SOTENG CNC TECHNOLOGY CO., LTD is an enterprise specializing in CNC field and supply below products:

【1】 CNC System for milling& machining centre
【2】 CNC system for turning&lathe
【3】 All digital AC servo drive& motor
【4】 Spindle AC servo drive& motor
【5】 VDF& Induction motor
【6】 CNC Machine tool such as CNC lathe, CNC milling, CNC machine center, CNC grinder,Wire-cut, Band sawing
【7】 CNC Accessaries like turcite, tool post/turret, flexible conduit

Enjoy two-year Warranty for All CNC System Models

ISO9001:2000

CE Certificate

CE-EMC

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GREAT-150iM-II with E-type subpanel

CNC System for Milling & Machining Centre

System Structure:

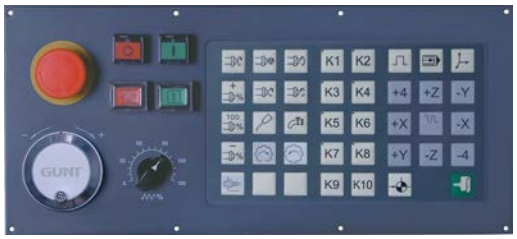
- High performance embedded industrial microprocessor with 32 bits.
- 32MB user memorizer.
- 8.4 inch TFT colorful LCD display.
- Controlling core consisted of Industrial DSP and FPGA.
- Build-in 118X46 I/O PLC port, double channels analog value output.
- RS232 and USB port at the front of panel.
- Wave band switch and handwheel (on the panel or handle) port.

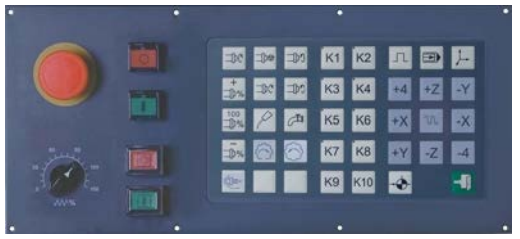
Technical Parameter:

- Controllable axes: 3-5.
- Linkage axes: linear 2-5, circular2-3.
- Pulse equivalent: 0.001mm.
- Max speed: 60000mm/min.
- Cutting speed:1-20000 mm/min
- Min input unit: 0.001mm.
- Programming size range: +/-99999.999mm.
- Programming instruction code: ISO-841.
- Programming coordinate system definition: ISO-841.

1)Standard Subpanel Configuration: Type A/B

2) Optional: Type D/E





3)Optional: Handy MPG

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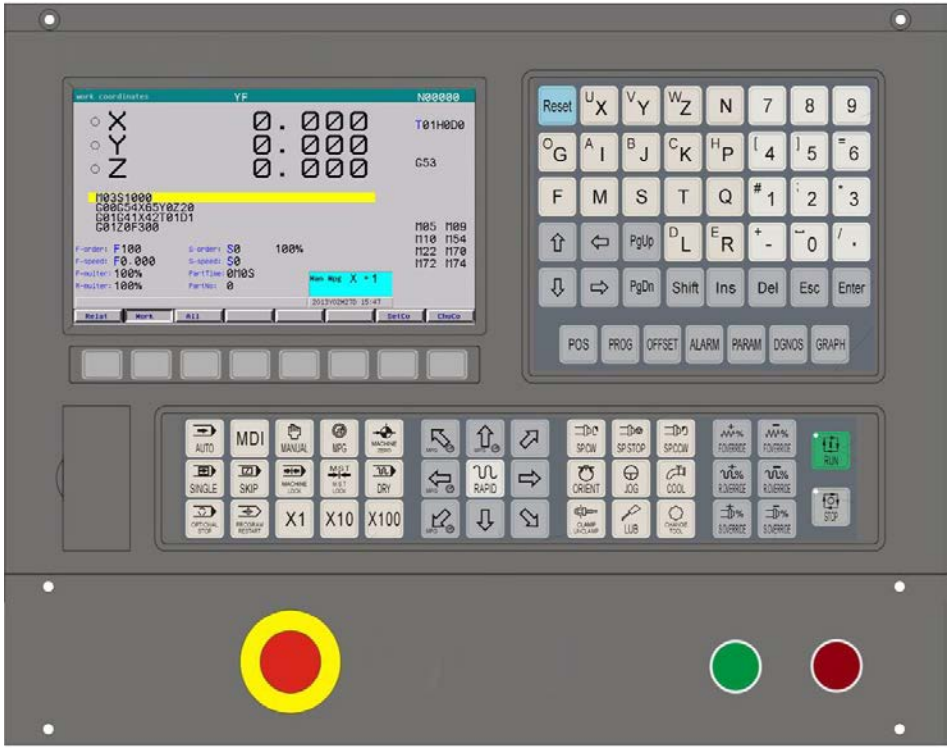

