

KDT KS843L. Heavy Duty, Efficient & Fully Optimised



Rear load

BEAMSAW

KS843L



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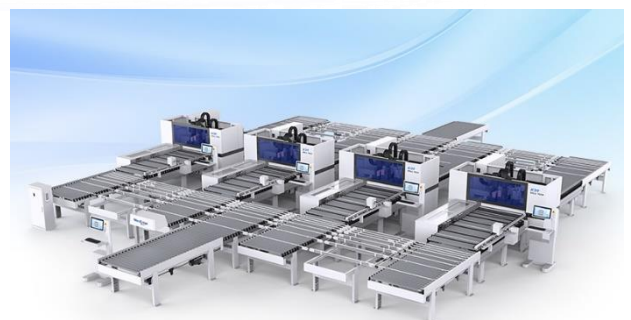
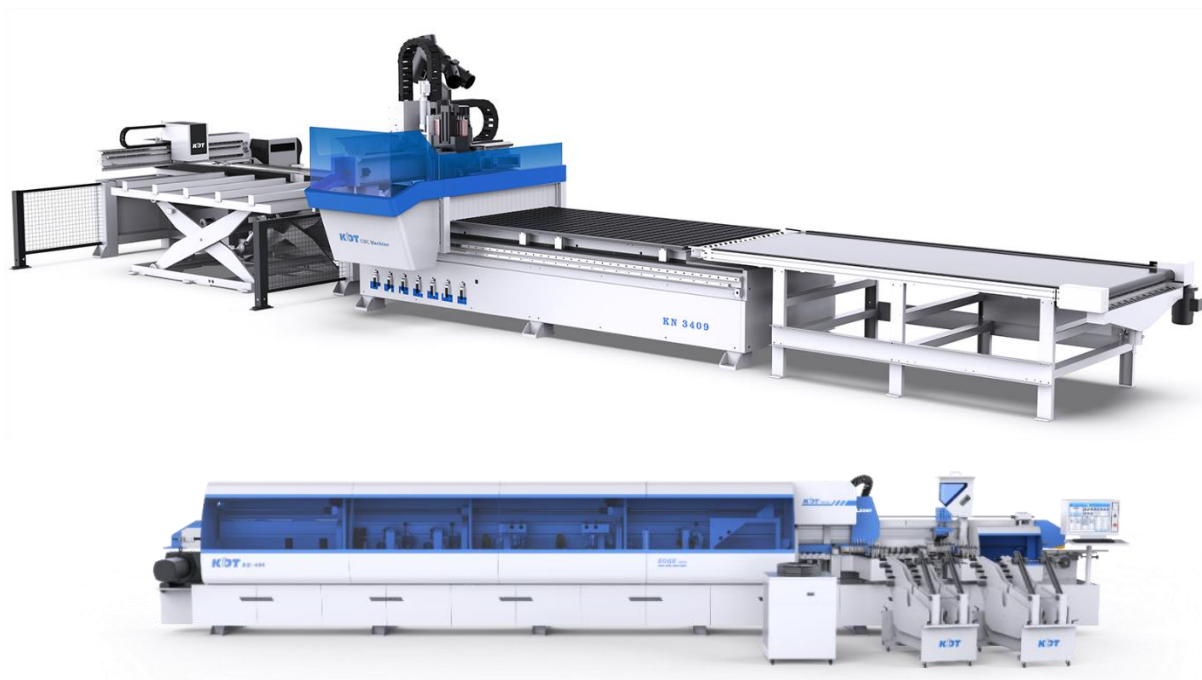
– an Introduction:

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.

Click here and take a look...

