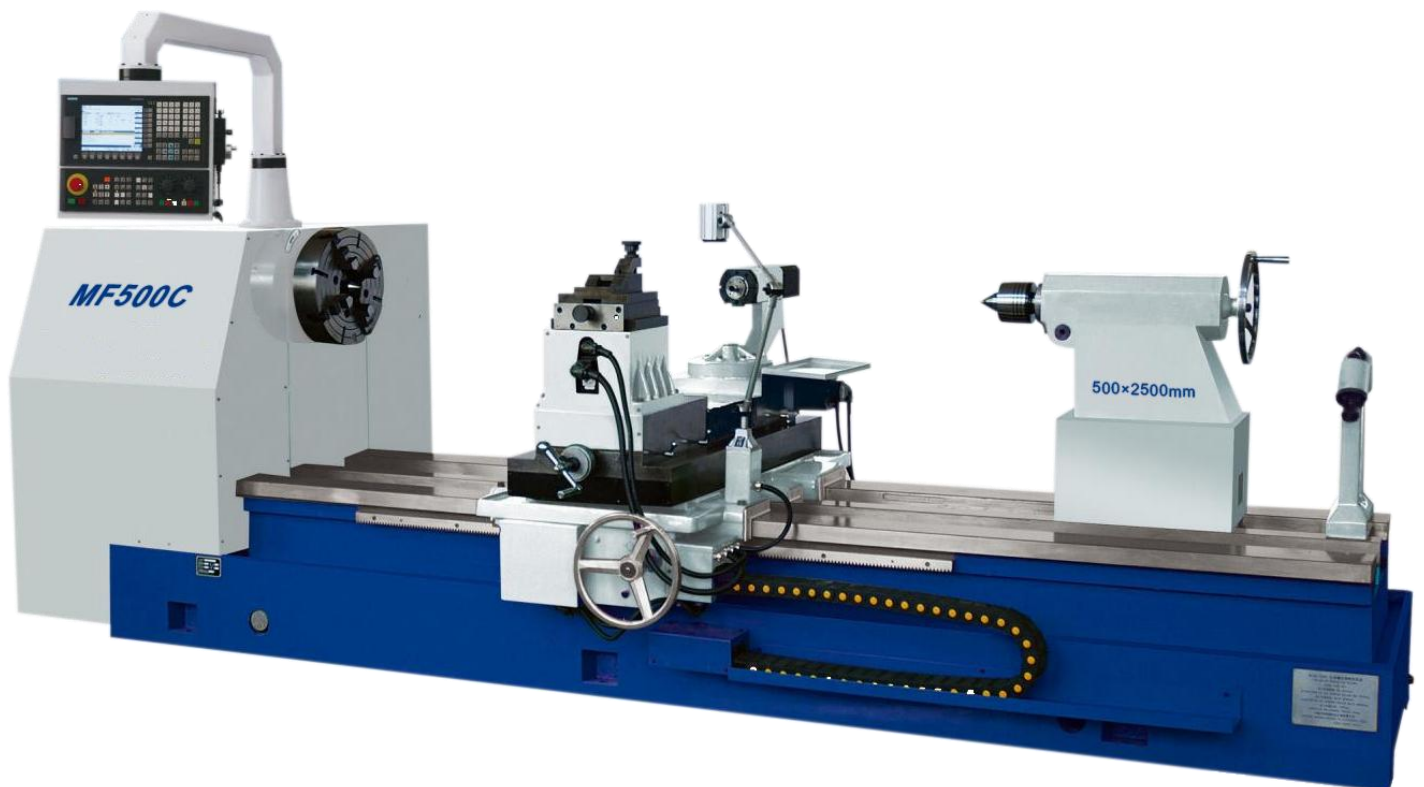
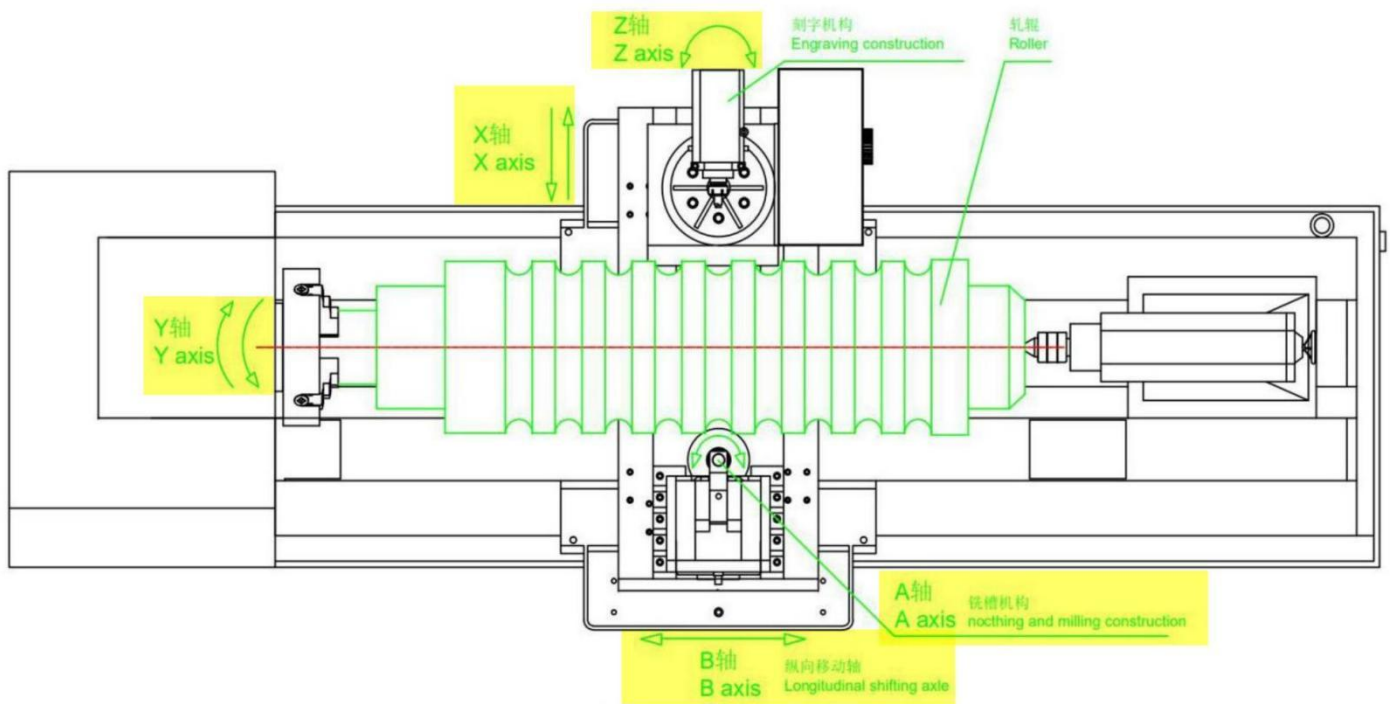

