

Heavy Duty, Efficient & Fully Optimised



## HIGH SPEED, PRECISE FRONT LOADING BEAMSAWS

- KS828D
- KS832D
- KS843D



**Heavy Duty, Efficient & Fully Optimised**



## KDT – an introduction...

KDT are a major manufacturer of panel-based machinery with over 20 years of technical knowledge and experience. They export successfully to all major world markets a comprehensive range of Edgebanders, Beamsaws, Panelsaws, Flow through production lines, CNC routing and Drilling machines. Annual production exceeds 19,000 machines

<https://www.youtube.com/watch?v=xogp9XiLNds&t=10s>

Click here and take a look...

***KDT machines are built to work hard and designed to last.***



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All features and other product specifications subject to change without notice

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**KDT KS Beamsaws - Size Panels the easy way**

**HIGH SPEED PRECISION FRONT LOADING BEAMSAW**



**Key**

**Performance Parameters:**

- The maximum height of the pack 95mm with 400mm blade
- 120mm.(with 450mm dia main blade)
- The movement of the saw carriage by means of a servomotor. Accuracy-Speed-Durability,
- The speed of the working stroke of the saw carriage is up to 1-95 m / min.
- The return speed of the saw carriage is up to 1-120 m / min.
- The speed of the programmable pusher is 95m / min.
- The programmable pusher is equipped with Pneumatic double-finger grippers.
- The working table of the machine with air cushion to avoid panel scratching
- Automatic blade and Beam height setting to match stack height for improved cut quality
- Grooving function
- User friendly familiar PC control format



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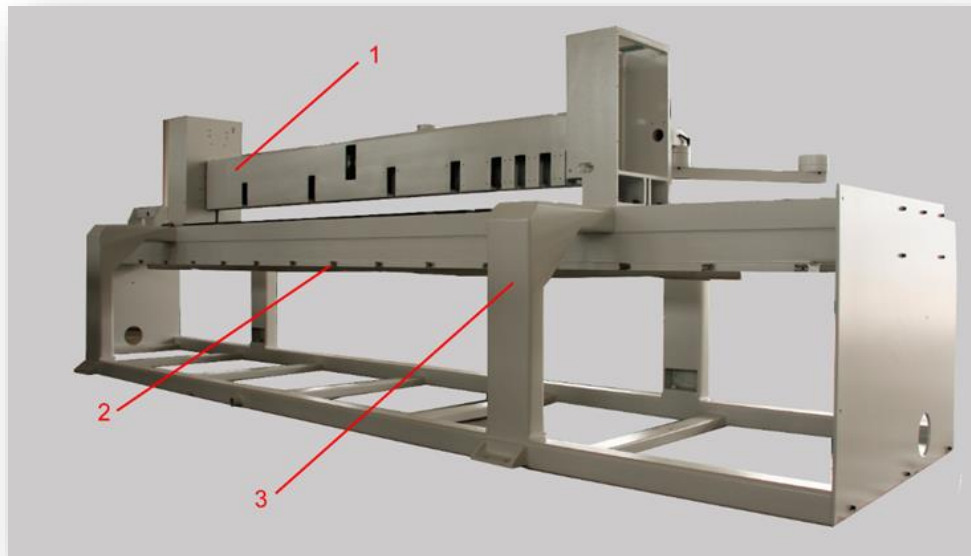
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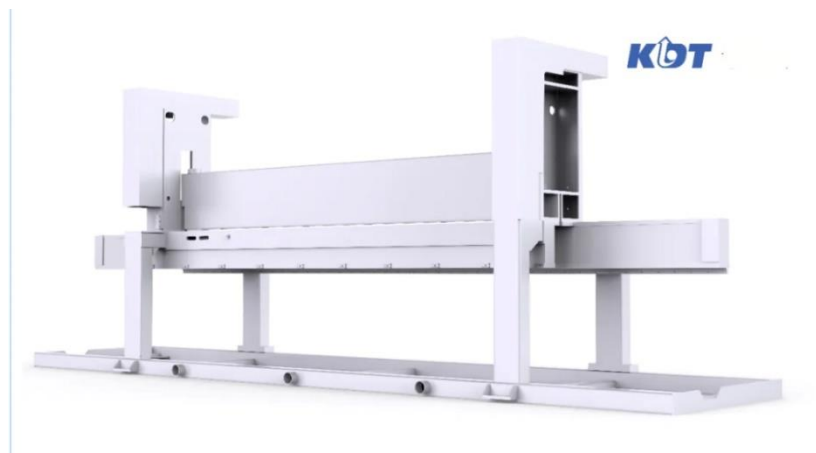
### A better work platform

CAD machine bed design with the maximum loads and requirements calculated and modelled

The welded frame is tempered to remove all internal stresses then machined on a five-axis CNC – including all mounting holes and plates



- 1 Heavy steel construction of top pressure beam with integrated dust extraction
- 2 Precision machining of mounting pads for large diameter guide rails ensure perfectly straight and smooth carriage travel.
- 3 Massive heavy-duty steel frame guarantees accuracy and precision.



