



HEBEIHUAYUE

HUAYUE HEAVY MACHINERY MANUFACTURING

**Intelligent manufacturing with
dedication, dedicated service**

Development, Innovation, Intelligent Manufacturing

Hebei Huayue Machine Manufacturing Co., Ltd.

**With over thirty years of experience
in mechanical research and
manufacturing,**



"Liniu" brand mechanical products include "Gear Hobbing Machine Series," "Vertical Lathe Series," and "Gantry Drilling and Milling Center Series."



Hebei Huayue Machinery Manufacturing Co., Ltd. is a medium-sized private company, and is situated at North-east of Huabei plain, 40km east of Xintai city along side Provincial road from Xingtai city Hebei to Dezhou city Shandong. We originate this company in mid time of 1980s. Over 30 years passed, we have had abundant knowledges of reaserch and development on machinery. The brand "Li Niu" series of "hobbing machine". "Gantry type Drilling & Milling Center" series already made successful sales in these provinces: Hebei, Henan, Shandong, Shanxi, Shaanxi, Sichuan, Zhejiang, Jiangsu, Guangdong, Yunnan, Gansu, Helongjiang, Liaoning, Jilin etc., and are well accepted in Russia and India Malaysia Korea, as well in South-east countries.

Total occupation of 30000 SQM area, more than 220 staffs & workers within which senior grade technical members counts up to 7%, medium grade over 30%. Over 160 sets of various of equipments form a integrity of designing, producing, installing, adjusting etc.

We operate in compliance with ISO9001 and ISO9002 standards so as to keep enterprise go more stable and long step development.

We hold to creed "Customer first, Quality important" and join in each other's efforts to seek "knowing the demand of time, develop mutually with customers"

We offer superior quality with our credibility to customers, considerate aftersales service brings us acceptance by the market.

Our growth aims at increasing our core-competitiveness by new technologies, accelerating the regulation of products series, break through in products and technology fortify the mode of sales designing and production to merge with the world market. Exerting efforts in establishing ourselves in the first grade enterprises in country scope, showing our own advantages in fortifying our status as the guarantee base of national defense equipments in China and in the world.



HEBEIHUAYUE



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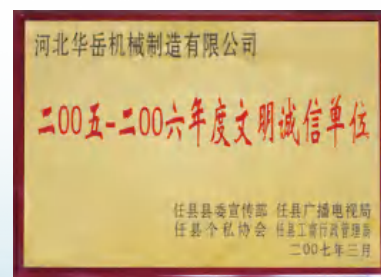
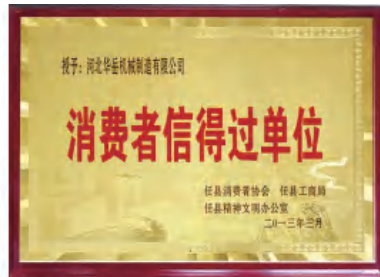
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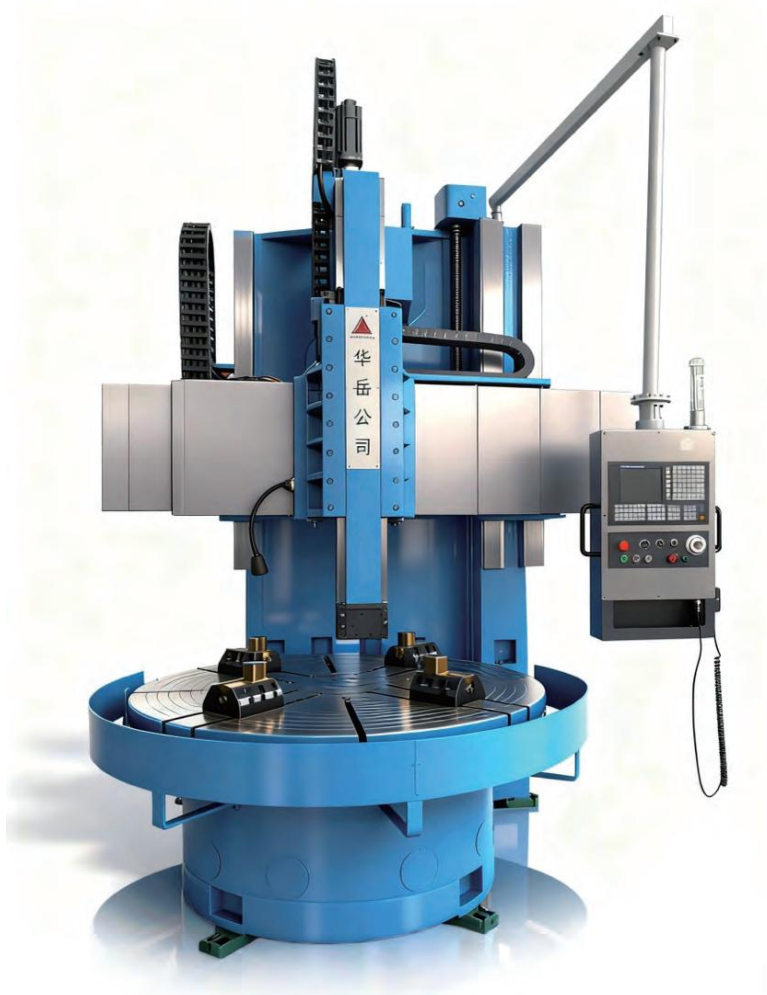
Operation and management strictly under ISO9001 ISO9002 standards to ensure long term and stable development of enterprise.

