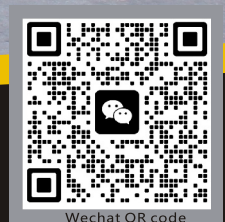


YORNEW[®]

— Small CNC Machine —

We Manufacture Of Professional Small CNC Machines



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ABOUT US

Yornew Automation Equipment Co., Ltd. is the famous manufacturer of affordable small CNC machines and CIM&FMS Industry 4.0 equipment for education. Our company was started because we felt there was a real need among entrepreneurs, researchers, educators, and hobbyists to enter the world of CNC manufacturing and CNC, CIM&FMS industry 4.0 education. Through our website, manuals, training, software, tooling, and engineered accessories, we are working to make CNC machining and built CIM&FMS Industry 4.0 equipment easy to learn and productivity quick to achieve. Yornew try to make mini or small safe equipment relative to big industrial equipment in order to more educational agency and people can buy the advance equipment with limited budget, limited space. Yornew applauds the innovators among us and is dedicated to providing the tools they need to support their ambitions. the small CNC machines are suitable for vocation school, university, maker, teaching aids, prototyping, garage cnc

Yornew Workshop



The common choice of 3000+ users Focus on the education, training R&D and prototyping manufacturing of small CNC machine tools for 16 years



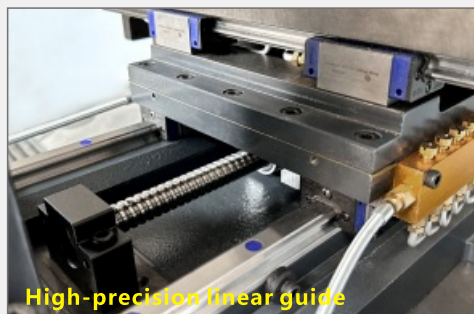
Small CNC Milling Machine (Product No: MX220)



Shown with not available with flood coolant ATC model



The brand new MX220 is a powerful mini CNC machine, affordable, easy to use, very stable, and requires very little maintenance. Using a single-phase power without the need for expensive industrial three-phase power. High performance 5 axis milling CNC controller, support rotation tool center point (RTCP), support multi and language interface display, the standard spec includes MPG hand wheel. Selection of high quality casting materials, High-precision linear guide and ballscrews. The standard is 3 axis CNC milling machine, optional 4th axis or 5th axis (adopt harmonic reducer), with totally enclosed high visibility interlocking guard. The MX220 has a more powerful, higher speed spindle (24000rpm) for heavy duty cutting or router cutting. Now available with the option of automatic tool change system (ATC), flood coolant with industrial cabinet base and automatic aligning instrument. Programmable spindle speeds and feedrates make the MX220 ideal for cutting a range of resistant materials such as free cutting alloys, aluminium, steel, plastic, acrylic. Suitable for all levels of education and training or DIY workshop.



Optional color ,cabinet base and ATC

NB The Cabinet Base model comes complete with Flood Coolant



Recommended software programs

Such as MasterCAM、UG、 Fusion360, SolidWorks, ArtCAM software is required

Optional Accessories



Edge Finder



Clamping Kit



Quick Vice



Carbide End Mill



HSS End Mill



HSS Ball-End Mill



Z Axis Tool Setter



4th Axis and Tail Stock



5 Axis Rotary Table

As Standard With

T nut	M10x2
Inner Hexagon Wrench	S=3
Inner Hexagon Wrench	S=4
Inner Hexagon Wrench	S=5
Inner Hexagon Wrench	S=6
Two-head Wrench	S=10/10
Two-head Wrench	S=14/17
Two-head Wrench	S=18/21
Plastic Oiler	1 Piece
Hook Wrench Head	S=30
Turn-angle flat pliers	80mm
Milling cutter	Φ4 + φ8
Twist drill	φ3.3
Mat	φ10*30*2
Bolt	M10*25
Machine Manual	1 Piece
Controller Manual	1 Piece
U Disk	1 Piece
Side Door Key	2 Pieces
Test Report	1 Piece



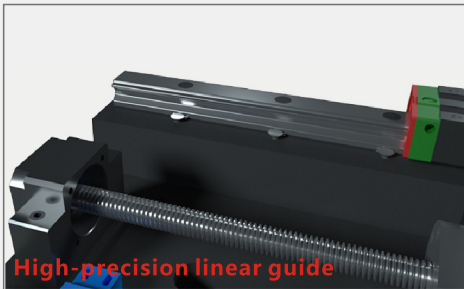
Technical Parameters

1	Positioning accuracy	0.02mm	
2	Repeatability accuracy	0.01mm	
3	X axis travel	230mm	
4	Y axis travel	130mm	
5	Z axis travel	220mm	
6	Options 5th axis	Backlash	Zero Backlash
		Max Speed 4th axis	4/R.P.M
		Max Speed 5th axis	6/R.P.M
		Accuracy 4th axis	±1 arc-min
		Accuracy 5th axis	±1 arc-min
		Repeatability 4th axis	20 arc-sec
		Repeatability 5th axis	20 arc-sec
		Homing	B axis
		Limits	+C, -C
		Travel	B axis: +30° to -125°, C axis: ±infinity
	B axis Output Flange Diameter	110mm	
7	Tool DIA. range	2-12mm	
8	Control system	KY1000MC CNC Controller	
9	Motor Type	Stepper Motor	
10	MPG hand wheel	5 axis	
11	Spindle motor	2.2kw	
12	Spindle speed	24000r/min	
13	The max moving speed	2000mm/min	
14	Options automatic tool change system(ATC)	6 Tools / ISO20 spindle taper	
15	Transmission	ball screw	
16	Guide rail	High-precision linear guide	
17	Table size	460*130mm	
18	Max. Load	30kg	
19	Table structure	Full cast iron	
20	Power	220VAC / 110VAC	
21	Weight(NW/GW)	180kg/220kg	
22	Overall dimension	930×650×920mm	
23	Packing size	970*850*1400mm	

Small 5 Axis CNC Machine Center (Product No: VMC300)



A Small 5 Axis CNC Machine Center, very stable. High performance 5 axis milling CNC control, support rotation tool center point (RTCP), support multi language interface display, the standard spec includes MPG hand wheel. Selection of high-quality casting materials, High-precision linear guide and ballscrews, XYZAC axis motor type are AC servo motor, 4th and 5th axis adopt harmonic reducer, with interlocking guard, with 10 station automatic tool changer and the flood coolant, with automatic aligning instrument, automatic lubrication system, ISO20 spindle type. Standard is 5 axis CNC milling machine, optional 3th axis or 4th axis CNC milling machine. The VMC300 has a more powerful, higher speed spindle (24000rpm) for cutting. Programmable spindle speeds and feedrates make the VMC300 ideal for cutting a range of resistant materials such as plastic, free cutting alloys, aluminium and steel. Recommended software programs, such as MasterCAM, UG, Fusion360, SolidWorks, ArtCAM software is required. Best choice for DIY or hobby user and education & training CNC.



