

Horizontal V Groove Machine RAS-1250X4000



Main Features:

- 1.The knife rest transfer device of the v grooving machine adopts high-speed alloy steel gear rack , and the precision is guaranteed by the heavy load linear guide rail of SFSR mute ball wire rod and QR roller.
- 2.The machine adopts full hydraulic clamping material,pressing system fixed,working fast,so that the processed products have no clamping mark and indentation.
- 3.Adopts four knives to process the "V" slot, so the cutting quantity is distributed balance and reduced deformation of the workpiece. And equipped with cooling system, all processing process tracking cooling blow, extend the service life of knife tools, reduce production costs.
- 4.Adopts platform-type structure ,longitudinal and transverse can be processed, and has a process to achieve the plate "positive and negative" processing function.
- 5.Adopts full CNC system.Easy to learn and understand,accurate positioning.Using this machine simply input the processing program to complete.According to different operators and materials,using rotate button to adjust groove speed,easy for operators to operate.
6. The machine can understand the working procedure through the display screen. Use sensors to ensure the safety of operators.
- 7.The alarm information on the display screen is easy to repair when the equipment is abnormal.
8. Using this v grooving machine only needs manpower when the workpiece is put in and taken out, which greatly saves labor.
9. The high strength plate is used as the base surface, which makes the worktable not easy to wear when processing the workpiece. The equipment has self-grooving function, in the process of use, customers can groove the table according to their own requirements to ensure processing accuracy.

Machinery Application:

The machine is CNC Horizontal Full Servo Grooving Machine.New design of machine structure,adopting advanced CNC system.With high machining accuracy, simple operation, no noise, no vibration and other characteristics.

The machine tool is used in sheet metal parts (including stainless steel plate, aluminum plate, aluminum plastic plate, copper plate, iron plate, rubber board, acrylic plate and some other special plates for the V groove, U groove and other irregular groove processing, especially for sheet metal before bending V groove processing.

Safety Identifiers

- Safety standards (2006 / 42 / EC).
- Opening door cuts off power.
- Rear metal safeguard, CE standard.
- Safety relay monitors foot switch, safety protection

CNC Controller:

- 1.Lower maintenance cost
2. Shorten training time
- 3.Avoid collision
- 4.4. In any axial direction can be installed with grating ruler
- 5.Responsive time for acceleration/deceleration: 0.5US
- 6.High-speed positioning of main shaft
- 7.With retraction function
- 8.Intellective fault alarm and troubleshooting function
- 9.PLC interrupt function: fixed scan time 10ms
- 10.All axes open-loop control with feedback function
- 11.The servo motor torque can be read and displayed
- 12.The acceleration and deceleration control curve is superior to other numerical control.
- 13.With DC power input module
- 14.With SSR external input signal plate
- 15.Easy wiring, low wiring cost

Feature:

- The machine welding is made by welding apparatus and welding robots.
- After the welding, we make stress relief process by vibration system.
- After the stress relief process machine frame goes to CNC 5 axes machining centers for accuracy.
- All reference surfaces and connection holes are machined.
- By all these processes machine frame sensitivity is protected for a long life time.

Main Technical Parameters:

NO	Content	Unit	Parameter
1	type	mm	RAS-1250x4000
2	Process plate Thickness	mm	0.5-6.0
3	Process Plate Length x Width	mm	1250x4000
4	Minimum Margin	mm	8
5	Maximum Depth	mm	0.8
6	Maximum grooved Depth	mm	2.5
7	Cut pin speed / variable speed	M/min	0-90
8	Work Table Adjustment		Self-Planing Function
9	X Axis Minimum Set Unit	mm	0.01
10	X Axis Positioning Accuracy	mm	±0.05
11	Y Axis Minimum Set Unit	mm	0.01
12	Y Axis Positioning Accuracy	mm	±0.05
13	Z Axis Minimum Set Unit	mm	0.01
14	Z Axis Positioning Accuracy	mm	±0.03
15	X1-X2Axis Motor Power	Kw	1-1 (Total 2KW)
16	Y Axis Motor Power	Kw	5.5
17	Z Axis Motor Power	Kw	1
18	Work Table Level	mm	±0.03
19	Feeding Mode		Sheet Metal Motionless, Tool Holder Movement
20	Work Table Easy Replacement		No Replacement
21	The whole machine quenching		Yes
22	Hydraulic System		1.5KW/8L/10Mpa
23	Number Of Knives Installed		4 Alloy Knives
24	Outline Size	mm	6000*2500*1800
25	Table parallelism	Mm/M	±0.02
26	Weight	Kg	8500

V.Main Configuration of the Machine:

No.	Name	Manufacturer Name
1	CNC Controller	Easycat - Taiwan
2	Servo Motor	Easycat - Taiwan
3	Servo Drive	Easycat - Taiwan
4	Speed Reducer	AMD- Taiwan
5	High-precise Ball Screw	AMD- Taiwan
6	High-precise Linear Guide Rail	HIWIN - Taiwan
7	Touching Ball Bearing	NSK - Japan
8	Grooving Cutter	SECO - Sweden
9	Electrical Element	Schneider – France
10	Rack	YYC - Taiwan
11	Gear	YYC - Taiwan