MF500C
CNC NOTCHING AND MARKING
MACHINE
(5 AXIS)

Technical Specification



II. Main Specifications and Technical Parameters

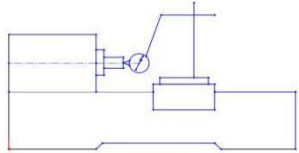
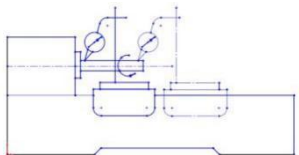
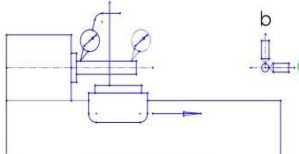
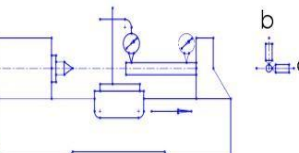
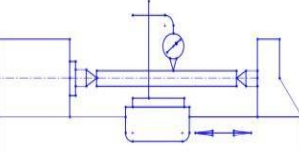
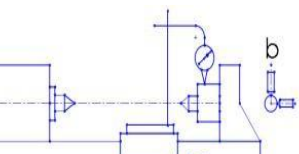
No.	Items	Parameters
1	Max.Roll Diameter	500mm
2	Min.Roll Diameter	50mm
3	Max.Roll Length	2500mm
4	Machine bed structure	3-guide rail
5	Machine bed width	910mm
6	Machine bed saddle	810mm
7	The maximum length of the processing roll surface	1800mm
8	Applicable screw-thread	Φ6~Φ50
9	Machining notching groove β angle	Any
10	Machining notching groove for jumping	Any
11	X-axis moving speed	0~6000mm/min
12	Y-axis moving speed (Workpiece rotation speed)	0~30rpm
13	Z-axis moving speed (Swing head rotation speed)	0~50rpm
14	A-axis moving speed (Flying cutter notching speed)	0~600rpm
15	Marking motor rated speed	HDK85 / 24000rpm
16	Cooling pump motor	AB25-90W
17	Control System Siemens	Siemens808D
18	Servo motor rated power	X axis 1.75kw
		Y axis 2.5kw
		Z axis 1.75kw
		A axis 3.5kw
		B axis 1.75kw
19	Min. programming amount	0.001mm
20	Longitudinal magnetic scale effective measurement length	2000mm
	grating accuracy	0.005mm
21	4-claws chuck diameter	400mm
22	Machine working power	380V, 50HZ; 15KVA
23	Dimensions	4500×1800×2000mm