<https://www.youtube.com/watch?v=xoqp9XiLNds&t=10s>

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



HIGH SPEED & PRECISION REAR LOADING BEAMSAW



Key Performance Parameters:

- The maximum height of the pack is 120mm
- 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 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 12 pneumatic double-finger grippers.
- The working table of the machine is equipped with an air cushion
- Automatic blade height setting to match stack height for improved cut quality



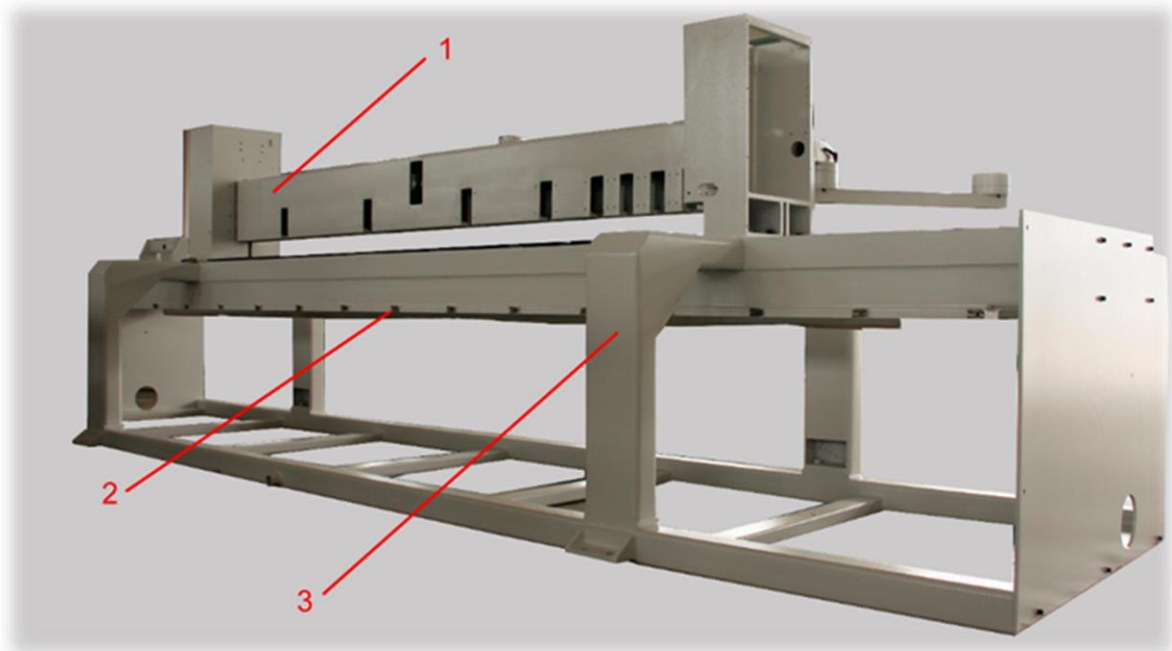
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A better work platform

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.

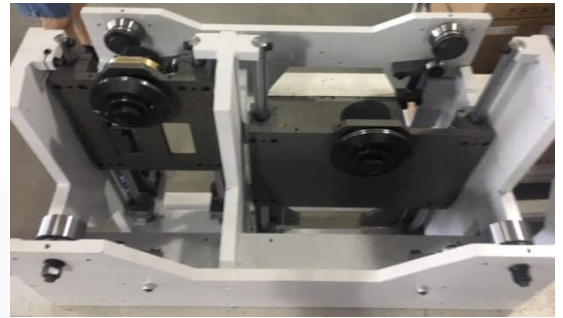
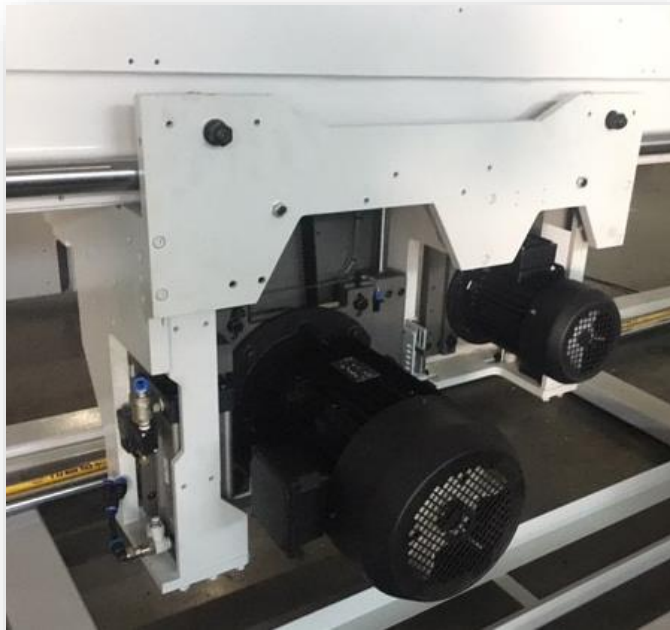
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A better Saw unit