High-precision linear guide



5th axis
Using maintenance free Harmonic Reducers



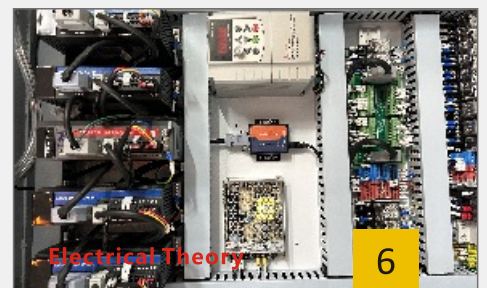
Automatic Tool Changer



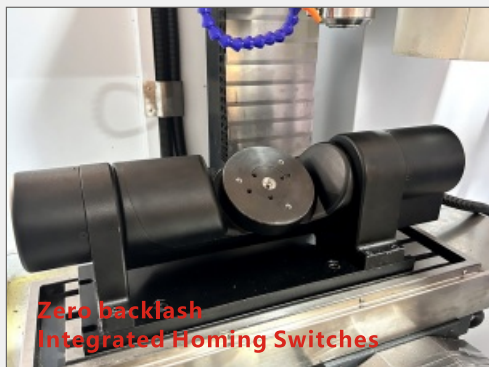
Automatic aligning instrument



Lubrication System



Electrical Theory



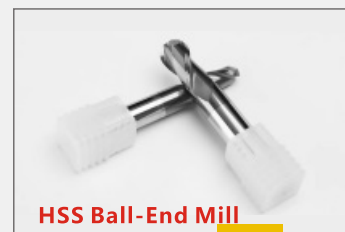
Recommended software programs

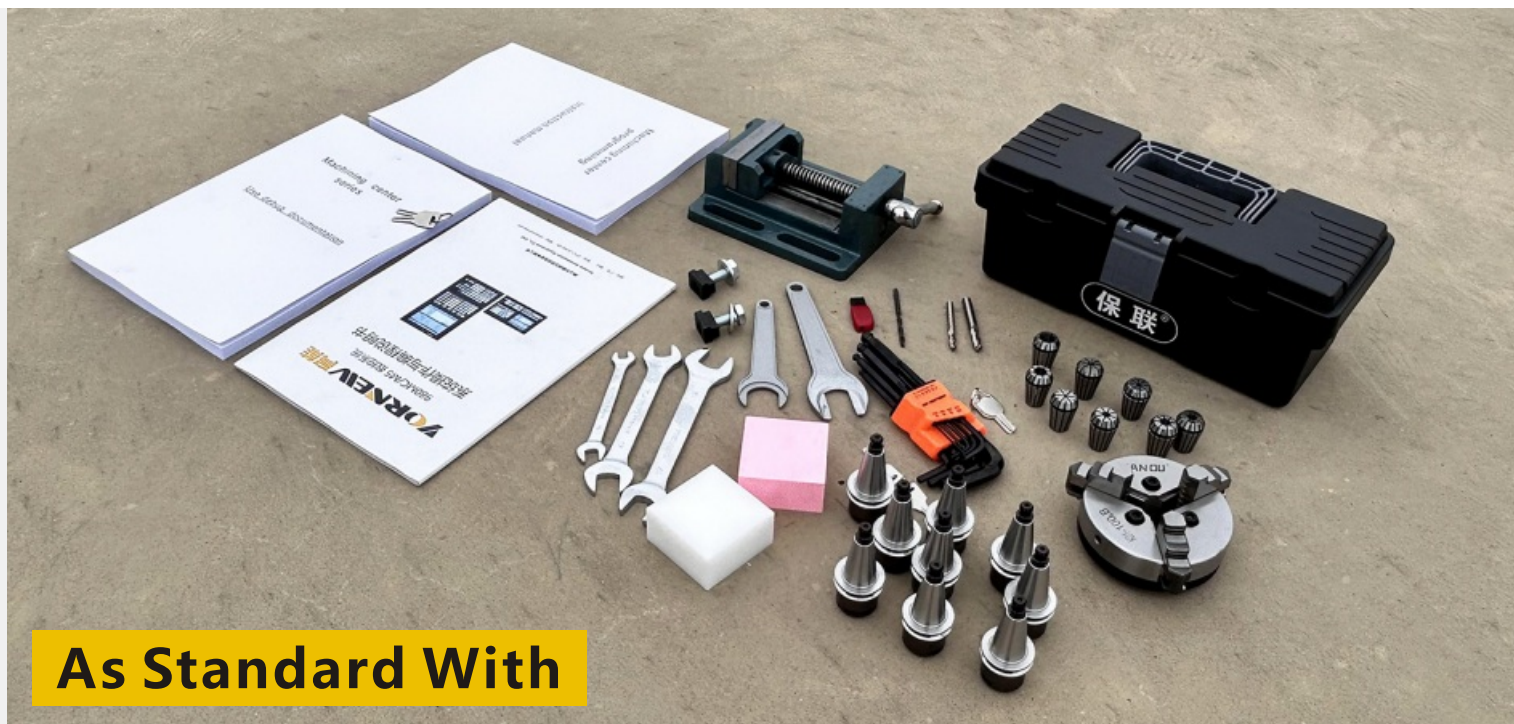
Such as MasterCAM、UG、Fusion360, SolidWorks, ArtCAM software is required

Optional colour



Optional Accessories





As Standard With

Technical Parameters

1	Positioning accuracy	0.02mm	
2	Repeatability accuracy	0.01mm	
3	X axis travel	310mm	
4	Y axis travel	180mm	
5	Z axis travel	290mm	
6	5th axis	Backlash	Zero Backlash
		Max Speed 4th axis	30/R.P.M
		Max Speed 5th axis	30/R.P.M
		Accuracy 4th axis	±1 arc-min
		Accuracy 5th axis	±1 arc-min
		Repeatability 4th axis	20 arc-sec
		Repeatability 5th axis	20 arc-sec
		Homing	A axis
		Limits	+C, -C
		4th axis Travel	A axis:+30° to -120°,
		5th axis Travel	C axis:±infinity
	C axis Output Flange Diameter	120mm	
7	Spindle taper	ISO 20	
8	Automatic tool change system(ATC)s	10 Tools	
9	Pneumatic supply	0.6 MPa	
10	Tool DIA.range	1-13mm	
11	Standard Size Collet	1-13mm	
12	Control system	5 axis CNC center machine controller	
13	MPG hand wheel	5 axis	
14	Spindle Power	2.2kw	
15	Spindle speed	100-24000rpm	
16	Motor Type	XYZAC axis AC Servor	
17	Rapid movement in X /Y/Z Axis	1-8000mm/min	
18	Feed rate in X/Y/Z Axis	1-4000mm/min	
19	Power of X/Y/Z Axis	AC Servo 750W	
20	Power of A/C Axis	AC Servo 200W	
21	Transmission	ball screw	
22	guide rail	High-precision linear guide	
23	Table size	550*180mm	
24	Number of T-slots	3	
25	Width of T-slot	12mm	
26	Table structure	Full cast iron	
27	Power	230VAC/110VAC	
28	Weight(NW/GW)	650/700kg	
29	Overall dimension	1360*990*1800mm	
30	Packing size	1400*1050*2000mm	

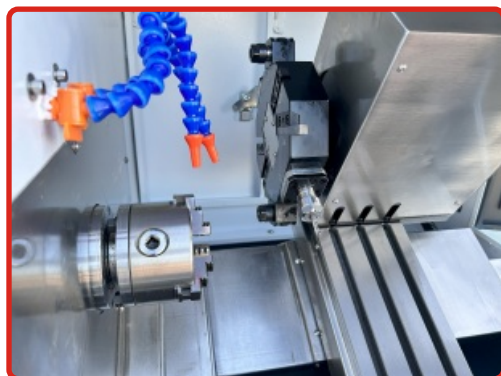
8

Small Turn-Mill CNC Machine (Product No: CX200)



The CX200 is a small CNC machine tool for turning and milling, featuring a dual spindle structure (milling spindle and turning spindle) and an 8-station automatic tool changer (4 turning tool positions, 2 milling tool positions, 2 drilling center hole positions). It integrates multiple functions such as turning, milling, and drilling, achieving multi-process machining in a single setup. It has advantages such as compact size, quiet operation, lightweight, and easy transportation (the machine is equipped with movable casters at the bottom); stable performance, low failure rate, low maintenance costs, and good rigidity. It uses a single-phase 220V power supply, comes with an interlock safety device, has a cast iron slant bed structure, is equipped with high-precision linear guides and ball screws, and includes a workpiece cooling liquid circulation system.





Technical Parameters

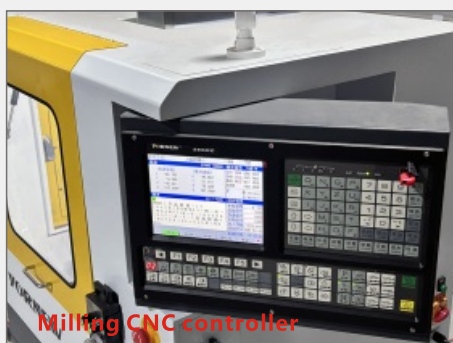
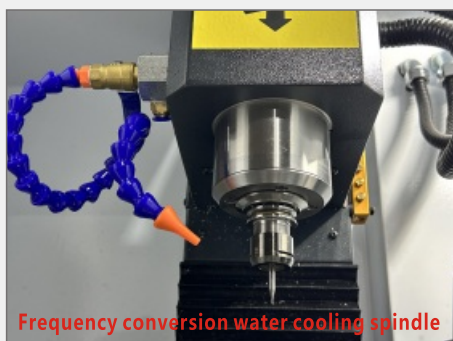
Repeated positioning accuracy	0.01mm
Positioning accuracy	0.02mm
Max. swing over bed	Φ200 mm
Spindle bore	Φ25 mm
Travel of axis X	140 mm
Travel of axis Z	80 mm
Travel of axis Y	80 mm
X/Y/Z axis motor	400W servo motor
X/Y/Z -axis fast moving velocity	5000 mm/min
X/Y/Z -axis max feeding velocity	4000 mm/min
Tool post stations	8 tools (4 lathe tool positions, 2 mill tool positions, 2 Drill tool positions)
Slant bed degree	30°
Guide rail	High-precision linear guide
Spindle clamping method	Three jaw chuck Φ100mm or ER40 collet chuck
Cutting tool shank	10mm*10mm
Mill spindle taper	ER16
Lathe spindle motor power	1.5kw
Lathe spindle speed	2000rpm/min
Mill spindle motor power	0.75kw
Mill spindle speed	3000rpm/min
Control system	KY 980Tc turning CNC system
Power	220VAC / 110VAC
Weight(NW/GW)	300/360KG
Overall dimension	1100×730×1500mm

Desktop CNC Machine Center (Product No: VMC200)



Optional Colour and Base

The VMC200 is a 3 axis small CNC machine center, available either floor standing or for bench mounting, with high performance 3 axis milling CNC controller, support multi language interface display, the standard spec includes MPG hand wheel. Selection of high-quality casting materials, High-precision linear guide and ballscrews, semi-automatic lubrication system, protect the rail life. 6 tools automatic tool change system (ATC), ISO20 spindle type, frequency conversion water cooling spindle motor, low noise, 24000rpm spindle supreme speed. Standard spec XYZ axis is stepper motor, option AC servo motor. With the option of flood coolant with industrial cabinet base and automatic aligning instrument. Ideal for cutting a range of resistant materials such as wax, plastic, acrylic, free cutting alloys, aluminium and steel. Recommended software programs (MasterCAM, UG, Fusion360, SolidWorks). Suitable for technology development, advertising design, art, vocational technical college education & training CNC and DIY enthusiasts.



Optional Accessories



Edge Finder



Clamping Kit



Quick Vise



Flood coolant



Z Axis Tool Setter



Carbide End Mill



HSS End Mill



HSS Ball-End Mill

As Standard With



Technical Parameters

1	X axis travel	230mm
2	Y axis travel	130mm
3	Z axis travel	220mm
4	Spindle taper	ISO20
5	Automatic tool change system(ATC)	6 Tools
6	Pneumatic supply	0.6 MPa
7	Tool DIA. range	1-13mm
8	Control system	KY1000MC CNC Controller
9	Spindle Power	2.2kw
10	Spindle speed	100-24000rpm
11	Motor Type	Stepper motor
12	The max moving speed	2000mm/min
13	The max feeding speed	1000mm/min
14	Positioning accuracy	0.02mm
15	Repeatability accuracy	0.01mm
16	Transmission	Ball screw
17	guide rail	High-precision linear guide
18	Table size	460*130mm
19	Number of T-slots	3
20	Width of T-slot	12mm
21	Table structure	Full cast iron
22	Power	230VAC / 110VAC
23	Weight(NW/GW)	180/230kg
24	Overall dimension	900×680×1000mm
25	Packing size	960×750×1200mm

Small Educational CNC Mill Machine

VMC200-FANUC



YORNEW's VMC200-FANUC small education CNC mill machine offers a small footprint, it provides full CNC capabilities in a compact space. Moreover, this efficiently competent small CNC mill comes at an affordable price, with Fanuc Series I0-MF Plus controller, selection of high-quality casting materials, high-precision linear guide and ballscrews, automatic lubrication system. Option 5 tools automatic tool change system(ATC), frequency conversion water cooling spindle motor, low noise, 24000rpm spindle supreme speed. Standard spec XYZ axis is AC servo motor. With the of flood coolant with industrial cabinet base and and automatic aligning instrument. It can process ferrous metal stainless steel, 45 steel, non-ferrous metal copper, aluminum, plastic and wood and other different materials. Suitable for ocational technical college Education & Training CNC.