THIRTY DUONIAN HISTORY, THE CUSTOMERS ALL OVER THE WORLD
QUALITY ORIENTED, CREDIT BILTY&ERNEST
CUSTOMERS FIRST, QUALITY FIRST
TO SATISFAY CUSTOMERS WITH OUR
SCINCERITY.





CNC Vertical Lathe series



- Okada 24-tool robotic arm, BT40 heavy-duty cutting spindle, main unit weight 11T

The CK series vertical lathe is an economical product produced by the company, which has a high cost-performance ratio and also has the characteristics of durability. The overall structure was modified and upgraded by drawing on the experience of domestic well-known brands and our company's many years of experience in producing lathes, combined with three-dimensional modeling, finite element analysis, and other technologies, so that the overall structure is more reasonable. It has the characteristics of convenient maintenance and low fault rate.

Properties and peculiarities

- ★ XY axis heavy duty roller stright line rail.
- ★ Taiwan principal axis unit, sychronous belt retarded transmission, pricipal axis with bigtorque.
- ★ Independent hydraulic station, convenient for maintenance
- ★ The cutting tool holder is widened.

Standard configuration

- ★ K1000TCi
- ★ 4 positions dynamic tool seats
- ★ Link joint chip cleaner

Optional configuration

- ★ SIEMENS 828D
- ★ FANUC Series Oi-TF
PIUS System

Technical specifications & parameters

Name	Units	CK5117	CK5123	CK5126
Max.shaving diameter	mm	1700	2300	2600
Maximum wokciece processing height	mm	1200	1400	1400
Maximum workpiece weight	T	5	8	10
Z-Axis verical stroke	mm	800	800	800
Z-Axis horizontal stroke	mm	-42-880	-140-1310	-90-1443
Cross beam travel	mm	800	1000	1000
Workbench diameter	mm	1550	2000	2400
Workbenc speed range	r/min	5-120	5-90	5-90
Number of feed stages for the too older		stepless	stepless	stepless
Z-Axis fast movement speed	mm/min	3000	3000	3000
The maximum cros-sectionalareaof the cutter bar	mm	40×40	40×40	40×40
X-Axis rapid movement	mm/min	3000	3000	3000
Tool carrier		Single tool holder	Single tool holder	Single tool holder
Main motor power	kw	18.5/22	30/37	37/45
Machine weight	T (approximately)	12	16.5	18.5

If the technology changes, please call for advice

CNC Vertical Lathe series



The SCK series vertical lathe is a high-precision and high-rigidity vertical lathe designed by our company based on the manufacturing experience of well-known international vertical lathe manufacturers.

