JW-U500Five axis machining center detailed parameters



Basic configuration： JW-U500 5 axis machining center, SYNTEC 220MA-5 (15 inch screen) system (with RTCP The tip of the knife follows the function), 15000 rpm BBT40 machinery spindle, 24T knife bank, 11/15KW spindle motor, cradle 5-axis, disk diameter 350mm, span 500mm,Automatic contact knife instrument, Wireless infrared probe,cooler, water gun, air gun, the rest standard.Chain conveyor, toolbox

1.Parameters and configuration

project	designation	parameters	remarks
processing range	Distance from spindle nose to disk surface（mm）	45-645	Disk level
Table Travel	X-axis Stroke（mm）	800	X-axis
	Y-axis Stroke（mm）	550	Y-axial
	Vertical stroke（mm）	600	Z-axis
Cradle	drive mode	Moment motor direct drive	
	The A-axis swing angle（deg）	±130 °	Sloping shaft
	The C-axis swing angle（deg）	n×360 °	rotation axis
	Disk diameter（mm）	Φ350	
	Maximum workpiece diameter（mm）	Φ500	
	T groove（n/mm）	4/12H7	
	Maximum height of artifacts（mm）	340	
	Workpiece load capacity（kg）	≤50	
	A-axis torque (rated / max. N.m)	120/240	DD Straight drive
	C axis torque（Rated / max. N.m）	45/135	DD Straight drive
principal axis	Taper hole model	BBT40	
	maximum speed（rpm）	15000	
	driving mode	Direct connection	
	power rating（kW）	11/15	
	rating torque（N.m）	24	S1
numerical control system	System brand	SYNTEC	
	Operate the screen	A 15-inch color screen	
drive	X/Y/Z ball screw（Diameter guide mm）	4012	
	X/Y/ZAxis guide rail	45#/45#/45#	
	X/Y/Z Fast moving speed（m/min）	30/30/30	Motor at 3,000 rpm
	A / C axis fast speed（m/min）	100/200	
	X/Y/Z power of motor （kW）	3.9/3.9/5.9	Z axis lock
tool magazine	Knife library capacity (handle)	24	
	Change change time (knife to sec)	2	
	Maximum tool length (mm)	250	
	Maximum tool weight（kg）	8	
	Maximum knife plate adjacent knife diameter（mm）	70/120	
Machine tool accuracy	X/Y/Zpositioning accuracy（mm）	0.005	
	X/Y/Z Repeat positioning accuracy （mm）	0.003	
	A/C positioning accuracy（sec）	±8	

	A/C Repeat positioning accuracy（ sec ）	±6	
Machine tool size	Machine tool size	About 2550 * 2400 * 2550	Long * wide * high
	Machine tool weight（t）	About 6	
other	numerical control system	SYNTEC 220MA-5plus	
	Total electrical capacity Kw	20	
	Pressure required MPa	0.6～0.7	
	The gas flow required（m^3 /min）	0.15	
	power requirement	Three-phase at 380V / 50Hz	

Note:Thisparametertableissubjecttotechnicalchangewithoutnotice

2.Control the system configuration

Serial number	name	brand	place of production	remarks
1	control system	SYNTEC	**Taiwan, China**	220MA-5(15寸)
2	principal axis	Speedcn	**Taiwan, China**	BBT40
3	tool magazine	Speedcn	**Taiwan, China**	24T Disk knife bank
4	lead screw	THK	Japan	4012
5	roller guide	THK	Japan	45/45/45
6	Three-axis motor	SYNTEC	**Tai Wan, China**	
7	Three-axis drive	SYNTEC	**Tai Wan, China**	
8	Direct drive drive	SYNTEC	**Tai Wan, China**	
9	Spindle drive	SYNTEC	**Tai Wan, China**	
10	Main electrical components	Schneider	**Sino-French joint venture**	
11	Silk rod bearing	FAG/SKF	**Germany**	
12	Precision locking nut	YINSH	**Tai Wan, China**	
13	lube oil system	HERG/BAOTN	**Tai Wan, China**	1.5L
14	pneumatic system	AIR TAG	**Taiwan, China**	
15	Oil cold machine	REID INDUSTRY	**Guang Dong**	
16	heat exchanger	REID INDUSTRY	**Guang Dong**	
17	water pump	WEISEN	**Wen Zhou**	

