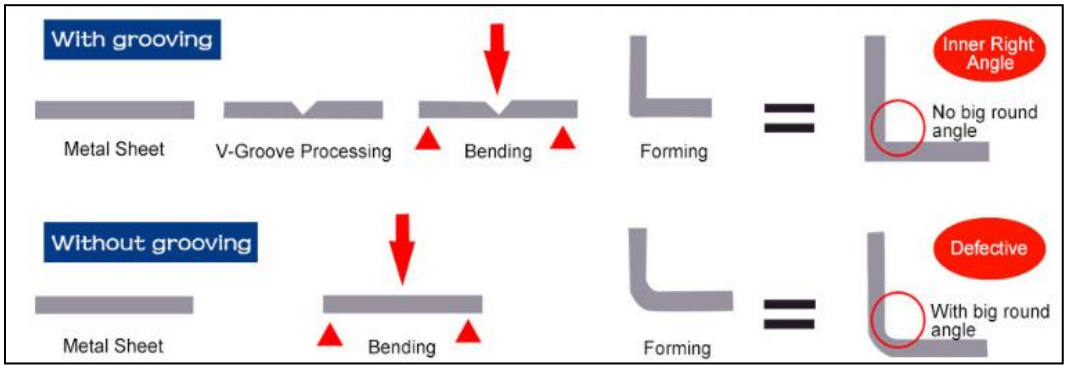
CNC HORIZONTAL V-Grooving Machine
MODEL : RGEK-1500x4000



MACHINE DESCRIPTION:

CNC V Grooving Machine is used to V-Cut, Groove or slots the Stainless Steel before the bending. Bending metal using V-grooving allows it to be folded to a tight radius or sharp corner. It is widely used in stainless steel decoration, elevator, security doors and other steel fabrication industries.

WORKING PRINCIPLE:

The metal plate is fixed and the metal material on the movement track is cut off by using the mechanical movement of the V Grooved Blade to form a process V groove. The size of the bending angle is related to the dept of the V-Groove. The smaller the bending angle the larger value of V-Groove depth that needs to be grooved.

TECHNICAL PARAMETERS:

CNC HORIZONTAL V-GROOVING MACHINE		
MODEL		**: RGEK-1500 x 4000**
BRAND NAME		**: "SMART CNC "**
Width of grooving		**: 1500mm**
Length of grooving		**: 4000mm**
Thickness of grooving (Stainless steel)		: 0.5-5mm
Min. thickness of plate		: 0.5mm
Min. side distance		: 6-8mm
X axis workingspeed		: 70m/min
X axis returnspeed		: 80m/min
Y1 axis maxdistance		: 1500mm
Y1 axis movespeed		: 20m/min
Y1 axis resolution		: 0.001mm
Repeat positioning accuracy		: ±0.01mm
Z axis resolution		: 0.001mm
Motor Power	**X axis**	**: 5.5KW**
	Y1.Y2. Z axis	**: 1KW**
Machine size (L x W x H)		: 6230 x 2480 x 1560mm
Weight		**: 8600 kgs**
BRAND NEW		**: CHINA**

MACHINE CONFIGURATIONS:

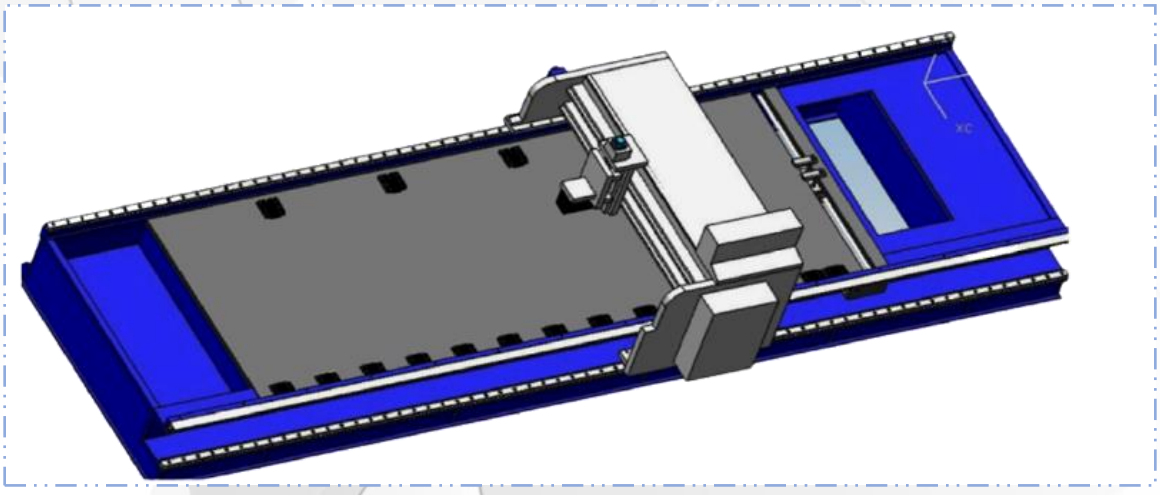
NAME	BRAND
CNC System	HUST,Taiwan/Japan
Hydraulic system	Taiwan famous brand
Frequency converter	Mitsubishi,Japan
Servo Motor	Mitsubishi,Japan
Seal Ring	Valqua, Japan
Motor	Sew,Germany
Air switch	Schneider
Contactor	Schneider
Breaker and button	Schneider
Relay	Schneider
Blades	Korloy, Korea
Linear guide	HIWIN,TAIWAN
Wire	IGUS, Germany

MACHINE FEATURES:

1. Frame Construction- machine frame with 20mm thickness ASTM A572 Gr 50 steel, and working table with 60mm thickness low alloy steel.

2. Stress relived to whole welded machine frame.
3. Machine frame processed one time by processing center to keep the parallelism and perpendicularity of installing surface.
4. Surface blasting with better painting appearance.
5. Cross beam type feeding and cutting with low noise.
6. Double guide rails structure with stable moving.
7. X axis with work feeding control.
8. Universal cutter clamp mounting face; White steel cutter & alloy cutter are exchangeable.
9. Hydraulically clamping sheet metal and hold-down force is adjustable.
10. High precision guide system, position measuring and hydraulic balance function without scratching on sheet surface as possible.
11. With accumulator on hydraulic system.
12. Processing V slotting by 4 cutters to reduce the sheet deformation.
13. Cross beam with tin-bronze inclined gear, forged helical rake and mute guide rail to keep the stable cutting.
14. Cross beam transferring speed adjusted by frequency converter.
15. Mute ball screw and heavy loading linear guide on transfer device of knife beam with high precision.
16. Longitudinal and transverse processing is available, including up and down processing of sheet metal.
17. Easy operating by inputting processing steps on keyboard.
18. Processing steps can be known by screen.
19. With servo motor and sensor to ensure the safety of operator.
20. Fault alarm and diagnose
21. Working table self-healing function by self-digging to keep the processing precision.
22. Reliable electrical components.

WORKING TABLE



Control System (Hust Japan/Taiwan)

Servo Motor (Mitsubishi Japan)

Ballscrew and Linear Guide(HIWIN TAIWAN)

Blades(Korloy Korea)

SAMPLE WORKPIECE