Milling CNC System

Model: GREAT-130iM

NEW PRODUCT!

Features:

- Control axis : 3 axes
- Linkage axis: 2-3 axes
- 32bit 200MHz ARM Industrial microprocessor
- 32MB user memory
- Resolution is 800 x 480, 8 inch TFT LCD display
- Real-time and all-round self-diagnosis function
- Metric/British system input mode
- Linear, circular , thread interpolation
- Multiple canned cycle macro instructions, macro instruction for direct interpolation and milling of rotary body surface
- Automatic backlash compensation and storage pitch error compensation. Tool length auto compensation, tool radius compensation, auto transition of inner and outer point angle

◆ **SPEED**

- Max. rapid traverse: 20m/min
- Max. cutting speed : 10m/min
- Program preview function, realizing and seamless connectivity of program blocks

■ **PRECISION**

- Screw pitch compensation, improving machining precision to the most

■ **INTERFACE**

- USB port, RS232 port supply DNC function
- Boarded MPG and handy MPG are available
- Dual channel control of spindle speed, can control two spindle units

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GREAT-150iT-II with D-type subpanel

CNC System for Lathe & Turning Centre

FEATURES:

- Control axis : 2-5 axes
- Linkage axis: linear 2-5, arc 2 axes
- 32bit 200MHz ARM Industrial microprocessor
- 32MB user memory
- 8.4 inch TFT LCD displayer
- Real-time and all-round self-diagnosis function
- Metric/British system input mode
- Linear, circular , thread interpolation
- Multiple compound cycle instruction, such as ex-circle rough turned compound cycle, head face rough turned compound cycle, complex type outline rough turned compound cycle, complex type outline rough turned compound cycle, outer diameter/inside diameter /grooving compound cycle, thread cutting compound cycle etc.

◆ SPEED

- Max. rapid traverse: 60m/min
- Max. cutting speed : 20m/min
- Program preview function, realizing and seamless connectivity of program blocks

■ PRECISION

- Screw pitch compensation, improving machining precision to the most
- Pulse equivalent : max precision can be set as 0.001mm

■ INTERFACE

- Built-in PLC with I/O number 118 x 46, users can free to edit
- USB port, RS232 port supply DNC function