Properties and peculiarities

- ★ The workbench adopts inverted spindle, adopts high-precision double row short cylindrical bearing in radial direction, adopts high-precision thrust ball bearing in axial direction with static pressure floating guide rail, and adds preload in axial direction, making floating stable, thus improving the rotation accuracy and bearing capacity of the workbench.
- ★ Spindle motor adopts servo main motor, speed change, no manual shift, easy to operate.
- ★ The eight contact surfaces of the sliding head are 220 x 220 cross-sectional area, the turning force is large, and the stability is high.
- ★ The entire series can be configured with ATC tool magazine and milling module, and the workpiece can be installed once to meet the machining requirements of turning, milling, drilling, and tapping, truly liberating the hands and improving the machining efficiency.

★ Suitable for: high speed steel and hard alloy tools, black metal, metal and some non-metal parts of the rough, finish machining, can be used for internal and external cylindrical surface, internal and external conical surface, arc, inch thread and various complex shape of the transition surface high-speed turning. Suitable for heavy parts processing, wind power generation, automobile manufacturing and other industries.

Optional configuration

- ★ SIEMENS 828D
- ★ FANUC Series Oi-TF PIUS System
- ★ ATC tool magazine
- ★ Carving and milling module
- ★ Sliding bed power spindle

Technical specifications & parameters

Name	Units	SCK5117	SCK5123	SCK5128
Max.shaved eight	mm	φ1700	φ2300	φ2800
Dia.Of operating platform	mm	φ1400	φ2000	φ2400
Max.Workpiece height	mm	1200/1600	1200/1600	1200/1600
Max.weight of workpiece	t	5	10	15
Range of speed of operating platform	r/min	5-130	5-100	5-90
Stage speed stage		stepless	stepless	stepless
Vertical stroke of vertical tool post	mm	-140-1030	-155-1365	-155-1615
Vertical tool post ram stroke	mm	800	800	800
Rapid movement speed of tool post(x,Z axis)	mm/min	3000	3000	3000
Number of tool post	piece	1	1	1
Beam vertical stroke	mm	800/1200	800/1200	800/1200
Beam feeding speed	mm/min	500	500	500
Vertical turret section	mmxmm	220×220	220×220	220×220
CNC system(Optional)	Standard configuration	KND	KND	KND
Machine Dimensions Length ×Width × Height without protection)	mm	6100×3500×4509	7600×4800×5300	7600×4800×5300
Host weight	T (approximately)	23	30	38

If the technology changes, please call for advice

CNC automatic angle vertical lathe series



The CNC automatic head vertical lathe is a special CNC vertical lathe specially designed, researched and developed by our company for the three-sided core butterfly valve and complex parts with angle requirements in the valve market. The slide bed is made of castings with high rigidity, high anti-vibration, and high wear resistance, ensuring the stability and precision of the workpiece processing.

Properties and peculiarities

- ★ Angle machining capability: The spindle or tool holder can be adjusted angle to achieve precision machining of non-vertical surfaces such as inclined surfaces and conical surfaces
- ★ CNC system: adopts CNC control system, programmable control of machining angles and paths
- ★ High precision: usually equipped with high-precision rotary workbench and angle positioning devices
- ★ Multifunctionality: It can complete a variety of machining processes such as turning, milling, and drilling.