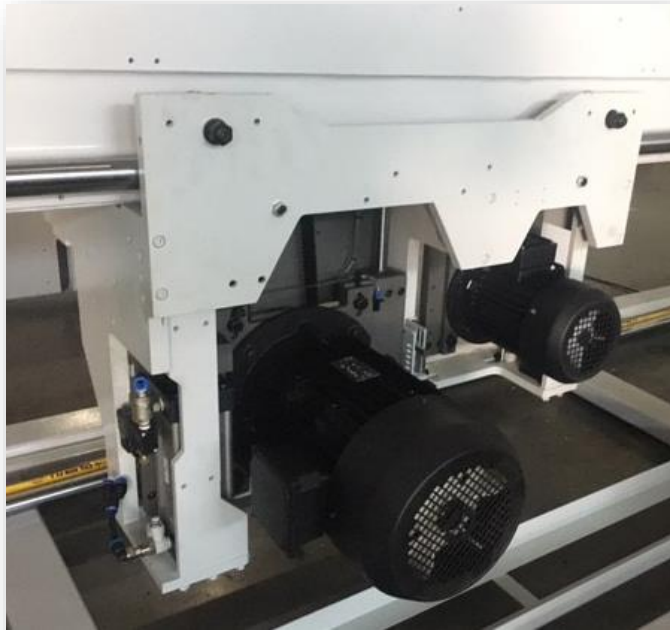
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## **A better Saw unit too**

High precision over an extended working life.

High precision parallel rods with oversize guide rollers



**Quick change blade lock / unlock is included** – another KDT time saver



**18.5 kw main**

**2.2 kw scorer**

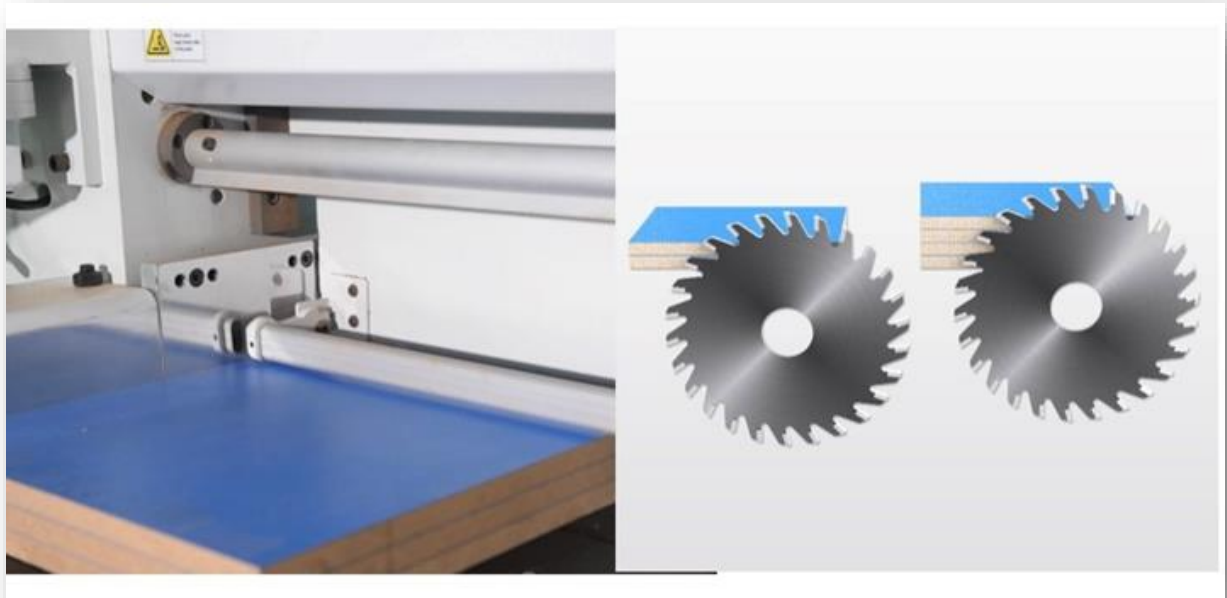
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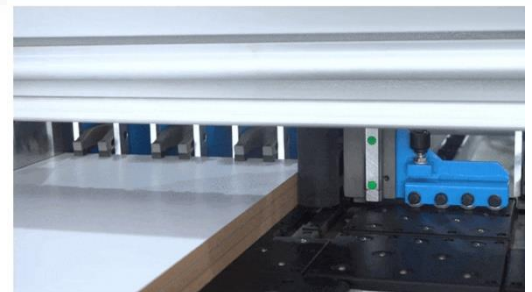
### Fully Optimised work cycle saves time (30%)