1)Standard Subpanel Configuration: Type A/B

2) **Optional: Type D/E**

3)Optional: Handy MPG

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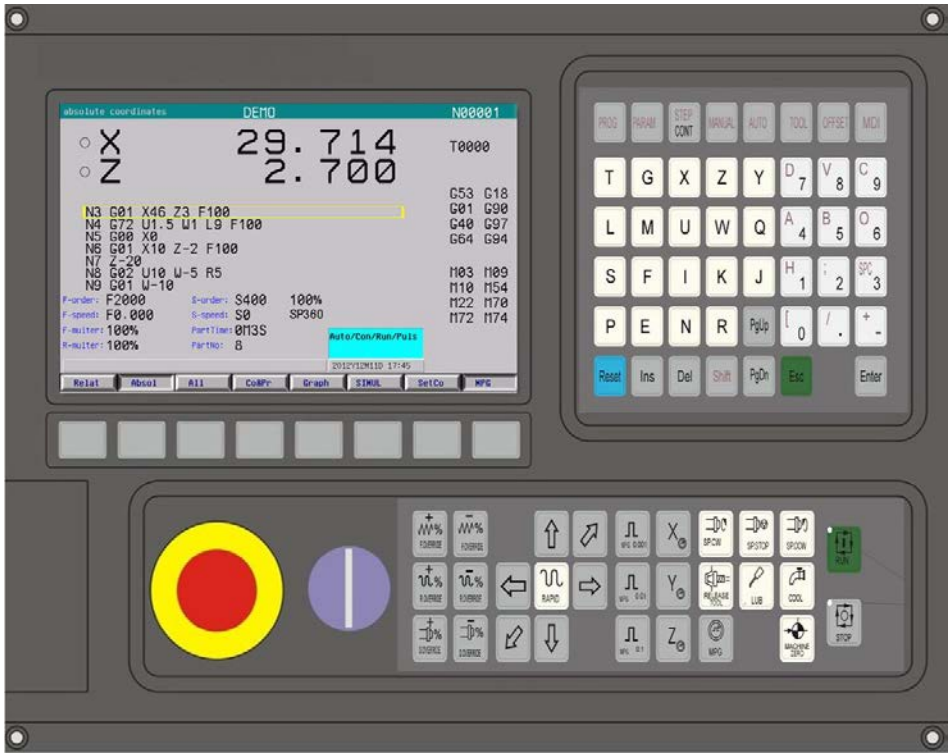

GREAT-130iTc

Economical CNC System for Lathe

NEW PRODUCT!

Features:

- Control axis: X , Z Axes
- Linkage: 2 axes
- Pulse equivalent : 0.001mm
- Max speed : 20000mm/min
- Cutting speed : 1---10000mm/min
- 32 bit 200MHz ARM processor
- 32MB User storage
- 800 x 480, 7 inch TFT colorful LCD display
- USB, RS232 port for DNC function
- MPG on board or handy MPG are available
- Graphic dialogue function
- Real-time and all-rounded diagnosis
- Machine return to reference /floating zero
- Linear, arc, screw thread interpolation instruction
- Multiple compound cycle instructions
- M, S, T function
- Parameter , software back and upgrade function
- Full-screen editing , Foreground background operation
- Multilevel password protection function (system manufacturer, machine manufacturer, user); machine manufacturer password setting can prevent amendment of some parameters relevant to equipment configuration and maximize equipment reliability, user password can do convenience for equipment field management.

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AC SERVO DRIVER

Model: GTAS-30A/50A

GTAS-30A <----→Motor ≤2.4kw
GTAS-50A <----→Motor ≧2.4kw

Model		GTAS-30A	GTAS-50A
Input power		3-phase AC220V -15%--+10% 50/60Hz	
Environment	temperature	Work: 0--40° C storage: -40° C--50° C	
	Humidity	40%--80%(no dewing)	
	atmospheric pressure	86--106kPa	
Control method		Position control	
Regenerative brake		Built-in	
Characteristic	Speed frequency response	≥ 250Hz	
	Speed fluctuation rate	< ± 0.03(load 0--100%); < ± 0.02(power supply -15%--+10%) (numerical value corresponding to rated speed)	
	Timing ratio	1: 5000	
	Pulse frequency	≤ 500kHz	
Control input		1)Servo enable 2)alarm clearance 3)CCW servo inhibit 4)CW servo inhibit 5)Deviation counter zero/speed selection 1/zero speed clamping 6) instruction pulse inhibit/speed selection 2 7)CCW torque limit 8)CW torque limit	
Control output		1) servo ready output 2)servo alarm output 3)positioning completing output/speed in-position output 4)mechanical brake output	
Position control		Input method	1)pulse+sign 2)CCW pulse/CW pulse 3)2-phase A/B orthogonal pulse
		Electrical gear	1-32767/1-32767
		Feedback pulse	2500line/rev
Speed control		4 kinds of internal speed	
Acceleration function		Parameter setting: 1-10000ms / 1000r/min	
Monitor function		Speed, current position, instruction pulse accumulation, position deviation, motor torque, motor current, linear speed, rotor absolute position, instruction pulse frequency, running state, input/output terminal status and so on.	