Standard configuration

- ★ SIEMENS 828D
- ★ Overall semi-protection
- ★ ATC knife library
- ★ Chain plate chip remover
- ★ Automatic angle switching

Optional configuration

- ★ FANUC Series Oi-TF PIUS system
- ★ ATC tool magazine
- ★ Carving and milling module
- ★ Sliding bed power spindle

Technical specifications & parameters

Name	Units	SCK5117-ATC-Y	SCK5123-ATC-Y	SCK5123-ATC-Y
Maximum turning diameter	mm	Φ 1700	Φ 2300	Φ 2800
Workbench diameter	mm	Φ 1400	Φ 2000	Φ 2400
Maximum workpiece height	mm	1200/1600	1200/1600	1200/1600
Maximum working weight	T	5	10	15
Workbench speed range	r/min	5-130	5-100	5-90
Workbench speed stage		stepless	stepless	stepless
Vertical tool older horizontal stroke	mm	-140-1030	-155-1365	-155-1615
Vertical knife olderslidingpillow stroke	mm	800	800	800
Fast movement speed of tol holder(XZ axis)	mm/min	3000	3000	3000
Number of knife holders	piece	1	1	1
Maximum vertical stroke of crossbeam	mm	800/1200	800/1200	800/1200
Beam fitting speed	mm/min	500	500	500
Vertical knife holde sliding pillow section	mm×mm	220×220	220×220	220×220
Set the minimum range of angle		1	1	1
Angle-scale accuracy		±3	±3	±3
Angle repetifion accuracy	"	±1	±1	±1
Angle stroke	o	±30	±30	±30
CNC system(optional)	Standard configuration	SIEMENS 828D	SIEMENS 828D	SIEMENS 828D
Machine toolsize (length ×width ×height)	mm	6100×4200×4600	7600×5500×5300	7600×5500×5300
Host weight	T (approximately)	23	30	38

If the technology changes, please call for advice

CNC vertical turning and grinding series



Properties and peculiarities

- ★ The whole machine adopts finite element optimization design, with a reasonable structure, reliable performance, good dynamic rigidity, and stable operation. rail.
- ★ The column is a thermally symmetrical structure, and the overall structure with sand sealing improves its vibration resistance.
- ★ The workbench guide rail adopts rolling bearings, high-precision double row short cylindrical roller bearings are used in the radial direction, and high-precision thrust ball bearings are used in the axial direction as the rolling guide rail. The axial direction is preloaded, thereby improving the rotation accuracy and bearing capacity of the workbench.

Standard configuration

- ★ KND2000
- ★ 4-station electric tool holder
- ★ 220 × 220 sliding pillow grinding head, chain plate type pin adjuster

Optional configuration

- ★ SIEMENS 828D
- ★ FANUC Series Oi-TF PIUS system
- ★ ATC tool magazine
- ★ Carving and milling module

Technical specifications & parameters

Name	Units	SCK5117CM	SCK5123CM	SCK5128CM
Max.shaving diameter	mm	1700	2300	2800
Maximum workpiece height	mm	1200/1600	1200/1600	1200/1600
Maximum workpiece weight	T	5	10	15
Workbench diameter	mm	1400	2000	2400
Workbench speed range	r/min	5-130	5-100	5-90
Tool holder feed rate	mm/min	stepless	stepless	stepless
Right slide stroke (electric knife holder)	mm	800	800	800
Left sider stroke (square sider)	mm	800	800	800
Grindinghead spindle speed	r/min	2000	2000	2000
Horizontal stroke of left and right sliders	mm	-140-1030	-155-1365	-155-1615
Rapid movement speed of the tool holder	mm/min	3000	3000	3000
Rotation angle of left and right sliders	Positive and negative	30°	30°	30°
The maximum cross-sectional area of the cutter bar	mm	40*40	40*40	40*40
The maximum cross-sectional area of the cutter bar	mm/min	500	500	500
Main motor power	kw	30/37	30/37	30/37
Machine weight	T(approximately)	22	29	37

If the technology changes, please call for advice

Double column vertical lathe series



Our company's double column vertical lathe consists of two huge columns and a base, forming a strong gantry frame, and this assembly structure has extremely high rigidity and stability. It is specially used for processing large diameter and heavy weight disc, ring and sleeve parts, and is a key equipment for heavy machinery manufacturing, electric power, shipbuilding, aerospace and other industrial fields.

