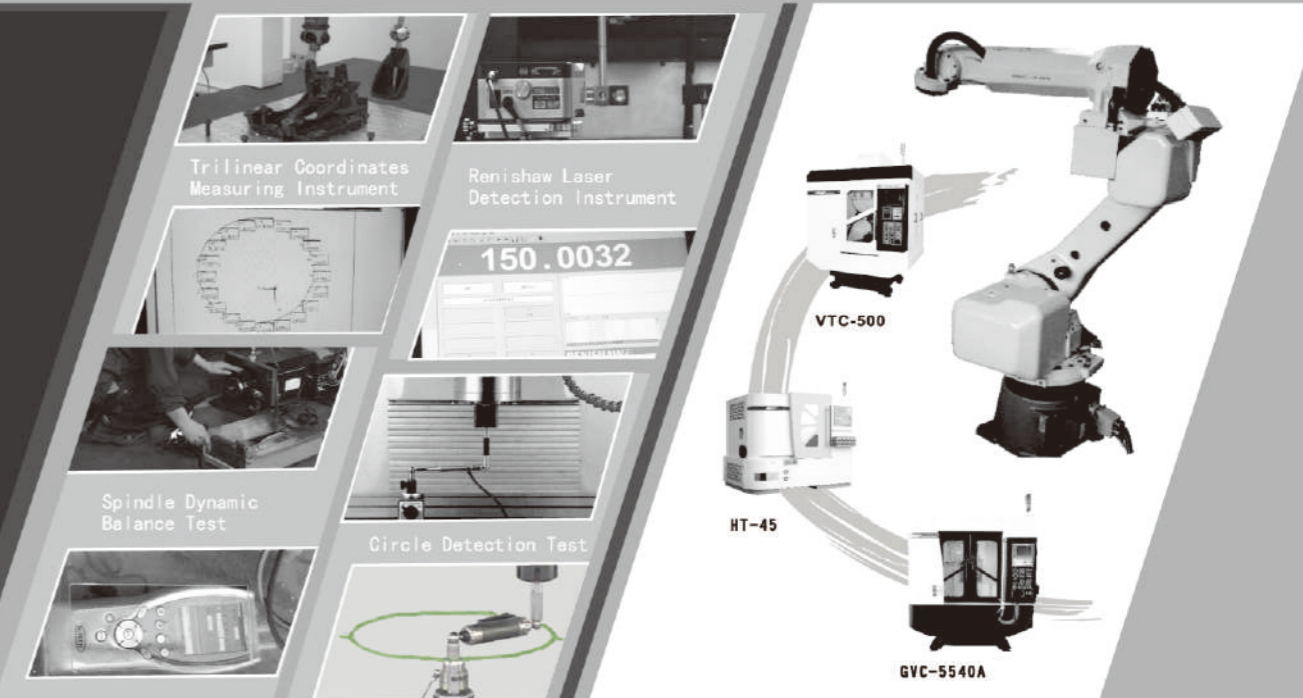


# About Us



*SHENZHEN JOINT TECHNOLOGY CO.,LTD specializes in R&D and manufacturing mold processing and machinery parts processing equipments. We developed high quality and high-tech research, development, manufacturing, service team and management system, and expanded products to more than 10 series from milling machines, to machine centers . With the exceptional quality products and distinctire brand reputation, our products are sold to more than 40 developed cities all over China, and aslo to more than 20 countries all over the world across Asia, Europe and America*

## Product Series

### Machine Centers

- Parts processing machine center
- High Speed High precision parts processing machine center
- Small-sized drilling and milling machine center
- Mold processing machine center
- Gantry type machine center
- Cnc deep hole drilling machine

### CNC Engraving Machine

- Copper electrod, small size mold timekeeper CNC engraving machine

### CNC Lathe

- Flat bed type CNC lathe
- Slant bed type high speed CNC lathe

### Economic CNC Machine

- CNC knee type milling machine
- NC milling machine
- ZNC and CNC EDM machine

### Conventional Milling Machine

- Turret milling machine
- Precise Surface grinding machine

## Qualifications And Honors

- ◆ National High-tech enterprise
- ◆ Shenzhen famous brand 'Joint'
- ◆ Member of China Quality Association
- ◆ Member of China Machine Tools Association
- ◆ Vice-chairmen of Shenzhen Machinery Association
- ◆ Awarded China metal cutting industry top 50 for 5 five years in a row
- ◆ Awarded Guangdong province Manufacturing industry top 500 in 2014
- ◆ CE certification on milling machine, grinding machine and machine centers
- ◆ Machine centers have passed the inspection and authentication of the 'National Machine Tool Quality Supervision And Inspection Center'
- ◆ More than 50 patents on invention, utility model patent and software copyright etc.



## Special advantages

*For customer*

*We provide more functional and customized products*

*We provide CNC product application support*

*We provide integrated solutions for auto production line*

*We provide integrated design of molding and parts processing production line*



# PARTS PROCESSING CNC MACHINE CENTER

—L Serie / L3 Serie



## Industry Focus



AUTO PARTS



HARDWARE PARTS



SECURITY EQUIPMENT



COMMUNICATIONS EQUIPMENT

## PRODUCT FEATURES

- ◆ X, Y axes are linear slideways, Z axis is box way.
- ◆ High-rigidity machine body to ensure the strong cutting requirements fulfilled under fast operation.
- ◆ Coupling, spindle bearing, spindle, ball screw, linear slideway, tool magazine, unclamping cylinder and other key parts are imported from top-level brands in Germany, Japan and Taiwan to ensure high quality and high precision of the products.
- ◆ Complete model , from 650L to 1890L, suitable for small to medium metal parts processing.
- ◆ Modular configuration , can provide customized options to meet different processing needs :with spindle water coolant, Ring spray type spindle, 10000-15000 rpm/min direction connection spindle etc.
- ◆ This machine center serie specializes in processing metal parts, with faster feed speed , and high rigidity cutting.

## SPECIAL MODEL

High efficiency, high rigidity processing, three axis linear way model

MODEL	657L3	857L3	1060L3	1270L3
	1370L3	1580L3	1690L3	1890L3

- ◆ L3 serial :X/Y/Z axis are linear slideway, improved running speed and processing efficiency .
- ◆ 657L3 and 857L3 model, increase Z axis travel to 700 mm and are able to install 4th axis rotary table for complex parts processing.
- ◆ 1270L3(BT40 spindle), suitable for large size parts processing, with optional spindle rotation speed (10000/12000 rpm).

# SPECIFICATIONS

Model		VMC-650L	VMC-657L3	VMC-850L	VMC-857L	VMC-857L3	VMC-1060L	VMC-1060L3	VMC-1160L/1160L3	VMC-1270L3	VMC-1270L	VMC-1370L/1370L3	VMC-1580L/1580L3	VMC-1690L/1690L3	VMC-1890L/1890BL	VMC-1890L3	
Table size	mm	800×500	800×500	1000×500	1000×520	1000×500	1300×600	1300×600	1300×650	1360×700	1360×700	1500×700	1700×800	1800×900	2000×900	2000×900	
Travel	Longitude(X)	mm	600	600	800	800	800	1000	1000	1100	1200	1200	1300	1500	1600	1800	1800
	Crossward(Y)	mm	500	500	500	550	500	600	600	600	700	700	700	800	900	900	900
	Vertical(Z)	mm	500	700	500	700	700	600	600	750	650	600	700/750	700	600/800	600/720	800
Distance between spindle and table	mm	110-610	120-820	110-610	110-810	120-820	70-670	170-770	90-840	230-880	87-687	190-890/170-920	130-830/170-870	160-760/180-980	160-760/160-880	180-980	
Distance between spindle and column	mm	560	560	560	600	560	660	660	690	740	785	757/740	810/850	950/960	950	960	
Spindle	Rotation speed	rpm	8000/10000*/direct connection 12000*/direct connection 15000*								8000/12000*	8000	8000				
	Taper		BT40	BT40	BT40	BT40	BT40	BT40	BT40	BT40	BT50	BT50	BT50	BT50(XL)	BT50(XL)	BT50(XL)	
	Motor	kw	7.5	7.5	7.5	7.5	7.5	11	11	11	11/7.5*	11	15	15/18.5	15/18.5	15/18.5	15/18.5
Rapid feed	Longitude(X)	m/min	30(Max36)	30(Max36)	30(Max36)	24	30(Max36)	30(Max36)	30(Max36)	30(Max36)	24(Max30)	24(Max30)	24(Max30)	24(Max30)	24(Max30)	24(Max30)	24(Max30)
	Crossward(Y)	m/min	30(Max36)	30(Max36)	30(Max36)	24	30(Max36)	30(Max36)	30(Max36)	30(Max36)	24(Max30)	24(Max30)	24(Max30)	24(Max30)	24(Max30)	24(Max30)	24(Max30)
	Vertical(Z)	m/min	18	30(Max36)	18	18	30(Max36)	18	30(Max36)	20/30(Max36)	24(Max30)	18	18	18	18	18	18
Cutting feed	m/min	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
Positioning accuracy	mm	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	
Min.set moving unit	mm	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
Dimension(L*W*H)	mm	2750×2380×2600	2750×2380×2800	2750×2380×2600	2750×2380×2800	2750×2380×2800	3300×2670×2950	3300×2690×2950	3300×2690×2950	3560×3300×3250	3560×3300×3300	3560×5300×3100	4300×3900×3300	4860×4300×3600	4860×4300×3600/3800		
Net weight	kg	5300	5300	5400	5400	5800	7500	7000	7500	9000	9000	10300	12100	12500	13000	13000	
Max.load of table	kg	350	350	450	500	450	800	800	1000	1000	1000	1000	1500	1600	1600	1600	

Note:L :X/Y axis ball linear way ,Z axis box way ; L3 :X/Y/Z axis ball linear way ;\* is optional

## Standard Accessories

- ◆ Fanuc /Mitsubishi Controller system
- ◆ Full enclosed cover
- ◆ Spindle encoder position system
- ◆ Three Inner encoder feedback system
- ◆ Auto lubrication system
- ◆ Pneumatic system
- ◆ RS232 Interface
- ◆ Operation unit
- ◆ RS232 Interface
- ◆ Warming light
- ◆ Working light
- ◆ Tool and tool box

## Optional Accessories

- ◆ Siemens Controller or Other Controller
- ◆ Spindle oil coolant
- ◆ Umbrella type tool magazine
- ◆ Arm type tool magazine
- ◆ Screw type auto conveyor
- ◆ Chain type auto conveyor
- ◆ 4 axis rotary table
- ◆ Through spindle water coolant
- ◆ Ring spray spindle





# HIGH SPEED HIGH PRECISE PARTS PROCESSING

## CNC MACHINE CENTER —H Serie



### SPECIAL MODEL

- ◆ Extra wide machine body and column base design, high precision and high strength cross casting to ensure high rigidity and quick dynamic responsiveness of the machine, and also to significantly improve machining accuracy.
- ◆ Adopted vertical tool magazine installation design to ensure the whole machine structure balance, and to increase and maintain dynamic accuracy.
- ◆ Special spindle-case design, suits high rigidity cutting at high-speed operation. H series are up to 30% more efficient than other standard machine center.
- ◆ H86A adopts co-action tool magazine, reduces tools changing time to half.
- ◆ H87 is a customized model for LED Screen manufacturing industry.

