

厦门鼎铸智能设备有限公司

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XIAMEN DINGZHU INTELLIGENT EQUIPMENT CO., LTD

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1. Main technical parameters of DK850-8 Peeling Machine

Travel	X axis	600mm	
	Y axis	500mm	
	Z axis	500mm	
	Distance from Spindle nose to Worktable	90-650mm	
	Distance from Spindle center to column guide surface	585mm	
Worktable	Area of worktable	1820*450mm	
	Maximum load of worktable	500kg	
	Size of T-shape groove	3-18*130mm	
Spindle	Motorized Spindle-8	5.5KW-125-ER32	
	Speed of main spindle	24000 rpm	
Control System (Mitsubishi)	Configuration Mitsubishi		
	Motor(Mitsubishi)	X axis	HG303S-D48
		Y axis	HG303S-D48
		Z axis	HG303BS-D48
Sinovo Spindle servo motor-4	Sinovo 11KW		
Travel rate	Quick travel rate	48000mm/min	
	Chip feed rate	0~12000mm/min	
Accuracy	Positional Accuracy	JIS±0.005/300	
	Repeated Positioning Accuracy	JIS±0.005/300	
Protection cover of machine tool	Overall protection		
Machine Weight	6000kg		
Machine Size	3400*2600*3000mm		



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2. Main Structure and Performance of the Machine Tool

- Structure layout

The complete machine is in cross slide bed structure with proper layout. The machine is in good condition in strength, rigidity and stability, and owns great maintenance processing property.

- Main Possession: All castings are made of resin sand. Main possessions, including column, slide saddle, foundation, spindle box, and worktable, adopted box structure or similar structure, and sufficient reinforcing rib plates which are casted by high strength cast iron with aging treatment to make sure the complete machine has great performance in strength, rigidity and stability.

- Main drive and spindle

Spindle motor is straight connected with Spindle, which make sure the main drive has sufficient strength, stable operation, and make low noise.

- 1) Spindle units: spindle is made by XINYATAI company, placed in spindle box. Precision angular contact main spindle imported from Japan the machine adopted has wide supporting span, great rigidity, stable drive and consistent working accuracy.
- 2) Three-way line rails: adopted Taiwan HIWIN or PMI linear guide rail which has fast speed and high accuracy features.

- Three-way feeding mechanism

- 1) Three-way feeding machine adopted Taiwan HIWIN or PMI C3 precision ball screw drive, which has sufficient accuracy, strength, rigidity and abrasion performance. Lead screw pitch is 16mm.
- 2) Ball screw' s supporting structure has good stability and rigidity features. Adopted high quality(imported) and special bearing of



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large-contact-angle(60°) ball screw to support, the supporting structure is assured sufficient rigidity and precision stability。

- Lubrication system: Each line rail and ball screw adopt centralized time and rationed lubricated in pump station and make sure the lubrication is sufficient and reliable.
- Safety protection
 - 1) Three-way guide rail adopt stainless stretchable protective cover to make sure the guide rail and lead screw' s working reliable and long-lived.
 - 2) Three-way feeding is set with safety travel allowance, and reliable safety measures.
 - 3) Conform to National and Industrial requirements in related technology, safety and environment aspects.
 - 4) **With Auto door ,Automatically open and close door option for the mass production time.**
 - 5) **With display to show the spindle temperature controlling system to find out whenever the cooling system is not work .**

3.Main function of Control System

1	Axis quantity of control servo: 8 axis	20	Graphic display (2D)
2	Simultaneous control axis quantity 8 axis	21	Tool length and radius compensation
3	Inch/Metric unit input	22	Tool management
4	Absolute value/Increment command	23	64 set cutter parameters
5	Menu programming	24	Reverse backlash compensation
6	Section skip	25	Lead screw pitch error compensation
7	Linear compensation	26	Front cabinet control
8	Arc compensation	27	Spindle orientation



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9	Polar coordinates compensation	28	Workpiece coordinate system
10	Helix compensation	29	4set given null offset
11	Rigidity thread tapping	30	Programmable null offset
12	FRAME function(mirroring, proportion zoom and rotation)	31	Subroutine call
13	Program memory capacity : 512M	32	Graph circulatory support
14	Backstage edit	33	Process area limitation
15	Network cable、USB Transfer	34	Accelerated speed saltation limitation
16	DNC Processing	35	Parts counter
17	MDA way	36	Soft/Hard limit switch
18	Handwheel incremental weighted	37	Chinese/English language display
19	10.4" TFT display		

4.List of Main Purchased Parts

Number	Item	Manufacturer
1	Numerical control system	Mitsubishi
2	Triaxial drive motor and servo system	Mitsubishi
3	Cable	Mitsubishi
4	Monitor	Mitsubishi
5	Self-lubrication pump	Nanjing Bijur or De Yang
6	Main contactor and air switch	Schneider
7	Operation panel	Shanghai Zhehong
8	Frequency converter	Sinovo
9	Lead screw, Guide rail	Taiwan HIWIN or PMI
10	Motorized spindle	Xinyatai (Spindle with oil cooler)



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5. Accompanying documents

Number	Item	Quantity	Notes
1	System specification	1 copy	
2	Factory certificate of qualification	1 copy	
3	Packing list	1 copy	
4	Acceptance order	1 copy	

6. Quotation

#	Product	Model/ configuration status	Other	Unit Price	Qty.	Total (FOB) Xiamen Port CNY
1	Peeling Machine	DK850-8 /Mitsubishi (with chip remover)		¥315000	1	¥315000
2	Tooling	DK850-8				DK850-8



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