

RKS-H9/H11

Horizontal Machining Center Series



MACHINE FEATURES

- ◆ Fixed column type, cross slide structure, extra-large stable base and high-rigidity large-span herringbone columns, high accuracy and rigidity and lesser deformation during high-speed cutting;
- ◆ Fully enclosed cover for protection, beautiful appearance and easy to operate and maintain;
- ◆ A high-speed spindle unit, the front end with a labyrinth design, equipped with an air curtain protection function to prevent cutting fluid from entering the spindle bearing for protecting the spindle;
- ◆ 24-tool arm type tool changer, reliable quality and stable performance;
- ◆ The chip removal of the machine with rear slopes on both sides, user-friendly and efficient, rear water tank design, double-layer water tank filtration system structure, good cutting fluid for workpiece processing.

APPLICATION

It is suitable for processing various types of small and medium-sized batches of complex parts such as small and medium-sized boxes, plates, disks, valves, and shells made of non-ferrous metals and widely used in the mold, auto parts, and medical equipment industries.

FIXED COLUMN TYPE

- ◆ The worktable can do cross movement, when it moves in the X and Z directions, and the spindle box moves in the Y direction. The main spindle box has two forms of front hanging and side hanging on the column; it is suitable for multi-tasking processes such as boring and milling of medium-sized complex parts.
- ◆ The main spindle box can do cross movement, the main spindle box moves in the X and Z directions, and the worktable moves in the Y direction; it is suitable for multi-task processing such as boring and milling of small and medium-sized parts.
- ◆ The main spindle box is hung on the side and the main column, and the spindle box moves in the Y and Z directions. This layout is similar to the planer type horizontal milling and boring machine, and the worktable moves in the X direction; it is suitable for multi-tasking processes such as boring and milling of medium-sized parts.

MOBILE COLUMN TYPE

- ◆ Planer type, the bed is T-shaped, the work table moves in the X direction on the front bed, and the column moves in the Z direction on the rear bed part; the main spindle box has two forms of hanging which is upright and upside down on the column. Y-direction movement is suitable for multi-tasking processes such as boring and milling of medium and large parts, especially long parts.
- ◆ Column cross movement type, the column moves in Z and U (parallel to the X direction), the main spindle box moves in the Y direction on the column, and the work table moves in the front bed. It is suitable for multi-task processing such as boring and milling of medium-sized and complex parts.
- ◆ Spindle ram feed type, the spindle box moves in the Y direction on the column, and the spindle ram moves in the Z direction. The column moves in the X direction. The work table is fixed or equipped with a rotary work table; it can be equipped with multiple work tables, which is suitable for processing small and medium-sized multiple parts. The workpiece loading&unloading and cutting time can overlap.

MACHINE PARAMETERS

Item		Unit	RKS-H9	RKS-H11
Travel	X axis travel	mm	900	1100
	Y axis travel	mm	650	650
	Z axis travel	mm	650	650
	Distance from spindle end face to milling table	mm	0-650	0-650
Milling Table	Table size	mm	500×500(rotary table)	500×500(rotary table)
	T-slot		18H7	18H7
	Max load on table	kg	700	800
Spindle	Spindle taper		BT40	BT40
	Max spindle rotation speed	rpm	10000/12000	10000/12000
Tool Changer	Tool type	Type	Knife arm type	Knife arm type
	Tool quantity	pcs	24	24
	Max. tool diameter	mm	78	78
	Max. tool diameter (tools slots beside not occupied)	mm	120	120
	Max. tool length	mm	300	300
	Max. tool weight	mm	8	8
	Tool changing time	s	1.7	1.7
Speed	Fast moving speed (X/Y/Z)	m/min	36/36/36	36/36/36
	Cutting speed (X/Y/Z)	m/min	10	10
Accuracy	Positioning accuracy (X/Y/Z)	mm	0.008	0.008
	Repeat position accuracy (X/Y/Z)	mm	0.005	0.005
Others	Air source	L/min	280L/min	280L/min
	Air pressure	bar	6~8bar	6~8bar
	Dimension (L*W*H)	mm	2800×2750×2700	3300×2750×2700
	Weight	kg	7000	7000