## SPECIFICATIONS

Model		H86
Table size	mm	900×480
Moving travel of table(X)	mm	800
Moving travel of spindle slide(Y)	mm	600
Vertical moving travel of spindle(Z)	mm	600
Distance between spindle and table	mm	120-720
Rotation speed	rpm	Direct connection 10000/12000*/15000*
Spindle Taper		BT40-150 Long nose direct connection spindle
Motor	kw	7.5KW
Work table T slot (NO.-Size*Pitch)	mm	4-18×100
ATC type		Arm type tool magazine with 24tools
Time of changing tool (T-T)	S	2.5
Longitude(X)	m/min	48
Rapid feed Crossward(Y)	m/min	48
Vertical(Z)	m/min	48
X/Y/Z axis motor	NM	20、20、20
Max cutting feed	m/min	15
Positioning accuracy	mm	0.006
Min.set moving unit	mm	0.001
Dimension	mm	2300×3145×2800
Net weight	kg	5500
Max.load of table	kg	500

Note:L :X/Y /Z axis Roller linear way ;\* is optional

### Industry Focus



MACHINE BODY



COMMUNICATIONS EQUIPMENT



AUTO EQUIPMENT



AUTO PARTS

## HIGH SPEED PARTS PROCESSING

### CNC MACHINE CENTER —V Serie



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#### PRODUCT FEATURES

- ◆ Specially designed for parts processing. 3 axes adopt ball guide way or roller linear guide way. Rapid feed speed 48 meters/min.
- ◆ Special Large span structure of the machine base and column, is able to bear high inertia gravity and improved dynamic responsiveness of the whole machine.
- ◆ Short nose design of Direct-Connection high speed spindle with excellent rigidity, increases efficiency and reduces abrasion of tools. Maximizes the transmission efficiency of spindle motor, and also increases processing accuracy and spindle durability.
- ◆ The machine employed backward chip removal with mass flow chip flushing system, suits particular parts processing for faster chip removing.
- ◆ Optional:spindle rotation speed , 12000/15000 rpm/min direct connection spindle , Spindle water coolant, Ring spray spindle,to accomodate different customer needs.
- ◆ Tool magazine adopts mechanical seal design and software warning to ensure reliable processing.

## SPECIFICATIONS

Model	V54	V65(V65B)	V85(V85B)	V85P	V106	
Table size	700×420	700×420	900×450	1000×550	1300×600	
Travel	Longitude(X)	550	600	800	1000	
	Crossward(Y)	400	400	500	600	
	Vertical(Z)	450	420	500	500	600
Distance between spindle and table	110-560	170-590(120-540)	170-670(120-620)	160-660	170-770	
Distance between spindle and column	453	456	524	524	660	
Rotation speed	10000/direct connection		12000*/direct connection	15000*	8000/direct connection 12000*/15000*	
Spindle	Taper	BT40-120 Short nose spindle		BT40-140 Short nose spindle	BT40-150	
	Motor	5.5	7.5	7.5	7.5	11(15000rpm-5.5kw)
Work table T slot (NO.-Size*Pitch)	3-18×125	3-18×125	3-18×130	5-18×100	5-18×100	
X/Y/Z axis ball screw size	3216	3216	3616	3616	3616	
X/Y/Z axis guide way	30	30/30/35	35(Ball screw)	35(Ball screw)	45/55/55	
ATC type	Arm type tool magazine with 24 tools					
Time of changing tool (T-T)	2.5	2.5	2.5	2.5	2.5	
Rapid feed	Longitude(X)	48	48	48	36	48
	Crossward(Y)	48	48	48	36	48
	Vertical(Z)	48	48	48	30	40(Max48)
X/Y/Z axis motor	NM	12,12,20,	12,12,20,	12,12,20,	12,12,20,	20、20、20
Max cutting feed	m/min	15	15	15	10	15
Positioning accuracy	mm/m	0.006	0.006	0.006	0.006	0.006
Min.set moving unit	mm	0.001	0.001	0.001	0.001	0.001
Dimension(L*W*H)	mm	2350×2100×2650	2350×2100×2650	2450×2180×2650	2650×2900×2850	3300×2670×2950
Net weight	kg	3500	3500	3800	5000	7000
Max.load of table	kg	300	300	500	600	800

Note: V85P is suited for making a mold and parts processing

#### Standard Accessories

- ◆ Fanuc /Mitsubishi Controller system
- ◆ 10000rpm spindle rotation speed
- ◆ 24tool arm type tool magazine
- ◆ Spindle oil cooler
- ◆ Heat exchanger
- ◆ Full enclosed cover
- ◆ Spindle encoder position system
- ◆ Three Inner encoder feedback system
- ◆ Auto lubrication system
- ◆ Pneumatic system
- ◆ RS232 Interface
- ◆ Operation unit
- ◆ RS232 Interface ◆ Warming light ◆ Working light
- ◆ Tool and tool box

#### Optional Accessories

- ◆ Siemens Controller/ Other Controller
- ◆ Screw type auto conveyor
- ◆ Chain type auto conveyor
- ◆ 4 axis rotary table
- ◆ Through spindle water coolant
- ◆ Ring spray spindle

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# CNC DRILLING AND TAPPING MACHINE CENTER

## —VTC Serie



## SPECIFICATIONS

Model	VTC-500	VTC-500H	VTC-600	VTC-600H	VTC-700	VTC-700H
Table size	600×400	600×400	700×400	700×400	800×400	800×400
Travel	Longitude(X)	500	500	600	600	700
	Crossward(Y)	400	400	400	400	400
	Vertical(Z)	300	300	300	300	300
Distance between spindle and table	155-455	155-455	155-455	155-455	155-455	155-455
Distance between spindle and column	450	450	450	450	450	450
Rotation speed	12000	15000/20000/24000	12000	15000/20000/24000	12000	15000/20000/24000
Spindle	Taper	BT30	BT30	BT30	BT30	BT30
	Motor	3.7	2.2(FANUC)/3.7(MITSUBISHI)	3.7	2.2(FANUC)/3.7(MITSUBISHI)	3.7
ATC type	Clamp arm ATC with 16 tools (21 tools optional)					
Max.length/ max weight of tool	200mm/3kg	200mm/3kg	200mm/3kg	200mm/3kg	200mm/3kg	200mm/3kg
Rapid feed	Longitude(X)	48	48	48	48	48
	Crossward(Y)	48	48	48	48	48
	Vertical(Z)	48	48	48	48	48
Max cutting feed	12	12	12	12	12	12
Positioning accuracy	0.005	0.005	0.005	0.005	0.005	0.005
Min.set moving unit	0.001	0.001	0.001	0.001	0.001	0.001
Dimension(L*W*H)	1610×2315×2375	1610×2315×2375	1850×2315×2375	1850×2315×2375	2000×2315×2375	2000×2315×2375
Net weight	2800	2800	2950	2950	3000	3000
Max.load of table	250	250	250	250	250	250

### Industry Focus



MOBILE PHONE CASE PROCESSING



DIGITAL CAMERA PARTS



MECHANICAL HARDWARE MACHINING

### PRODUCT FEATURES

- ◆ X, Y, Z axes are linear guide ways. 3 axes standard rapid feed speed is 48 meters/min(optional up to 60 meters/min ).
- ◆ High-rigidity machine body structure design. In addition to drilling feature, also capable of low-intensity milling and cutting aluminum parts.
- ◆ Coupling, spindle bearing, spindle, ball screw, linear slide way, tool magazine, unclamping cylinder and other key parts are all imported from Germany, Japan and Taiwan top brands to ensure high quality and high precision of the products.

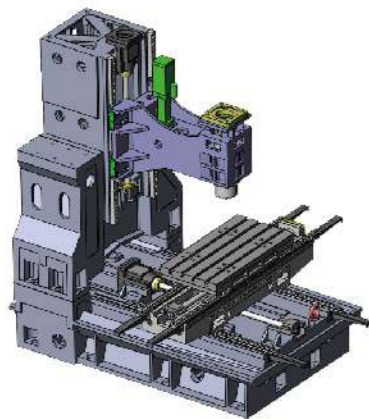
- ◆ This machine focuses on processing small-sized multiple hole precise parts, and has advantages on high speed operation, fast and high precision small hole machining and fast tool changing.
- ◆ We accumulate and consistently optimize customer's application data, and provide customer our technical supports on application to ensure better performance.

# MOULD PROCESSING CNC MACHINE CENTER

—BOX WAY Serie



## SPECIAL MODEL



### High speed, high precision mould machine center

- ◆ Targets high precision mould processing, with 3 axis precise roller linear way. Improves three axes high speed responsiveness, and reduce the processing knife lines efficiently.
- ◆ Extra wide machine body and column base design, high precision and strength cross casting design. Significantly improve the stability while in processing and improve surface finish,
- ◆ High precision process and assembly techniques ensure high position accuracy and high quality.
- ◆ 3 axes rapid feed speed at are all 36m/min with high rigidity machine body, can significantly increase mould processing efficiency .

M96L	X/Y/Z axes travel	900x600x600mm
	X/Y/Z axes feed speed	36x36x36m

## Industry Focus



CAR INTERIOR TRIM MOLD



TV MOLD



METAL HARDWARE MOLD

## PRODUCT FEATURES

- ◆ X, Y, Z Axes slide way are quenched and fixed to mould rail.
- ◆ High-rigidity machine body ensures cutting requirements can be met
- ◆ Coupling, spindle bearing, spindle, ball screw, linear slide way, tool magazine, unclamping cylinder and other key parts are all imported from Germany, Japan and Taiwan top brands to ensure high quality and high precision
- ◆ Complete product model, from 540 to 1890, suitable for various small to medium mould processing.
- ◆ Modular configurations , can provide customized options to meet different customers processing needs: Spindle water coolant, Gear type spindle-case , 12000-15000 rpm/min direct connection spindle
- ◆ This machine center focuses on mould processing, it also suits mechanic parts processing.
- ◆ In this serie models above 1580 employ temperature control technique (our patent) to ensure the stability and accuracy for long-hour processing.



