FIMAL · CONCEPT ELITE 350 / 450

Fimal Concept Elite beam saw

Supplier: PROMACH

Beam saw in two versions: Concept Elite 350, with a Ø 300–350 mm blade tilting up to 46°, and Concept Elite 450, with a fixed Ø 400–450 mm blade for cuts up to 150 mm. Cutting lengths from 2600 to 4200 mm, full-length pressure beam and electronic Multi-Stop positioning system.



Fimal Concept Elite

2600–4200 mm	100 / 150 mm	0–46°	4–40 m/min
CUTTING LENGTH	CUTTING HEIGHT, 350 / 450	BLADE TILT, ELITE 350	SAW CARRIAGE SPEED

/ APPLICATIONS

- Sizing panels in cutting lengths up to 4200 mm
- Tilted cuts up to 46° (Elite 350)
- Cuts in thick materials up to 150 mm (Elite 450)
- Cutting stacked panels positioned by the Multi-Stop system

/ MATERIALS

- Panels, including thin panels held by the full-length pressure beam
- Thick materials up to 150 mm (Elite 450)

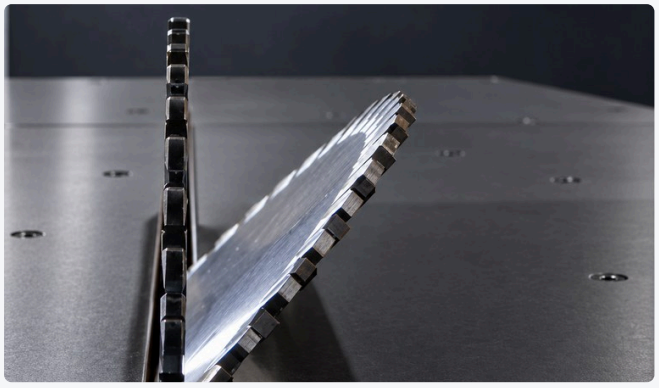
/ MAIN FEATURES

1. Steel supporting frame machined on a CNC machine in a single setup, for flatness and squareness
2. Full-length pressure beam operated by two pneumatic cylinders; extraction connections on the top side, with metal pipes
3. Pneumatic lifting of the blade and the scoring unit; blade body on prismatic guides with recirculating ball bearings
4. Elite 350: Ø 300–350 mm blade, electronic tilt 0–46° with decimal digital display
5. Elite 450: fixed Ø 400–450 mm blade, cuts up to 150 mm
6. Electronic Multi-Stop positioning system: 4 retractable tilting stops, opening 1300 mm, stop height 39 mm
7. Telescopic squaring fence up to 2500 mm with two mechanical flip stops
8. Mobile control pedestal: 250 programmes, up to 3 axes, three-position selector, hold-to-run cycle start
9. Anodised aluminium worktables; saw carriage speed 4–40 m/min, 5.5 kW main motor

/ OPTIONS

- 10" capacitive touch screen with Windows 10 software, up to 4 axes, remote assistance
- Electronic lifting of the blade and scoring unit by ball screw
- Multi-Stop opening 2100 mm; squaring fence 3400 mm, with digital displays or motorised (4th axis)
- Removable table for angled cuts ±50° with fence extension up to 2400 mm
- Positioning laser; office PC cutting optimisation software; label printer

/ DETAILS



Main saw blade tilted under the pressure beam (Elite 350, up to 46°)



Rear view of the Fimal Concept Elite with rear worktables and Multi-Stop stops

The electrical supply, the total installed power, the scoring unit data and the supplied configuration are confirmed in the technical quotation.

/ TECHNICAL DATA

Property	Value
Cutting length	2600 / 3200 / 3800 / 4200 mm (4250 mm with Ø 350 mm blade)
Main saw blade: maximum diameter / bore	Elite 350: Ø 300–350 / Ø 30 mm; Elite 450: Ø 400–450 / Ø 30 mm
Cutting height at 90° / 45°	Elite 350: 100 / 67 mm (Ø 350 mm blade), 75 / 45 mm (Ø 300 mm blade); Elite 450: 150 mm at 90° (fixed blade, no tilted cuts)
Main saw blade tilt	Elite 350: 0–46°, electronically controlled, decimal digital display; Elite 450: fixed blade (0°)
Main saw spindle speed	Elite 350: 4000 rpm; Elite 450: 1500–4300 rpm
Main motor power	5.5 kW (7.5 hp)
Scoring system	pneumatic lifting of the blade and the scoring unit; the blade body slides on prismatic guides with recirculating ball bearings; selector: cutting only, scoring and cutting, scoring only; optional: electronic lifting of the blade and scoring unit by ball screw
Saw carriage feed speed	4–40 m/min, adjustable via inverter from a potentiometer
Pressure beam	full cutting length, operated by two pneumatic cylinders
Panel positioning system	electronic Multi-Stop positioning system with 4 retractable tilting stops; total centre distance 2000 mm; opening 1300 mm (2100 mm on request); stop height 39 mm for stacked panels; automatic retraction of the stops clears the rear table
Squaring fence	telescopic, up to 2500 mm (3400 mm on request), two mechanical flip stops; optional: digital displays or fully motorised (4th axis, max. opening 3600 mm) via touch screen; optional removable table for angled cuts ±50° with fence extension up to 2400 mm
Support tables	anodised aluminium worktables
Cutting line laser	optional: positioning laser projecting the cutting line onto the panel
Control system and programme memory	mobile control pedestal; memory for 250 programmes; up to 3 axes (Multi-Stop, blade tilt, optional blade projection); cycle start by hold-to-run control; optional: 10" capacitive touch screen with Windows 10 software, import of cutting patterns, up to 4 axes, remote assistance
Cutting optimisation and labelling	optional: office PC cutting optimisation software, data transfer by USB key (not included) or LAN port (optional), requires the 10" touch screen; optional label printer
Dust extraction connections	Ø 100–120 mm, both connections on the top side; metal pipes
Required extraction airflow / air velocity	1800 m³/h / 25 m/s
Compressed air requirements	7 bar / 95 l/h
Noise emission	LAeq 80.6–94.7 dB(A) (EN ISO 19085-2:2021)
Overall dimensions (L × W × H)	2600: 4020 x 3194 x 1664 mm; 3200: 4620 x 3194 x 1664 mm; 3800: 5220 x 3194 x 1664 mm; 4200: 5620 x 3194 x 1664 mm; width 3994 mm with Multi-Stop 2100
Net weight	2600: 1600 kg; 3200: 1900 kg; 3800: 2300 kg; 4200: 2650 kg

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Technical data may be updated without prior notice. Images are for illustration.