Whith Fanuc Series Oi-MF Plus Controller

The Fanuc Series Oi-MF Plus provides the ideal solution for basic milling applications.



Small Educational CNC Mill Machine
VMC200-FANUC

Technical parameters		
Description	Standard	Optional
X axis travel	230mm	
Y axis travel	130mm	
Z axis travel	220mm	
A axis travel	-	360°
Spindle taper	ER20	ISO20
Automatic tool change system	-	5 Tools
Pneumatic supply	-	0.6 MPa
Tool DIA. Range	1-13mm	
Control system	Fanuc Series Oi-MF Plus Controller	SINUMERIK 808D
Spindle power	2.2kw	
Spindle speed	100-24000rpm	
Spindle Cooling	Water Cooled / 10L	
Work-piece cooling	Water Cooled /29L	
XYZ axis motor type	400W AC server motor	
Rapid feed rate	10000mm/min	
Cutting feed rate	5000mm/min	
Positioning accuracy	0.02mm	
Repeatability accuracy	0.01mm	
Transmission	ball screw	
guide rail	High-precision linear guide	
Table size	460*130mm	
Number of T-slots	3	
T-Slot Width	12mm	
Max Weight on Table (evenly distributed)	30kg	
Table structure	Full cast iron	
Power	380VAC (3 Phase)	
Weight(NW/GW)	250/350kg	
Overall dimension	980×740×1600mm	
Packing size	1100×800×800mm	

Optional Accessories

Edge Finder

Clamping Kit

Quick Vice

4th Axis and Tail Stock

Z Axis Tool Setter

Carbide End Mill

HSS End Mill

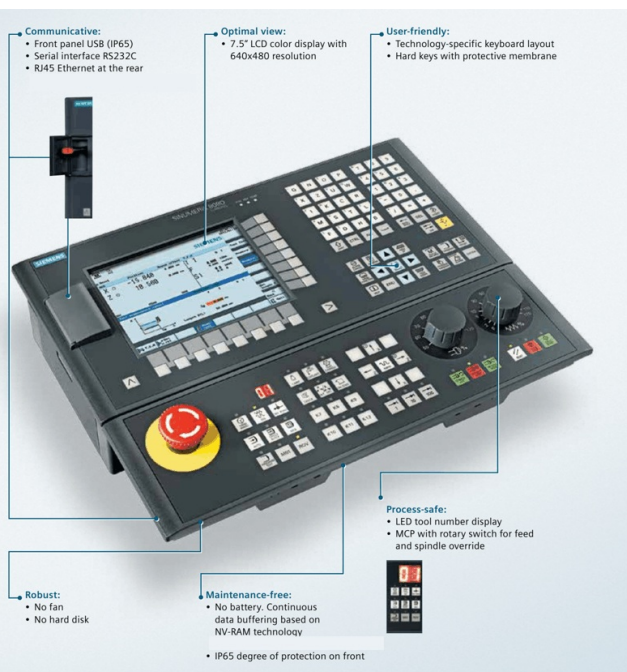
HSS Ball-End Mill

Small Educational CNC Mill Machine

VMC200-Siemens



YORNEW's VMC200-Siemens small education CNC mill machine offers a small footprint, it provides full CNC capabilities in a compact space. Moreover, this efficiently competent small CNC mill comes at an affordable price, with SINUMERIK 808D controller, selection of high-quality casting materials, high-precision linear guide and ballscrews, automatic lubrication system. Option 5 tools automatic tool change system(ATC), frequency conversion water cooling spindle motor, low noise, 24000rpm spindle supreme speed. Standard spec XYZ axis is AC servo motor. With the of flood coolant with industrial cabinet base and and automatic aligning instrument. It can process ferrous metal stainless steel, 45 steel, non-ferrous metal copper, aluminum, plastic and wood and other different materials. Suitable for ocational technical college Education & Training CNC.



Whith SINUMERIK 808D Controller



Small Educational CNC Mill Machine
VMC200-Siemens

Technical parameters		
Description	Standard	Optional
X axis travel	230mm	
Y axis travel	130mm	
Z axis travel	220mm	
A axis travel	-	360°
Spindle taper	ER20	ISO20
Automatic tool change system	-	5 Tools
Pneumatic supply	-	0.6 MPa
Tool DIA. Range	1-13mm	
Control system	SINUMERIK 808D	Fanuc Series OI-MF Plus Controller
Spindle power	2.2kw	
Spindle speed	100-24000rpm	
Spindle Cooling	Water Cooled / 10L	
Work-piece cooling	Water Cooled /29L	
XYZ axis motor type	400W AC server motor	
Rapid feed rate	10000mm/min	
Cutting feed rate	5000mm/min	
Positioning accuracy	0.02mm	
Repeatability accuracy	0.01mm	
Transmission	ball screw	
guide rail	High-precision linear guide	
Table size	460*130mm	
Number of T-slots	3	
T-Slot Width	12mm	
Max Weight on Table (evenly distributed)	30kg	
Table structure	Full cast iron	
Power	380VAC (3 Phase)	
Weight(NW/GW)	250/350kg	
Overall dimension	980×740×1600mm	
Packing size	1100×800×800mm	

Optional Accessories

Edge Finder

Clamping Kit

Quick Vice

4th Axis and Tail Stock

Z Axis Tool Setter

Carbide End Mill

HSS End Mill

HSS Ball-End Mill

Small CNC Milling Machine (Product No: XK200)



The XK200 is a mini CNC milling, , easy to operate, very stable. With high performance 4 axis milling CNC controlle, support multi language interface display, the standard spec includes MPG hand wheel. Selection of high -quality casting materials, High-precision linear guide and ballscrews, semi-automatic lubrication system, with totally enclosed high visibility interlocking guard, frequency conversion water cooling spindle motor, 24000rpm spindle supreme speed(option brushless DC motor, 300-3500r/min). Standard spec XYZ axis is stepper motor, option AC servo motor. With the option of automatic aligning instrument and 4th axis (adopt harmonic reducer). Ideal for cutting a range of resistant materials such as wax, plastic, acrylic, free cutting alloys, aluminium and steel. Recommended software programs(MasterCAM、UG、Fusion360、SolidWorks). Suitable for technology development, advertising design, art, ocational technical college Education & Training CNC and DIY enthusiasts.

Optional 4th axis

Backlash: Zero Backlash
Max Speed: 6 RPM
Motor Type: Stepper Motor
Travel: \pm infinity
Flange Diameter: 80mm



Optional colour and cabinet base

NB The XK200 model no comes complete with flood coolant



Optional Accessories



Edge Finder



Clamping Kit



Quick Vice



4th Axis and Tail Stock



Z Axis Tool Setter



Carbide End Mill



HSS End Mill



HSS Ball-End Mill

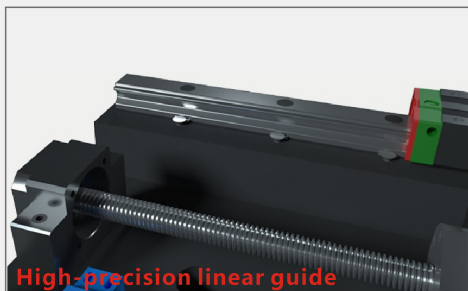
Technical Parameters

1	XYZ axis travel	230/130/220mm
2	Tool DIA. range	2-12mm or 4-16mm
3	Control system	KY1000MC CNC Controller
4	MPG hand wheel	4 axis
5	Spindle motor power	2.2kw (option brushless DC motor 750W)
6	Spindle speed	100-24000r/min (brushless DC motor,300-3500r/min)
7	Spindle taper	ER20(brushless DC motor, MT3)
8	The max moving speed	2000mm/min
9	XYZ axis motor Type	Stepper motor(option AC servo motor)
10	The max feeding speed	1000mm/min
11	Positioning accuracy	0.02mm
12	Repeatability accuracy	0.01mm
13	Transmission	ball screw
14	guide rail	High-precision linear guide
15	Table size	460*130mm
16	T slot (amount*width)	35*12mm
17	Table structure	Full cast iron
18	Power	220VAC / 110VAC
19	Weight(NW/GW)	165/200kg
20	Overall dimension	850*650*1000mm
21	Packing size	930*750*1200mm

Small CNC Milling Machine (Product No: XK300A)



The XK300A is a small CNC milling, with high performance 4 axis milling CNC controlle, support multi language interface display, the standard spec includes MPG hand wheel. Selection of high -quality casting materials, High-precision linear guide and ballscrews, XYZ axis motor type are AC servo motor(option 4th axis ,adopt harmonic reducer). With interlocking guard, with the flood coolant, automatic Lubrication System, BT30 spindle type. The XK300A has a more powerful, higher speed spindle (3500rpm) for heavy duty cutting. Programmable spindle speeds and feedrates make It ideal for cutting a range of resistant materials such as plastic, free cutting alloys, aluminium and steel. Recommended software programs(MasterCAM、UG、Fusion360, SolidWorks). XK300A small CNC mill is perfect for schools, small job shops, or as a second machine.