## SPECIFICATIONS

Model		VMC-540	VMC-650	VMC-850B	VMC-850C	VMC-1060	VMC-1160	VMC-1270/VMC-1270C	VMC-1370	VMC-1580	VMC-1690	VMC-1890/1890B	
Table size	mm	620×380	800×420	1050×500	1000×530	1300×600	1300*650	1360×700	1400×710	1700×800	1800×900	2000×900	
	Longitude(X)	500	650	800	800	1000	1100	1200	1300	1500	1600	1800	
Travel	Crossward(Y)	400	400	500	500	600	600	700	700	800	900	900	
	Vertical(Z)	455	480	550	700	600	750	600/800	650	700	680	680/800	
Distance between spindle and table	mm	45-500	80-560	105-655	110-810	180-780	110-860	120-750/200-1000	150-800	170-870	160-840	160-840/160-960	
Distance between spindle and column	mm	460	480	550	575	600	690	785	785	810	950	950	
	Rotation speed	8000/10000*/12000*					8000/10000*/12000*		8000	8000			
Spindle	Taper	BT30/BT40*	BT40	BT40	BT40	BT40/BT50*	BT40	BT50	BT50	BT50	BT50(XL)	BT50(XL)	
	Motor	5.5	7.5	7.5	7.5	11	11	11/15	15	15/18.5	15/18.5	15/18.5	
Rapid feed	Longitude(X)	10	10	15	15	15	15	15	15	15	15	15	
	Crossward(Y)	10	10	15	15	15	15	15	15	15	15	15	
	Vertical(Z)	10	10	12	12	12	12	12	12	12	12	12	
Cutting feed	m/min	6	8	8	8	8	8	8	8	8	8	8	
Positioning accuracy	mm	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	
Min.set moving unit	mm	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
Dimension(L*W*H)	mm	2000×2315×2250	2300×2270×2350	2500×2270×2550	2750×2420×2550	3300×2670×2700	3450×2670×2900	3560×3300×3100	3560×3300×3101	4300×3900×3300	4860×4300×3600	4860×4300×3600 4860×4300×3800	
Net weight	kg	3000	4200	5000	6000	7100	7900	9800	10300	12100	13200	13500	
Max.load of table	kg	250	600	600	600	800	1000	1000	1000	1500	1600	1600	

Model		M96L	
Table size	mm	1100*550	
Moving travel of table(X)	mm	900	
Moving travel of spindle slide(Y)	mm	600	
Vertical moving travel of spindle(Z)	mm	600	
Distance between spindle and table	mm	120-720	
	Rotation speed	rpm	10000/12000*/15000*
Spindle	Taper	BT40-150 Long nose direct connection spindle	
	Motor	kw	7.5KW
Work table T slot (NO.-Size*Pitch)	mm	5-18×100	
ATC type	Arm type tool magazine with 24tools		
Time of changing tool (T-T)	S	2.5	
	Longitude(X)	m/min	36
Rapid feed	Crossward(Y)	m/min	36
	Vertical(Z)	m/min	30
X/Y/Z axis motor	NM	12、12、30	
Max cutting feed	m/min	15	
Positioning accuracy	mm	0.006	
Min.set moving unit	mm	0.001	
Dimension	mm	3100*3035*2500	
Net weight	kg	5600	
Max.load of table	kg	500	

### Optional Accessories

- ◆ Siemens Controller or Other Controller
- ◆ Spindle oil coolant
- ◆ Umbrella type tool magazine
- ◆ Arm type tool magazine
- ◆ Screw type auto conveyor
- ◆ Chain type auto conveyor
- ◆ 4 axis rotary table
- ◆ Through spindle water coolant
- ◆ Ring spray spindle



# PRECISION CNC ENGRAVING MACHINE

—CM Serie



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## PRODUCT FEATURES

- ◆ X, Y, Z Axes are linear guide way, 3 axes standard rapid feed 10 m/min. 24 m/min is optional for CM650B.
- ◆ High precision, high rigidity machine body maintains the processing stability during high rotation speed.
- ◆ Special reinforced spindle-case design for CM650B, the cutting strength increased 20% in comparison with similar models.
- ◆ Coupling, spindle bearing, spindle, ball screw, and other key parts are imported from Germany, Japan and Taiwan top brands to ensure high quality and stability.
- ◆ CM650B and CM860 models can be equipped with BT30 Spindle and Tool magazine (Taiwan).
- ◆ CM650B and CM860 :5.5kw,ER25,24000Rrpm standard spindle motor , 5.5 KW, ER25, 18000 rpm or 5.5 KW, BT30, 18000/24000 rpm is optional.

## SPECIFICATIONS

Model		CM600	CM650B	CM860
Table size	mm	600×500	600×500	800×600
Travel	Longitude(X)	600	600	680
	Crossward(Y)	500	500	760
	Vertical(Z)	220	250	330
Width of gantry	mm	650	760	760
Taper		ER25	ER25/BT30*	ER25*/ER32*/BT30*
Spindle	Rotation speed	rpm	500-24000/18000*	500-24000/18000*
	Motor	kw	4.5	5.5
X/Y/Z axis servo motor	kw	0.85	0.85	0.85
Distance between tool head and table	mm	50-300	50-300	50-380
X/Y/Z axis feed speed	m/min	8	8	8
X/Y/Z axis rapid speed	m/min	10	10/24*	10
Dimension(L*W*H)	mm	1930×1450×2132	1930×2040×2340	2510×2337×2310
Net weight	kg	2500	2800	3500
Max.load of table	kg	200	300	400

### Optional accessories

- ◆ SYNTEC 11MA /21MA Controller
- ◆ Tool setting gauge
- ◆ Graphite machine

### Industry Focus



ELECTRONICS



EMBOSSMENT



GRAPHITE ELECTRODE

COPPER ELECTRODE

### SPECIAL MODEL

#### Graphite machining center

- ◆ Equipped with drencher curtain and filtration system, or fully sealed protective dusting system.
- ◆ Equipped with protection cover for Y axis lead screw
- ◆ Adopts Taiwan dust-proof sliding block

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# PRECISION CNC ENGRAVING MACHINE

SPECIAL MODEL

## High speed high precision cnc engraving machine

- ◆ Taiwan High precision 40000rpm /HSK32 Electrical spindle ,realize high speed processing
- ◆ High rigid finite element design machine casting ,spindle box strengthening rod ,reinforced structure ,guarantee spindle stationary in high speed running , realize High finish machining
- ◆ Spindle with German HEIDENHAIN encoder ,driving ,realize rigid tapping

## SPECIFICATIONS

Model		CM650H	
Table size	mm	600×500	
Longitude(X)	mm	600	
Travel	Crossward(Y)	500	
	Vertical(Z)	250	
Width of grantry	mm	760	
Taper		BT30	
Spindle	Rotation speed	rpm	40000
	Motor	kw	5.5
X/Y/Z axis servo motor	kw	0.85	
Distance between tool head and table	mm	50-300	
X/Y/Z axis feed speed	m/min	8	
X/Y/Z axis rapid speed	m/min	10/24*	
Dimension(L*W*H)	mm	1930×2040×2340	
Net weight	kg	2800	
Max.load of table	kg	300	

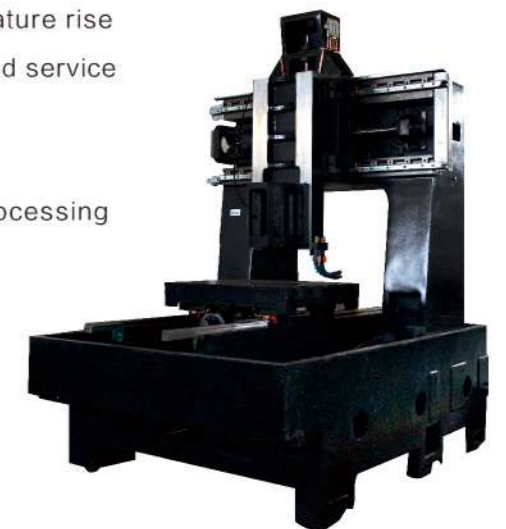
SPECIAL MODEL

## Big travel CNC engraving Machine

Model		CM-80100	CM-80120
Table size	mm	820×1020	820×1200
Longitude(X)	mm	820	820
Travel	Crossward(Y)	1000	1200
	Vertical(Z)	350	350
Width of grantry	mm	900	900
Spindle Taper		ER32*/BT30*	ER32*/BT30*
Spindle Rotation speed	rpm	18000/24000*	
Spindle Motor	kw	7.5	7.5
X/Y/Z axis servo motor	kw	1.8	1.8
Distance between tool head and table	mm	120-470	140-490
T Slot size (NO.-Size*Pitch)		5-18×160	5-18×160
X/Y/Z axis feed speed	m/min	8	8
X/Y/Z axis rapid speed	m/min	20	20
Dimension(L*W*H)	mm	3300×2400×2980	3500×2400×2980

## PRODUCT FEATURES

- ◆ Resin sand casting ,German brand or Taiwan brand linear guide way , screw , Japan /German Bearing ,ensure machine high precision ,high quality and precision of stability for long time
- ◆ With thermal spindle oil coolant system , lowering the temperature rise of spindle running in time ,and improve machining precision and service life of spindle
- ◆ With Umbrella type tool magazine ,meet complex graphics processing requirements



