

CNC VERTICAL V-GROOVING MACHINE with DOUBLE HEAD MODEL : SMART-V-1500 x 4000



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 VERTICAL V-GROOVING MACHINE WITH DOUBLE HEAD

MODEL		: SMARTV-1500 x 4000
BRAND NAME		: "SMART CNC"
Width of grooving		: 1500mm
Length of grooving		: 4000mm
Thickness of grooving (Stainless steel)		: 0.3-6mm
Min. thickness of plate		: 0.5mm
Min. side distance		: 8mm
X axis workingspeed		: 70m/min
X axis return speed		: 85m/min
Z axis max clure (back-gauge)		: 1250mm
Y1 axis resolution (Blades head)		: 0.001mm
Repeat positioning accuracy		: ±0.01mm
Motor Power	X axis	: 4.5KW
	Y, Z axis	: 1KW
Machine size (L x W x H)		: 5900 x 2400 x 2110mm
Weight		: 12000 kgs
BRAND NEW		: CHINA

MACHINE CONFIGURATIONS:

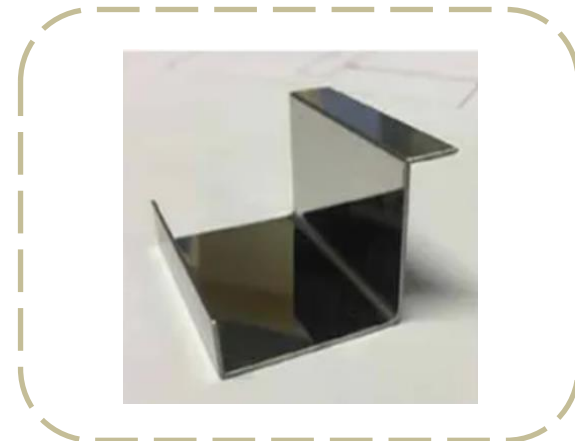
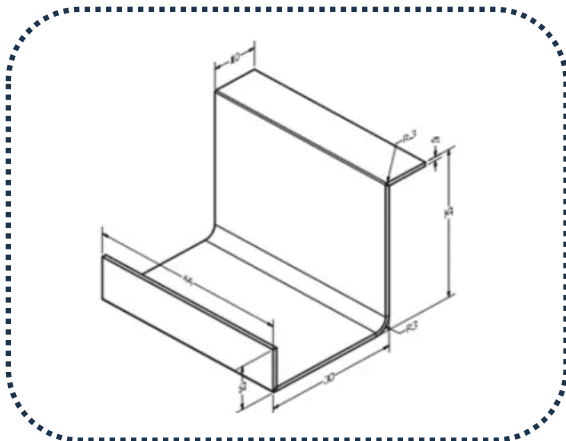
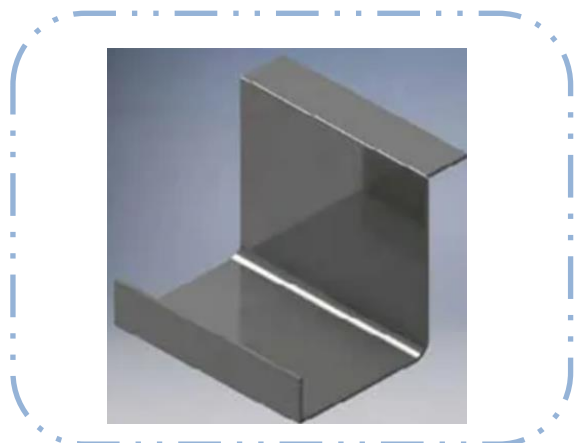
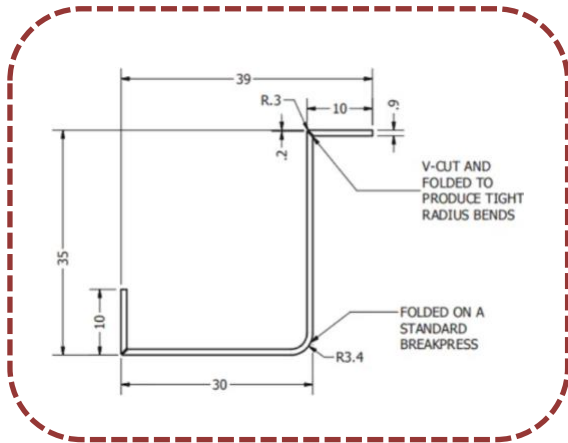
NAME	BRAND
CNC System	HUST,Taiwan/Japan ABEL (15inch touch screen)
Hydraulic system (Valve and Pump)	YUKEN, Japan
Frequency converter	INVT, Germany
Servo Motor	EASY-CUT, Taiwan (Optional Mitsubishi, Japan)
Seal Ring	Valqua, Japan
Bearing	NSK, Japan
Air switch	Schneider
Contactor	Schneider
Breaker and button	Schneider
Relay	Schneider
Blades	Korloy, Korea
Linear guide	TBI, TAIWAN
Wire	IGUS, Germany
Automatic Lubrication System (Optional)	USA VERSA
Cooling Blades (Optional)	USA VERSA
4 pcs Front supporter	CHINA