Automatic cut height projection – to improve cut quality

Auto pressure beam height setting to match panel book height – saves cycle time

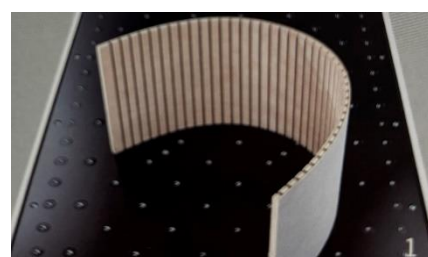
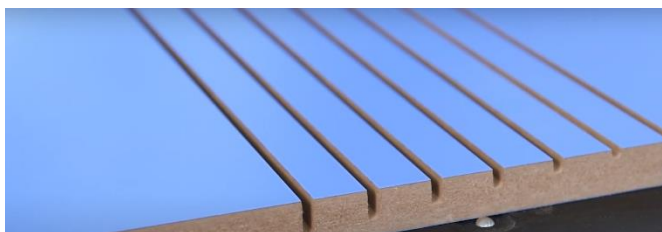


Auto saw carriage travel / pre-positioning to match panel length – saving more cycle time



### Grooving function

Programmed spacing and depth of Grooves



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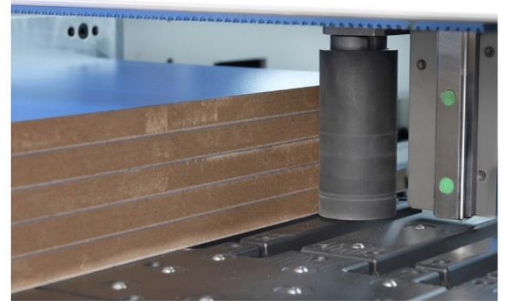
*Scorer height and lateral setting from the PC.*

## Fast and accurate side alignment

Dual side aligner movement is by rack and pinion and linear guide for maximum strength and accuracy, pressing panels against crosscut fence on both sides of pressure beam.

Side aligner pre-positions to optimise cycle at a fast 24m/min

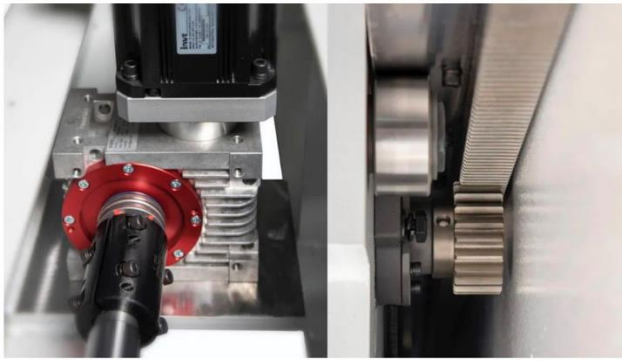
- Heavy laser cut steel build for greater accuracy and precision.
- Soft rubber guide rollers eliminate panel edge damage.
- Side aligner travels on precision linear slide ways for years of trouble free service whilst providing the greatest accuracy.
- Oversize THK guides



**Saw carriage and Pusher travel by servomotor.**



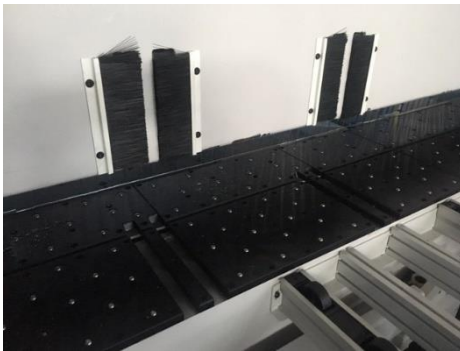
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Heat treated precision rack and large diameter pinion drive for the saw carriage.  
Powerful 2 kw SERVO drive ensures fast, precise saw movement and positioning.

## No scratching of delicate Panels

Air cushion in the work area eliminates scratching of sensitive Panels.



**4.3kw powerful air blowers**

***Steel for durability along the cutline.***



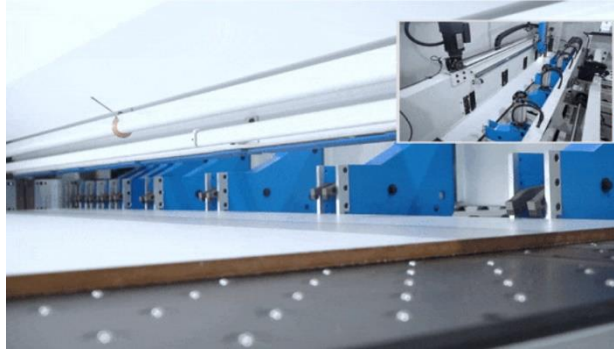
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### Powerful parallel double finger grippers

Powerful air cylinders provide maximum gripping force.