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 with quick blade change.

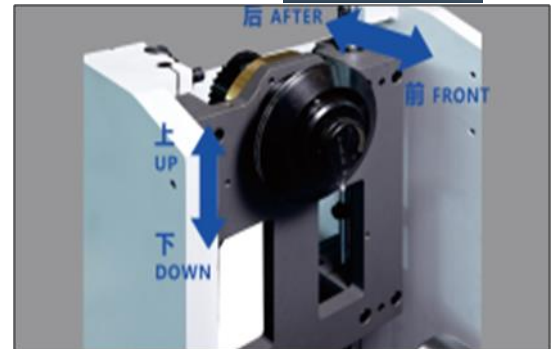
1.5kw scorer



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Electric height and sideways score positioning from the PC > a big time saver



Optimised work cycle saves time

Automatic cut height projection – to improve cut quality

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

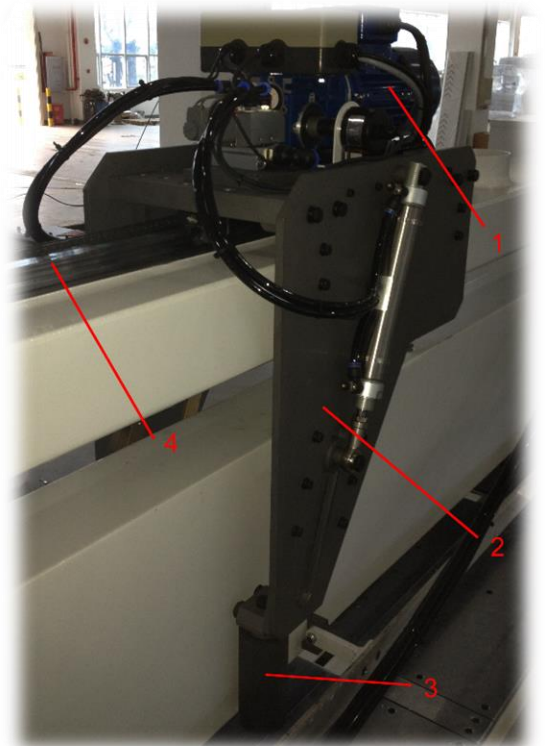
Auto saw carriage travel / pre-positioning to match panel length – saves cycle time



Fast and accurate side alignment

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

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



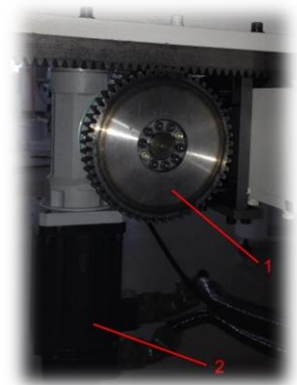
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Saw carriage travel by servomotor.