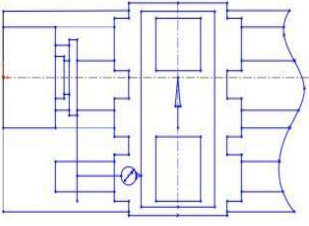


III. Main Spare Parts

Machine Bed	1set
Headstock	1set
Flying structure body	1set
Tailstock	1set
Swing head structure body	1set
Machine bed pallet	1set
Electric appliance cabinet	1set
CNC control system	1set
Tool turret	1set
Lubrication system	1set

IV. Machine Accuracy Standard

No	Inspect drawing	Inspection item	Tolerance/ mm	Inspection tools
1		Spindle axial movement	0.005	Dial indicator
2		Spindle axis radial runout a: close to the spindle end face; b: 300 from the spindle end face	a: 0.01 b: 0.02	Dial indicator Spindle inspection mandrel
3		Parallelism of spindle axis to bed saddle movement a: in the horizontal plane b: in the vertical plane	a: 0.05 / 300 Only forward b: 0.05 / 300 Only upward	Dial indicator Spindle inspection mandrel
4		Parallelism of Tailstock Sleeve Axis to Bed Saddle Movement	a: 0.05 / 300 Only forward b: 0.06 / 300 Only upward	Dial indicator
5		Equal height of spindle and tailstock	0.04 Only the tailstock height	Dial indicator Spindle inspection mandre
6		Parallelism of Tailstock Sleeve Axis to Bed Saddle Movement a: in the horizontal plane b: in the vertical plane	a: 0.02 / 100 Only forward b: 0.03 / 100 Only upward	Dial indicator

7		The perpendicularity of the movement of the middle carriage to the axis of the main shaft	0.02/100	Dial indicator Flat feet
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V. Critical part list

No	Name	Style	Qty	Usage	Manufacturer
1	CNC system	808D	1set	Control	SIEMENS
2	Server Driver	V70 series	5sets	Control	SIEMENS
3	Servo motor	1FL6 series	5sets	Control	SIEMENS
4	Spindle bearing		1set	Transmission	NSK
5	High speed electric spindle	D85	1set	Milling	Milling Jiangsu Huadiao
6	Frequency converter	2.2Kw	1set	Spindle speed regulation	Zhongda Dentsu
7	Ball screw	FZ3204	1piece	Transmission	Chinese craft
8	Ball screw rod	SFU5010	1piece	Transmission	Chinese craft
9	Linear Guides	RGH35CA	2pieces	Transmission	Chinese craft
10	Main components of electrical cabinet			Control	Schneider

VI. Maching tool list

NO.	DESCRIPTION	SPECIFICATION	QTY
1	Split tool holder	$\Phi 8 \sim \Phi 25$	Each 2
2	Monolithic tool holder	$\Phi 28 \sim \Phi 40$	Each 2
3	Arbor base	Normal	5

4	Supporting block	Φ8~Φ40	Each 1
5	Notching insert	Φ8~Φ25	Each 2
6	Notching insert	Φ28~Φ40	Each 2
7	Marking tool insert	Φ6×80	1
8	Marking tool insert	Φ8×80	1

VII. Spare part list

NO	DESCRIPTION	SPECIFICATION	USAGE	QTY
1	Allen wrench	1.5mm~10mm	Adjustment	1
2	Double wrench	32×36mm	Tooling	1
3	Double wrench	24×27mm	Tooling	1
4	Wrenches	10×12mm	Adjustment	1
5	Horn wrench	Dedicated use	Adjustment	1
6	Pliers	5”	Adjustment	1
7	Horn	120mm	installation	6
8	bolt	M24	installation	6

