



Main technical parameter of YCK-500

Maximum roll diameter	500mm
Minimum roll diameter	50mm
Maximum roll length	2500mm
Maximum roll surface length	1800mm
Transverse Rib Groove Range	Φ6~Φ50
Headstock of spindle chuck diameter	400mm
Tooling spindle speed	0~600rpm
Work piece spindle speed	0~30rpm
Marking spindle driving power	2.2kW
Marking spindle speed	DK85 12000r/min
Coolant pump motor power	AB25-90W
Control system	Siemens 808D
Maximum torque servo motor spindle	X axis 1.5Kw
	Y axis 2.0Kw
	Z axis1.5Kw
	A axis3.0Kw
Grating length measurement	2000mm
Minimum programming setting unit	0.001
Minimum tool feed	0.001mm
Maximum work piece weight	4000kg
Machine power	380V, 60HZ ,15KVA
Packing size	4800*1950*2000mm
Net weight	6000kg
Gross weight	6700kg

Description of YCK-500

1. The YCK-500 machines are versatile multi-functional machine, which performs the notching, milling and marking operation in the same machine within same working procedure. YCK-500 machines have been proved to be high automatic, high precision, high efficiency and good safety.

2. The heavy-duty YCK-500 machines are built with three guides structure. The width reaches 910mm and the bed saddle reaches 810mm which highly improve the machines' rigidity and vibration resistance. These ensure YCK-500 can mill steel rolls and tungsten carbide rolls in high speed.



3. High efficiency machining, milling 1 ring groove in about 15 minutes, engraving and milling marker in about 10 minutes, can also be less.
4. Milling transverse rib groove angle in the standard range of arbitrary choice, can also be any empty slots.
5. The steel used in YCK-500 machine body are treated by ageing or annealing. The guideways are treated by intermediate frequency quenching to increase the surface abrasion resistant. A rolling linear guide rail is employed for lateral feed to reduce friction and assure the high speed and precision. Under the normal condition, the linear guide has 10 years guarantee.
6. Machine tool assembly manual aligning cutter mechanism, and the saddle longitudinal movement with grating digital display, ensure the manual change slot displacement is accurate, eliminate the human visual caused by touching the edge cutting knife phenomenon.
7. Control uses SIEMENS 808D system, LCD display, can realize any of three axes linkage. Full servo system of machine tool, 4 control axis are independent motor and drive. The system has good dynamic quality, implementation of the selected servo system of high precision, good reliability, strong anti-interference ability, fast response speed.
8. Designed specifically for the international market, can process all international standards. Such as: GB (China standard), BS (British Standard), JIS (Japanese standard) ASTM (American standard) IS (India standard), ISO6935-2 (International Standard) and customer local standards.
9. The machine has the operability, maintainability and good safety performance, should not pollute environment and harm human body health.

List of Components



NO.	Name	Model	Unit	Band
1	CNC control system	Siemens 808D	1	SIEMENS
2	Servo motor	1FL6 series	4	SIEMENS
3	Servo driver	V70 series	4	SIEMENS
4	Electric motor	DK85	1	JINAN
5	Frequency converter	2.2kW	1	DELTA TAIWAN
6	Main bearing		1	HRB
7	Ball screw		1	YIGONG CHINA
8	Linear guide		1	YIGONG CHINA
9	Main electric elements			SCHNEIDER

Easily damaged parts list of machine

No	Name	Size	Purpose	Qty	Manufacturer
1	Fission cutter bar	Φ8~Φ25	Insert cutter	18	Nantong Yichuang
2	Whole cutter bar	Φ28~Φ40	Insert tool bit	8	Nantong Yichuang
3	Handle seat	Universal	Insert cutter bar	5	Nantong Yichuang
4	Supporting block	Φ8~Φ40	Support cutter bar	13	Nantong Yichuang
5	Tool bit	Φ8~Φ40	Milling	26	Nantong Yichuang
6	Carving milling cutter	Φ6×80	Milling	1	Nantong Yichuang
7	Carving milling cutter	Φ8×80	Milling	1	Nantong Yichuang

Spare parts list of machine

No	Name	Size	Purpose	Qty	Remark
1	Inner-hexagon spanner	1.5mm~10mm	Adjustment	1 set	
2	Double-ended spanner	32×36mm	Insert tool bit	1	
3	Double-ended spanner	24×27mm	Insert tool bit	1	
4	Double offset ring spanner	10×12mm	Adjustment	1	
5	Spanner	Dedicated	Insert tool bit	1	



6	Lock wrench	5"	Sharpen tool bit	1	
7	Sizing bolt	120mm	Installation	6	
8	Foundation bolt	M24	Installation	6	
9	Universal grinding machines			1	

Technical documents

Machine specifications (including the operating instructions)

SIEMENS 808D CNC system manual 1set

Certificate 1 set

Packing list 1set





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