MACHINE FEATURES:

1. It is the upgraded machine based on SmartV Series.
2. With ball screw as powered driving component with higher precision, especially for high-end products.
3. Hydraulic hold sheet metal with large and reliable holding forces as well as low noise and energy consumption.
4. Frame type structure connected with high-strength bolt.
5. The stress of working table relieved by electrical boiler with high rigidity and low deformation.
6. Working table is made of carbon tool steel with HRC 55-60 degree hardness and $\leq \pm 0.03\text{mm}$ flatness to absolutely solve the low V slot precision problem due to deformed table.
7. Fixed cross-beam, and sheet metal feeder in by back feeding device.
8. With front and back supporter on working table to avoid scratching during processing.
9. Easy CNC operating system with interlocking protection. The machine will automatically produce by inputting parameters.
10. International standardized electrical components.
11. With fan cooler in electrical cabinet.
12. Remote monitor and control CNC system.

CREATING PRECISE, SHARP ANGLES AND FOLDS WITH V-GROOVING MACHINERY

Bending metal using a V-Grooving machines allows it to be folded to a tight radius, or sharp corner. This enables folded metal to mimic solid bar material at around a tenth of the cost and also avoids wastage. V-Grooved profiles look just like solid bar material but are light in weight and easier to transport and install. We can V-groove and fold up to 4-meter lengths of material and thickness from 0.8mm to 6mm.



MACHINE PHOTOS FOR REFERENCE.



V-GROOVING MACHINE APPLICATION



Outdoor
Outdoor Wall
Panel



**Hotel and
resort**
Wall Panel



Airport
Interior Metal
Decorative



School
Building



Park
Fence, Screen
Panels



Private Villa
Ceiling, Fence
Screen



Mall
Outdoor & Indoor
Decorative



Balcony
Metal Railing



**Commercial
Building**
Building External
Wall

CONFIGURATION



Control System
(Hust Japan/Taiwan)



Servo Motor
(Mitsubishin Japan)

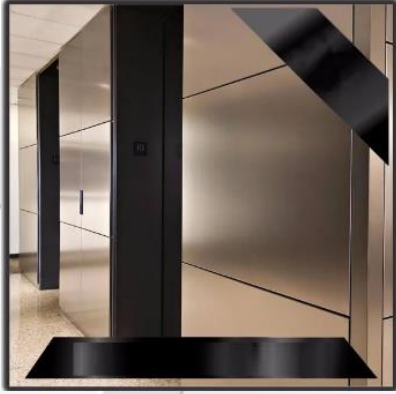


Blades (Korloy Korea)



Ball screw and Linear
(HIWIN TAIWAN)

V-GROOVING PRODUCT SHOW



Metal Façade Wall Cladding



Hotel Restaurant Detailing,
High-end Decoration



Elevator Interiors



Metal Façade, Interior Metal

Machine Video : <https://www.youtube.com/watch?v=V3GNmu9D8IY>