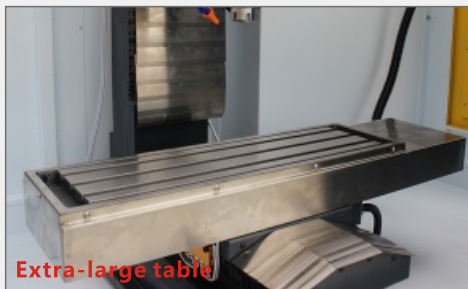
High-precision linear guide



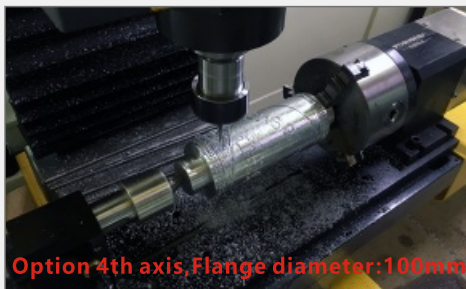
BT30 spindle, with flood coolant



Lubrication System



Extra-large table



Option 4th axis, Flange diameter: 100mm



With flood coolant

Optional Accessories



Edge Finder



Clamping Kit



Quick Vice



4th Axis and Tail Stock



Z Axis Tool Setter



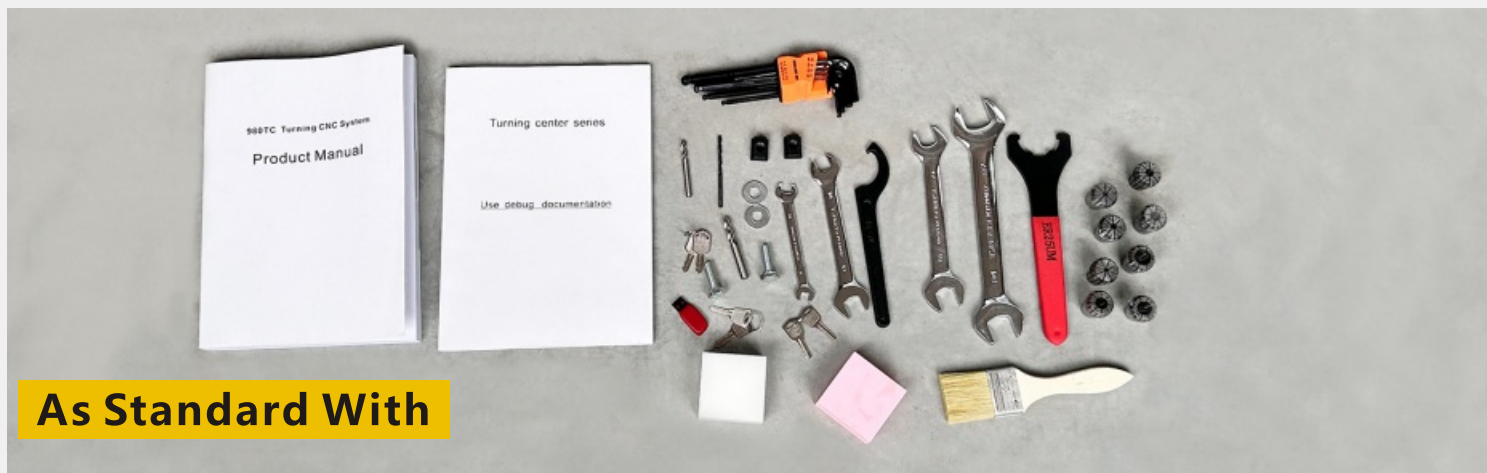
Carbide End Mill



HSS End Mill



Vacuum Table



As Standard With

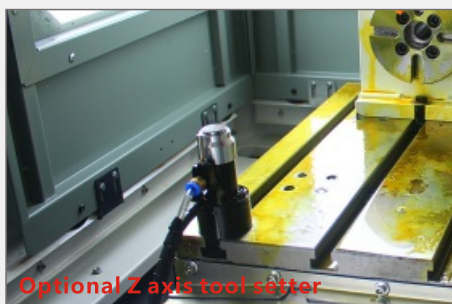
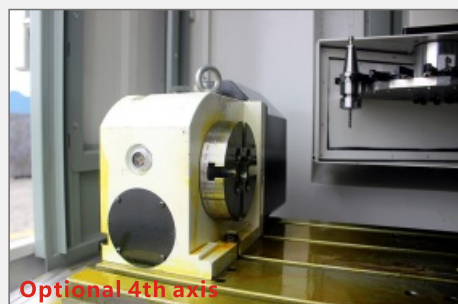
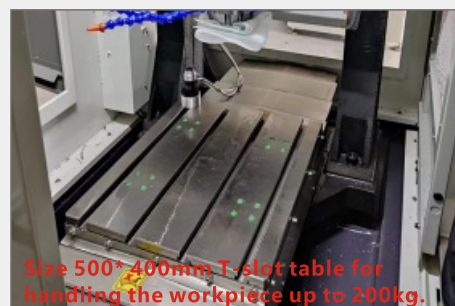
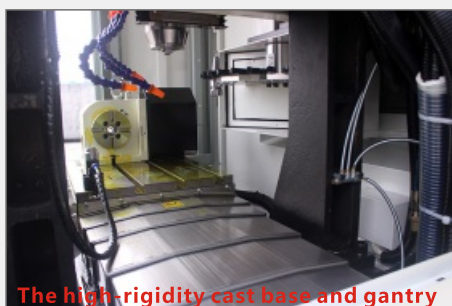
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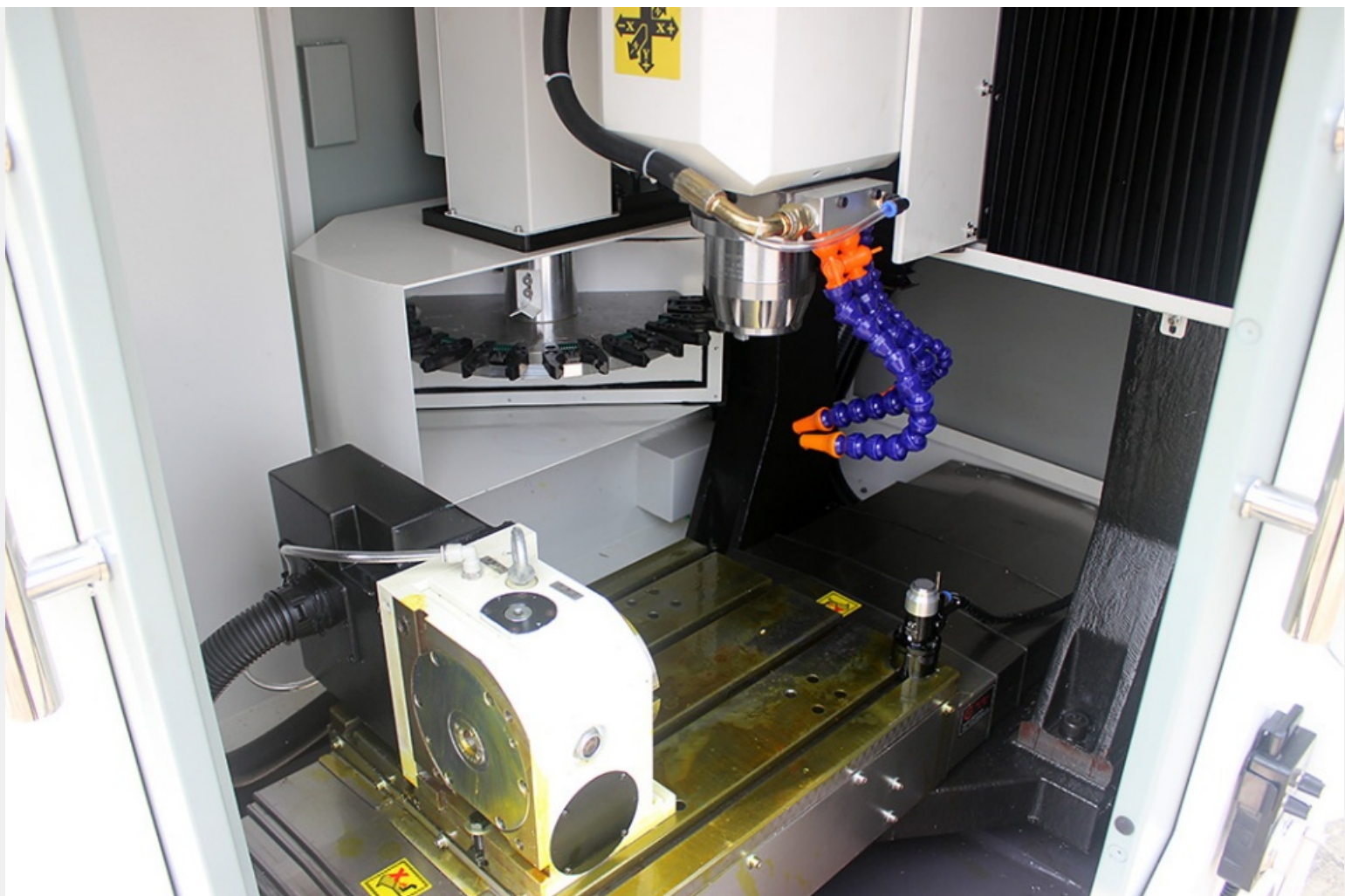
1	X axis travel	310mm
2	Y axis travel	180mm
3	Z axis travel	290mm
4	A axis Rotate(optional)	Backlash:Zero Backlash
		Max Speed:6 RPM
		Motor Type: Stepper Motor
		Travel: ±infinity
		Flange Diameter:100mm
5	Table size	550*180mm
6	Spindle taper	BT30
7	Tool DIA. range	4-16mm
8	T slot (amount*width)	3*12mm
9	Positioning accuracy	0.02mm
10	Repeatability accuracy	0.01mm
11	Control system	KY1000MC CNC Controller
12	MPG hand wheel	4 axis
13	Spindle motor	1.5KW(2.2KW optional)
14	Spindle speed	300-3500r/min(24000r/min optional)
15	The max moving speed	8000mm/min
16	The max feeding speed	4000mm/min
17	Power of X/Y/Z	Servo motor 750W
18	Transmission	ball screw
19	Max. load	40kg
20	Table structure	Full cast iron
21	Guide rail	High-precision linear guide
22	Power	230/120V
23	Weight(NW/GW)	600/650kg
24	Overall dimension	1360*990*1800mm
25	Packing size	1400*1050*2000mm

Small Drilling & Milling Center (Product No: MX400)



MX400 Small Drilling & Milling Center, with high performance 4 axis milling CNC controlle, support multi language interface display, the standard spec includes MPG hand wheel. Selection of high -quality casting materials, High-precision linear guide and ballscrews, XYZ axis motor type are AC servo motor (optional 4th axis). with the flood coolant, automatic Lubrication System, BT30 spindle type. The MX400 has a higher speed spindle (6000rpm, option 24000rpm). It is suitable for 8-station processing of copper, iron, aluminum, and stainless steel workpieces with in 500mm*400mm. The operation is compatible with the general machining center in the market and supports drilling, tapping, milling, engraving, and other functions. Using such as high rigidity and anti-deformation structure, it is suitable for processing stainless steel parts with tapping within 8mm and drilling within 10mm.