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AC SERVO MOTORS: ST-M SERIES

60/80/90/110/130/150/180mm Series

No.	Motor Model	Parameter Specification			
		Power (kW)	Torque (N·m)	Revolution (r/min)	Dimension
1	60ST-M00630	0.2	0.637	3000	60×60
2	60ST-M01330	0.4	1.3	3000	60×60
3	60ST-M01930	0.6	1.9	3000	60×60
4	80ST-M01330	0.4	1.27	3000	80x80
5	80ST-M02430	0.75	2.39	3000	80x80
6	80ST-M03530	0.73	3.5	3000	80x80
7	80ST-M04025	1.0	4	2500	80x80
11	110ST-M02030L	0.6	2	3000	110x110
12	110ST-M04020	0.8	4	2000	110x110
13	110ST-M04030	1.2	4	3000	110×110
14	110ST-M05030	1.5	5	3000	110×110
15	110ST-M06020	1.2	6	2000	110×110
16	110ST-M06030	1.8	6	3000	110×110
17	130ST-M04025	1.0	4	2500	130×130
18	130ST-M05025	1.3	5	2500	130×130
19	130ST-M06025	1.5	6	2500	130×130
20	130ST-M07725	1.6	7.7	2000	130×130
21	130ST-M10015	1.5	10	1500	130×130
22	130ST-M10025	2.6	10	2500	130×130
23	130ST-M15015	2.3	15	1500	130×130
24	130ST-M15025	3.9	15	2500	130×130
25	150ST-M15025	3.8	15	2500	150×150
26	150ST-M18020	3.6	18	2000	150×150
27	150ST-M23020	4.7	23	2000	150×150
28	150ST-M27020	5.5	27	2000	150×150
29	180ST-M17215	2.7	17.2	1500	180x180
30	180ST-M19215	3.0	19.2	1500	180x180
31	180ST-M21520	4.5	21.5	2000	180x180
32	180ST-M27010	2.9	27	1000	180x180
33	180ST-M35015	5.5	35	1500	180x180

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Spindle Servo Motor
GTB Series

GTB series spindle motor is widely used in machinery manufacturing in various fields, such as CNC machine tools, woodworking machinery, textile machinery, printing equipment, dyeing equipment, paper making equipment.
The product complies with the relevant national product technology and IEC, CE standards.

Standard control function for spindle

1.low-speed and large torque cutting
2.High-speed constant power cutting
3.Zero-speed spindle lock
4.Orient stop control
5.C-axis function, rigid tapping

Built-in Speed magnetic sensors

1.Lines: 1024,512,256
2.Output: square wave, sine wave
3.To achieve speed, location of closed-loop
4.High reliability and low failure rate increase dynamic balance of motor

Specification

- power range: 1.1-110kW
- The maximum speed:15000rpm
- Rated voltage: 380V/330V
- Rated frequency: 33.3/50/66.7/100HZ
- Poles: 4 poles
- Working hours: Continuous (S1)
- Insulation levels: F
- Insulation resistable voltage: AC1800V
- Vibration leaves: R. S
- Ambient temperature:-15~45 centigrade degree
- Ambient humidity: below 95%RH
- Installation: B3/B5/B35
- Thermal release: forced air cooling
- Noise: less than 70dB

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Features:

GS SERIES SERVO DRIVER realized the full closed loop control of induction motor, centralizing on speed control, position control and torque control. The embed programmable module (PLC) can completely replace mini type PLC control unit, which make the body compact and reduce the designing and hardware cost as well.

GS As the driver system of power axis, it can realized high precision milling, turning and grinding, especially better than traditional frequency conversion driver in heaving scrape: For the meanwhile, with the excellent control function, it can make the spindle keep all functions of servo spindle, it can also take part in interpolation control, rigidity, thread of screw cutting; Especially with the unique position control function;

SPECIAL FEATURES

♦Whole range of frequency

1. precision machining above 6000 rpm
2. strong cutting force at low-speed
3. reaming below 40rpm
4. low speed threading
5. C-axis function

♦Independent orientation stop

GS drive with an independent orient stop control function, can realize Independently orient stop control, whether your machine tool is equipped with umbrella tool magazine or ARM type tool magazine.