Optional configuration

- ★ SIEMENS 828D
- ★ FANUC Series Oi-TF PIUS System
- ★ ATC tool magazine
- ★ Carving and milling module
- ★ Sliding bed power spindle

Technical specifications & parameters

Name	Units	SCK5235	SCK5240	SCK5245	SCK5255	SCK5263
Dia.Of operating platform	mm	2830	3150	3380	4000	5000
Maxshaved diameter o he workpiece	mm	3500	4000	4500	5000	6300
Max.height of Workpiece	mm	2000	2000	3500	2000	2500
Max.weight of workpiece	kg	20000	25000	35T	50000	75000
Max.torque of operating platform	kgf.m	45000	45780	83276	106483	210000
speed steps of operating platform	Level	2	2	2	2	4
Range of speed of operating platform	r/min	2-80	2-40	2-40	2-40	0.39-38.7
Steps of feeding volume	Level	stepless	stepless	stepless	stepless	stepless
Feeding range	mm/min	0.1-2000	0.1-2000	0.1-2000	0.05-200	0.05-200
Beam travel	mm	1600	2170	3000	2650	3530
Tool seat ravel horizontal	mm	2104	2405	2720	3290	3400
Vertical	mm	800	1000	1600	1600	2000
Beam moving speed	mm/min	500	500	450	375	410
Swift moving speed of tool seat	mm/min	3000	3000	3000	3000	3000
Cutter size (WxH)	mm	40x40	40x40	50x50	50x50	60x60
Principal motor power	kw	40/45	40/45	40/45	40/45	40/45
Outer sizes of machine (LxWxH)	mm	5050x6880x5860	5300x6650x5700	5810x7500x8500	5050x6800x5860	13220x7820x9755
Machie weight max.	T (approximately)	39.5	48	71	109	180

If the technology changes, please call for advice

GDCQ1213 Longmen Processing Center



- Okada 24-tool robotic arm, BT40 heavy-duty cutting spindle, main unit weight 11T