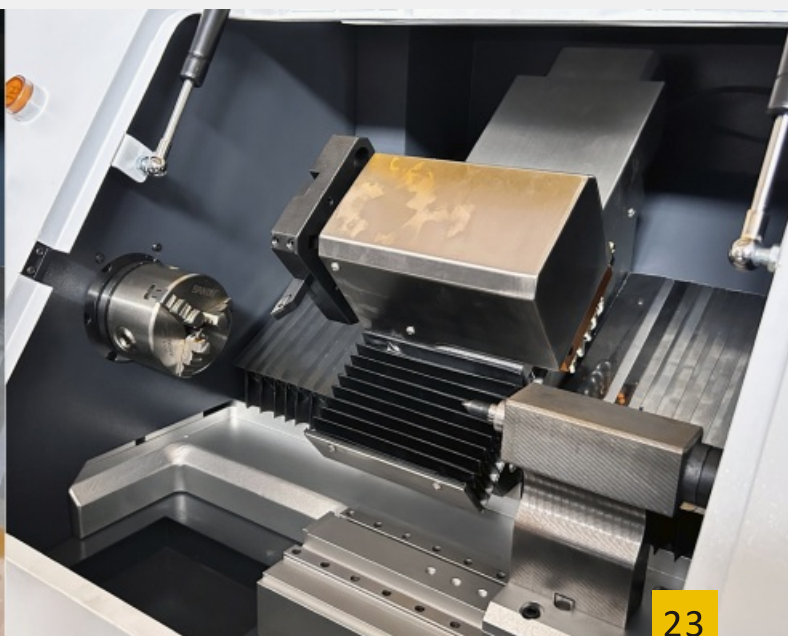
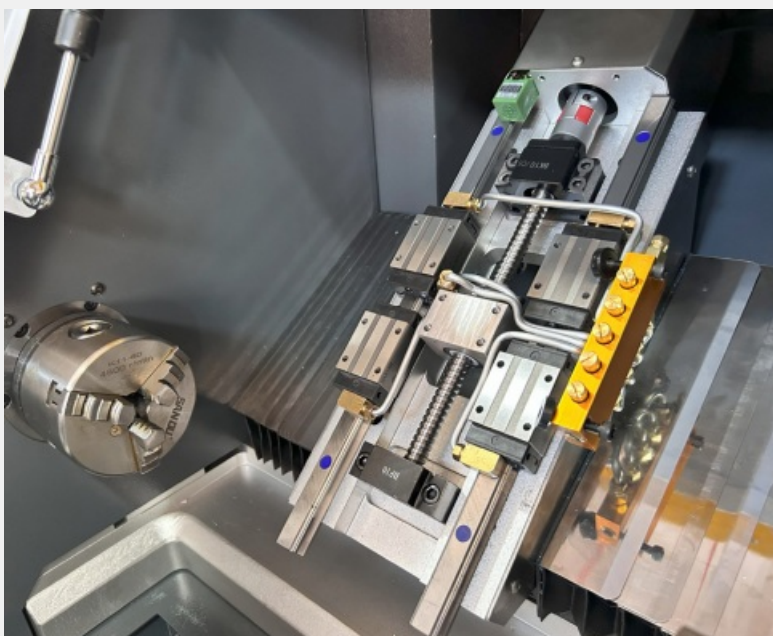
Technical Parameters

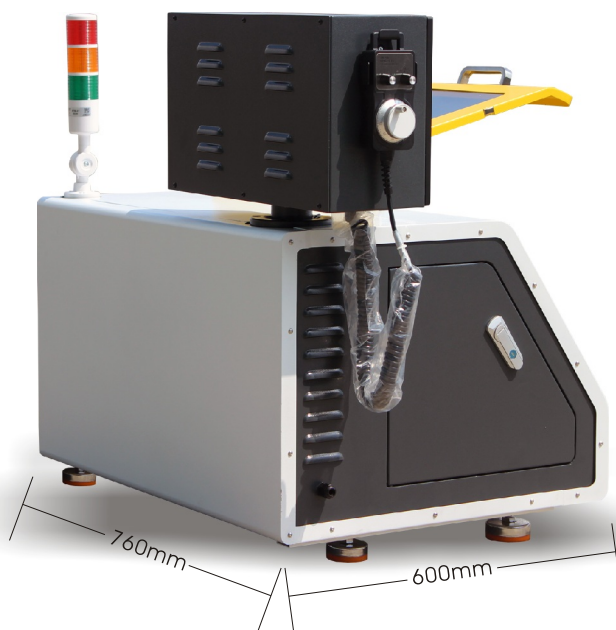
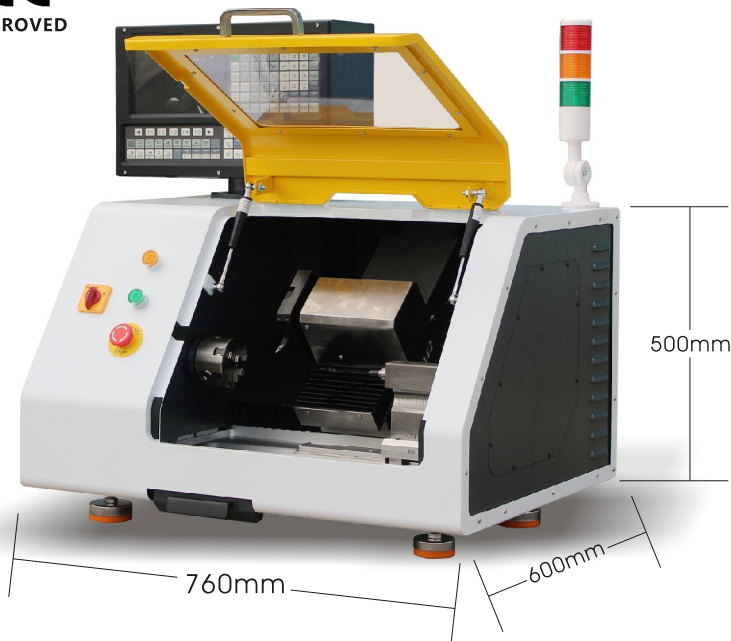
Spindle type	Mechanical	High-speed
Max Spindle Speed	6000 rpm	24000 rpm
Spindle Power	3 Kw	4.5 Kw
Spindle Taper	BT30	
Repeat positioning accuracy	±0.01 mm	
XAxis Travel	400 mm	
YAxis Travel	500 mm	
Z Axis Travel	200 mm	
Motor Power(X/Y)	0.75 Kw AC Servo	
Motor Power(Z)	1.2 Kw AC Servo	
Rapid feed rate(X/Y)	35000 mm/min	
Rapid feed rate(Z)	25000 mm/min	
Cutting feed rate	10000 mm/min	
ATC tool number	8	
Pneumatic supply	0.5 MPa	
Collet chuck	ER25	
Tool DIA. Range	1-16 mm	
Transmission	Taiwan Ball Screw	
Guide rail	Taiwan High-precision linear guide rail	
Table size	400*500 mm	
Max. Load	200 Kg	
Power supply	3 phase 380V	
N / G Weight	2000/2100 kg	
Machine Size	1400*1100*2000 mm	
4th axis (optional)	Φ125 mm Φ170 mm	

Desktop CNC Lathe (Product No: CK150)



CK150 is a desktop CNC lathe , equipped with the KY980Tc turning CNC system, supporting a multi-language interface display. The standard specifications include an MPG handwheel and an automatic 8-position tool. It uses a single-phase power supply and features a slant bed lathe, high-precision linear guides, and ball screws. The XZ-axis motor types can be stepper motors or servo motors. It is equipped with interlocking protection devices and has various functions: turning inner and outer cylindrical surfaces, end faces, conical surfaces, and shaft threads, etc. It is very suitable for processing wax, plastic, acrylic, easy-to-cut alloys, aluminum, and copper materials. It is the best choice for DIY enthusiasts as well as education and training in CNC.





Technical Parameters

Repeated positioning accuracy	0.01mm
Positioning accuracy	0.02mm
Max. swing over bed	Φ200 mm
Max. cutting dia. for axle parts	60mm
Max. cutting length for axle parts	190mm
Spindle bore	Φ16 mm
Spindle speed	2000 rpm/min
Spindle motor power	750W
Travel of axis X	90 mm
Travel of axis Z	190 mm
Slant bed degree	40°
Guide rail	High-precision linear guide
Spindle clamping method	Three jaw chuck Φ80mm or ER32 collet chuck
Cutting tool shank	10×10mm
Automatic tool change system(ATC)	8 tools
XZ-axis fast moving velocity	3000 mm/min
XZ-axis max feeding velocity	2000 mm/min
Control system	KY 980Tc turning CNC system
Power	220VAC / 110VAC
Weight(NW/GW):	120/150KG
Overall dimension	760×600×800mm