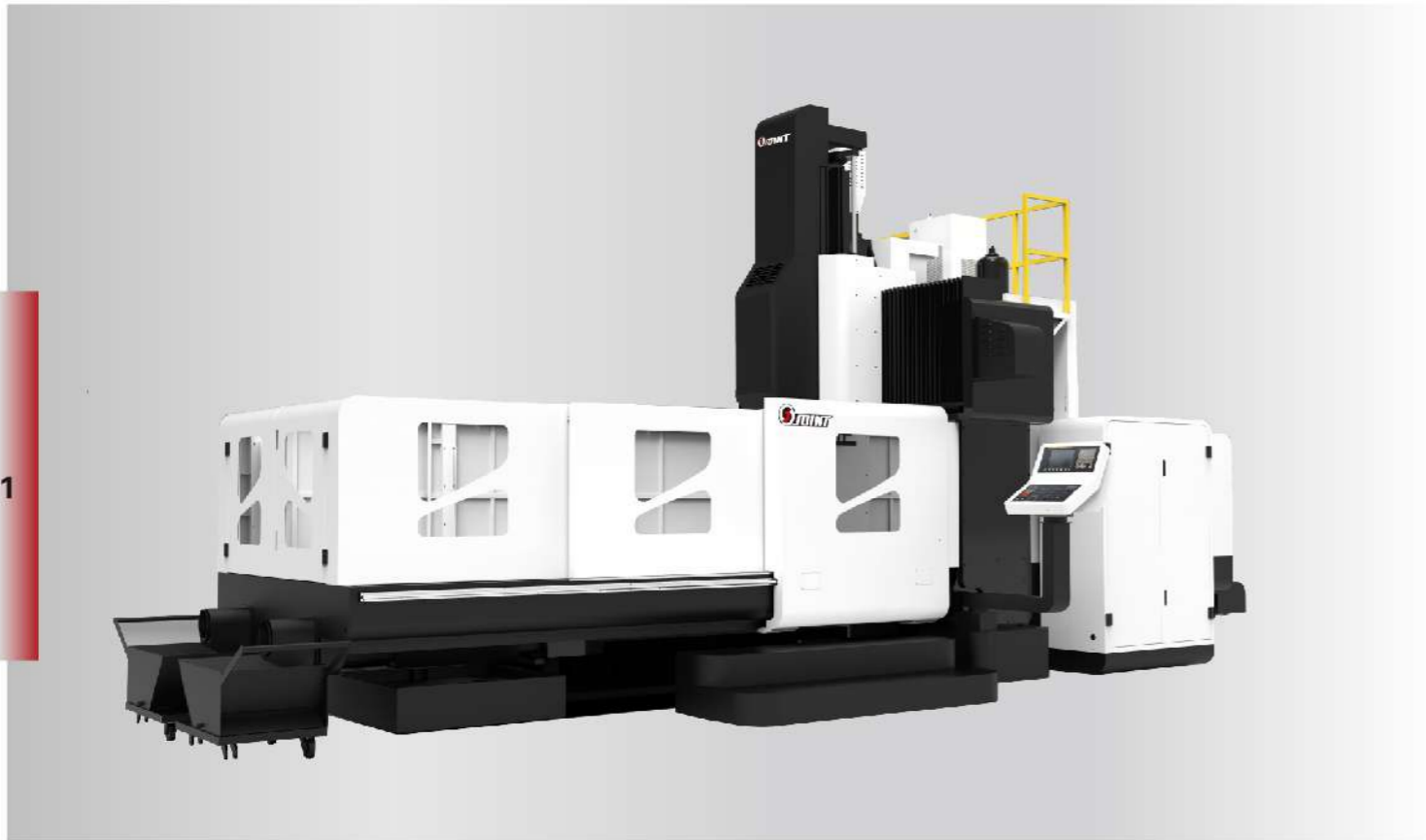


# Light type High speed gantry type machine center

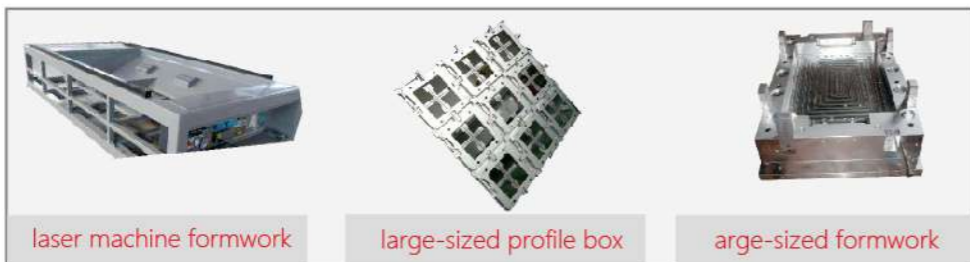
## SPECIAL MODEL

### BTMC0813

- ◆ Worktable lengthened 100mm, meet the demand of processing for long plate



### Industry Focus



laser machine formwork

large-sized profile box

arge-sized formwork

## SPECIAL MODEL

- ◆ 08 series is model of development for lightweight materials and light cutting processing such as large aluminum plate
- ◆ Resin sand casting ,German brand or Taiwan brand linear guide way ,screw , Japan /German Bearing ,ensure machine high precision ,high quality and precision of stability for long time
- ◆ Spindle box reinforced structure,with 12000rpm/20000rpm BT30 Direction spindle ,realize milling cutting ,drilling ,tapping etc high speed machining
- ◆ With thermal spindle oil coolant system , lowering the temperature rise of spindle running in time , and improve machining precision and service life of spindle
- ◆ X/Y/Z axis import precision linear guide way ,realize rapid running high efficient processing
- ◆ With Umbrella type tool magazine , meet complex graphics processing requirements

## SPECIFICATIONS

Model		BTMC-0810	BTMC-0812
Table size	mm	820×1020	820×1200
Travel	Longitude(X)	820	820
	Crossward(Y)	1000	1200
	Vertical(Z)	350	350
Gantry width	mm	900	
Distance between spindle and table	mm	150-650	
Spindle	Rotation speed	12000/20000*	
	Taper	BT30 Machinical Direct connection Spindle	
	Motor	7.5/(3.5-5.5*)	
Work table T slot (NO.-Size*Pitch)		5-18×160	
Rapid feed	Longitude(X)	20	
	Crossward(Y)	20	
	Vertical(Z)	10	
Cutting feed	m/min	8	
Positioning accuracy	mm/m	X/Y/Z 0.008/0.01/0.006	
Min.set moving unit	mm	0.001	
Dimension(L*W*H)	mm	3500/4000×2400×2900	
Net weight	kg	5500	5800
Max.load of table	kg	1000	1000

## Small gantry type machining center



### SPECIAL MODEL

- ◆ BTMC10/12 Series is Upgrade the product of big size VMC machine (VMC1270/VMC1370/VMC1580/ VMC 1690/VMC1890)Advantages
- ◆ Improve machine processing precision ,spindle centerline and Z axis guide-way is basic coincidence , without deformation problem of spindle box caused by 780-950mm gap distance of VMC machine
- ◆ Eliminate the precision differences by caused worktable of impending at both ends
- ◆ Good Accuracy stable ,long service life, Yaxis do not bear work-piece weight, worktable running is no more than base of table ,Solve the worktable long-term bearing load ,cause the deformation
- ◆ Loading weight of worktable is increased by 50% than loaded weight of VMC machine table
- ◆ Heavy cutting of machine 's vibration is reduced, it is more suitable heavy cutting for the structure design of spindle centerline and Z axis guide-way basic coincidence
- ◆ Z axis adapt Nitrogen balance, improved reaction speed , run more smoothly than VMC machine with Heavy hammer

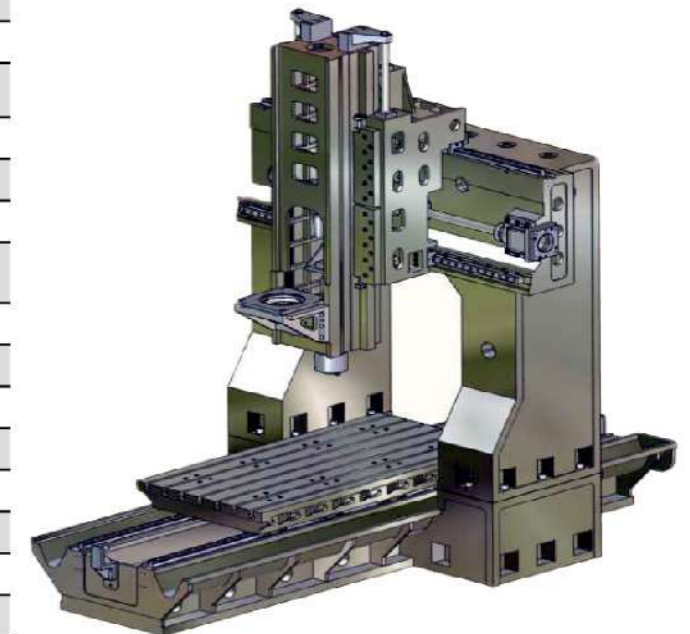
### Industry Focus



car front bar mold household appliances mold car interior mold

## SPECIFICATIONS

Model	BTMC-1215B	BTMC-1220B	BTMC-1225B	BTMC-1520Q	BTMC-1525Q	BTMC-1530Q	BTMC-1012B	BTMC-1014B	BTMC-1016B	BTMC-1020B			
Table size	mm	900×1500	900×2000	900×2500	1100×2000	1100×2500	1100×3000	900×1400	900×1600	900×1800	900×2200		
Travel	Longitude(X)	mm	1500	2000	2500	2000	2500	3000	1200	1400	1600	2000	
	Crossward(Y)	mm		1200			1500			1100			
	Vertical(Z)	mm		800			800			800 (Optional 600)			
Gantry width	mm		1200			1500				1100			
Distance between spindle and table	mm		120-920			70-870				150-950			
	Rotation speed	rpm		6000/8000		6000				8000 (BT40-10000/12000/15000 optional)			
Spindle	Taper			BT50 (Φ155)		BT50 (Φ190)				BT50 (BT40 direct connection spindle optional)			
	Motor	kw		15-18.5		18.5				15 (high speed motor change with different speed)			
Work table T slot (NO.-Size*Pitch)			7-22×125			7-22×150				7-22×125			
Rapid feed	Longitude(X)	m/min		18 ( X axis Heavy-duty ball screw)		12 ( X axis Heavy-duty ball screw)				18 ( X axis Heavy-duty ball screw)			
	Crossward(Y)	m/min		18 ( Y axis Heavy-duty ball screw)		12 ( Y axis Heavy-duty ball screw)				18 ( Y axis Heavy-duty ball screw)			
	Vertical(Z)	m/min		18 (Z axis hard way)		12 (Z axis Hrad way)				18 (Z axis Hrad way), Configure BT40 (Z axis linear way)			
Cutting feed	m/min		8			8				8			
Positioning accuracy	mm/m		0.01			0.01				0.01			
Min.set moving unit	mm		0.001			0.001				0.001			
Dimension(L*W*H)	mm		5000/6500/7500×2800×3600			6900/7700/9000×3400×4000				4200/4700/5200/6200×2600×3400			
Net weight	kg		13000	14000	15000	17000	18500	19500		12000	12600	13000	14000
Max.load of table	kg		1800	2000	3000	3000	3500	4000		1600	1800	2000	2400





# CNC GANTRY TYPE MACHINING CENTER

—BTMC Serie



## PRODUCT FEATURES

- ◆ Serie 13 and serie 15 have either hard way X axes and linear way Y axis or X&Y axis are both linear way. For the other series, X&Y axes are all heavy-load roller linear way. Z axis for all models is rectangular slide way.
- ◆ High quality resin sand casted, gantry type frame structure ,Z axis employs laminated slide way system, which suits high rigidity and high precision parts processing.
- ◆ Equipped with Europe imported gear box, rack and coupling (French brand gear driving box, Swiss brand rack and German brand coupling), Japanese / German Brand linear guide way and spindle bearing adopt . Lead screw, block nut, pulley, spindle, hydraulic balance system are from Taiwan the top brand' s top quality accessories, which ensure high precision, high quality and high stability.
- ◆ Cooperated with Spanish brand Nicholas' s top class gantry type machining center in technology for many years. Continuously optimizes the mechanic features of gantry type machining center.
- ◆ Adopts temperature control technique (our patent) to ensure stability and accuracy of long-hour processing.
- ◆ Adopts modular design, which made many different type of optimized model, that satisfys the different customer processing needs and fast delivery requirements.

## SPECIAL MODEL

### Gear head gantry type machining center

- ◆ Equipped with ZF gear reducer box (German) or gear type spindle -case (Taiwan), which can achieve high strength cutting.



### Multiple functional gantry type machining center

- ◆ Can be equipped with direct - connection type milling head, high speed spindle, which can achieve high rotation speed cutting
- ◆ Can be equipped with Taiwan 90° angel milling head , which can meet simple horizontal processing requirement.
- ◆ Can be equipped with Taiwan universal milling head, which can meet achieve simple multiple angel processing needs.
- ◆ Can be equipped with auto pentahedral milling head, which can achieve multi-surface high precision processing.