♦Rigid tapping

GS drive can be compatible well with a variety of numerical control system to realize rigid tapping, make the function of CNC drilling, CNC milling, CNC lathe, CNC boring, machining centers, and other equipment play sufficiently.

♦Best with motor

Spindle AC servo motor, frequency conversion motor (with encoder), three-phase asynchronous motor (with encoder).

AC Frequency Inverter: E1000 Series

E1000 series of AC drives is new product. By blocking design, the system function is enriched and built-in EMI filter is optional, advanced EMC design is adopted. The product has the feature of compact in frame, new in shape. E1000 series is a kind of high-quality and multifunction drives that can meet wide-ranging application

Main Function:

> Built-in braking unit.

> Built-in EMI filter.

> Kinds of load type: Beeline type, square type, under-defined V/F curve type and auto torque compensation type.

> Jogging speed control, multistage speed-control, external analog signal speed control and PC/PLC speed control.

> Standard RS485 communication interface, PC/PLC control by MODBUS communication and several inverters can be operated at the same time.

> Frequency source includes given digit, given analog voltage and given MODBUS, etc.

> With double-polarity NPN and PNP type.

> 6 digital input terminals, each of which can be used as user-defined function terminals. 2 analog input terminals, one of which can be used to input voltage (0~5V, 0~10V) and the other can be used to input current (0~20 mA, 4~20 mA).

> 1 digital output terminal, 1 multifunction relay output terminal and 2 analog output terminals. One of analog terminal can be used to output voltage (0~5V, 0~10V) or current (0~20mA) and the other can be used to output current ((0~20 mA or 4~20 mA).

> With the twinkling display of preset frequency, running frequency can be easily set before running.

AC INDUCTION MOTOR

YVF SERIES

Model	Power	Current	Torque	Power	constant torque speed adjustment	constant power speed adjustment	Matchable blower specification				
							blower model	Power	Rev.	Air volumn	Air pressure
	KW	A	N.M	V/HZ	HZ	HZ		W	rpm	m^3/h	Pa
YVF 80M1-4	0.55	1.6	3.8	380/50	2-50	50-100	G80	28	2800	480	75
YVF 80M2-4	0.75	2.0	5.2	380/50	2-50	50-100					
YVF 90S-4	1.1	2.9	7.5	380/50	2-50	50-100	G90	30	2600	540	80
YVF 90L-4	1.5	3.7	10	380/50	2-50	50-100					
YVF 100L1-4	2.2	5.2	14.9	380/50	2-50	50-100	G100	45	2700	660	82
YVF 100L2-4	3	6.8	20	380/50	2-50	50-100					
YVF 112M-4	4	8.8	26.5	380/50	2-50	50-100	G112	50	2600	900	90
YVF 132S-4	5.5	11.8	36.5	380/50	2-50	50-100	G132	40	1300	1800	50
YVF 132M-4	7.5	15.6	50	380/50	2-50	50-100					
YVF 160M-4	11	22.3	72	380/50	2-50	50-100	G160	100	1360	2520	50
YVF 160L-4	15	30.1	98	380/50	2-50	50-100					
YVF 180M-4	18.5	36.7	120	380/50	2-50	50-100	G180	150	1300	2700	55
YVF 180L-4	22	42.7	143	380/50	2-50	50-100					
YVF 200L-4	30	57.6	195	380/50	2-50	50-100	G200	210	1360	3000	100
YVF 225S-4	37	69.9	240	380/50	2-50	50-100	G225	210	1380	4200	150
YVF 225M-4	45	84.7	291	380/50	2-50	50-100					
YVF 250M-4	55	103	255	380/50	2-50	50-100	G250	250	1360	5400	150
YVF 280S-4	75	140	484	380/50	2-50	50-100	G280	400	1300	8400	150
YVF 280M-4	90	167	580	380/50	2-50	50-100					
YVF 315S-4	110	201	710	380/50	2-50	50-100	G315	500	1300	9600	180
YVF 315M-4	132	240	852	380/50	2-50	50-100					
YVF 315L1-4	160	288	1032	380/50	2-50	50-100					
YVF 315L2-4	200	356	1290	380/50	2-50	50-100					
YVF 355M-4	250	443	1602	380/50	2-50	50-100	G355	780	1300	12000	200
YVF 355L-4	315	556	2019	380/50	2-50	50-100					