Note: We reserve the right to change the brand of the same quality

3. Standard configuration table

serial number	Name	Quantity (unit: set)	Remarks
1	SYNTEC system brand	1	SYNTEC 220MA-5
2	Fully enclosed protection	1	

3	Guide rail protective cover	1	With a 5-axis protective shield
4	Automatic lubrication system	1	
5	Workpiece cooling system	1	
6	Spindle cooling system	1	
7	Hand-held operating unit	1	
8	24 disc knife bank	1	
9	Three-color alarm lamp	1	
10	Three-color alarm lamp	1	
11	air gun	1	
12	Ground foot components	1	5 floor pads, screws, and nuts
13	Z-axis nitrogen gas counterweight	1	Cylinder, cylinder

4.Random file

serial number	Name	Quantity (unit: set)	Remarks
1	packing specification	1	paper document
2	Certificate of qualification	1	paper document

5.Environmental requirements and other auxiliary equipment

serial number	project	requirement
1	ambient temperature	Working environment temperature + 5℃ ~ + 40℃. After the ambient temperature, air conditioning should be added to ensure processing accuracy
2	ambient humidity	Relative humidity of 80%
3	Lightning protection	Equipment installation environment should be lightning protection measures, if there is no lightning protection measures, in the lightning weather, possible Can cause a lightning strike accident
4	surrounding environment	1. The machine tool should not be installed within the range of direct sun; 2. Stay away from oil pollution, dust and corrosive gas; 3. Stay away from the equipment with large vibration, such as air compressor room, punch workshop, etc.; 4. A distance of at least 1m apart from any other equipment (or wall); 5. Stay away from electrical interference equipment, such as electric welding machine, etc.
5	Installation of the ground requirements	The ground should be stable and strong, and the height difference should not be more than within the effective installation range of any single machine tool 10mm。

JW-M855L Three axis machining center detailed parameters



Basic configuration：JW-M855L 3 axis machining center, SYNTEC 22MA system, 12000 rpm BT40 machinery spindle, 24T knife bank, 7.5/11KW spindle motor,cooler, water gun, air gun, the rest standard..Chain conveyor, toolbox

1. Mechanical specifications

model number		unit	JW-M855L
operating floor	bed dimension	mm	1000*550
	Maximum load bearing	kg	600
	T-type slot (width x number x spacing)	mm	18x5x100
Table Travel	X-axis Stroke（mm）	mm	820
	Y-axis Stroke（mm）	mm	550
	Vertical stroke（mm）	mm	600
principal axis	The distance from the main shaft nose to the work table	mm	130-730
	Distance from the spindle center to the pillar	mm	640
	main shaft speed	rpm	12000
	main shaft speed	Type	BBT-40
	Main shaft head casing aperture	mm	φ150mm
	Spindle transmission mode	-	Belt spindle
Automatically change the knife	Maximum tool diameter (no adjacent knife)	mm	Φ80（Φ130）
	Maximum tool length	mm	300
	Maximum tool length	kg	8
	Tool selection		Random knife selection
	knife handle	Type	BT-40
	Knife library capacity	Pieces	24
	Knife library capacity	-	Knife arm type
	Tool exchange time (knife to knife)	Sec	1.8
	blind rivet	Type	P40-1(45°)
Motor capacity	controller		SYNTEC 22MA
	spindle motor	KW	11/15
	automatic lubrication installation	w	20
	Cutting liquid pump	w	750
	Power capacity	kVA	25
other	Air source pressure requirements	kg/cm^2	6/8
	Cut tank capacity	L	200
	positioning accuracy	mm	±0.005/300
	repeatability precision	mm	±0.003/300
	Floor area and height	mm	2550*2360*2400
	Machine tool weight	kg	6000

** The Company reserves the right to change the above specificationsfrom time to time due to the technical requirements.*

2. Host standard equipped

1. SYNTEC 22MA
2. Spindle cone hole blowing

3. Cutting blowing function

4. Cutting of the coolant system

5. Full cover cover

6. Automatic lubrication system

7. Foundation bolts and cushion blocks

8. Toolbox and Tools

9. work light

10. Operation status indicator lamp

11. Mobile hand-shake pulse generator

12. Hand hand blowing air gun

13. The machine washes the water gun

14. Mechanical, electrical, and operation instructions

15. Rigid attack teeth

16. Electrical box heat exchanger

17. Manual pine knife device

18. Automatic tool switching system

19. Three-axis slide rail telescopic shield

20. Z-axis nitrogen balance cylinder counterweight

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2. Random attachment

P / N	name of a part	specifications	quantity
*	hold-all		A set
△	manual of operation		1
△	circuit diagram		1
△	Random accuracy table		1
☆	Basic supplies		A set