## Industry Focus



## SPECIFICATIONS

Model		BTMC-1302	BTMC-1502Q	BTMC-1502	BTMC-1802	BTMC-2202	BTMC-2204	BTMC-2503	BTMC-2505	BTMC-2705	BTMC-2905	BTMC-3206	BTMC-4208	BTMC-5016
Table size	mm	2000×1000	2000*1100	2000×1200	2000×1600	2000×1800	4000×1800	3000×2300	5000×2300	5000×2300	5000×2500	6000×2500	8200×3200	16000×4000
Travel	Longitude(X)	2000	2200	2000	2000	2000	4000	3000	5000	5000 (three linear way)	5000 (three linear way)	6200 (four linear way)	8000 (four linear way)	16000
	Crossward(Y)	1400(effective 1300)	1550	1650(effective 1500)	2000	2200	2200	2700(effective 2600)	2700(effective 2600)	2700(effective 2600)	2900	3800(effective 3200)	4200	5000
	Vertical(Z)	800	800	800	1000	1000/1250*	1000/1250*	1000/1250*	1000/1250*	1000/1250*	1000/1250*	1250	1500	1500
Gantry width	mm	1400	1500	1650	2000	2200	2200	2700	2700	2700	2900	3200	4200	5000
Distance between spindle and table	mm	120-920	120-920(Linear 70-870)	115-915	250-1250	250-1250/1500*	250-1250/1500*	260-1260/1510*	260-1260/1510*	260-1260/1510*	260-1260/1510*	360-1610	300/1800	400-1900
Spindle	Rotation speed	rpm	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	3000	2500
	Taper		BT50	BT50	BT50	BT50	BT50	BT50	BT50	BT50	BT50	BT50	BT50	BT50
	Motor	kw	15	15	22	22	22	22	30	30	30	30	37	37
Rapid feed	Longitude(X)	m/min	12	12	12	12	12	12	12	12	12	12	12	12
	Crossward(Y)	m/min	12	12	12	12	12	12	12	12	12	12	12	12
	Vertical(Z)	m/min	12	12	12	12	12	12	12	12	12	12	12	12
Cutting feed	m/min	8	8	8	8	8	8	8	8	8	8	8	8	
Positioning accuracy	mm	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Min.set moving unit	mm	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Dimension(L*W*H)	mm	6700×3000×4000	6900×3400×4000	7200×3700×4300	7200×4100×4700	7200×4300×5100	10600×4300×5100	9200×5000×4800	13000×5000×4800	13000×5500×5000	13000×6000×5000	16500×6500×6000	21000×6500×6000	21000*6500*6000
Net weight	kg	16000	17000	24000	24000	36500	41500	45000	54000	56000	58000	81000	115000	190000
Max.load of table	kg	3000	3000	3000	4000	4000	10000	10000	15000	18000	20000	25000	40000	7000/square meter
Other model with same type/ X axis travel	mm	1325/2500 1303/3000 1335/3500		1503/3000 1504/4000	1825/2500 1803/3000 1835/3500 1804/4000	2203/3000	2205/5000 2206/6000	2504/4000	2506/6000 2508/8000	2703/3000 2704/4000 2706/6000 2708/8000	2903/3000 2904/4000 2906/6000 2908/8000	3204/4000 3205/5000 3208/8000	4204/4000 4206/6000 4210/10000 4212/12000	5012/12000 5020/20000 5028/28000 5032/32000

Light-weight gantry type machining center 1502Q model focuses on light and larger aluminum parts processing.

### Standard Accessories

- ◆ Spindle oil cooler
- ◆ Heat exchanger
- ◆ Auto conveyor
- ◆ Full enclosed cover
- ◆ Auto lubrication system
- ◆ Pneumatic system
- ◆ RS232 Interface
- ◆ Operation unit
- ◆ RS232 Interface
- ◆ Warming light
- ◆ Working light
- ◆ Tool and tool box
- ◆ Spindle encoder position system
- ◆ Three Inner encoder feedback system
- ◆ Fanuc /Mitsubishi Controller system

### Optional Accessories

- ◆ Other Controllers
- ◆ 4 axis rotary table
- ◆ Through spindle water coolant
- ◆ Ring spray spindle
- ◆ ZF gear box
- ◆ 90 degree angle milling head



# CNC DEEP HOLE DRILLING MACHINE

## SPECIAL MODEL

- ◆ Cast iron is tempered for stress relief to ensure structural stability without deformation.
- ◆ High rigidity and precision ballscrew on three axis, providing powerful torsion and improving the durability.
- ◆ High-quality linear guideway on three axis allow very high speeds and high table load capacity ensure maximum accuracy and durability.
- ◆ AC servo motor are directly connected with ballscrew to allow stable transmission without any back lash, and greatly improves the dynamic rigidity of transmission and rapid feed.
- ◆ Powerful spindle servo motor to satisfy processing at high or low speed. Auto oil cooling system to ensure the constant temperature during machining.



## SPECIFICATIONS

Model	TL-600	TL-800	TL-1100	TL-1600	TL-2016	TL-2200	TL-3200
Number of drill spindle	Uniaxial	Uniaxial	Uniaxial	Uniaxial	Uniaxial	Uniaxial	Uniaxial
Inner diameter of drilling mm	2.0-25	2.5-30	2.5-35	2.5-40	2.5-40	2.5-42	3-45
maximum depth of drilling mm	600	800	1200	1600	1650	2200	2200
Size of working table mm	800*600	900*700	1250*950	1800*1100	2200*1350	2200*1350	2800*1700
X-axis travel mm	800	800	1100	1600	2200	2200	3200
Y-axis travel mm	600	600	1050	1100	1100	1450	1550
Z-axis travel mm	620	900	1200	1650	1650	2200	2200
Drilling cutting feed rate mm/min	10-250	10-250	10-250	10-250	10-250	10-250	10-250
Maximum rotating speed of spindle rpm	7000	7000	7000	7000	7000	7000	7000
Spindle motor KW	(Servo) 5.5-7.5	(Servo) 7.5	(Servo) 7.5-11	(Servo) 11-15	(Servo) 11-15	(Servo) 11-15	(Servo) 15-20
Moving motor from right to left on work table (X) KW	(Servo) 2.0	(Servo) 2.0	(Servo) 3.0	(Servo) 3.0	(Servo) 4.4	(Servo) 5.0	(Servo) 5.5
Moving the motor from up to down on Spindle (Y) KW	(Servo) 1.5	(Servo) 2.0	(Servo) 2.0	(Servo) 3.0	(Servo) 3.0	(Servo) 3.0	(Servo) 3.0
Moving the motor from front to back on spindle (Z) KW	(Servo) 1.5	(Servo) 1.5	(Servo) 1.5	(Servo) 2.0	(Servo) 2.0	(Servo) 2.0	(Servo) 2.0
Pressure of cutting pressure pump kgf/cm <sup>2</sup>	80	80	80	80	80	80	80
Oil mass of oil pressure pump litre/min	6-60	6-60	6-60	6-60	6-60	6-60	6-60
Capacity of cutting oil tank litre	600	600	700	800	800	800	800
Load capacity of working table kg	4000	5000	6000	10000	12000	12000	15000
Machine net weight kg	4800	6500	9500	13000	14000	16800	22000
Machine power KW	20	23	26	30	33	35	45
Machine size (L*W*H) mm	4700*3300*2200	4700*3300*2200	5100*3600*2700	5700*4100*2800	6000*5500*3000	6900*5500*3200	7100*7100*3300





**PROCESSING RANGE**

- ◆ It is applicable for deep hole working of various types of workpiece: moulds(including water pores, hot runners, centre holes, guide post holes, and ejector sleeve holes), automobile parts, bent axle levels, hydraulic pipes, etc.
- ◆ The deep hole drill differs from the traditional hole making methods, and by specific drilling technology and one-pass, can achieve such advantages as precise machining effect, accurate hole site, good dimensional accuracy, high straightness and coaxiality, very high surface smoothness and reparability.
- ◆ convenience for processing various deep holes, better solution for such various specific deep holes as cross holes, inclined holes, blind holes, and flat blind holes, advanced and efficient hole making technology, and high processing precision, efficiency and consistency.
- ◆ since the deep hole drill is launched, we receive orders from mold factories and large processing plants and inquiry from many small and medium-size model factories, and it suffices to show the market demand for the product.

**Accessories**



Spindle oil cooler



strong deoiling machine



grinder machine



Cutting oil



gundrill



linear guideway



spindle



bearing



Precision guide sleeve and rubber guide



# SMALL PARTS HIGH PRECISION CNC LATHE MACHINE

—HTC serial

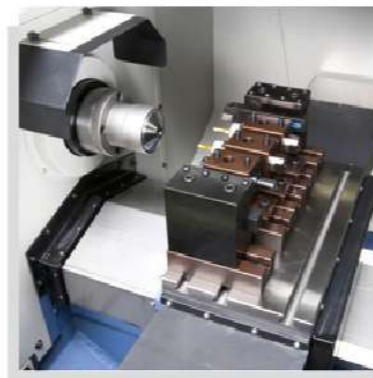


## PRODUCT FEATURES

### cnc lathe machine with function

—HTC3640

- ◆ X axis one-side travel is 350mm, the total travel is 700mm, could equipped with more tools, fit for complex parts.
- ◆ Special spindle bearings and X Z axis bearings, promoted the machine rigidity Substantially, and the cutting force has been promoted about 50%.



### great travel cnc lathe machine

—HTC3630M

- ◆ Equipped with power head and servo motor, achived radial and axial milling function.
- ◆ Adopted multi pipeline and big power coolant system, ensure the surface fineness of the turn-milling
- ◆ Spindle brake system, assured the accuracy of milling.



## SPECIFICATIONS

Model	HTC-3627	HTC-3627B	HTC-3630	HTC-4235
Max swing diameter over table	mm 360	360	360	420
Max swing diameter over carriage	mm 120	120	120	120
Max length of workpiece	mm 200	200	230	330
Spindle head (Chuck optional)	A2-4(5")	A2-5(6")	A2-5(6")	A2-5(6")
Spindle motor	kw 5.5	5.5	5.5	5.5
Spindle rotation speed	rpm 4500	4500	6000	5000
Spindle through-hole diameter	mm 46	56	56	56
Bar diameter	mm 32	42	45	45
X axis limited travel	mm 350	350	400	470
Z axis limited travel	mm 260	260	300	350
Tool post	Gang tool/Four position electronic turret*/Six or Eight position hydraulic turret			
Chuck power	5" hydraulic ckuck		6" hydraulic chuck	
Height of tool turret center	mm 63	63	63	63
X axis rapid movement	m/min 20	20	20	20
Z axis rapid movement	m/min 20	20	20	20
Bed type	Whole body Slant type 45°		Whole body Slant type 30°	Whole body 45°
Demension	mm 1940×1320×1820	1940×1320×1820	2070×1615×1770	2200×1940×2140
Net weight	kg 1750	1780	2400	2400

## PRODUCT FEATURES

- ◆ X、Z is linear way, the rapid feed is 20m/min.
- ◆ Taiwan high speed spindle, ensured the accuracy and high speed.
- ◆ Coulpling, bearing, ball screw and linear way are imported from German, Japan and Taiwan famous brand.
- ◆ Auto Lubrication system, reduces wear and keep the accuracy.

## Industry Focus



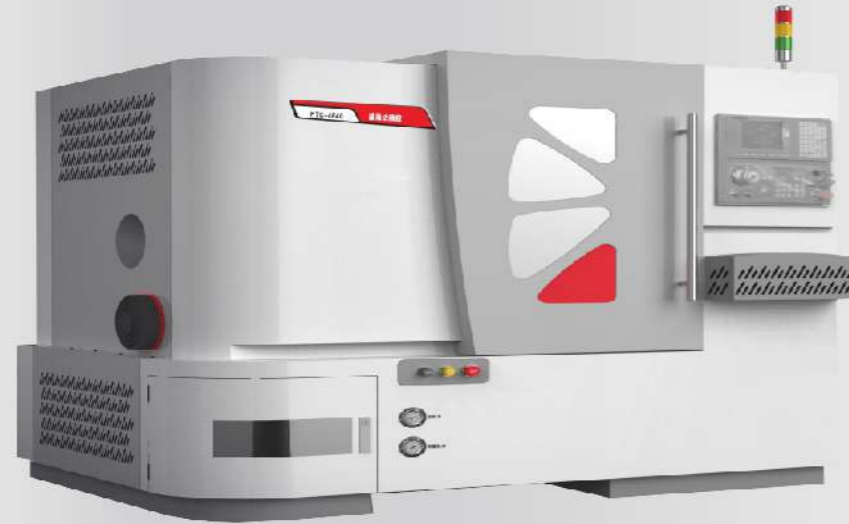
AUTO PARTS

COMMUNICATION EQUIPMENT

AUTO PART

AUTOMATION EQUIPMENT

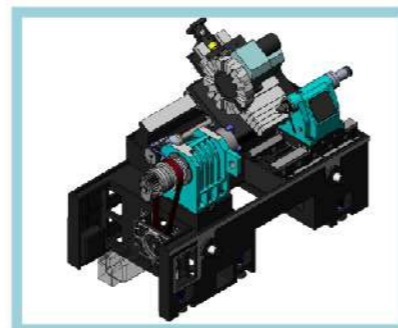
## Slant bed type high accuracy CNC lathe machine



### SPECIAL MODEL

#### HTC4640M / HTC5661M

- ◆ Equipped with power turret and servo motor, achieved radial and axial milling function.
- ◆ Adopted multi pipeline and big power coolant system, ensure the surface fineness of the turn-milling.
- ◆ Spindle brake system, assured the accuracy of milling.