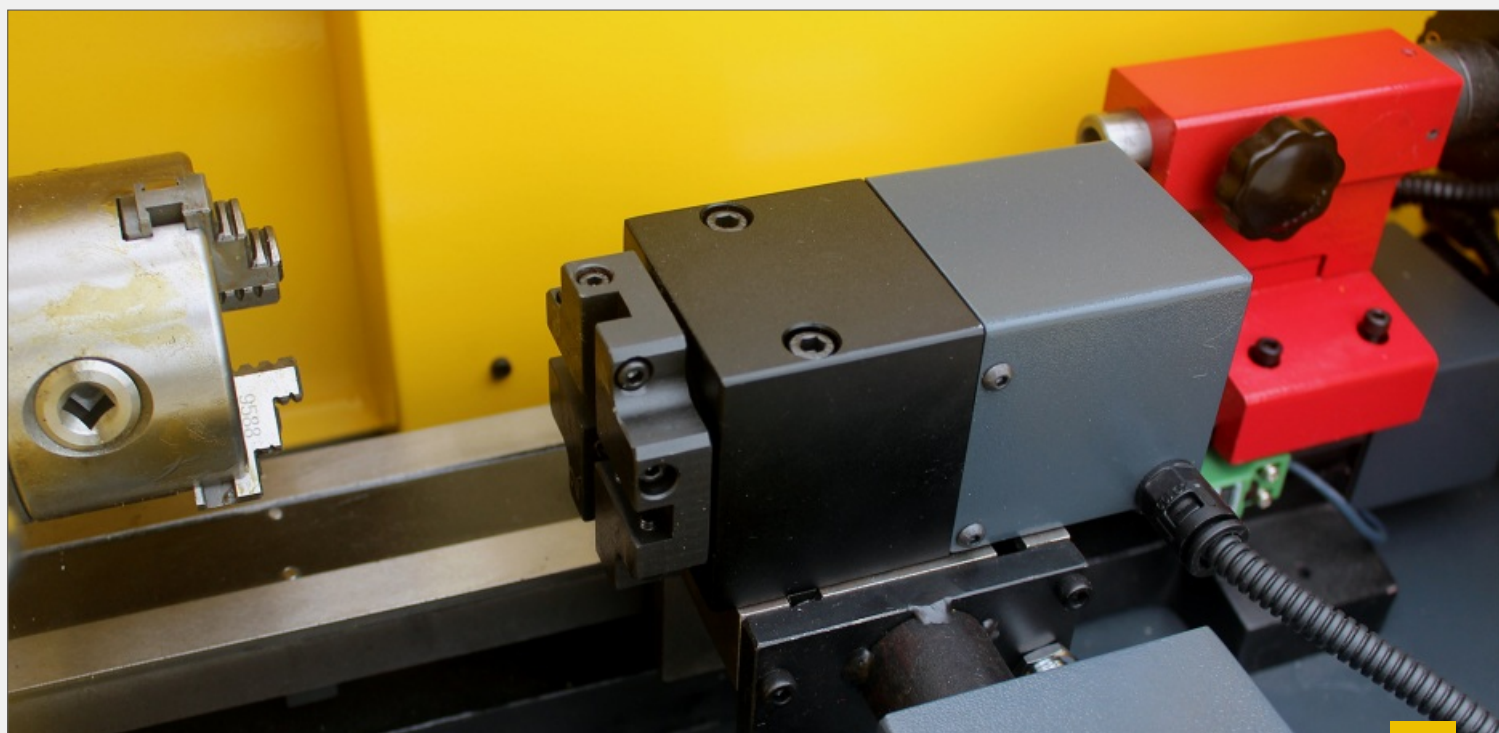
Small CNC Lathe (Product No: CK140)



CE
APPROVED



The CK140 is a desktop CNC lathe, with KY980Tc Turning CNC System, support multi language interface display, the standard spec includes MPG hand wheel, automatic 4 positions tool post. Using a single-phase power, selection of high -quality casting materials, ballscrews, XZ axis motor type are stepper motor. With interlocking guard, has several functions: turning inner and outer cylindrical surface, end surface, taper surface and thread of shaft, etc. Ideal for cutting a range for wax, plastic, acrylic, free cutting alloys, aluminium and cuprum. Best choice for DIY or hobby user and education & training CNC.



Optional colour and cabinet base

NB The CK140 model no comes complete with flood coolant



Optional Accessories



Cutter set
(tips replacement)8×8mm



Cutter 11 pieces set



4-jaw chuck
(independent)with flange



Rolling center



Tailstock chuck

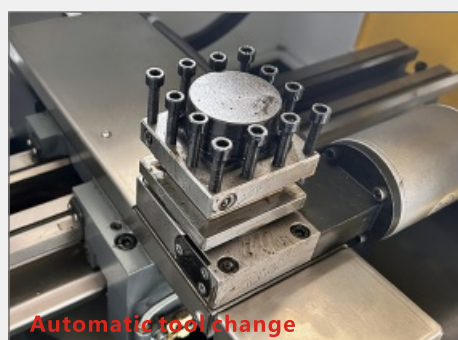
Technical Parameters

1	Repeatability accuracy	0.02mm
2	Positioning accuracy	0.03mm
3	Swing over bed	140mm
4	Travel across slide	75mm
5	Clamping Size	1-60mm
6	Spindle speed	300-2500rpm/min
7	Spindle through-hole	10mm
8	Spindle mount	MT2
9	Spindle motor power	150W
10	X/Z travel	70/160mm
11	The max moving speed	2000mm/min
12	The max feeding speed	1000mm/min
13	Control system	KY 980Tc Turning CNC System
14	Automatic tool change system(ATC)	4 Tools
15	Tool dimension	8×8mm
16	Tailstock taper	MT1
17	Tailstock sleeve diameter	20mm
18	Travel of tailstock	25mm
19	Power	220VAC / 110VAC
20	Weight(NW/GW)	80/100KG
21	Overall dimension	750*450*850mm
22	Packing size	850*560*950mm

Small CNC Lathe (Product No: CK210)



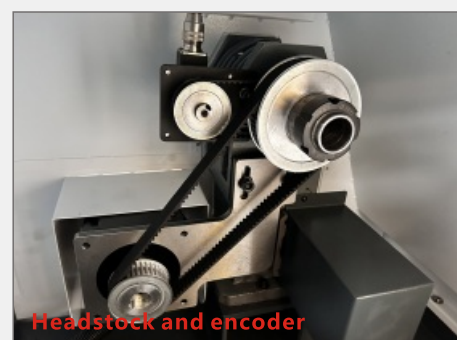
The CK210 is a desktop CNC lathe, with KY980Tc Turning CNC System, support multi language interface display, the standard spec includes MPG hand wheel, automatic 4 positions tool post, selection of high -quality casting materials, more compact, High strength guide way, ballscrews, semi-automatic lubrication system and with Flood Coolant, With interlocking guard. XZ axis motor type are stepper motor, option AC servo motor. Ideal for cutting a range of resistant materials such as wax, plastic, acrylic, free cutting alloys, aluminium and steel. Recommended software programs(MasterCAM, UG, Fusion360, SolidWorks). Suitable for schools education & training, small job shop.



Automatic tool change



Lubrication system



Headstock and encoder



MPG hand wheel and controller



Chuck with three jaws

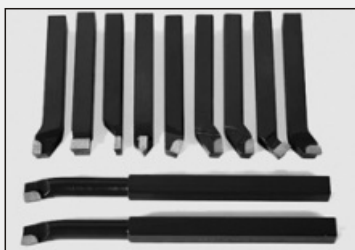


Flood Coolant

Optional Accessories



Cutter set
(tips replacement)12x12mm



Cutter 11 pieces set



Rolling center



Tailstock chuck



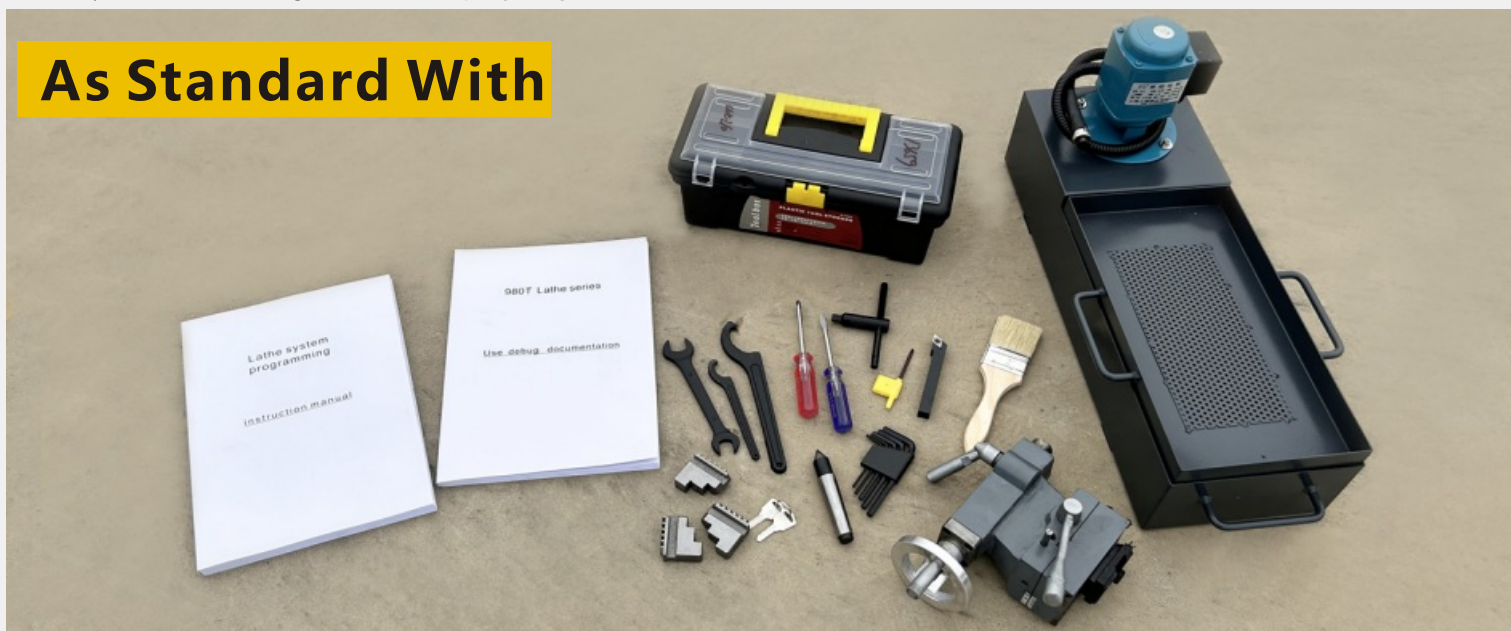
(independent)with flange



ER40 collet chuck with flange

Clamping range dia:2-30mm

As Standard With



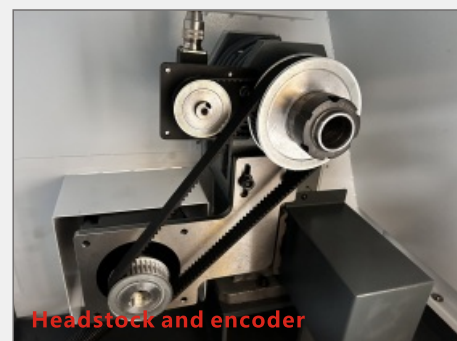
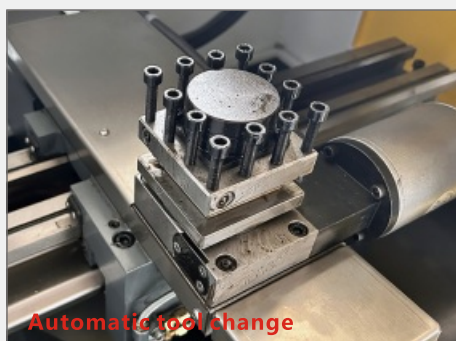
Technical Parameters

