Gantry type V grooving machine



LBC gantry type V grooving machine LBC-1250X4000 is improved from the conventional table type grooving machine. The V grooving machine has all the advantages of conventional table type grooving machine(such as the sheet is fixed& static. No scratches on its opposite during grooving, simple structure and good rigidity and better stability).

compared with a conventional table type grooving machine, the improvement of the machine as follow:

- 1.the rear moving beam is designed to transversal moving, remove the auxiliary clamp and the knife rack can left and right moving.
- 2.The driving force transmission system is changed from a straight gear into a skew wheel to increasing the speed, reducing the noise and vibration and ensure the transmission more stability and reliability to prolong the life of gear. The machine is subject to three axis controlling,
- 3. Its X axis(longitudinal feed of knife rack) is subject to encoder based numerical control, its axle Y(transversal moving of feeding unit) and Z axis are subject to servo control, it can realize full automatic machining after the parameter are set, comprehensively improving the accuracy of grooving.
- 4. the worktable can automatically repair after it is worn to prolong life for the machine. The positioning through pressing sheet edges, there is neither contact between the clamping and the sheet surface, no pressing marks on the sheet surface.

the grooving machine are treated by tempering to avoid the stresses. Ensure a high accuracy and good rigidity.

LBC- 1250X5000 CNC sheet metal V grooving machine 1250X6000

Over	all dimension	5600x2300x2100			
Proc	essing range	4000x1250mm			
X axi	s(longitudinal) control and pred	cision Encoder ±2mm			
Y axi	s(transversal) control and pred	cision Servo ±0.03mm			
Z axi	s(depth of cut) control and pre-	cision servo±0.03mm			
Powe	er of X axes motor	4KW			
Powe	er of Y axes motor	1KW			
Powe	er of Z axes motor	1KW			
Max.	speed of X axis	60m/min			
Max.	speed of Y axis	6m/min			
Max.	thrust force of X axis	350kg			
Com	pressed air	0.4Mpa-0.6Mpa			
Cont	rol system H6D	HUST Taiwang			
Serv	o motor	DELTA Taiwang			
Linea	ar guide way	Hiwin Taiwang			
Com	munication cable	IGUS Germany			
Hydr	aulic station	Korea			
Low	voltage electrical components	Schneider France			
Features of LBC V groove machine products list					
	Model	Overall dimension			
1	1250X3200	4800x2200x2100mm			
2	1250x4000	5600x2200x2100mm			
3	1250x5000	6600x2200x2100mm			
4	1250x6000	7600x2200x2100mm			

BC05K V grooving machine



the GBC V grooving machine GBC-1220x4000 is a kind of latest development equipment, it adopt the steel wire as its transmission system. It instead of the gear, rack and pinion and ball screw, to realize flexible drive. It completely avoid the vibration cased by the rigid connection of rack and pinion. And significantly improve the roughness of groove surface and product quality as well.

the machine have three axis to be controlled, its X axle (longitudinal moving of knife rack), Y axle(transversal moving of rear feeding device) and Z axle(vertical moving of knife rack) are all subject to servo control. It can realize full automatic machining after the parameter is set up, comprehensive improving the accuracy of grooving.

clamping system adopt the hydraulic system to drive, large pressure, reliable fastening force. Lowe noise and small energy consumption.

the rear feeding unit is driven by double screw structure and its surface has high positioning accuracy.

the guild way of knife rack is made of cast iron. it have abrasion resistance and have repair function to prolong the service life

the NC program is reasonably designed and easy to learn to learn. the equipment can realize automatic machining after the parameters are input. there are multiple interlocking safeguard measure for safe operation.

BC05K-1250X5000 CNC sheet metal V grooving machine 1250X6000

15555						
Overall dimension			5600x2300x2100			
Processing range			4000x1250mm			
X axis(longitudinal) control and precision			Encoder ±2mm			
Y axis(transversal) control and precision			Servo ±0.03mm			
Z axis(depth of cut) control and precision			servo±0.03mm			
Power of X axes motor			4KW			
Power of Y axes motor			1KW			
Power of Z axes motor			1KW			
Max. speed of X axis			60m/min			
Max. speed of Y axis			6m/min			
Max. thrust force of X axis			350kg			
Compressed air			0.4Mpa-0.6Mpa			
Control system H6D			HAST Taiwang			
Servo motor			DELTA Taiwang			
Linear guide way			HIWING Taiwang			
Pneumatic components			AIRTAC Germany			
Cooling system			Beiqier Germany			
Com	munication cable		IGUS Germany			
Features of BC05K V groove machine products list						
	Model	Overall dimension				
1	1250X3200	4800x2200x2100mm				
2	1250x4000	5600x2200x2100mm				
3	1250x5000	6600x2200x2100mm				
4	1250x6000	7600x2200x2100mm				
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GBC V grooving machine



