)	2180×1420×1660	2480×1420×1660	3000×1420×1660



Machine features:

1. Adopting imported linear rolling guides from Taiwan to meet high-speed and high-efficiency requirements, reducing frictional resistance and temperature rise deformation, improving machining accuracy, and ensuring long-term stability of machining accuracy;
2. The inclined bed CNC lathe adopts the domestic or imported high-rigidity horizontal hydraulic servo turret tool holder, which has high positioning accuracy, fast tool change speed and small re-cutting deformation;
3. Standard configuration: stepless speed regulation of the spindle, hydraulic chuck, hydraulic tailstock, horizontal eight-station tool holder, closed protection;
4. The inclined bed CNC lathe adopts a 45-degree overall inclined bed structure, which can maintain the stability of the machine precision when re-cutting;
5. X, Z-axis servo motor is directly connected with the precision ball screw through the elastic coupling, the precision is high, and the two ends of the screw are fixed, which improves the support rigidity of the support seat, makes the frequent high-speed positioning, and causes the wire when re-cutting. Bar distortion is minimized, bearing is excellent
Special domestic screw for 60 degree angular contact paired precision bearings, high speed, high precision;
6. High precision, high rigidity, built-in hydraulic tailstock, automatic hydraulic locking;



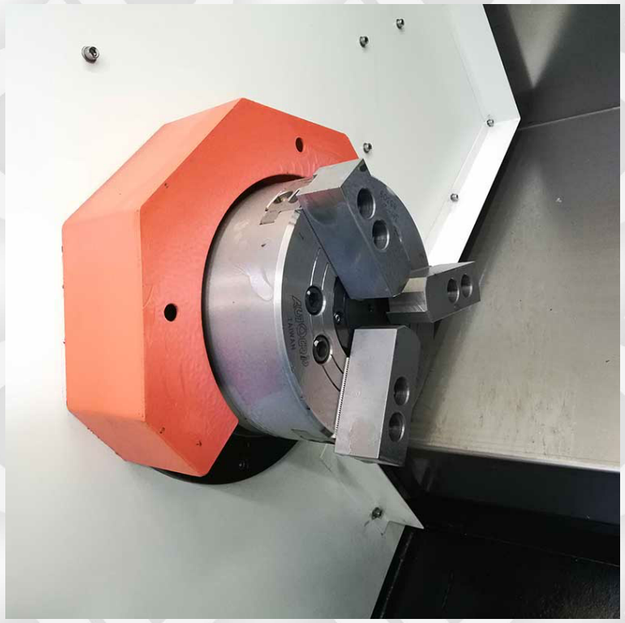
7. When the bed CNC lathe is designed, the spindle head bearing adopts double row cylindrical roller bearing with high rigidity, and the heat dissipation adopts corresponding measures to reduce the thermal deformation of the spindle, so that the spindle can maintain the relative stability of the spindle axis during long-term operation;
8. The inclined bed CNC lathe adopts full rail protection, and the cooling box and chip conveyor are separated from the main machine to ensure the accuracy of the machine tool from thermal cutting;
9. The electrical unit of the machine tool has good sealing performance and has electric cabinet air conditioner to ensure the normal operation of the CNC system under high temperature and high humidity environment.
10. The machine tool pays attention to the design of the edge technology, reliable protection, strong cutting, strong high pressure injection of coolant, no iron filings, cooling
Liquid splash leaks outside the machine;
11. Hydraulic chuck clamping, loosening and tailstock sleeve expansion and contraction, except for program control, can be controlled by foot pedal, which is convenient and quick;
12. Hydraulic pressure adjustment adopts panel type rotary operation, dial display, adjustment is safe and convenient.