1	Repeatability accuracy	0.02mm
2	Positioning accuracy	0.03mm
3	Turning diameter over bed(max)	210mm
4	Chuck diameter	100mm
5	Spindle speed	300-1750r/min(control speed of G code)
6	Spindle through-hole	26mm
7	Spindle mount	MT4
8	Spindle motor power	1100W
9	X/Z axis trave	90/300mm
10	X/Z axis motor	Stepper motor (optional AC servo)
11	The max moving speed	2000mm/min
12	The max feeding speed	1000mm/min
13	Control system	KY 980Tc Turning CNC System,optional siemens 808D
14	MPG handwheel	4 axis
15	Automatic tool change system(ATC)	4 Tools(optional 8 tools)
16	Coolant System	Water Coolant
17	Tool dimension	12*12mm
18	Tailstock taper	MT2
19	Power	220VAC / 110VAC
20	Weight(NW/GW)	220/250KG
21	Overall dimension	1170*750*800mm
22	Packing size	1200*860*1000mm

Small CNC Lathe (Product No: CK210B)



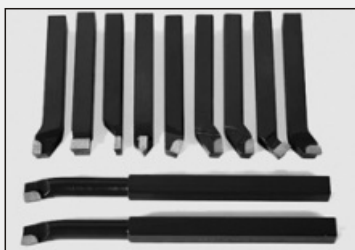
The CK210B is a Small CNC lathe, with KY980Tc Turning CNC System, support multi language interface display, the standard spec includes MPG hand wheel, automatic 4 positions tool post (option 8 tools), selection of high -quality casting materials, more compact, High strength guide way, ballscrews, semi-automatic lubrication system and with Flood Coolant, With interlocking guard. XZ axis motor type are servo motor. Ideal for cutting a range of resistant materials such as wax, plastic, acrylic, free cutting alloys, aluminium and steel. Recommended software programs (MasterCAM, UG, Fusion360, SolidWorks). Suitable for schools education & training, small job shop.



Optional Accessories



Cutter set
(tips replacement)12x12mm



Cutter 11 pieces set



Rolling center



Tailstock chuck



(independent)with flange



ER40 collet chuck with flange

Clamping range dia:2-30mm

As Standard With

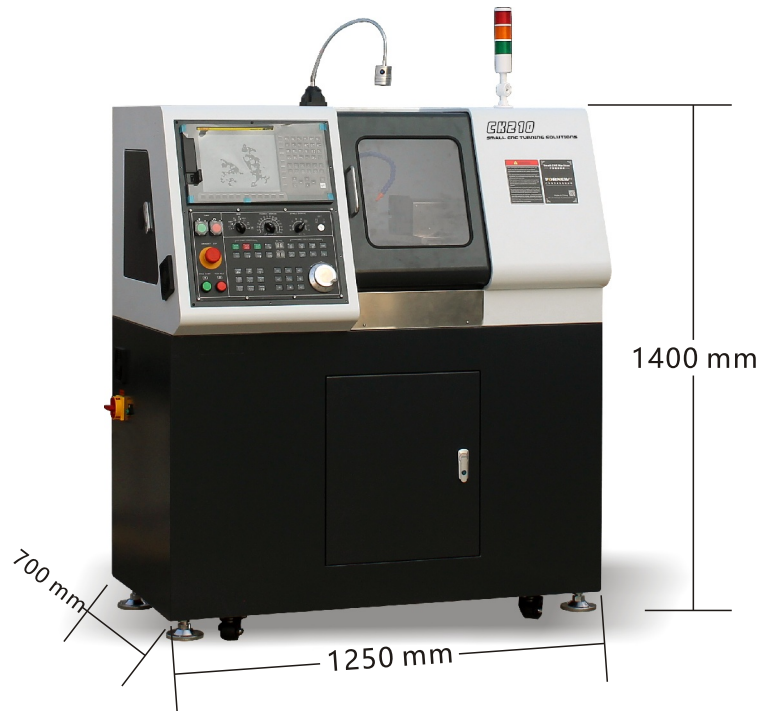


Technical Parameters

1	Repeatability accuracy	0.02mm
2	Positioning accuracy	0.03mm
3	Turning diameter over bed(max)	210mm
4	Chuck diameter	100mm
5	Spindle speed	300-1750r/min(control speed of G code)
6	Spindle through-hole	26mm
7	Spindle mount	MT4
8	Spindle motor power	1100W
9	X/Z axis trave	90/300mm
10	X/Z axis motor	400W Servo Motor
11	The max moving speed	4000mm/min
12	The max feeding speed	2000mm/min
13	Control system	KY 980Tc Turning CNC System,optional siemens 808D
14	MPG handwheel	4 axis
15	Automatic tool change system(ATC)	4 Tools(optional 8 tools)
16	Coolant System	Water Coolant
17	Tool dimension	10*10mm
18	Tailstock taper	MT2
19	Power	220VAC / 110VAC
20	Weight(NW/GW)	280/320KG
21	Overall dimension	1170*750*1350mm
22	Packing size	1200*860*1500mm

Compact education CNC lathe

CK210-Fanuc



Compact education CNC lathe, the most space-efficient CNC machine designed for educational settings. This compact, small education CNC lathe is the ideal introduction to CNC machining for students, capable of performing intricate turning and high-precision small part manufacturing. With an industry-standard FANUC Series Oi-TF Plus control, allowing students to gain hands-on experience with the same technology used in professional settings. With the ability to cut light materials and turning metals, this machine bridges the gap between classroom learning and real-world manufacturing, preparing students for high-wage, high-demand careers in advanced manufacturing. Equip students with practical skills and experience using the same control systems found in the industry, prepare students for the workforce with hands-on experience in modern machining and manufacturing processes.

With Fanuc Series Oi-TF Plus Controller

The Fanuc Series Oi-TF Plus provides the ideal solution for basic milling applications.



Compact education CNC lathe

CK210-Fanuc

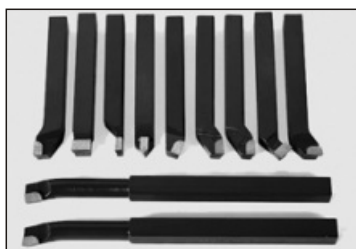
Technical parameters

Description	Standard	Optional
Positioning accuracy	0.02mm	
Repeatability accuracy	0.03mm	
Control system	FANUC Series Oi-TF Plus	SINUMERIK 808D
Automatic tool change system(ATC)	4 Tools	8 tools
Turning diameter over bed(max)	210mm	
Chuck diameter	100mm	
Spindle speed	300-1800r/min	
Spindle through-hole	26mm	
Spindle mount	MT4	
Spindle motor power	1100W	
Work-piece cooling	Water Cooled /29L	
X axis travel	90mm	
Z axis travel	300mm	
X/Z axis motor	400W Servo Motor	
The max moving speed	8000mm/min	
The max feeding speed	4000mm/min	
Full cast iron	Full cast iron	
MPG handwheel	4 axis	
Tool dimension	12*12mm	
Tailstock taper	MT2	
Tailstock sleeve diameter	20mm	
Travel of tailstock	25mm	
Power	380VAC (3 Phase)	
Weight(NW/GW)	280/320KG	
Overall dimension	1250*700*1400mm	
Packing size	1400*860*1600mm	

Optional Accessories



Cutter set
(tips replacement)12×12mm



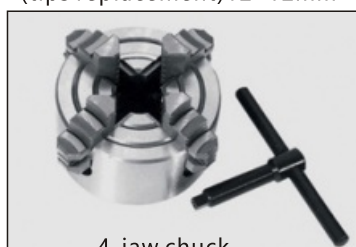
Cutter 11 pieces set



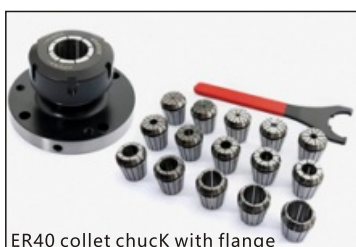
Rolling center



Tailstock chuck



4-jaw chuck
(independent)with flange



ER40 collet chuck with flange
Clamping range dia:2-30mm

Compact education CNC lathe

CK210-Siemens



Compact education CNC lathe, the most space-efficient CNC machine designed for educational settings. This compact, small education CNC lathe is the ideal introduction to CNC machining for students, capable of performing intricate turning and high-precision small part manufacturing. With an industry-standard SINUMERIK 808D control, allowing students to gain hands-on experience with the same technology used in professional settings. With the ability to cut light materials and turning metals, this machine bridges the gap between classroom learning and real-world manufacturing, preparing students for high-wage, high-demand careers in advanced manufacturing. Equip students with practical skills and experience using the same control systems found in the industry, prepare students for the workforce with hands-on experience in modern machining and manufacturing processes.