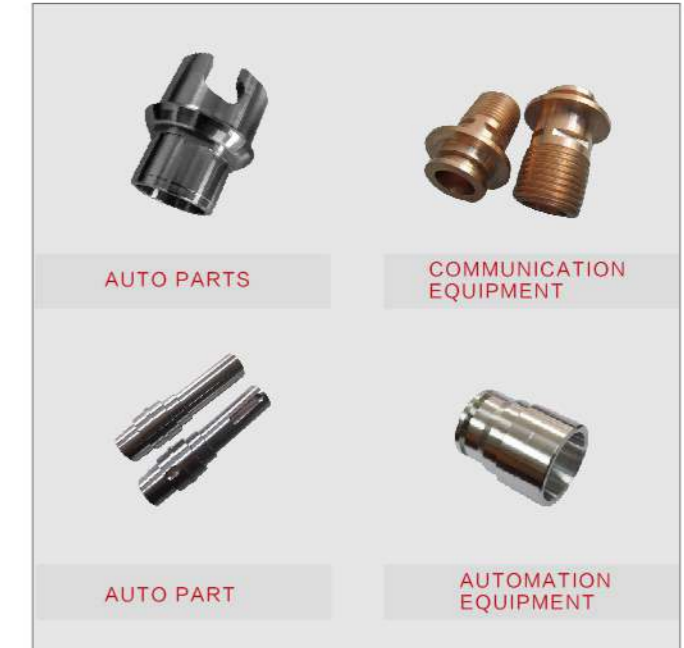


### PRODUCT FEATURES

#### HTC4640M / HTC5661M

- ◆ Slant bed type casting, two axis linear way, apply to high precision processing.
- ◆ Taiwan linear way, ensured the stability of accuracy.
- ◆ Taiwan high speed and high accuracy spindle, Japan high precision bearing,.
- ◆ Hydraulic chuck, hydraulic station and hydro-cylinder is optional.
- ◆ Chain type auto conveyor is optional.
- ◆ GSK control system or KND control system.

### Industry Focus



### SPECIFICATIONS

Model	HTC4640	HTC5661	HTC58100	HTC65100	
Max swing diameter over table	mm	460	560	580	650
Max swing diameter over	mm	170	190	360	400
Max length of workpiece	mm	350/300/285	500/465/300	1000	1000
Spindle head (Chuck optional)		A-5(6")/A2-6(8")	A-6(8")/A2-8(10")	A2-8(10")	A2-8(10")
Spindle motor	kw	7.5	11	11	11
Spindle rotation speed	rpm	5000/4000*	4200/3000	2600	2600
Spindle through-hole diameter	mm	φ56	φ66/φ87	φ87	φ87
Bar diameter	mm	φ42	φ52/φ75	φ72	φ72
X axis limited travel	mm	210	230	350	350
Z axis limited travel	mm	400	610	1120	1120
Tool post		10 position/12 position servo turret/12 position power turret/8 position/10 position/12 position hydraulic turret			
Height of tool turret center	mm	80	100	100	100
Diameter of tailstock sleeve	mm	65	80	100	100
Travel of tailstock sleeve	mm	80	80	120	120
Max travel of tailstock	mm	300	450	1250	1250
Taper of tailstock sleeve		MT4	MT4	MT5	MT5
Bed type		Whole slant bed type 30° Whole slant bed type 30° Whole slant bed type 45° Whole slant bed type 45°			
Demension	mm	2200×1600×1700	2550×1760×1900	3600×1700×1800	3600×1700×1900
Net weight	kg	2250	3200	5500	5500



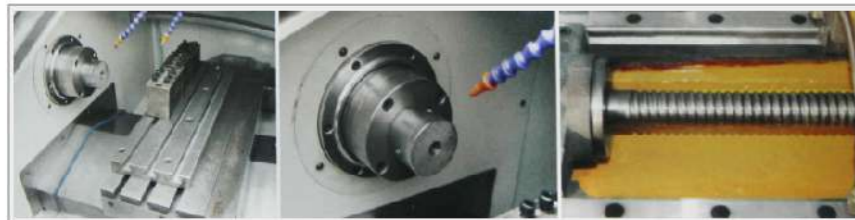
# FLAT BED AND HIGH SPEED CNC LATHE MACHINE

—CKH serial



## PRODUCT FEATURES

- ◆ Flat bed type equipped with Taiwan high accuracy linear way, promoted the speed and stability.
- ◆ Angular contact spindle bearing, Strengthened the rigidity and accuracy of spindle, promoted the cutting ability.
- ◆ Mid-screw, strengthened the stability when the machine running.
- ◆ High effective, High precision and high cost performance.



## SPECIFICATIONS

Model		CKH3228	CKH3229
Max swing diameter over table	mm	320	320
Max swing diameter over carriage	mm	160	160
Max length of workpiece	mm	280	240
Spindle motor	kw	4	4
Spindle rotation speed (Variable speed )	rpm	100-3000	100-3000
Spindle through-hole diameter	mm	48	48
Bar diameter	mm	46/40*(hydraulic chuck)	40
X axis limited travel	mm	250	230
Z axis limited travel	mm	280	290
Tool post		Gang tool/Four position electronic turret*	
Chuck power		Manual*/Hydraulic*	Pneumatic
Chuck size	mm	φ160/φ200	Rear pull chuck
Bed type		Flat bed type	Flat bed type
Guide-way type (X, Z)		Linear way	Linear way
Tailstock power		Without	Without
X axis rapid movement	m/min	12	12
Z axis rapid movement	m/min	15	14
Demension	mm	1750×1100×1600	1780×1230×1770
Net weight	kg	2000	1035

## Industry Focus



# FLAT TYPE CNC LATHE MACHINE

—CKI Serie



## PRODUCT FEATURES

- ◆ Machine body guide way are quenched for better resistance of abrasion , and increased stability and accuracy.
- ◆ 6136,6140 machine employ intergrated body structure, and extra wide guide way with better vibration resistance.
- ◆ Spindle, saddle adopt special structure and technology, which increase precision, stability and accuracy.
- ◆ Models above 6150 adopt gear box transmission design, and are equipped with inverter spindle motor which can enable strong cutting force with 3-level gear speed. and change rotation speed by controller system at each speed level
- ◆ Optional control system: GSK Control System, KND Control System and Fanuc Mate Control System.

## SPECIFIATIONS

Model		CKI-6140	CKI-6150	CKI-6163	CKI-6180
Max swing diameter over table	mm	420	500	630	800
Max swing diameter over carriage	mm	230	300	350	520
Max length of workpiece	mm	750	1000/1500/2000	1000/1500/2000/3000/4000/5000	
Width of guide rail	mm	350	390	550	550
Spindle rotation speed	rpm	50-2500	65-1600	40-125、110-350、290-950	
Variable structure of spindle box		Variable speed		3 grades v variable speed	
Spindle motor	kw	5.5	7.5	11	11
Spindle head and spindle taper		Metric70/1:20	C8/1:20	C-11/1:20	C-11/1:20
Diameter of spindle hose	mm	66	82	105	105
X axis limited travel	mm	220	295	400	400
Z axis limited travel	mm	750	750/1000/1500/2000	1000/1500/2000/3000/4000/5000	
Tool post		Four position electronic turret	Four/Six position electronic turret	Four/Six position electronic turret	
X axis rapid speed	m/min	6	6	6	6
Z axis rapid speed	m/min	8	8	8	8
Diameter of sleeve	mm	60	75	100	100
Travel of sleeve	mm	120	150	250	250
Taper of tailstock sleeve		MT4	MT5	MT5	MT5
Positioning accuracy	mm	0.01	0.01	0.01	0.01
Demension(L*W*H) (1 meter machine)	mm	2385×1200×1800	2490×1420×1600 (1 meter)	3500×1500×1700 (1 meter)	3500×1500×1700 (1 meter)
Net weight	kg	1600	2400/2700/3000	4100/4500/5800/6000/6300/7000	
Distance between centers	mm	750	750/1000/1500/2000	1000/1500/2000/3000/4000/5000	

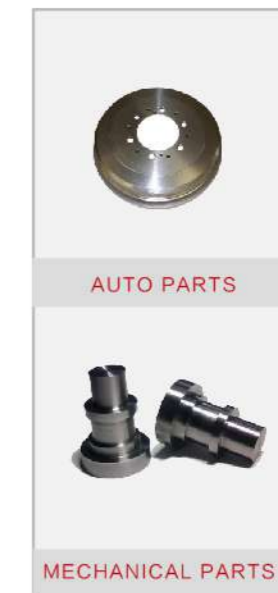
## Standard Accessories

- ◆ Four position electronic turret
- ◆ 3-jaw chuck
- ◆ Tool and toolbox

## Optional Accessories

- ◆ Six position electronic turret
- ◆ Hydraulic tailstock
- ◆ Fanuc controller

## Industry Focus





# PRECISE MILLING MACHINE

## —VA Serie



**High Class Meehannite Casting ,Double Strengthened Ribs, Ensure The Best Accuracy And Stability**

- ◆ Spindle tolerance: 0.002mm
- ◆ Suitable for electronic parts ,mould and hole,slot and frame processing
- ◆ Twice precision scraping can ensure processing quality
- ◆ Taiwan original milling head ,NSK P4 spindle bearing

### SPECIFICATIONS

Model		3VA	4VA	4VB/4VC	5VA/5VB	6VA/6VB	7VA	8VA
Table size	mm	1270×254×90	1270×254×90	1270×254×90 1370×254×90	1270×254×90 1470×305×90	1370×330×99	1370×330×99	1524×360×99
Travel	Longitude(X)	▲880	▲900	▲900 ▲1000	▲680 ▲820	▲850 ▲1000	▲1000	▲1150
	Crossward(Y)	▲395	■390	■420	■415	■390	■500	■500
	Vertical(Z)	▲340	▲340	■370	■430	■450	■500	■500
Travel of spindle quill	mm	127	127	127	150	150	150	140
Max. distance from the spindle nose to table	mm	400	450	440 400	590	570	680	690
Rotation speed	rpm	66-4530/(16grades) 50HZ 80-5440/(16grades) 60HZ			58-3000/(10grades) 50HZ		70-3600/(10grades) 60HZ	
Spindle	Taper	R8(NT30)	R8(NT30)	R8(NT30)	NT40	NT40	NT40	NT40
	Rated power	HP	3HP	3HP	3HP	5HP	5HP	5HP (7.5HP Optional)
Tilt angle	Forward and Backward	±45°	±45°	±45°	0°(±45°optional)	±45°	±45°	0°(±45°Optional)
	Left and Right	±90°	±90°	±90°	±90°	±90°	±90°	±90°
Dimension	mm	1500×1700×2150	1500×1700×2200	1500×1700×2150 1600×1800×2150	1500×1700×2450 1500×1900×2450	1600×2000×2450	2000×2000×2750	2300×2000×2900
Net weight	Kg	1280	1400	1500	2000/2100	2200/2300	2700	2900