VIII. Consumable Spare List

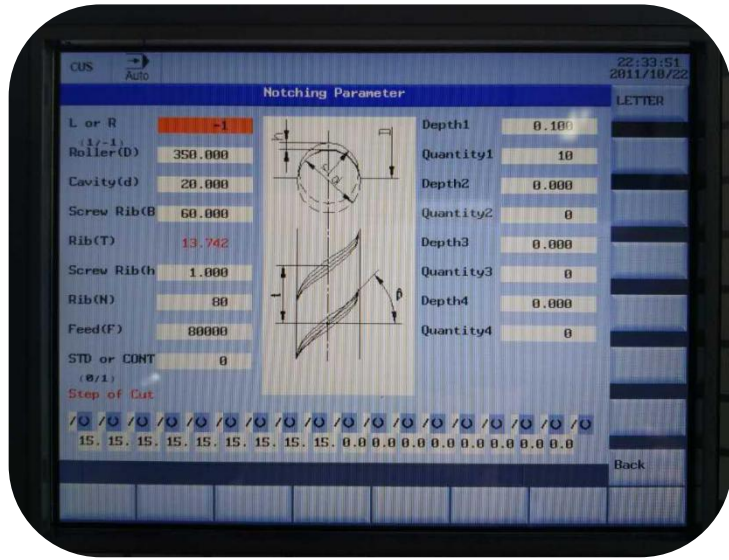
NO	Spare parts name	Style No	Unit	Qty	Remark
1	Y axis worm gear	WXYS500C-01	SET	1	
2	Z axis worm gear	WXYS500C-02	SET	1	

3	X-axis ball screw	WXYS500C-03	SET	1	
4	A axis spindle assembly	WXYS500C-04	SET	1	
5	X-axis timing belt wheel and timing belt	WXYS500C-05	SET	1	
6	A-axis timing belt wheel and timing belt	WXYS500C-06	SET	1	
7	Tailstock hand screw nut	WXYS500C-07	SET	1	
8	A-axis center assembly	WXYS500C-08	SET	1	
9	A-axis hand screw nut	WXYS500C-10	SET	1	
10	Z axis hand screw nut	WXYS500C-11	SET	1	
11	Cutter bar center	WXYS500C-12	SET	1	
12	Spindle center	WXYS500C-13	PCS	1	
13	Tailstock top	WXYS500C-14	PCS	1	
14	Cutter base	WXYS500C-17	PCS	5	
15	Support block	Φ8-Φ40	PCS	Each 1	13 types
16	Arbor	Φ8-Φ40	PCS	Each 1	13 types
17	Alloy cutter head	Φ8-Φ40	PCS	Each 1	13 types
18	Knife stick	Φ 6*80、 Φ 8*80	PCS	Each 1	
19	Flexible knife cover	ER20-6、 ER20-8	PCS	EACH1	
20	Top wire	M5、 M6、 M8	PCS	EACH1	
21	Mandrel	Φ 2、 Φ 3、 Φ 4、 Φ 5、 Φ 6	PCS	EACH1	

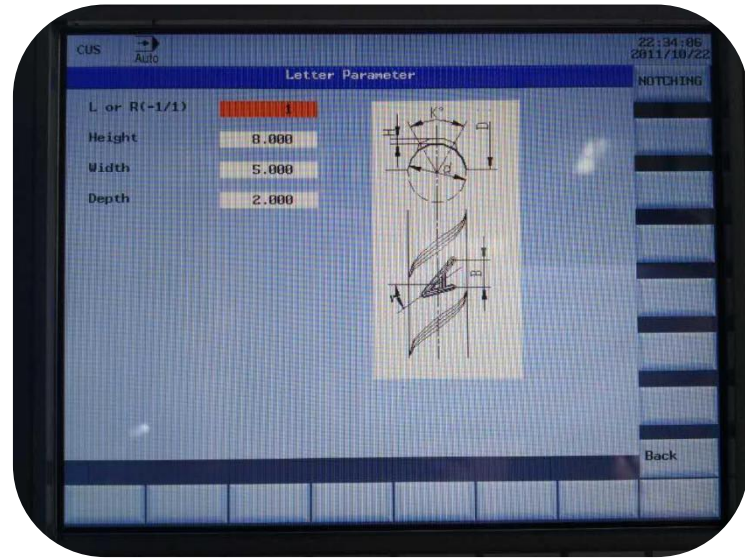
IX. Machine document

Use instructions	1 set
Certificate	1 set
Packing list	1 set
Manual instructions	1 set

X. Special Automatic Programming Software



For notching



For marking