

Computer Beam Saw

Program-controlled panel sizing saw
for cutting stacks of flat panels

High-output panel sizing with program-controlled pusher positioning, 15 kW main saw and scoring saw unit — cuts complete stacks of boards up to 90 mm high over a 3100 × 3200 mm working area, with air-flotation tables for effortless handling of heavy panel packs.

MODEL HE 3200 S



HE 3200 S — computer beam saw with air-flotation front tables

/ Application & Use

The HE 3200 S is a computer-controlled beam saw for the sizing of panel materials in furniture and interior production. Complete stacks of boards up to 90 mm total height are cut in a single stroke over an effective working area of 3100 × 3200 mm, turning full-size panels into finished cutting lists with high output and repeatable accuracy.

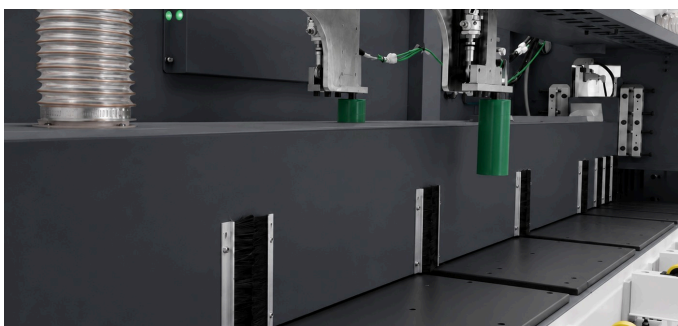
The program-controlled pusher positions the panel stack automatically for every cut, with feeding speeds of up to 90 m/min and saw carriage return of up to 110 m/min for short cycle times. The main saw is driven by a 15 kW motor, while a separate 2.2 kW scoring saw pre-cuts the bottom face for chip-free edges on coated and laminated boards.

/ Key Features

- **Single-stroke stack cutting** — up to 90 mm cutting height with a 400 × 60 mm main blade for high output per shift.
- **Scoring saw unit** (200 × 45 mm blade, 2.2 kW) for clean, chip-free cuts on melamine-faced and laminated panels.
- **Program-controlled pusher with gripper clamps** positions the stack automatically to the programmed cutting dimensions.
- **Air-flotation tables** with transfer castors — heavy panel packs are moved and aligned by a single operator.
- **Pneumatic pressure beam** clamps the stack firmly across the full cutting width during every cut.
- **Computer control station** with display for cutting programs and machine operation.