▲ Dovetail Way ■ Square Way All the travel distances mentioned above are tested without any accessories,Travel distance would be decreased if the power feed or elevating motor is assembled

### Standard Accessories

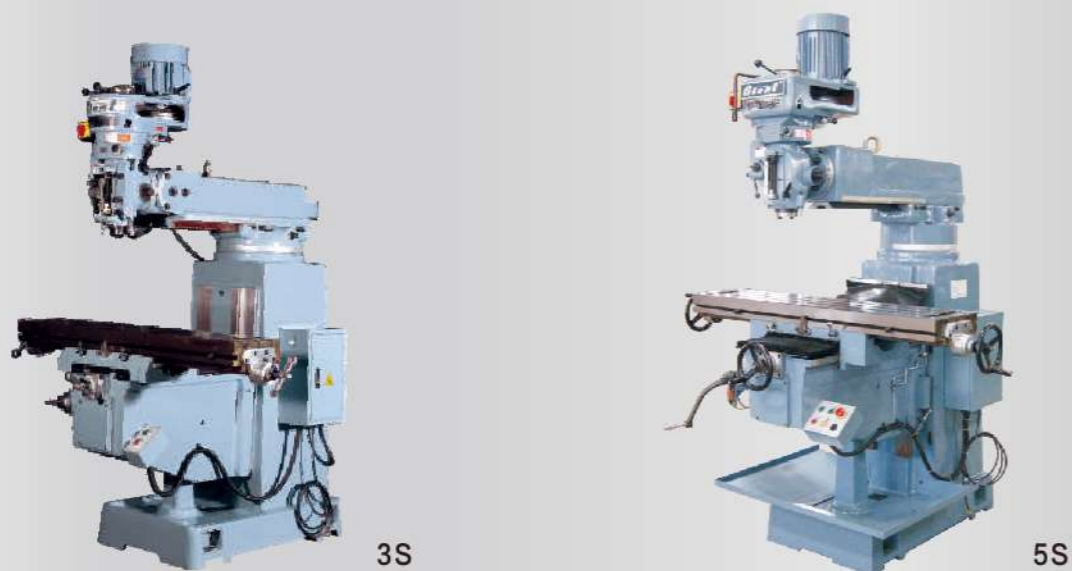
- ◆ Step speed milling head
- ◆ Way cover ,working light tool and toolbox

### Optional Accessories

- ◆ Milling chuck
- ◆ Clamping kit
- ◆ Coolant system
- ◆ X/Y Axis power feed
- ◆ Elevator motor
- ◆ Two axis DRO / Three axis DRO
- ◆ Mechanic feed
- ◆ Vise
- ◆ Variable speed milling head
- ◆ Inverter speed milling head
- ◆ NT30/NT40 Power bar

## STANDARD MILLING MACHINE

—S Serie



### PRODUCT FEATURES

#### Strong Cutting High Efficiency Capacity Of Machine

- ◆ Spindle tolerance: 0.005mm
- ◆ Unique spindle assembling technology ,with high precision and cutting efficiency
- ◆ Suitable for plastic ,mould processing and other strong cutting parts

### SPECIFICATIONS

Model		3S	4S/4SA	4SB	5S
Table size	mm	1270×254×90	1270×254×90 1370×280×90	1270×254×90	1370×305×85
Travel	Longitude(X)	▲840	▲900 ▲1000	▲900	▲720
	Crossward(Y)	▲395	■395 ■370	■370	■415
	Vertical(Z)	▲350	▲340	■360	■385
Travel of spindle quill	mm	127	127	127	127
Max distance from the spindle nose to table	mm	400	400/460	400	550
Spindle	Rotation speed	66-4530/(16grades) 50HZ		80-5440/(16grades) 60HZ	
	Taper	R8(NT30)	R8(NT30)	R8(NT30)	NT40
	Rated power	3HP	3HP	3HP	5HP
Tilt angle	Forward and Backward	±45°	±45°	±45°	0°(±45°Optional)
	Left and Right	±90°	±90°	±90°	±90°
Dimension	mm	1500×1700×2150	1500×1700×2150 1500×1800×2200	1500×1700×2150	1600×1850×2400
Net weight	Kg	1280	1400/1550	1500	1900

## ECONOMIC MILLING MACHINE

—E Serie



### PRODUCT FEATURES

- ◆ Low price with good quality
- ◆ Taiwan parts assembled in China
- ◆ Spindle tolerance :0.005mm
- ◆ Suitable for household appliances,daily necessities mold processing

### SPECIFICATIONS

Model		3E	4E/4EA	4EB	5EA/5EB	6E
Table size	mm	1270×254×90	1270×254×90 1370×280×90	1270×254×90	1370×280×90 1270×254×90	1370×305×85
Travel	Longitude(X)	▲880	▲900 ▲1000	▲900	▲1000 ▲900	▲720
	Crossward(Y)	▲395	■395 ■370	■370	■385 ■370	■415
	Vertical(Z)	▲340	▲340	■360	▲340 ■360	■385
Travel of spindle quill	mm	127	127	127	127	127
Max distance from the spindle nose to table	mm	400	400/460	400	460/400	520
Spindle	Rotation speed	80-5440/(16grades)/60HZ		66-4530/(16grades)/50HZ		
	Taper	R8(NT30)	R8(NT30)	R8(NT30)	NT40	NT40
	Rated power	3HP	3HP	3HP	5HP	5HP
Tilt angle	Forward and Backward	±45°	±45°	±45°	±45°(±0°Optional)	±0°
	Left and Right	±90°	±90°	±90°	±90°	±90°
Dimension	mm	1500×1700×2150	1500×1700×2150 1500×1800×2200	1500×1700×2150	1600×1800×2200 1500×1700×2150	1600×1850×2400
Net weight	Kg	1280	1400/1550	1500	1750	1900



## BED TYPE MILLING MACHINE

—VA Serie



B600



B600SC

### Milling And Boring Machine For High Precision Components Processing

- ◆ Bed type ,meehanite cast ,high rigidity ,good bearing capacity
- ◆ Taiwan original precise milling head, ball screw ,and NSK P4 precise bearing spindle tolerance:0.002mm
- ◆ Suitable for heavy and large work pieces (800~1000kgs )processing
- ◆ Three axis precision ball screw ,with high position accuracy

### SPECIFICATIONS

Model		B600	B600L	B600SC
Table size	mm	1370×405	1570×405	1370×405
Travel	Longitude(X)	▲1000	■1500	▲1000
	Crossward(Y)	■460	■460	■460
	Vertical(Z)	■640	■580	■520
Travel of spindle quill	mm	150	150	140
Max. distance from the spindle nose to table	mm	760	760	640
Rotation speed	rpm	70-3600/(10grades)/50HZ		58-3000/(10grades)/50HZ
Spindle	Taper	NT40	NT40	NT40
	Rated power	HP	5HP	5HP
Tilt angle	Forward and Backward	0°	0°	0°
	Left and Right	±90°	±90°	±90°
Dimension	mm	2000×2230×2150	2000×3050×2150	2000×2230×2150
Net weight	Kg	2800	2900	2900

## HORIZONTAL AND VERTICAL MILLING MACHINE



4VH



6VH

- ◆ Application :sewing machine,metal parts shoes mould ,clocks,etc.
- ◆ Suitable for the semi-rough,precise processing
- ◆ Taiwan milling head and ball screw
- ◆ Power feed or Mechanic feed is optional
- ◆ Vertical milling ,horizontal mill and 45 degree mill and slant mill can be performed by these models

### SPECIFICATIONS

Model		4VH	6VH
Table Size	mm	1270*254	1372*330
Travel	Longitude (X)	900	1000
	Crossward (Y)	380	400
	Vertical(Z)	360	420
Travel of Spindle Quill	mm	127	150
Max.Distance from the spindle nose to table	mm	440	600
Diameter of Quill	mm	Φ85.725	Φ105
Rotation speed (Vertical/Horizontal)	rpm	Vertical:66-4530/(16grades)/50HZ Horizontal:60-1320/(16grades)/50HZ	Vertical:70-3600/(16grades)/50HZ Horizontal:60-1320/(16grades)/50HZ
	Spindle taper	R8(NT30)	NT40
Rated power (Vertical/Horizontal)	HP	3HP	5HP
Dimension	mm	1720*1870*1670	1900*1750*2450
Net Weight	Kg	1500	2200
Max.load of work table	kg	350	500

▲ Dovetail Way    ■ Square way    All the travel mentioned above is tested without any accessories.  
Travel would be decreased if the power feed and elevating motor is assembled.

# KNEE TYPE NC MILLING MACHINE



4KJ-B



4KI

## Joint Brand NC Intelligenet Milling Machine Ordinary Milling Machine Replacement

- ◆ Based on windows XP platform ,Joint intelligent controller is designed to have more user friendly applications
- ◆ With Z axes servo motor driving ,the machine can realize Z axes auto control high precision processing
- ◆ X/Y/Z axes adopt ball screw ,which can make sure accurate positioning by pitch feedback
- ◆ X/Y/Z axes servo motor helps realize three-axes auto control and improve the feed speed and processing accuracy

### SPECIFIATIONS

Model		4KJ-B	6KJ-B	84KJ-B	204KJ-B
Table Size	mm	1270x254x90	1370x330x90	1370x330x90	2000x406x180
T slot (W*N*D)	mm	16x3x65	16x3x68	16x3x68	16x5x65
X axis Travel	mm	730	800	800	2000
Y axis Travel	mm	340	310	420	500
Z axis Travel	mm	115	110	350+Manual150	350+150(Manual)
Knee travel	mm	340	370		
Max.distance between spindle and table	mm	400	430	0-500	0-500
Rated power	HP	3HP (2.2KW)	5HP(3.7KW)	5HP(3.7KW)	5HP(3.7KW)
Spindle taper		R8 (NT30)	NT40	NT40	NT40
Rotation speed	rpm	80-4530 (16spdde)			
Rapid feed(X/Y/Z)	m/min	8/8/8	8/8/8	10/10/10	10/10/10
Cutting feed	m/min	5	5	8	8
Dimension	mm	1500x1700x2150	2100x1750x2450	2100x1750x2100	5000x1550x2100
Net Weight	Kg	1400	1800	2000	3900



ball screw



servo motor drive



## Easy Operation ,High Cost –effective ,Fit For Small Metal Parts Processing

- ◆ Reasonable price with high quality
- ◆ Special design and high accuracy
- ◆ Imported high precision milling head and other core parts

### SPECIFIATIONS

Model		4K/4KI	5K	6KI
Table size	mm	1270x254	1370*330	1370x330
T slot (W*Number*Distance)	mm	16x3x65	16*3*68	16x3x68
Table travel	Longitude (X)	740	800	800
	Crossward (Y)	330	330	330
Diameter of spindle quill	mm	86	86	110
Travel of spindle quill	mm	127	127	150
Max.distance between spindle and table	mm	420	430	430
Spindle	Rotation	rpm	60-4200 inverter(stepless)	60-4200 stepless
	Taper		NT30 or R8	
	Rated power	HP	3HP	5HP
Dimension	mm	1800x1600x2300	1900*1750*2450	1900x1750x2450
Net Weight	Kg	1400	2000	2200