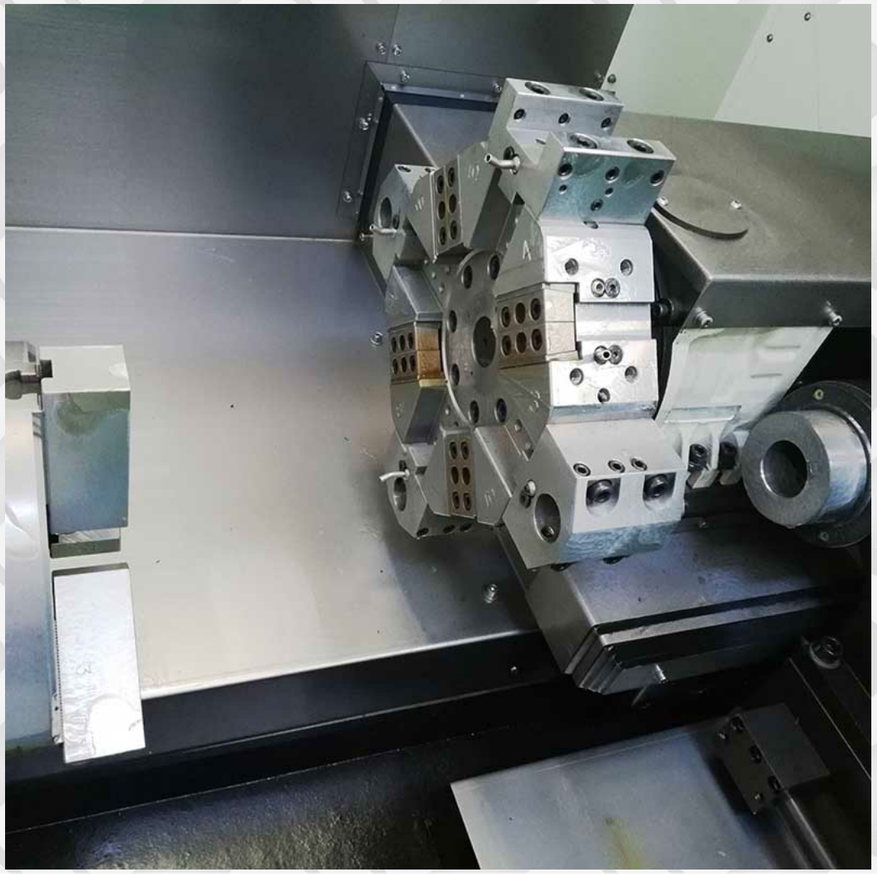
CNC lathe

DYL400K

OID MECHANICAL PARTS

MACHINE SERIES





Configuration / model	Unit	DYL400K
Maximum turning diameter on the bed	mm	400
Maximum turning diameter on the carriage	mm	250
Maximum processing length	mm	450
Spindle end form	GB59001	A2-6
Spindle through hole diameter	Φ/mm	62
Maximum bar through diameter	Φ/mm	45
Spindle speed range	r/min	50-3000
Spindle shifting mode		Servo
Spindle output torque	Nm	72
Main motor power (continuous value)	Kw	11
Main motor power (instantaneous maximum)	Kw	15
Chuck form (standard / optional)		Zhongshi Hydraulic / Hollow Hydraulic Chuck
Chuck diameter	Φ/mm	250
X-axis fast moving speed	m/min	16
Z axis fast moving speed	m/min	20
X-axis servo motor torque	Nm	7,5
Z-axis servo motor torque	Nm	7,5
Z-axisX axis travel	mm	220
Z-axis travel	mm	490
Rail form		Oblique rail (HIWIN) rail
Tool holder form		Eight-station electric turret
Square knife / file size	mm	25*25/Φ40
Tailstock sleeve diameter / stroke	mm	Φ88/85
Tailstock form		Hydraulic
Tailstock sleeve taper		Mohs 5 MT5
Chip conveyor form (additional purchase)		Chained
Machine weight	KG	2800
Machine size	L*W*H (mm)	2610*1930*1800
Plus purchase configuration		Chip conveyor



GRINDER MACHINE

Grinder Machine HF618S



1. The main castings of this machine are made of high-grade cast iron, and are annealed to eliminate internal stress, ensuring high precision, high rigidity and long machine life.
2. The left and right front and rear double V slides are affixed with wear-resistant resin TURCITE-B, and the precision shovel is not only smooth and wearable, but also suitable for forming and grinding.
3. This machine's straight-through spindle adopts P4 grade ultra-precision bevel ball bearing. It has low noise, no vibration and large torque under high-speed rotation, suitable for heavy cutting and forming grinding.
4. The circulating automatic lubrication system is adopted. When the spindle is started, the lubricating oil is automatically circulated to provide forced lubrication to each screw and slide, which can greatly reduce the wear of the slide. An oil mirror is mounted on the top of the machine to monitor the lubrication.

Axis 1U digital display, grinding wheel and flange, grinding wheel remover, grinding wheel wrench, dressing seat, lifting ring, track lubricating oil, dense permanent magnet sucker, vacuum box or cooling water tank, toolbox set, balance bar, level adjustment Screws, foot pads, accuracy checklist, instruction manual.

Project	Content	HF618S
Processing capacity	Maximum grinding length	480mm
	Maximum grinding width	160mm
	Spindle center to table distance	400mm
	Standard disk size	150mm*400mm
about	Workbench area (length * width)	475mm*150mm
	Maximum left and right travel	486mm
Before and after	Maximum travel before and after	180mm
	Handwheel per turn feed	5mm
	Handwheel feed per scale	0.02mm
Lifting	Handwheel per turn feed	1mm
	Handwheel feed per scale	0.005mm
Spindle	Spindle speed (50/60HZ)	3600/300 RPM
	Spindle motor	1.5HP
	Grinding wheel (outer diameter * thickness * inner diameter)	180mm*16mm*31.75mm
Machine size (length * width * height)		1400mm*1150mm*1980mm
Machine weight		720kg