BEAM SAWS

Beam Saw with Electronically Controlled Pusher

Fimal KR 32 / KR 43

Beam saw for sizing panels and panel stacks: electronically controlled pusher with pneumatic grippers, separate scoring unit, automatic side aligner and 15-inch touch-screen PC control, in versions with 3200 or 4300 mm cutting length.

MODEL KR 32 / KR 43

3200 / 4300 mm	72 mm	7.5 kW	1–50 m/min
CUTTING LENGTH	CUTTING HEIGHT	MAIN SAW MOTOR	CARRIAGE SPEED



/ Application & Use

The Fimal KR 32 and KR 43 are electronic beam saws for sizing panels and panel stacks up to 72 mm high. The machine base is a closed ring structure that also carries the saw carriage, which runs on four prismatic guide rollers, two fixed and two self-centring, with opposed counter-pressure rollers along two hardened round guides near the blade.

The electronically controlled pusher is positioned using magnetic tape position measurement and holds the stack with floating, pivoting pneumatic grippers: five on the KR 32, six on the KR 43. An automatic side aligner squares the pieces for cross cuts. The industrial PC with 15-inch touch screen manages even complex cutting patterns automatically, coordinating the pusher, saw carriage and side aligner.

/ Key Features

- Cutting length 3200 mm (KR 32) or 4300 mm (KR 43)
- Cutting height 72 mm, main blade Ø 350 mm, main motor 7.5 kW, spindle 4000 rpm
- Separate scoring unit Ø 150 mm, motor 0.75 kW, spindle 8000 rpm
- Saw carriage on rack and pinion, 1–50 m/min forward, 50 m/min return
- Pusher depth 3300 mm, positioning speed 0.8–24 m/min
- Industrial PC with 15" touch screen, graphic simulation

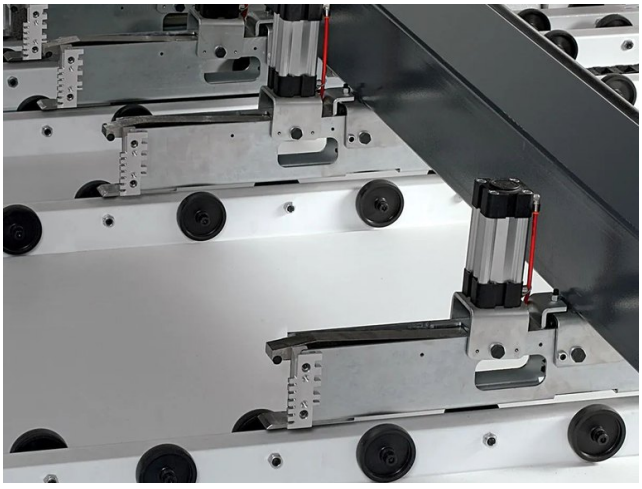
/ Standard Equipment

- Closed ring base structure carrying the saw carriage
- Electronically controlled pusher, magnetic tape position measurement
- 5 (KR 32) or 6 (KR 43) floating pneumatic grippers
- Automatic side aligner, rubber-coated roller, stroke 1250 mm
- Scoring adjustment from outside the machine, LED-lit windows
- 3 front tables, phenolic surface, 2 movable on wheels

/ Machine Details



KR 43 CONTROL PANEL WITH 15" TOUCH SCREEN AND FRONT TABLES



FLOATING PNEUMATIC GRIPPERS OF THE PUSHER

/ Technical Data

MODEL	KR 32 / KR 43
Type	**Beam saw with electronically controlled pusher**
Cutting length	**KR 32: 3200 mm; KR 43: 4300 mm**
Maximum cutting height	**72 mm at 90°**
Pressure beam	**yes**
Pusher depth (standard)	**3300 mm**
Pusher positioning speed	**0.8–24 m/min**
Main saw blade: diameter / bore / thickness	**Ø 350 / Ø 30 / 4.4 mm**
Main motor power	**7.5 kW**
Main saw spindle speed	**4000 rpm**
Scoring blade: diameter / bore / thickness	**Ø 150 / Ø 20 / 4.4–5.5 mm**
Scoring motor power / spindle speed	**0.75 kW / 8000 rpm**
Saw carriage speed forward / return	**1–50 / 50 m/min**
Side aligner stroke	**1250 mm**
Dust extraction connections	**1 x Ø 120 mm, 2 x Ø 100 mm**
Required extraction airflow	**2500 m³/h**
Average compressed air consumption	**85 Nl/min at 6 bar**

/ Versions

VERSION	CUTTING LENGTH	GRIPPERS	OVERALL DIMENSIONS (L × W × H), WITHOUT FRONT TABLES
KR 32	**3200 mm**	**5**	**5142 x 4627 x 1729 mm**
KR 43	**4300 mm**	**6**	**6242 x 4627 x 1729 mm**

/ Options on Request

- Main motor 10 kW; pusher depth 4300 mm
- Air-cushion tables; mitre-cutting table with ±60° adjustment
- Programmable blade projection for grooving and cut-outs
- Post-forming scoring unit Ø 230 mm
- Saw speed 2500–4500 rpm via frequency inverter; lubrication atomiser
- Extra gripper; grippers with comb-type stops
- Cutting optimisation software (135 or 500 parts/panel)
- Thermal transfer label printer for barcode labels
- Remote control
- KR 43: software for working on the right side

Specifications refer to the standard KR 32 and KR 43 configurations. With the 4300 mm pusher the machine depth is 5627 mm. The supplied configuration and included options are specified in the quotation. Technical data may be updated without prior notice. Images are for illustration.

SUPPLIER
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