I:Inverter speed K:Variable speed



## ELECTRIC DISCHARGE MACHINE



ZNC-540

ZNC-700

## Stability And Reliability Quality For Mould Processing

- ◆ Full size machine could meet with all requirements of mould processing
- ◆ Famous Taiwan brand controller ,reliable and accuracy
- ◆ All keys are from Taiwan and Japanese top brands

## SPECIFICATIONS

Model	ZNC MACHINE			CNC MACHINE			
Control mode & Axis No.	NC with close circuit/ Single Z axis control			NC with close circuit/X,Y and Z axis control			
Min. setting value.	mm	0.005(0.001)			0.005		
Max. setting value.	mm	9999.995(9999.9999)			9999.995		
Coordination system	(INC)、(ABS)			(INC)、(ABS)			
Screen	15" TFT			15" TFT			
Control system	Industrial PC			Industrial PC			
Moving velocity of controller	0.005mm (Per Unit )x1,x5,x10			0.005mm (Per Unit )x1,x5,x10			
Procedure in store	0-999groups			0-999groups			
Max. current for processing	A	50	75	100	50	75	100
Input rated power	KVA	5	6	10	5	6	10
Max. cutting processing speed	mm <sup>3</sup> /min	360	560	700	360	560	700
Consumption of the electrode head	%	<0.2			<0.2		
Best surface rough	μmpa	0.25			0.25		
Dimension	mm	620×860×1850			620×860×1850		
Net weight	Kg	210			215		

## SPECIFICATIONS

Model	ZNC-320	ZNC-450 CNC-450	CNC-450N	ZNC-540 CNC-540	CNC-540N	ZNC-650	ZNC-700	CNC-850N	CNC-1060N	CNC-1260N	CNC-1470N	CNC-1680N CNC-1680NN	CNC-1880N CNC-1880NN	CNC-2110N CNC-2110NN	CNC-2590N CNC-2590NN	CNC-3010N CNC-3010NN		
Size of oil container	mm	880×520×330	1100×710×450	1130×710×450	1300×720×475	1370×720×450	1650×1100×630	1650×1100×630	1650×1100×600	2000×1300×700	2000×1300×700	2250×1300×650	2550×1500×560	3000×1500×650	3500×1800×650	3800×1800×650	4500×1800×650	
Table size	mm	600×300	700×400	700×400	800×400	850×450	1050×600	1050×600	1000×600	1250×800	1250×800	1500×900	1700×1000	2000×1000	2500×1200	2700×1200	3200×1200	
Table travel	Longitude(X)	mm	300	450	400	500	500	650	700	800	1000	1200	1400	1600/1100	1800/1200	2300/1450	2500/1750	3000/2400
	Crossward(Y)	mm	200	350	300	400	400	550	550	500	600	600	700	800	800	900	900	900
	Vertical(Z)	mm	180	200	300	200	300	250	250	400	450	450	500	500	600	600	600	600
Electrode head	mm	180	280	—	380	—	400	380	—	—	—	—	—	—	—	—	—	
Max. distance between electrode head and working table	mm	420	480	630	580	730	850	850	960	1160	1160	1200	1230	1240	1275	1305	1350	
Max. load of electrode head	Kg	100	120	120	150	150	200	200	200	300	300	400	400	400	450	450	450	
Max. load of table	Kg	800	1200	1500	1500	1800	2000	2000	3000	3500	3500	5000	6000	6500	8000	10000	15000	
Dimension(L*W*H)	mm	1300×1250×1200	2050×2530×2400	2050×2530×2400	1640×1460×2140	2300×2770×2650	2000×1710×2360	2000×1710×2360	2820×3050×2850	3530×3400×3370	3530×3400×3370	3470×3650×3430	3890×3900×3570	3890×4400×3580	4340×4900×3590	4340×5200×3690	4340×5900×3760	
Net weight	Kg	1150	1500	1800	1740	2500	2950	2950	4500	5500	5500	8000	9000/12000	13000/15000	15000/17000	17000/19500	23000/25000	
Filter container	Cube	L	250	400	460	460	640	980	980	2000	2200	2200	2800	3500	—	5000	—	—
	Net weight	Kg	—	150	460	180	200	300	300	410	450	450	500	650	—	880	—	—



# PRECISE SURFACE GRINDING MACHINE



618M



818AH



306AHR



84AHR

## Application For High-Precision processing

- ◆ Durable, high precision and high quality
- ◆ Imported high accuracy grinding head

- ◆ High quality resinify cast ,ageing treatment
- ◆ Taiwan high quality hydraulic system and high precision grinding head

## SPECIFICATIONS

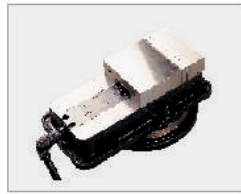
Model	Table size mm	Travel		Table side way mm	Max.distance from spindle center to working table (mm)	Auto crossward feed	Crossward feed of hand wheel		Auto vertical feed	Vertical rapid moving feed (mm)	Vertical feed of hand wheel 1Rev 1Div	Rotation Speed rpm	Grinding Wheel Size	Spindle motor	Hydraulic motor	Crossward driven motor	Vertical driven motor	Coolant pump motor	Dust-clean motor	Dimension (L*W*H) mm	Net weight kg	
		Longitude (X) mm	Crossward (Y) mm				1Rev	1 Div														
614M	360×150	370	160	Slide way	410	—	5	0.02	—	—	1	0.005	2800	φ180×(3-13)×φ31.75	1.5×2	—	—	—	0.12×2	0.75×2	1210×1080×2060	720
618M/H	460×150	470	160	Slide way	410/370	—	5	0.02	—	—	1	0.005	2800	φ180×(3-13)×φ31.75	2×2/ 1.5×2	—	—	—	0.12×2	0.75×2	1490×1100×2060 1360×1500×2060	850/950
818M 818H/AH	460×200 460×200	510 510	210 210	Slide way	400 390/370	—	5 4	0.02 0.02	—	—	1 2	0.005 0.01	2800	φ200×(6-20)×φ31.75	2×2	— 1×4	— -0.05×4	—	0.12×2	0.75×2 (0.5×2)	1500×1220×2090 1480×1500×2090	900/1000
200M 200S/H	410×160 -350×160	430 -380	200 200	Ball-slide way Ball-Slide way /Slide way	445 445	—	4 4	0.02 0.02	—	—	2 1	0.01 0.01	2850	φ200×(6-20)×φ31.75	1.5×2	— -1×4	—	—	0.12×2 0.12×2	0.75×2 (0.5×2)	1610×1120×1645	780
250M 250H/AH/AHR/AHD*	460×200	540	240	Ball Slide way	475/460*	—	4	0.02	-0.002-0.02*	—	1/2* 0.005/0.01* 0.2 (Microfeed) 0.001 (Microfeed)	2850	φ205×(6-20)×φ31.75	2×2/ 1.5×2*	— 1×4	— -0.05×4*	0.1×4/0.5×4*	0.12×2	0.75×2 (0.5×2)	1800×1400×1775	1500	
2550AH/AHR	500×250	540	270	Slide way	510	—	5	0.02	—	- -130	2	0.01	2800	φ200×(6-20)×φ31.75	2×2	1×4	0.2×4	0.1×4	0.12×4	—	1860×1500×2090	1500
306AHR	600×300	640	320	Slide way	580	0.1-8	5	0.02	—	—	2	0.01	1450	φ355×(20-45)×φ127	5×4	2×4	0.08×4	0.1×4	—	—	2040×1830×2090	2100
84AHR	800×400	840	420	Slide way	700	0.1-1	5	0.02	—	—	2	0.01	1450	φ355×(20-45)×φ127	5×4	3×4	0.08×4	0.1×4	—	—	2360×2190×2300	3000
306MSI	600×360	640	320	Slide way	580	0.1-8	0.1/1	0.001/0.01	0.001-0.999	150	0.01/1	0.001/0.1	1450	φ355×(20-40)×φ127	5×4	2×4	9NM	1×4	0.12×2	—	2200×3050×1900	1950
84MSI	800×400	840	420	Slide way	700	0.1-8	0.1/1	0.001/0.01	0.001-0.999	150	0.01/1	0.001/0.1	1450	φ355×(20-40)×φ127	7.5×4	3×6	9NM	1×4	0.12×2	—	2300×3850×1980	3000
5010AHR	1000×500	1100	540	Slide way	700	0.1-10	5	0.02	—	180	0.4	0.01	1450	φ355×(20-40)×φ127	7.5×4	3×6	0.05×4	0.1×4	0.12×2	—	2800×2800×2280	3900
6010AHR	1000×600	1150	640	Slide way	700	0.5-12	4	0.02	—	220	0.2	0.001	1450	φ400×(20-50)×φ127	15×4	7.5×6	0.2×4	0.5×4	0.12×2	—	2350×4500×2400	7000
6020AHR	2000×600	2150	640	Slide way	700	0.5-12	4	0.02	—	220	0.2	0.001	1450	φ400×(20-50)×φ127	15×4	7.5×6	0.2×4	0.5×4	0.12×2	—	2350×5300×2400	8000

M/S:Manual H:Longitudinal Automatically AH:Longitudinal and Corss ward Automatically  
MSI:Longitudinal and Corss ward Automatically,Z axis with Servo Motor

AHR:Longitudinal and Corss ward Automatically,Z axis with Elevating motor



## ACCESSORIES FOR CNC MACHINE



6' VISE



CLAMPING KIT



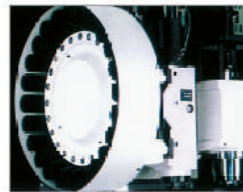
MILLING CHUCK



TOOL SETTING GAUGE



UMBRELLA TYPE ATC



ARM TYPE ATC E



SPINDLE COOLER



ROTARY TABLE



TOOL UNLOCK



HEAT EXCHANGE



DIVIDING HEAD



AUTO CHIP CONVEYOR



SERVO TOOL TURRET



HT-45 COLLET



ELECTRIC TOOL TURRET



THREE JAW CHUCK

## ACCESSORIES FOR SURFACE GRINDING MACHINE



ELECTRIC MAGNET CHUCK



UNIVERSAL DRESSOR



PERMANENT MAGNET CHUCK



AUTO-DEMAGNIZER



BALANCING BRACKET



DUST-SUCTION



COOLANT SYSTEM

## ACCESSORIES FOR MILLING MACHINE



R8 CHUCK



DRO



POWER FEED



COOLANT PUMP



INVERTER SP



CLAMP KIT



OIL PUMP



MECHANIC FEED



Z AXIS ELEVATING MOTOR



MANUAL OIL PUMP



SERVO MOTOR



WORKING LIGHT



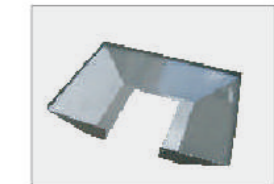
NT30/NT40



WAY COVER



VARIABLE SPEED



CHIP TRAY



VISE



BT40/BT50

## ACCESSORIES FOR EDM MACHINE



FILTER



ELECTRIC MAGNET CHUCK



TRANSLATIONAL HEAD

\* we are always doing research on our products,so we have the right to revise our design,specification and structure.





BRANCH OFFICE

**AN HUI JOINT CNC MACHINE CO.,LTD.**

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