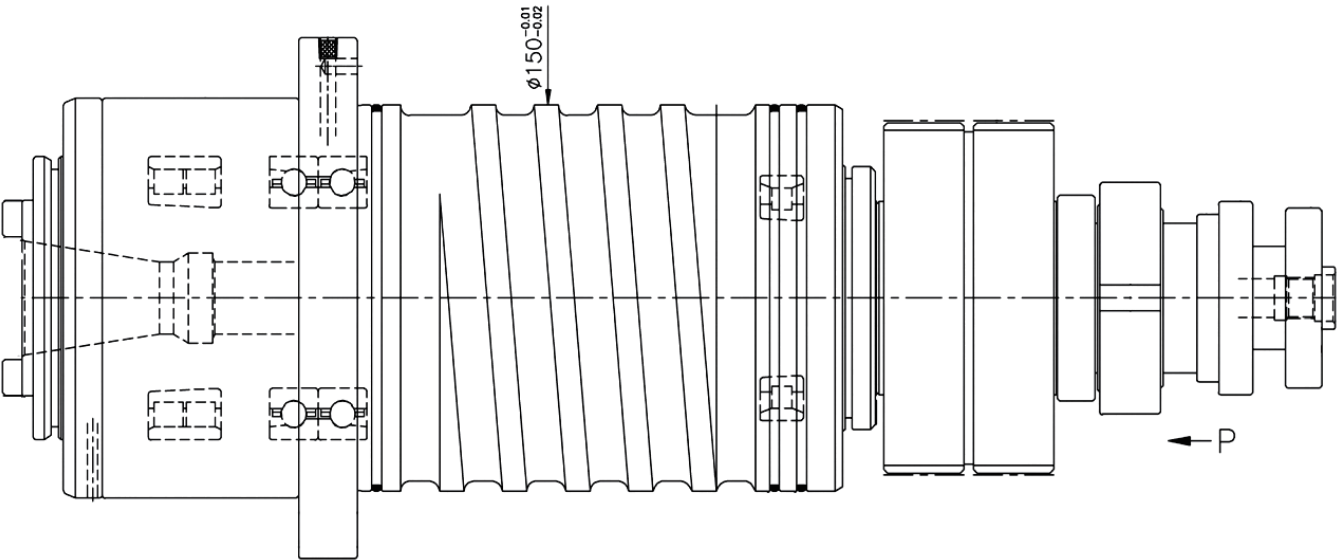
Properties and peculiarities

- ★ The weight of the main machine is up to 10T, which fully guarantees the machine tool stability and rigidity.
- ★ The main shaft is standard equipped with BT40 high rigidity
- ★ 150-diameter spindle, and is equipped with two cooling methods of central water outlet and main shaft ring spray. Both internal and external cooling can fully cool the tool, improve the processing efficiency and improve the tool life.
- ★ Standard equipped with 24 manipulator knife library.
- ★ X, Y, Z axis use heavy-duty roller linear guide rail, Strong rigidity, fast moving speed.

Technical specifications & parameters

Name	Units	GDCQ1213	GDCQ1616
Table Dimensions (Length × Width)	mm	1300x1000	1600x1400
Column Spacing	mm	1200	1600
X-Axis Machining Range	mm	1300	1600
Y-Axis Machining Range	mm	1200	1600
Z-Axis Machining Range	mm	800	800
Maximum Distance from Spindle End Face to Table	mm	1200	1100
Minimum Distance from Spindle End Face to Table	mm	400	200
Spindle Type	mm	BT40-150/BT50-150	BT40-150/BT50-150
Tool Magazine	GangTian Taiwan	24-piece robotic arm tool magazine	24-piece robotic arm tool magazine
X-Axis Repeat Positioning	mm	0.005/300	0.005/300
Y-Axis Repeat Positioning	mm	0.005/300	0.005/300
Z-Axis Repeat Positioning	mm	0.01/300	0.005/300
Machine Dimensions (Length × Width × Height)	mm	4174×3275×3400	4000×5300×3900
Machine Weight	T(Approximately)	11	14

If the technology changes, please call for advice



GDC Longmen Processing Center



■ Customized models are available upon request.

Properties and peculiarities

- ★ XY Z spindles adopt heavy duty roller linear guid.
- ★ Taiwan brand or domestic famous principal spindle.
- ★ The cooling system has a central effluent and an external cold, high pressure, a large flow rate ensures that the tool is fully cooled under high speed cutting.
- ★ Mainly applicable to Pipeline industry: valves, flanges, tube sheets, pump parts, etc.; Automotive industry: axle housing, brake hub; Mold processing, etc.

Technical specifications & parameters

Name			Units	GDC1620	GDC2020	GDC2525	GDC3535	
Operating Platform	Effective Size of Operating Patfom		mm	2100x1200	2100x1600	2600×1900	3500×2500	
	Gap Between Two Upright Column		mm	1620	2020	2520	3540	
	Maximum permissible load		Kg	2200	3500	4000	4000	
	Too High Gantry		mm	1000	1000	1000	1000	
Processing range	Max.Travel of Operating Paform-X Axe		mm	2200	2200	2600	3500	
	Max.Travel of Siding Camage-Y Axel		mm	1640	2020	2570	3500	
	Max.Travel of Main Axel-Z Axel		mm	810	810	810	810	
	Distance from spindle end face to worktable surface		mm	1100	1100	1100	1100	
		Minimum	mm	300	300	300	300	
	Bore Hole(7:24)			BT50	BT50	BT50	BT50	
	Range of Rev		r/min	10-3000	10-3000	10-3000	10-3000	
	Rated Output Torque		Nm	191/235.6	191/235.6	191/235.6	191/235.6	
	Main Axle	Max.Axial Resistance Affordable		N	15000	15000	15000	15000
		Power of Main Motor		Kw	15/18.5	15/18.5	15/18.5	15/18.5
		Max.Dia.Of Hole		mm	Φ 80	Φ 80	Φ 80	Φ 80
		Max.Tapping Diameter	Cast Iron	mm	M42	M42	M42	M42
			Carbon Steel	mm	M36	M36	M36	M36
Feeding	Range of Feeding Speed in Shaving		mm/min	1-6000	1-6000	1-4000	1-2000	
	Faxt Moving	X Axle	m/min	6	6	4	5	
			m/min	10	10	10	5	
			m/min	10	10	10	10	
Machine tool positioning accuracy	Complies with national standard GB/T18400.4		mm	0.016	0.016	0.016	0.016	
			mm	0.016	0.016	0.016	0.016	
			mm	0.016	0.016	0.016	0.016	
Repeatability and positioning accuracy	Complies with national standard GB/T18400.4		mm	0.015	0.015	0.015	0.015	
			mm	0.015	0.015	0.015	0.015	
		Z Axle	mm	0.015	0.015	0.015	0.015	
Machine Dimensions(Length×Width x Height)			mm	6279×3310x3400	6279x3690x3400	7354×4190x3400	9400x6400x3400	
Host weight			T Approximately	15	20	23	30	