the GBC V grooving machine GBC-1250x4000 is a kind of latest development equipment, it adopt the steel wire as its transmission system. It instead of the gear, rack and pinion and ball screw, to realize flexible drive. It completely avoid the vibration cased by the rigid connection of rack and pinion. And significantly improve the roughness of groove surface and product quality as well.

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GBC- 1250X5000 CNC sheet metal V grooving machine

1250X6000

Over	all dimension	5600x2300x2100				
Proc	essing range	4000x1250mm				
X ax	is(longitudinal) control and pred	cision Encoder ±2mm				
Y axi	is(transversal) control and pred	cision Servo ±0.03mm				
Z axi	is(depth of cut) control and pred	cision servo±0.03mm				
Powe	er of X axes motor	4KW				
Powe	er of Y axes motor	1KW				
Powe	er of Z axes motor	1KW				
Max.	speed of X axis	60m/min				
Max.	speed of Y axis	6m/min				
Max.	thrust force of X axis	350kg				
Com	pressed air	0.4Mpa-0.6Mpa				
Cont	rol system H6D	HAST Taiwang				
Serv	o motor	DELTA Taiwang				
Linea	ar guide way	HIWING Taiwang				
Pneu	umatic components	AIRTAC Germany				
Cool	ing system	Beiqier Germany				
Com	munication cable	IGUS Germany				
Features of GBC V groove machine products list						
	Model	Overall dimension				
1	1250X3200	4800x2200x2100mm				
2	1250x4000	5600x2200x2100mm				
3	1250x5000	6600x2200x2100mm				
4	1250x6000	7600x2200x2100mm				

SBC V grooving machine



The SBC V grooving machine is used to make a slotting on the sheet metal to get the sharp edge angle after bending , the machine adopt precision ball screw and linear guide way as its transmission, and has high machining accuracy, so it is particularly significant for high class-products. This structure is universally used on relevant equipment in foreign countries.

the Grooving machine is subject to three axis controlling. Its axis X(longitudinal movement of knife rack), axis Y((transversal movement of rear feeding unit) and axis Z(vertical movement of knife rack) are all subject to servo control, it can realize full automatic machining after parameter are set up to improving the accuracy of groove.

the transport ball screw is multiple-thread structure with precise machining. It is character with many force bearing point, reasonable stress distribution and reliable drive.

clamping system adopt the hydraulic system to drive, large pressure, reliable fastening force. Lowe noise and small energy consumption.

the rear feeding unit is driven by double screw structure and its surface has high positioning accuracy.

the guild way of knife rack is made of cast iron. it have abrasion resistance and have repair function to prolong the service life.

the NC program is reasonably designed and easy to learn to learn. the equipment can realize automatic machining after the parameters are input. there are multiple interlocking safeguard measure for safe operation.

SBC- 1250X5000 CNC sheet metal V grooving machine 1250X6000

reclinical date						
The Max. width of the slotting pl	1250mm					
The Max. length of the slotting p	4000mm					
The Max. thickness of slotting pl	3mm					
The Min. thickness of slotting pla	0.6mm					
The Max. distance of rear feeding	1200mm					
The Min. unit of front& bac feeding unit	0.01mm					
The Max. speed of rear feeding u	800-2000mm/min					
The Max. distance of up& dow rack	100mm					
The Min. unit of up& down mov	0.01mm					
The Max. distance of left& rig	4300mm					
The Max. speed of moving for ki	60mm/min					
Straightness error in 4000mm lor	± 0.10 mm					
The positioning accuracy	± 0.05 mm					
Control system H6D	HAST Taiwang					
Servo motor	DELTA Taiwang					
Linear guide way	HIWING Taiwang					
Pneumatic components	AIRTAC Germany					
Features of GBC V groove machine products list						
Model	Overall dimension					
1 1250X3200	4800x2200x2100mm					
2 1250x4000	5600x2200x2100mm					
3 1250x5000	1250x5000 6600x2200x2100mm					
4 1250x6000	1250x6000 7600x2200x2100mm					