BUSBAR CNC
BUSBAR MACHINERY CORPORATION

# CNC Busbar Punching Shearing Machine

*HQ600–SP Series*

数控母线冲剪机

## Functions

Processing copper and aluminum busbars involves cutting, punching, chamfering, and (including round, square, irregular holes, and slots).

## Features

- This machine specializes in processing copper and aluminum busbars for high and low voltage systems, offering high efficiency, low energy consumption, precision, ease of use, and a modern design.
- This machine features unique processing principles, a patented hydraulic cylinder system, and a daily capacity of several tons, making it the top choice for busbar processing.
- It allows single clamping for long busbars, automating punching and shearing without manual intervention through automatic clamp switching. Optional 7/8–punch and 1–shear inline die sets; embossing available.
- Cutting dies is a single pole type hedge Scissor, no waste after shearing.
- The machine comprises a feeding table, mould base, conveying system, servo control unit, and assistant design
- system, delivering stable and reliable performance.
- Featuring a user–friendly interface and the self–developed LT busbar processing design system, it provides real–time monitoring of program operations.
- The mould base, made of ductile iron, offers excellent wear resistance, ensuring long–term Concentricity of punching molds.

模具库
Mold Library

拉料夹钳
Pulling Clamp

移动缸伺服系统
Moving Cylinder Servo System

## Technical Parameters

| 型号 Model | | HQ400–SP | HQ600–SP |
|---|---|---|---|
| Nominal Pressure | | 400KN | 600KN |
| Maximum Processing Size | | 12×160mm | 15×200mm |
| Punching Range | | Φ4.3–25mm | Φ4.3–35mm |
| Maximum Number of Molds | | ☐ 8punch 1shear ☐ 7punch +1emboss 1shear | ☐ 8punch 1shear ☐ 7punch +1emboss 1shear |
| Parameter Comparison | X–Axis Max Travel | 2000mm | 2000mm |
| | X–Axis Positioning Speed | 60m/min | 75m/min |
| | Y–Axis Max Travel | 860mm | 960mm |
| | Y–Axis Positioning Speed | 35m/min | 35m/min |
| | Z–Axis Max Travel | 200mm | 310mm |
| | Z–Axis Positioning Speed | 35m/min | 35m/min |
| | Punching Accuracy | ±0.2mm | ±0.2mm |
| | Positioning Accuracy | 0.10/500mm | 0.10/500mm |
| | Punching Speed | 100 times/min | 120–150 times/min |
| | Number of Control Axes | 6 Axis | 6 Axis |
| Machine Dimensions (L x W x H) | | 10500mm×2750mm×1700mm | 10500mm×2900mm×1800mm |

## Optional Accessories

| | | |
|---|---|---|
| Main Motor | Juli | ABB |
| Hydraulic Pump | Taiwan Hydromax | American Albert |
| Solenoid Valve | Taiwan Litand | German Rexroth |
| Guides/Screws | HIWIN / TBI/PMI | HIWIN / TBI/PMI |
| Servo System | Estun | Inovance |
| Industrial Computer | Taiwan PanelMaster(Touch Scteen) | Beijing Qiyang |

## Random Accessories

8 sets of punching dies, 1 shear blade, 1 set of maintenance tools, and manuals with certificates included.