If the technology changes, please call for advice

GMC Longmen processing Center



■ Customized models are available upon request.

Properties and peculiarities

- ★ System selection of Germany Siemens.
- ★ Imported spindle, large torque, high speed, fully meet the boring and milling and drilling processing.
- ★ Support various gantry accessories. For example, right-angle milling head, universal milling head, manipulator knife library, etc.
- ★ Slide pillow with large cross section stick plastic guide rail, surrounded by the structure.
- ★ Suitable for: civil aviation, automobile, energy, information, mold and other industries parts processing. It has the characteristics of high speed, high precision, high flexibility, environmental protection and so on.



Technical specifications & parameters

Name	Units	GMC3560	GMC6042
Size of work table (length x width)	mm	2500x6000	3000x6000
The spacing between the two columns	mm	3500	4260
Processing range X Axis	mm	6000	6600
Processing range Y Axis	mm	3500	4800
Processing range Z Axis	mm	1100	1500
Maximum distance from spindle end face to table	mm	1020	2000
Minimum distance between spindle end face and table	mm	480	500
Spindle model	mm	BT50-190	BT50-210
X Axis repeat positioning	mm	0.025/300	0.025/300
Y Axis repeat positioning	mm	0.015/300	0.015/300
Z Axis repeat positioning	mm	0.01 /300	0.01/300
Machine Dimensions(Length ×Width x Height)	mm	15100×5400×5300	15250x7520x7400
Host weight	T Approximately	52.8	98.5

If the technology changes, please call for advice

CNC High Precision Hibbing Machine Series



Properties and peculiarities

- ★ CNC system SIEMENS 828D, GSK, KND have been developed, can choose.
- ★ The system adopts man-machine interchange mode, does not need to edit tedious procedures, convenient operation, simple, fast.
- ★ Suitable for straight tooth, helical tooth, drum tooth, cone tooth, turbine, synchronous belt pulley, sprocket gear processing.
- ★ Special products can be customized according to customer requirements.



Technical specifications & parameters

Name	Y3150CNC4	Y3180CNC4
Max.Working Diameter	500mm	800mm
Max.Working Module	M8	M10
Working Width Max.	250mm	300mm
Max.Installation Length of Work Piece	300mm	350mm
Min.number of teeth processed	$\frac{Z \text{ at least}}{K \text{ heads of hob}} = 6$	$\frac{Z \text{ at least}}{K \text{ heads of hob}} = 8$
Max.Diameter of Hob	160mm	180mm
Length of Channeling Knife of Hob	50mm	50mm
Spindle Diameter of Hob	$\Phi 27\text{mm}$ 1 set of tool holders	$\Phi 27\text{mm}$ 1 set of tool holders
Speed of Main Shaft of Hob	600r/min	600r/min
Max.Rev of operating Platform	21.2r/min	21.2r/min
Z Axle Quick Movement	4000mm/min	4000mm/min
X Axle Quick Movement	4000mm/min	4000mm/min
Distance Between Core of Hob to Core of Operation Platform	Maximum 450mm, Minimum 25mm	Maximum 550mm, Minimum 35mm
Swivel Angle of Cutter Frame	$\pm 45^\circ$	$\pm 45^\circ$
Total Capacity of Motor About	30kw	30kw
Machine Dimensions (Length x Width x Height)	3793×2085×2460mm	3793×2085×2460mm
Host weight	8T	9T