With SINUMERIK 808D Controller

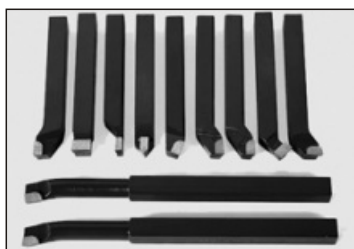


Compact education CNC lathe
CK210-Siemens

Technical parameters		
Description	Standard	Optional
Positioning accuracy	0.02mm	
Repeatability accuracy	0.03mm	
Control system	SINUMERIK 808D	FANUC Series Oi-TF Plus
Automatic tool change system(ATC)	4 Tools	8 tools
Turning diameter over bed(max)	210mm	
Chuck diameter	100mm	
Spindle speed	300-1800r/min	
Spindle through-hole	26mm	
Spindle mount	MT4	
Spindle motor power	1100W	
Work-piece cooling	Water Cooled /29L	
X axis travel	90mm	
Z axis travel	300mm	
X/Z axis motor	400W Servo Motor	
The max moving speed	8000mm/min	
The max feeding speed	4000mm/min	
Full cast iron	Full cast iron	
MPG handwheel	4 axis	
Tool dimension	12*12mm	
Tailstock taper	MT2	
Tailstock sleeve diameter	20mm	
Travel of tailstock	25mm	
Power	380VAC (3 Phase)	
Weight(NW/GW)	280/320KG	
Overall dimension	1250*700*1300mm	
Packing size	1400*860*1500mm	

Optional Accessories


Cutter set
(tips replacement)12×12mm



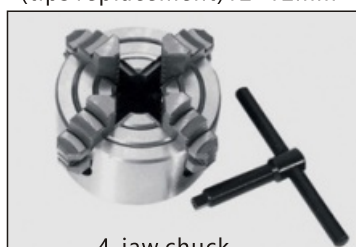
Cutter 11 pieces set



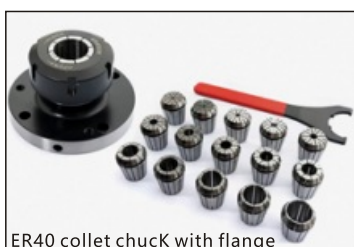
Rolling center



Tailstock chuck



4-jaw chuck
(independent)with flange



ER40 collet chuck with flange
Clamping range dia:2-30mm

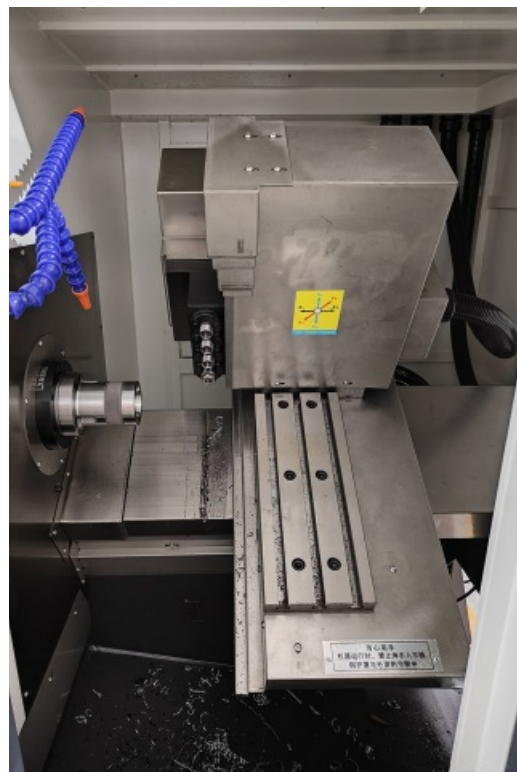
Middle CNC Lathe (Product No: CK600)



Technical Parameters

Max Spindle Speed	3500 rpm
Finish after machining	1.6Ra
Spindle hole	Φ35 mm (36 max)
Repeat positioning accuracy	±0.01 mm
Unilateral cutting amount	2mm (3mm max)
Spindle Power	3 Kw Servo
X/Z Axis Motor	1Kw Servo
X Axis Travel	600 mm
Z Axis Travel	230 mm
Fast feed rate	20m/min
Spindle nose	A2-4
Clamping Diameter	Hydraumaticφ50 mm max
Cutting Length	230 mm
Machine Bed Inclination	30°
ControllerK	KY980
Ball Screw	Taiwan Ball Screw
Linear Guide	Taiwan Linear Guide rail
N / G Weight	2000 kg
Machine Size	1800*1400*1850mm

Middle CNCTurn-Mill Machine (Product No: CX500)



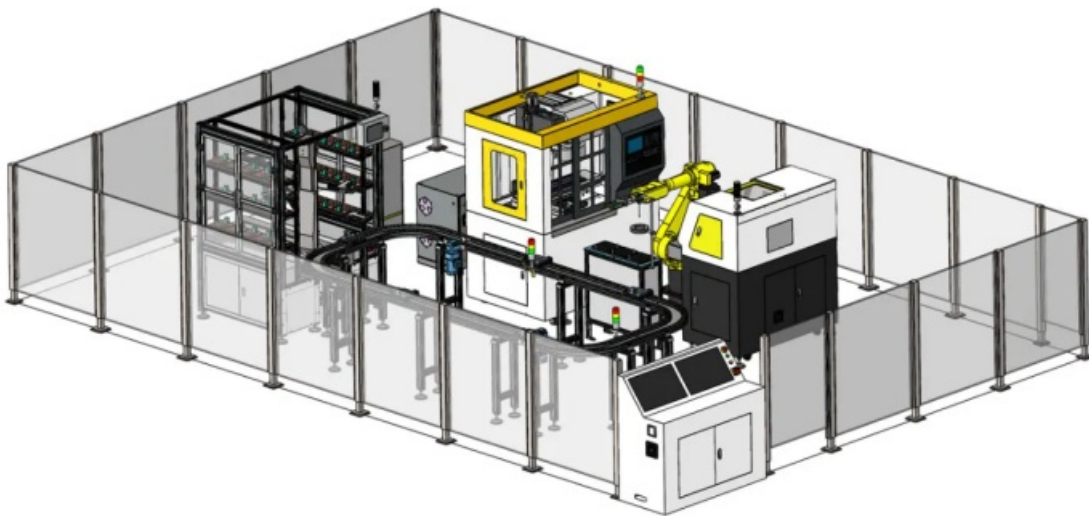
Technical Parameters

Max Spindle Speed	3500 rpm (4000 max)	
Finish after machining	1.6Ra	
Spindle hole	25 mm	
Repeat positioning accuracy	±0.01 mm	
Unilateral cutting amount	2mm (3mm max)	
Spindle Power	3.7Kw Servo motor	
X/Z Axis Motor	1.2Kw Servo motor	
Y Axis Motor	1.2Kw Servo motor	
Power head	3 tools standard	4 tools optional
X Axis Travel	500 mm	
Z Axis Travel	80 mm	
Fast feed rate	20m/min (30m/min max)	
Clamping Diameter	Hydraumaticφ40mm(φ50 max)	
Cutting Feed Rate	0.001-500 mm/rev	
Cutting Length	180 mm	
Cutting Length With Lathe Center Frame	120 mm	
Machine Bed Inclination	30°	
Controller	Yornew Industrial CNC Controller	
Ball Screw	Taiwan P4	
Linear Guide	Taiwan P4 Linear Guide rail	
N / G Weight	1800-2200 kg	
Machine Size	1700*1200*1800mm	
Packing Size	1950*1300*2050mm	

Industry 4.0 System (Product No: FF01)



Industry 4.0 is the next iteration in the development of modern industry. Starting with the introduction of the Steam engine in the late 1800's, to the production line and the computer, industry has progressed and changed society. Industry 4.0 is a game changer for manufacturing. Industry 4.0 takes advantage of the latest advances in technology including advanced internet communications capabilities, data science and big data, Internet of things, additive manufacturing and automation/integration. Industry upgrading to Industry 4.0 can benefit from on these new capabilities changing the face of manufacturing and creating economic opportunity.

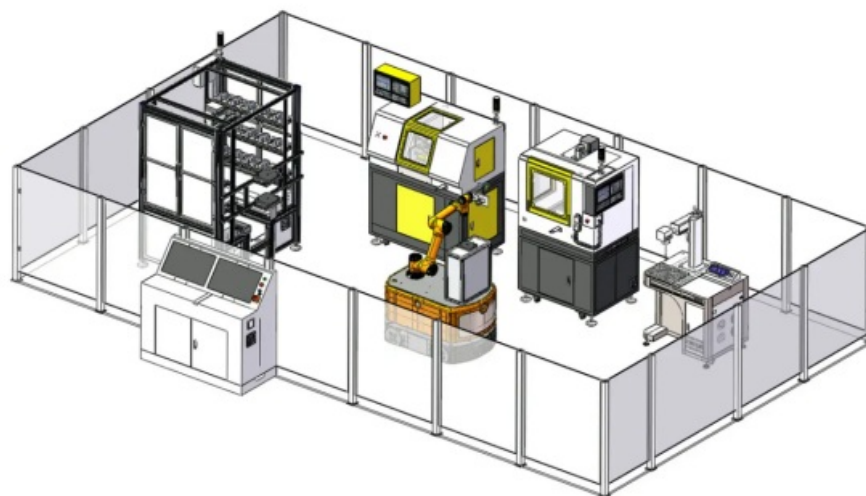


The CIM industry 4.0 System is the core of the solution. It is a full-size manufacturing production line with stations designed to manufacture parts from raw material, assemble products and test them for adherence to quality control standards. Custom tailored to your needs, bespoke system design, modular and expandable, Each station is customizable and configurable, supports third-party components. This is a flexible model and can be constructed with more or less stations to suit the needs of the school and the program being installed, provide students with in-depth training on specific skills found in industry as well as the specific new skills related to Industry 4.0.

Industry 4.0 System (Product No: FF04)



The CIM4.0 solution is designed to introduce vocational and engineering classrooms to the industrial automation and industry applications needed in modern plants and to create skilled workers for next generation jobs. Taking a system-based approach, CIM4.0 deals not only with individual components of industrial training, but also with networking and communications, systems integration and the essential employability skills students need in modern industry. Integration of cutting edge technology systems and collaboration is the core of Industry 4.0. YORNEW and our industry partners are stepping up to deliver state-of-the-art training solutions for Industry 4.0. By augmenting skills training, introducing new areas of study specific to Industry 4.0.



Using the CIM project with a fully simulated industrial CIM, students learn about all the aspects of a CIM production cycle, from customer order and inventory control, through automated manufacturing of materials into finished parts, to quality inspection and final delivery. Students set up and operate CIM cells and learn about mass production. Uses real industrial hardware, including Industrial conveyor system links workstations, AMR (Autonomous Mobile Robot), 3-axis CNC mill machining, CNC lathe machining, ASRS (automated storage & retrieval station), visual inspection, laser marking, industry 4.0 sensors, networking and integration etc. Full size equipment from end to end, manufacturing line produces real products. Our Industry 4.0 Education Solution are modular and flexible solutions for educating and training students in the principles and technologies of computer integrated manufacturing.

YORNEW[®]

— — Small CNC Machine — —



Whats QR code

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Wechat QR code