

RKS-650S/650H/850

Three-line High Precision Machining Center Series



MACHINE FEATURES

- ◆ A rear chip discharge structure, easy to clean hair chips and not easy to leak oil;
- ◆ 3D concave tool conversion in only 1.8 seconds to accommodate 24 tools, adapt to various processing needs, convenient for tool management;
- ◆ Counterweight-free Z-axis design, and high-power brake servo motor, higher transmission, excellent cutting rigidity, better machining accuracy and longer spindle lifespan;
- ◆ Fixed column type, cross slide structure, extra-large stable base and high-rigidity large-span herringbone columns, lesser deformation during high-speed cutting;
- ◆ High-speed and high-precision spindle unit, front end with a labyrinth design, equipped with an air curtain protection function and a circulating cooling device, more stable temperature, less thermal deformation, and higher accuracy.
- ◆ The three-axis guide rail with high-rigidity roller linear rail bearing, lower friction and less noise.

APPLICATION

It is suitable for small and medium-sized batch processing of various types of complex parts such as small and medium-sized boxes, plates, valves, shells, molds, etc. and widely used in precision parts, 5G products, hardware, auto parts, and medical equipment industries.

STANDARD ACCESSORIES

1 set vise and horse iron, 4 sets tool handle and rivets, 1 pc knife lock holder, 1 set mouth&airsoft&memory card, 1 set hexagon socket

MACHINE PARAMETERS

Item	Unit	RKS-650S	RKS-650H	RKS-850	RKS-855	RKS-966	RKS-1165	RKS-1380
X axis travel	mm	650	650	800	800	900	1100	1300
Y axis travel	mm	450	450	500	500	650	650	800
Z axis travel	mm	550	550	500	500	650	650	800
Distance from spindle end face to milling table	mm	130-680	130-680	105-605	105-605	130-780	130-780	160-960
Distance from spindle center to column	mm	551	551	N/A	595	770	770	N/A
Table size	mm	750x460	750x460	1000x500	1000x500	1000x600	1200x650	1400x800
T-slot size/amount /distance	mm/pcs/mm	14x3x125	14x3x125	18x5x100	18x4 (102-120-102)	18x5x120	18x5x120	18x6x120
Max load on table	kg	350	350	500	500	600	700	800
Spindle taper		BT30	BT40	BT40	BT40	BT40	BT40	BT40/BT50
Max spindle rotation speed	rpm	20000	12000			10000/12000		
Spindle power	kw	7.5	7.5	7.5	7.5	7.5	11	11
Tool type	Type	Knife arm type						
Tool quantity	pcs	24	24	24	24	24	24	24
Max. tool diameter	mm	78	78	78	78	78	78	78
Max. tool diameter (tools slots beside not occupied)	mm	120	120	120	120	120	120	120
Max. tool length	mm	300	300	300	300	300	300	300
Max. tool weight	kg	8	8	8	8	8	8	8
Tool changing time	s	1.7	1.7	1.7	1.7	1.7	1.7	1.7
Fast moving speed (X/Y/Z)	m/min	48/48/48	48/48/48	48/48/48	48/48/48	36/36/36	36/36/36	36/36/36
Cutting speed (X/Y/Z)	m/min	10/10/10	10/10/10	10/10/10	10/10/10	10/10/10	10/10/10	10/10/10
Positioning accuracy (X/Y/Z)	mm	0.008	0.008	0.008	0.008	0.008	0.008	0.008
Repeat position accuracy (X/Y/Z)	mm	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Air source	L/min	280L/min	280L/min	280L/min	280L/min	280L/min	280L/min	280L/min
Air pressure	bar	6~8bar	6~8bar	6~8bar	6~8bar	6~8bar	6~8bar	6~8bar
Total power	kva	10	10	25	25	25	25	40
Dimension (L*W*H)	mm	2200x2600x2550	2200x2600x2550	2700x2400x2500	2700x2400x2500	2800x2670x2800	3300x2670x2800	3800x2800x3300
Weight	kg	3900	3900	5200	5200	5800	6500	9000