If the technology changes, please call for advice

Machine tool fittings



Casted piece

Fine precision overall casting



Cartridge

Taiwan Yichuan cartridge



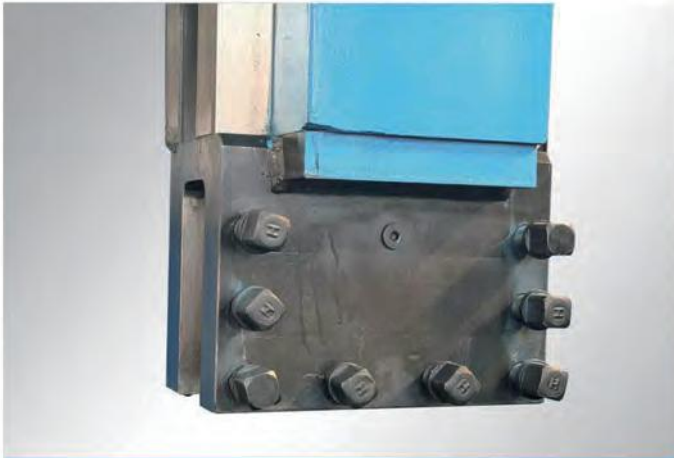
Principal spindle

Individual unit principal spindle

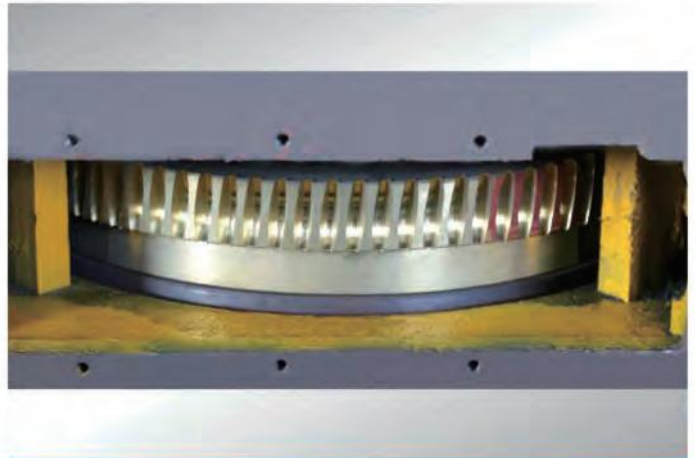
Ensures stability and high precision of machine



Principal spindle of hobbing machine



**Widening of
turning tool holder**



**Worm wheel
of hobbing machine**

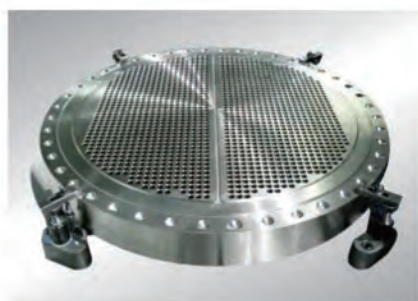


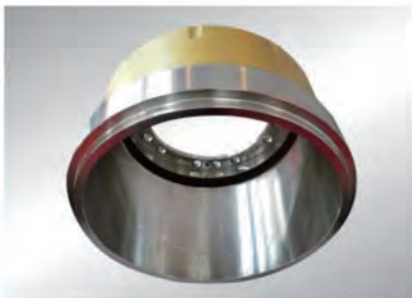
Okada Knife Library



Okada Knife Library

Processing sample





Customer real shot







WORK TOGETHER TO CREATE THE FUTURE

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