

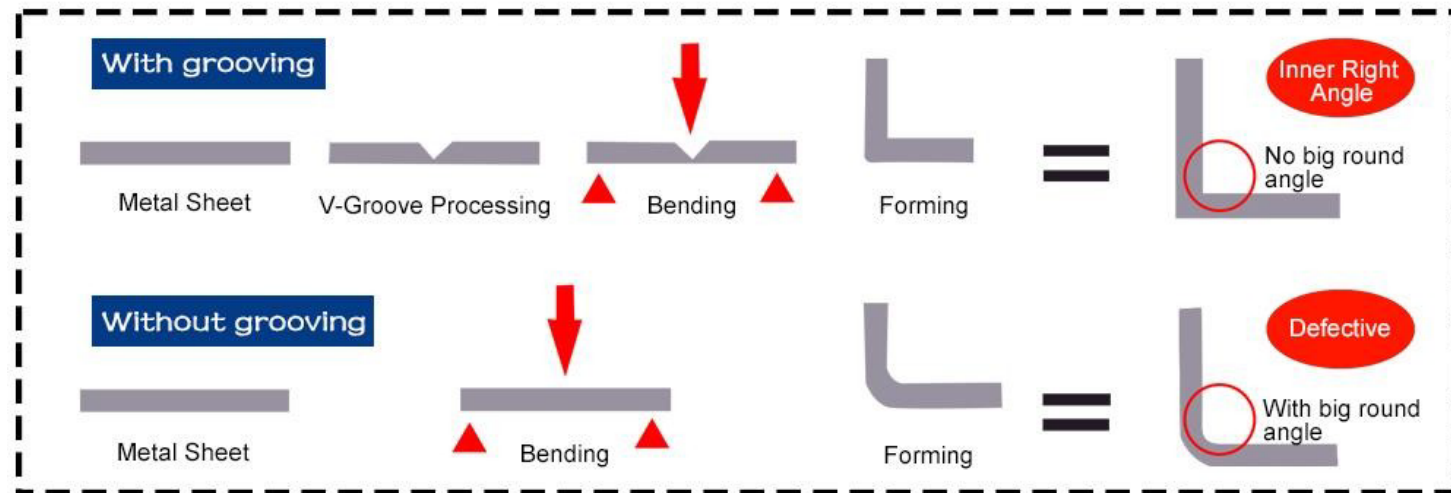
HSKC-4012 Horizontal Metal Sheet CNC V-Grooving Machine



1. Main features

- HSKC Horizontal CNC V-Grooving machine's frame and beam are designed with frame structure. The overall rigidity of the machine is good and durable.
- Strictly in accordance with the machine tool processing technology, using electric furnace tempering, eliminating welding stress and reducing equipment deformation.
- The metal sheet is fixed by hydraulic clamping system, which has high slotting speed and ensures Strong clamping force. The hydraulic system has accumulator compensation and servo motors can save energy and decrease oil temperature.
- The HSKC Horizontal CNC V-Grooving machine uses four knives to make the "V" groove, so the cutting result will be uniform and the deformation of the workpiece will be reduced. The optional micro-cooling system can extend the tool life and reduce production costs.
- This machine can work both vertically and horizontally, also can work on both front and back side of the metal sheet.
- Working speed can be adjusted according to the material and operator.

2. Why we choose V-grooving machine

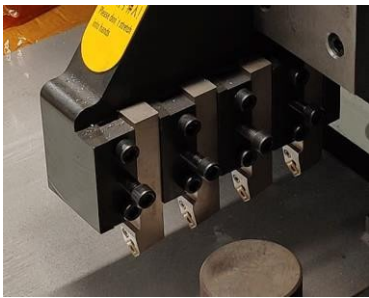
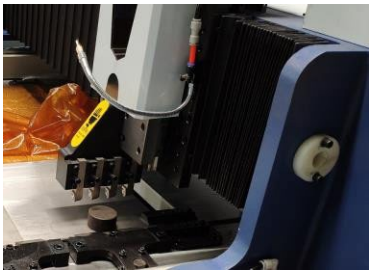



3. Technical parameters

| No. | Model | | HSKC-4012 |
|-----|---------------------|---|---|
| 1. | Machining Capacity | Material | STS304&Q235 |
| | | Length | 4000mm |
| | | Width | 1250mm |
| | | Thickness | 0.6mm-4mm (Sheet Flatness<3mm) |
| | | Minimum edge | 8mm |
| 2. | CNC Specifications | Control Type | 4-axis CNC control(X, Y1、 Y2、 Z) |
| | | Display | 15 inches HD LCD color screen |
| | | Memory Capacity | 99 groups,9999channels/group (additional SD card extension) |
| | | Working System | Ball screw/linear guide/rack and pinion |
| 3. | Machining Speed | Forward-Cutting | 90m/min (Variable Frequency Conversion) |
| | | Backward | 90m/min |
| | | Tool Holder (Y1 axis) and End Pressure Material (Y2 axis) | 20m/min |
| | | Z-Axis UP-Down | 20m/min |
| 4. | Machining Precision | Y1 Precision | 0.01mm |
| | | Y1 Stoke | 1250mm |

| | | | |
|----|-----------------|-----------------------|---------------------------|
| | | Z Precision | 0.01mm |
| | | Z Stroke | 50mm |
| 5. | Driving Mode | X-Axis | 5.5KW SEW Converter Motor |
| | | Z-Axis | 1KW Yaskawa Servo Motor |
| | | Y1&Y2 | 1KW Yaskawa Servo Motor |
| 6. | Clamping Device | Pneumatic | 0.3-0.6Mpa |
| 7. | Dimensions | Length | 6100mm |
| | | Width | 2300mm |
| | | Height | 1560mm |
| | | Weight | 7000kg |
| 8. | Table Flatness | $\pm 0.02\text{mm/M}$ | |

9. Machine Details

| | | | |
|----|-----------------------------------|--|--|
| 1. | 4 knives for processing "V" slots |  | Will get better result and reduce the deformation |
| 2. | Tool holder transfer device |  | Knife carrier feeding device with SFSR silent ball screw and QR roller heavy-duty linear guide can get high slotting accuracy. |
| 3. | Pressing plate |  | Pressing the sheet during grooving process |

| | | | |
|----|-----------|--|--|
| 4. | Worktable |  | The worktable has the self-grooving function which can groove the worktable surface to get better accuracy |
|----|-----------|--|--|

10. Main configurations

| No. | Name | Brand |
|-----|----------------------|--------------------|
| 1. | CNC system | TP10 Touch Screen |
| 3. | Frequency Converter | MITSUBISHI |
| 4. | Servo Motor | MITSUBISHI |
| 5. | Oil Cylinder Sealing | Japan NOK |
| 6. | Limit Switch | Japan OMRON |
| 7. | Main Motor | SIEMENS |
| 8. | Electric Components | France Schneider |
| 9. | Alloy Blade | South Korea KORLOY |
| 10. | Linear Guide Rail | Taiwan HIWIN |

11. Final Processing