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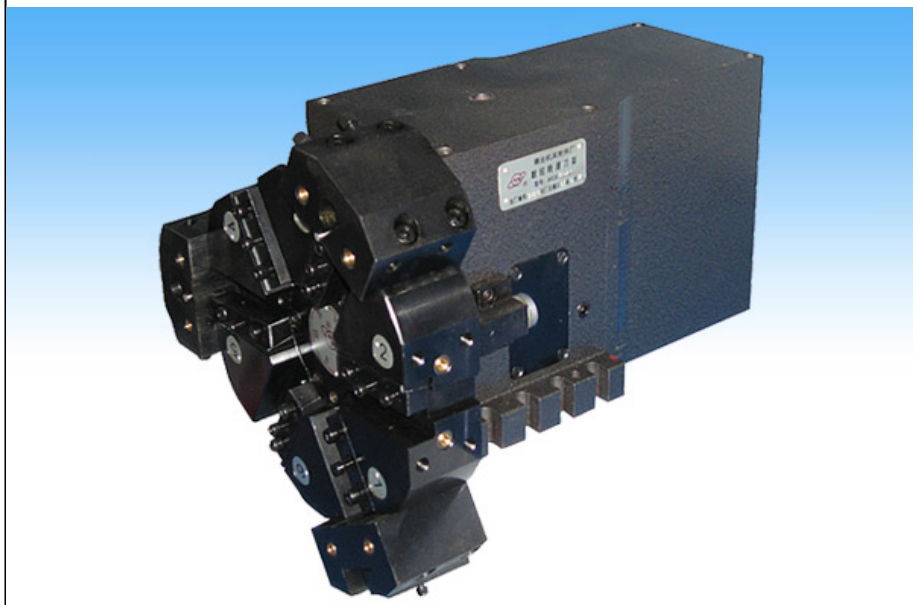

NC TOOL TURRET:

AK30 Series

AK30 series NC turret is an important accessory for NC lathe and especially applicable for all-pervading NC lathe. It is designed to hold several tools and automatically index, Thus automation and high efficiency of operational procedures can be realized.
It utilizes a face gear coupling as indexing mechanism. Indexing sequence is mainly controlled by a positioning face gear and a encoder. So it features high accuracy, reliability, compact design.

MAIN SPECIFICATIONS AND PARAMETER

Type	Center height (mm)	No.of position	Time of changing tool(s)	Max.clamping force (N)	Reliability of working (h)	Motor parameter	Net weight (Kg)	Gross weight (Kg)	Packing dimension(mm)
AK3063X6J	63	6	3	20000	>3000	120W 1400r/min	50	59	430×354×390
AK3080X6J	80	6	3	25000		120W 1400r/min	65	78	500×450×450
AK3080X8J		8					73	86	
AK30100X6J	100	6	2.85	25000		3N・m	113	135	580×560×560
AK30100X8J		8				Torque motor	115	137	

ACCURACY TESTING

No.	Items	(mm)	No.	Items	(mm)
1	The parallelism of packing knife face to the bottom face of NC turret	0.100	4	Residual deformation in vertical	0.015
2	Repeatability accuracy	0.005	5	Max.elastic deformation in horizontal	0.050
3	Max.elastic deformation in vertical	0.050	6	Max.elastic deformation in horizontal	0.015