Front view — air-flotation tables, pressure beam and control station



Pressure beam with sealing brushes and clamping section

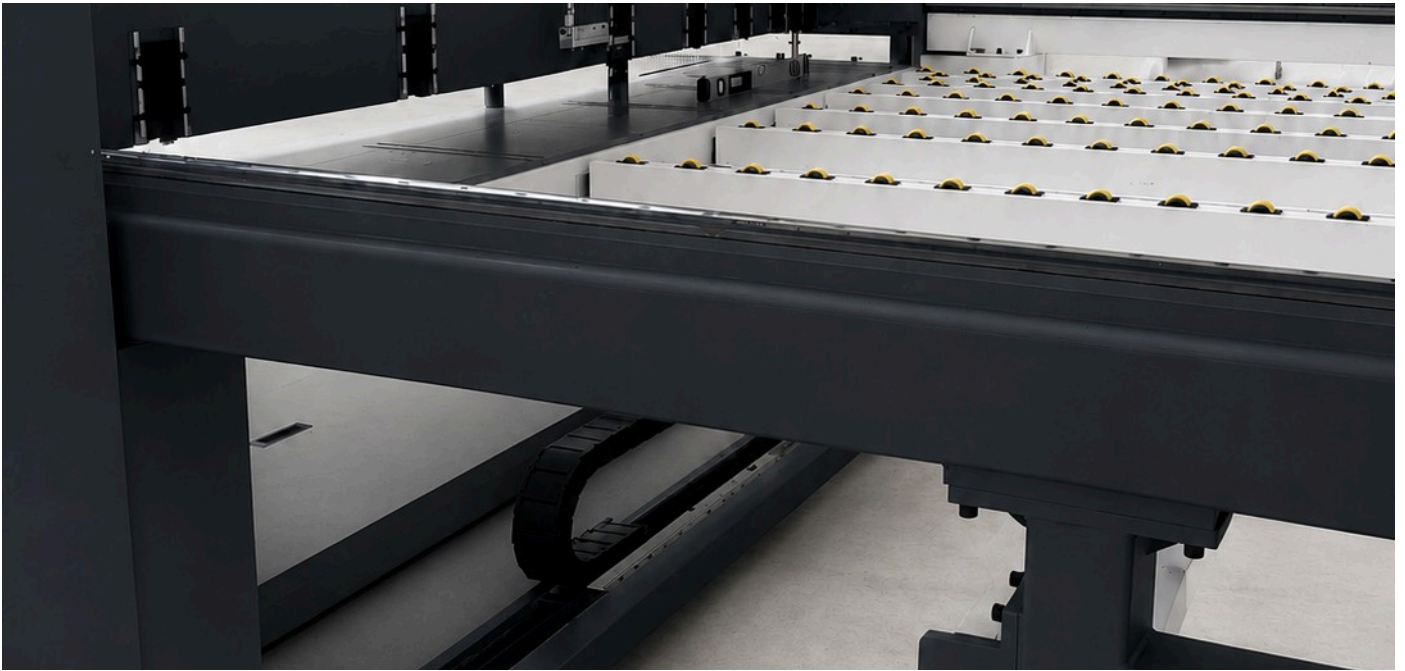


Pneumatic gripper clamps of the pusher beam

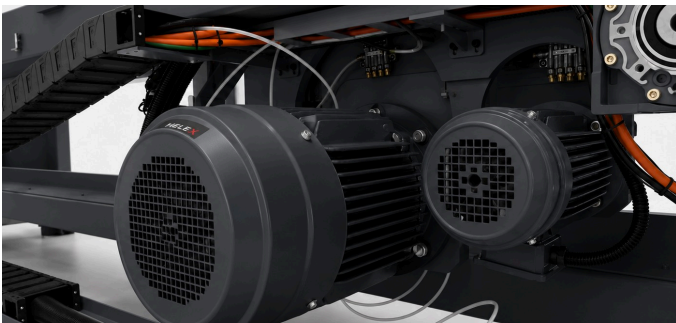
/ Structure and Configuration

- 1 Machine body and saw carriage.** Heavy welded steel frame with precision guides; the saw carriage carries the 15 kW main saw (blade 400 × 60 mm) and the 2.2 kW scoring saw (blade 200 × 45 mm), cutting stacks up to 90 mm high with carriage return speed up to 110 m/min.
- 2 Program-controlled pusher.** Motor-driven pusher beam with pneumatic gripper clamps positions the panel stack to the programmed dimension at up to 90 m/min feeding speed, for accurate and repeatable rip and cross cuts.
- 3 Working tables.** Rear machine table with transfer castors and air-flotation front tables over the 3100 × 3200 mm working area — heavy panel packs slide easily into position and against the side alignment.
- 4 Pressure beam.** Pneumatically operated pressure beam clamps the complete stack across the full cutting width before every stroke, preventing panel movement and ensuring clean cut edges.
- 5 Control system.** Computer control station with display and push-button panel for entering and running cutting programs; electrical system 380 V, 3-phase, 50 Hz, total installed power 28 kW.
- 6 Dust extraction and pneumatics.** Two 5.5 kW double-bag dust collectors for the main and scoring saw; compressed air supply $\geq 6.5 \text{ kgf/cm}^2$ for the pressure beam, grippers and clamping functions.

Motor-driven axes with electrical speed control; pusher positioning and saw cycle controlled by the machine program. Equipment control, safety protection and marking implemented in accordance with the general safety rules for woodworking machine tools.



Rear view — machine table with transfer castors and pusher drive



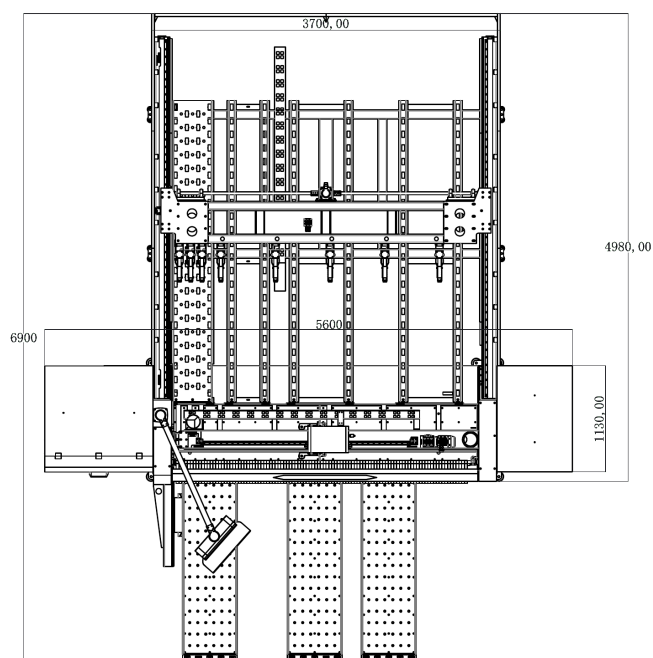
Saw carriage drive motors — main and scoring saw



Pusher gripper clamps and transfer castor tracks

/ Technical Data

Model	HE 3200 S
Type	Computer beam saw — program-controlled panel sizing saw
Effective working area	3100 × 3200 mm
Max. cutting thickness	90 mm
Main saw blade	400 × 60 mm
Scoring saw blade	200 × 45 mm
Main saw motor	15 kW
Scoring saw motor	2.2 kW
Max. feeding speed	90 m/min
Max. saw carriage return speed	110 m/min
Dust collectors	2 × 5.5 kW double-bag
Compressed air	≥ 6.5 kgf/cm ²
Power supply	AC 380 V, 3-phase, 50 Hz
Total installed power	28 kW
Overall dimensions (L×W×H)	6600 × 7000 × 2000 mm
Weight	approx. 6000 kg



Layout diagram — general assembly drawing, overall dimensions in mm



Electrical cabinet — servo drives, PLC and switchgear

Supplier

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