# HPP130/32/32

Panel Cutter, type HPP 130

Automatic panel saw for chip-free dimensionally accurate cut-to-size of laminated and raw wood-based panels and other panels with similar cutting characteristics like wood-based panels.
Control panel and angular fence on the right-hand side.

## 1. Highlights

+ HOLZMA patent: 'Central side aligner'
+ Manual adjustment of the scoring saw
+ Program fence speed: 60 m/min
+ Saw carriage speed: 1 - 60 m/min
+ Main saw motor 5,5 kW
+ CADmatic control with 2-D moving graphics
+ 19 inch TFT flat display
+ TeleServiceNet Soft - remote diagnostics via the Internet
  - fast, powerful remote maintenance access via the Internet. Errors can be diagnosed quickly and the saw can also be controlled remotely, if necessary.

- Information on the link:
  > data exchange via a secure VPN connection (VirtualPrivateNetwork)
  > requires Internet access via LAN

2. Rear machine table

Single or books of panels are positioned at the rear machine table equipped with high-quality roller rails.

Advantage:
+ Gentle material handling for panels with sensitive surfaces!

3. Program fence

The Holzma program fence serves together with the solid clamps for the perfect program-controlled positioning of books of panels over the cutting line.

Advantage:
+ Solid H-girder lateral guide -> lifetime accurate positioning!
+ Rack and pinion drive -> no lubrication required!
+ Non-contact electro-magnetic measuring system:
  - Positioning accuracy +/- 0,2 mm/m!
  - No wear!
  - No maintenance!
  - Measuring is completely independent of driving system!
+ Short, solid clamps:
  - No negative leverage effects!
  - Material is pressed up against the back of the clamp -> no slipping!
+ Active HOLZMA safety system -> no disturbing safety fence required!

4. Machine bed (saw body)

The machine bed of the saw body is equipped with wear-resistant, extensive phenolic resin panels with the corresponding gaps for clamps.

Advantage:

+ No routing of machine table -> maximum stability of steel table retains!
+ Easy, low-cost replacement of phenolic resin panels if worn out!

5. Pressure beam

Perfect clamping of boards on the machine table.

Advantage:
+ Rack and pinion guided pressure beam on both sides:
  - Same contact pressure over entire area!
  - No tilting (parallel balance) -> no damage to material!
+ Pressure beam with gaps for clamps:
  - Minimal trimming = dust cut -> yield optimization!
+ Optimal extraction capacity due to minimal opening of pressure beam:
  - Emission values far below those stipulated by government safety organisation!

6. Saw carriage with integrated side aligner

The saw carriage is designed in solid, rigid steel construction, equipped with main and scoring saw as well as the patented 'central side aligner'.

Advantage:
+ Solid steel saw carriage body:
  - Lifetime resistance to deformation!
  - Cutting direction towards angular fence -> no slipping of panels!
+ Counterbalanced saw carriage:
  - Minimal wear of V-guide rollers!
  - No counterholding rollers are required!
+ Rack and pinion drive:
  - No lubrication required!
  - No vibration buildup/accurate positioning = top cutting quality!
+ 10 years warranty for the guiding rods of the saw carriage (1-shift-operation)!
+ Optimized changing of saw blades by 'Power-Loc'!

+ HOLZMA patent: 'Central side aligner':
  - Reduces cycle time about 25 % compared with conventional systems!
  - Alignment of stripes is possible over entire cutting length!
  - Contact pressure is electrically adjustable
    -> thin and sensitive panels can be pressed automatically!

## 7. Power control: CADmatic 4 - Basic -

Latest control system, specially designed for industrial environments.

### a) Hardware

+ PLC control according to international norm IEC61131.
+ operating system: Windows 7
+ TFT flat display: 19 inch.
+ DVD drive.
+ USB port.

### b) Software

+ Complete cutting sequence illustrated by moving graphics (2-D)
+ Network compatible.
+ High-tech error diagnosis by true photos and video clips for immediate identification of the source of the problem.

### Technical Data

| | | |
|---|---|---|
| Saw blade projection | | 60 mm |
| Saw carriage speed | forward | 1 - 60 m/min |
| | reverse | 60 m/min |
| Program fence speed | forward | 60 m/min |
| | reverse | 60 m/min |

(in EC-countries forward = 25 m/min)

| | |
|---|---|
| Side pressure device | |
| min. aligning width | 0 mm |
| max. aligning width | complete cutting length |

| | |
|---|---|
| Main saw motor | 5,5 kW |
| Voltage | 400 V (+10%/-5%) / 50 cycles |

Electric connected load for main saw motor:
5,5 kW = 10,0 kW

| | |
|---|---|
| Working height | 920 mm |
| Main saw blade | 300 x 4,4 x 60 mm |
| Scoring saw blade | 150 x 4,5 - 5,5 x 45 mm |
| Air pressure required | 6 bar |
| Total air requirements | 150 NL/min |
| V min. velocity at ducts | approx. 26 m/s |
| Negative pressure min. | 1200 Pa |
| Suction capacity | 2600 m³/h |
| Duct for channel connection | 1 pce 160 mm |
| Duct for pressure beam connection | 1 pce 100 mm |

Pneumatic shut-off valve at pressure beam
provided by customer, recommendable
Electric control of the valve provided for
in the wiring cabinet

| | |
|---|---|
| Operational temperature min. | + 5 degrees |
| Operational temperature max. | + 35 degrees |

A cooling unit (option no. 6750)
is required for higher and lower
temperatures as mentioned above.

Shop floor requirements:
- concrete grade C25/30
- concrete thickness min. 200 mm
- without covering layers (e. g. parquet, bitumen etc.)

Customer is responsible for grouting all the machine stands with non-shrink grouting material after assembly has been completed

Quality standards:
- CE certified, GS certified, BGI 739-1
- Positioning accuracy: +/- 0,1 mm/m (figures do not apply to the cut parts)