Note: with "*" for adjustment tool; with "△" for technical manual; with "☆" for random parts

4.Main zero unit manufacturers

order number	nomenclature	specifications and models	country of origin	manufacturer
1	numerical control system	22MA	Taiwan, China	SYNTEC
2	spindle motor	11/15KW	Taiwan, China	SYNTEC
3	X、Y、ZAxis motor	3.9/3.9/5.9	Taiwan, China	SYNTEC
4	Change the knife-tool manipulator structure	Cam-type BT40-24T	Taiwan, China	Speedcn

5	Cam-type BT40-24T	Φ40/12	Japan	THK
6	Rolling bead wire bar bearing	30TAC62B	Japan	NSK/FAG
7	Linear guide rail(X/Y/Z)	45（pin roller）	Japan	THK
8	principal axis	BBT-40-12000RPM	Taiwan, China	Speedcn

JW-C50 digital controlled lathe technical protocol



1. Main technical parameters

Machine tool data \ model number		unit	JW-C50L
range of work	Maximum rotary diameter of the machine tool	mm	550
	Maximum machining diameter of the machine tool	mm	500
	Maximum swing diameter on the drag plate	mm	Φ280
	maximum machining length	mm	1000
Spindle parameters	Spindle end form		A2-6
	The clip head way		8 Inch card plate
	Spindle through hole diameter	ф/mm	66
	Maximum rod material through the diameter	ф/mm	52
	range of spindle speeds	r/min	4000
	Power of main motor	Kw	11/15

X / Z axis parameters	The X / Z-axis stroke	m/min	260/1060
	X / Z axis fast speed	m/min	20/20
	Repeat positioning accuracy on th e X / Z axis	mm	±0.0025
	Positioning accuracy of the X / Z a xis	mm	±0.003
	The X-axis servo-motor power	kw	2.4
	Z-axis servo-motor power	kw	2.4
	X-axis servo-motor torque	N,m	11
	Z-axis servo-motor torque	N,m	11
Servo turret	Knife stand form	T	8/12
	Blade / boring cutter size	mm	25*25/φ40
	Turret Servo motor power	Kw	1.5
Tailstock	Tail seat sleeve diameter	mm	φ80
	Tail seat sleeve trip	mm	150
	Maximum trip to the tailseat	mm	960
	Tail seat sleeve form		hydraulic pressure
	Tail seat sleeve cone	MT	Mo type 5
centre frame	Holding range of the center fr ame	mm	φ8-70
	Center frame trip	mm	
other	Hydraulic motor power	kw	1.5
	Pump motor power	w	750
	Machine tool weight	KG	5000
	Bed body form and slope	degree	unitary /30°
	Machine tool size (length * width * height)	mm	3350*2000*2250

2.Main configuration list

name	specifications and models	quantity	brand	locality of growth
Control system	SYNTEC 22TA	A set	SYNTEC	Taiwan,
Spindle motor	11-15kw Servo	A set	SYNTEC	Taiwan,
principal axis	A2-6	A set	ROYAL	Taiwan,
The bar bearing	NSK	A set	NSK	Japan
Servo	8 Station	A set	TCS	Taiwan,
Roller straight line guide rail	45/45	A set	THK	Japan
ball screw	3210/4010	A set	THK	Japan
automatic lubrication		A set	HERG	joint
hydraulic pressure station		A set		joint
oil chuck	Hollow 8〃	A set	AUTOGRIP	Taiwan,
cooling pump	750W	A set		joint
Hydraulic tail top		A set		Make your own
Hydraulic center frame	8-70	A set	BDEFU	Chang zhou

3.List of random documents for machine tools

order number	name	quantity	remarks
1	Instructions for mechanical use	A set	Machine, electric and liquid binding books
2	Certificate of qualification	1 Book	
3	Machine tool packing list	1 Book	
4	Instructions for the system parameters	1 Book	
6	System operating instructions	1 Book	
7	Chain conveyor	1	
8	toolbox	1	