Rubber tips will not damage panels while ensuring maximum grip on the panel surface.



Heavy duty cast aluminium gripper construction: years of trouble-free service.

Powerful grippers to guarantee panels will not move.

8 on 2800 model

10 on 3200 and 4300mm models

Precise pusher positioning via contact free Magnetic Strip reader



### Safe and easy

Quick start bar at operator fingertips. Easy to reach machine Start /Stop and Emergency stop.

Auto beam lift if obstruction encountered



Pressure beam stays up in an unexpected power cut . Interlocks on blade covers. Top quality CE compliant Electrics and Electronics used throughout

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## User friendly WINDOWS working environment

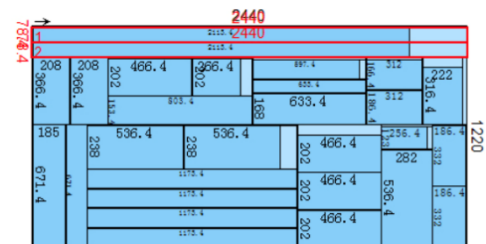
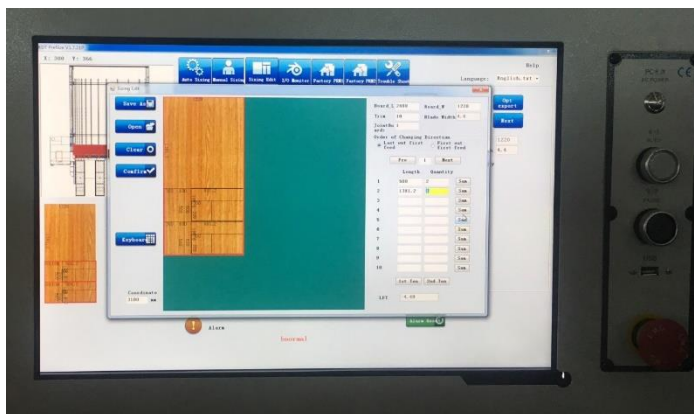
Standard PC keyboard and mouse. Windows based Industrial PC controller. Graphic display showing each stage of the cutting process. Connect to office network for easy downloading of cutting lists from the KDT PreCut Optimization' software.



PreCut includes: Label printing formatting and output for Printer (Printer not included)

Import Cut lists from Excel for Optimisation.

## Choice of Optimisation levels and Parameter mix.



Large 'user friendly' 19" screen

*Clear and modern graphic interface*



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### Key Specifications

- Industrial PC controlled with 19" colour screen LCD monitor, graphic user interface with optimizing software.
- 18.5kw main saw motor. Quick blade change system
- 2.2kw Scoring saw motor with manual saw adjustment.
- Powerful 2kw rack and pinion drive for saw carriage movement. Saw carriage running on precision round bars, rise and fall on round bars with linear bearings.
- Dual panel side aligners 90mm – 1300mm for fast accurate positioning.
- Automatic blade height setting adjusts according to the panel thickness for improved cutting quality.
- Three or Four air flotation support tables 1x fixed and rest movable with rollers for easier panel loading and to avoid scratching panels. The main table of the machine under the top pressure beam is fitted with air floatation to avoid panel scratching.
- 8 or 10 Dual finger Panel gripping clamps made from cast alloy with 120mm opening.
- Grippers positioned by precision Swiss made rack and pinion running on round guide, driven by a 2.2kw servo-motor and encoder.
- Latest Design heavy duty fabricated steel machine main frame, top pressure beam and side support tables to ensure accurate chip free cutting.
- Rear of machine guarded by enclosed safety fence 1.8 metres high with interlocking access door.

**KDT Machinery offers Outstanding value for a Return on Investment second to none!**



**SEE THE 832D in action...**

<https://youtu.be/jO5mVhQhkgw?si=e3n-xXMgfBoWtCDP>

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## Dimensions, Power and Weight



Maximum cutting length	2830,3180 and 4280mm
Maximum cut height 400 / 450mm blade	95 /120mm
Cutting speed	0.5-95m / min
Saw return speed	120m / min
Max gripper speed	0.5-95 m/min
Main saw	405/450mm
Scoring saw	200 mm
Main saw motor	18.5kw
Dust extraction volume recommendation	5279 cubic m /hour
Scoring saw motor	2.2kw
Saw carriage motor	2kw
Gripper servo-motor	2kw
3 or 4 Air floatation tables (2x movable)	
Required air pressure	7-8kg/cm <sup>2</sup>
Net weight	6000- 6860 kgs



# KDT

**KDT BEAMSAWS**

**The Easy way to  
size your Panels**

**LEDA**

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