AK3063 F=800Nm F1=400Nm; AK3080 F=1000Nm F1=500Nm; AK30100 F=1500Nm F1=800Nm

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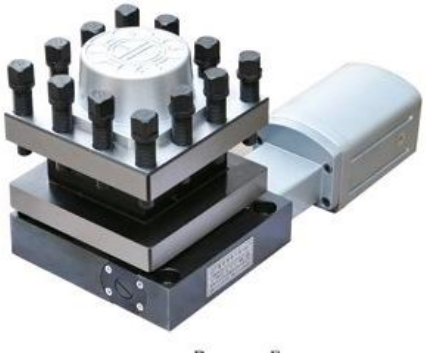

WORKING PRINCIPLE AND CHARACTERISTICS

Model LD4 (HAK20) series vertical NC turret adopts the working principle of worm wheel and worm for driving, face gear coupling as fine indexing machanism, big screw for locking, with hall unit sending signals. It features fast change tools, high repeatability accuracy, high stiftness. It is a popular product for economic NC lathe.

NC TOOL TURRET: LD4 Series

TECHNICAL DATA

参数 Data / 型号 Model	电机功率 w Motor power	电机转速 r/min Motor Speed	锁紧力 kN Locking Force	重复定位精度 " Repeatability accuracy	换刀时间 s Time of changing tool		
					90°	180°	270°
LD4-CK0610(HAK20070-40)	40	1400	2/2.4	±2	1.0	1.4	1.8
LD4-CK0620(HAK20080-48)	50	1400	4	±2	1.2	1.6	2
LD4-CK0625(HAK20110-51)	90	1400	6	±2	1.7	2.2	2.7
LD4-CK6125(HAK20136-57)	90	1400	6	±2	1.9	2.4	2.9
LD4-CK6132(HAK20152-70)	120	1400	12	±2	2.0	2.5	3.0
LD4-CK6136(HAK20152-77)	120	1400	12	±2	2.0	2.5	3.0
LD4-CK6140(HAK20162-81)	120	1400	12	±2	2.0	2.5	3.0
LD4-CK6150(HAK20162-121)	120	1400	12	±2	2.0	2.5	3.0
LD4-CK6163(HAK20200-120)	180	1400	18	±2	2.5	3.2	3.9

WORKING PRINCIPLE AND CHARACTERISTICS

Model LD4B(HAK21) series vertical NC turret adopts the working principle of worm wheel and worm for driving, 3 pieces face gear couping as fine indexing machanism, big screw for locking, with Hall unit sending signal. It features steady rotating, indexing without toolholder disk lifting. It is a popular product for NC lathe.

NC TOOL TURRET: LD4B Series

TECHNICAL DATA

参数 Data / 型号 Model	电机功率 w Motor power	电机转速 r/min Motor Speed	锁紧力 kN Locking Force	重复定位精度 " Repeatability accuracy	换刀时间 s Time of changing tool		
					90°	180°	270°
LD4B-CK0620 (HAK21100-51)	50	1400	5	±2	1.5	2	2.5
LD4B-CK0625 (HAK21130-51)	90	1400	6	±2	1.7	2.2	2.7
LD4B-CK6125 (HAK21136-57)	90	1400	6	±2	1.7	2.5	2.7
LD4B-CK6132 (HAK21158-70)	120	1400	12	±2	2.0	2.5	3.0
LD4B-CK6132D(HAK21158D-70)	120	1400	12	±2	2.0	2.5	3.0
LD4B-CK6140 (HAK21166-81)	120	1400	12	±2	2.0	2.5	3.0
HAK21180-110	120	1400	14	±2	2.2	2.7	3.3
LD4B-CK6150 (HAK21166-121)	120	1400	14	±2	2.2	2.7	3.3
LD4B-CK6163 (HAK21200-120)	180	1400	18	±2	2.5	3.2	3.9
LD4B-CK6172 (HAK21240-120)	250	960	24	±2	3.7	4.7	5.7
LD4B-CK6180 (HAK21280-120)	250	960	28	±2	4.1	5.2	6.3
LD4B-CK61100(HAK21300-145)	250	960	32	±2	4.5	5.6	6.8

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