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

No scratching of delicate Panels

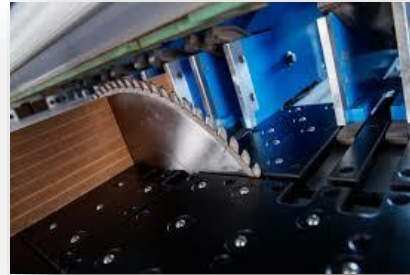
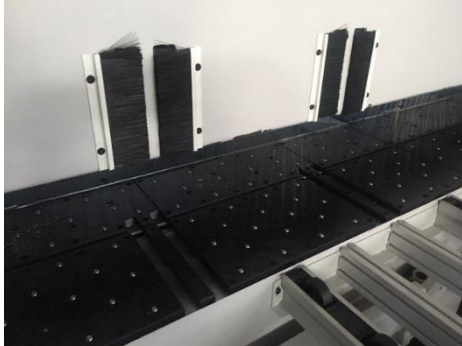


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Air cushion in the work area

eliminates scratching of sensitive Panels



Powerful parallel double finger grippers

Powerful air cylinders provide maximum gripping force.

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

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

12 Powerful grippers to guarantee panels will not move.

Precise pusher positioning via contact free Magnetic Strip reader



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Smooth and precise lifting

Hydraulic table lift -reliable and effective.

4000kg capacity 4000 x2100mm

Magnetic lift positioning measurement – handles sheets as thin as 8mm



Safe

Easy to reach machine Start /Stop and Emergency stop

Pressure beam stays up in an unexpected power cut . Interlocks on blade covers.

Top quality CE compliant Electrics and Electronics used throughout



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.

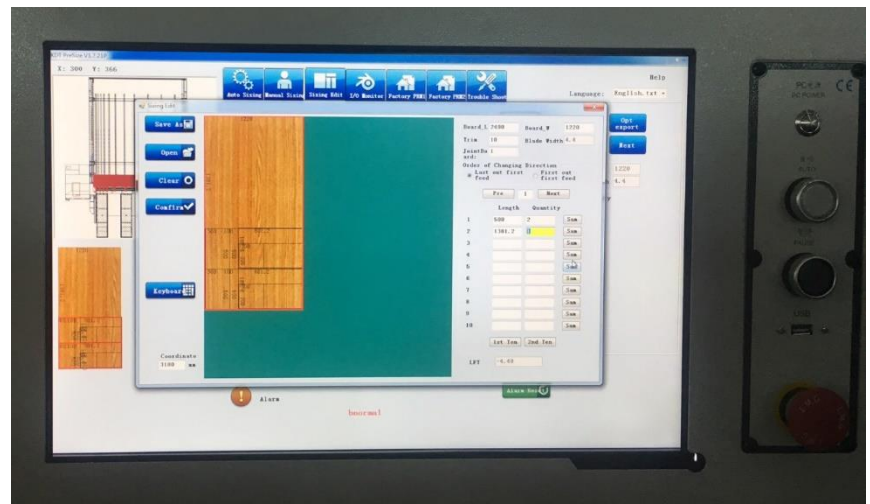


PreCut includes: Label printing formatting and output for Printer (Printer not included)

Import Cut lists from Excel for Optimisation.

Choice of Optimisation levels and Parameter mix.

Key Specifications



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- Industrial PC controlled with 19" colour screen LCD monitor, graphic user interface with optimizing software.
- 18.5kw main saw motor. Quick blade change system
- 1.5kw 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.
- Four air flotation support tables 1x fixed and 3x 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.
- 12x 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
- 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!



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Dimensions, Power and Weight

Maximum cutting length	4200mm
Maximum cut height	120mm
Cutting speed	0.5-95m / min
Saw return speed	120m / min
Maximum Pusher speed	95m/min
Main saw	450mm
Scoring saw	200 mm
Main saw motor	18.5kw
Dust extraction volume recommendation	5279 cubic m /hour
Scoring saw motor	1.5kw
Saw carriage motor	2kw
Gripper servo-motor	2kw
4x Air floatation tables (2x movable)	2067mm x540mm
Required air pressure	7-8kg/cm2
Weight of this machine	10960 kgs
Overall dimensions of machine (including rear safety fence around gripper area)	9735 x 6739 x 1890 mm



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KDT BEAMSAWS

The Easy way to size your Panels