



EDGEBANDER

KE268 JSA





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Compact yet comprehensive



– 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 capacity is 28,000 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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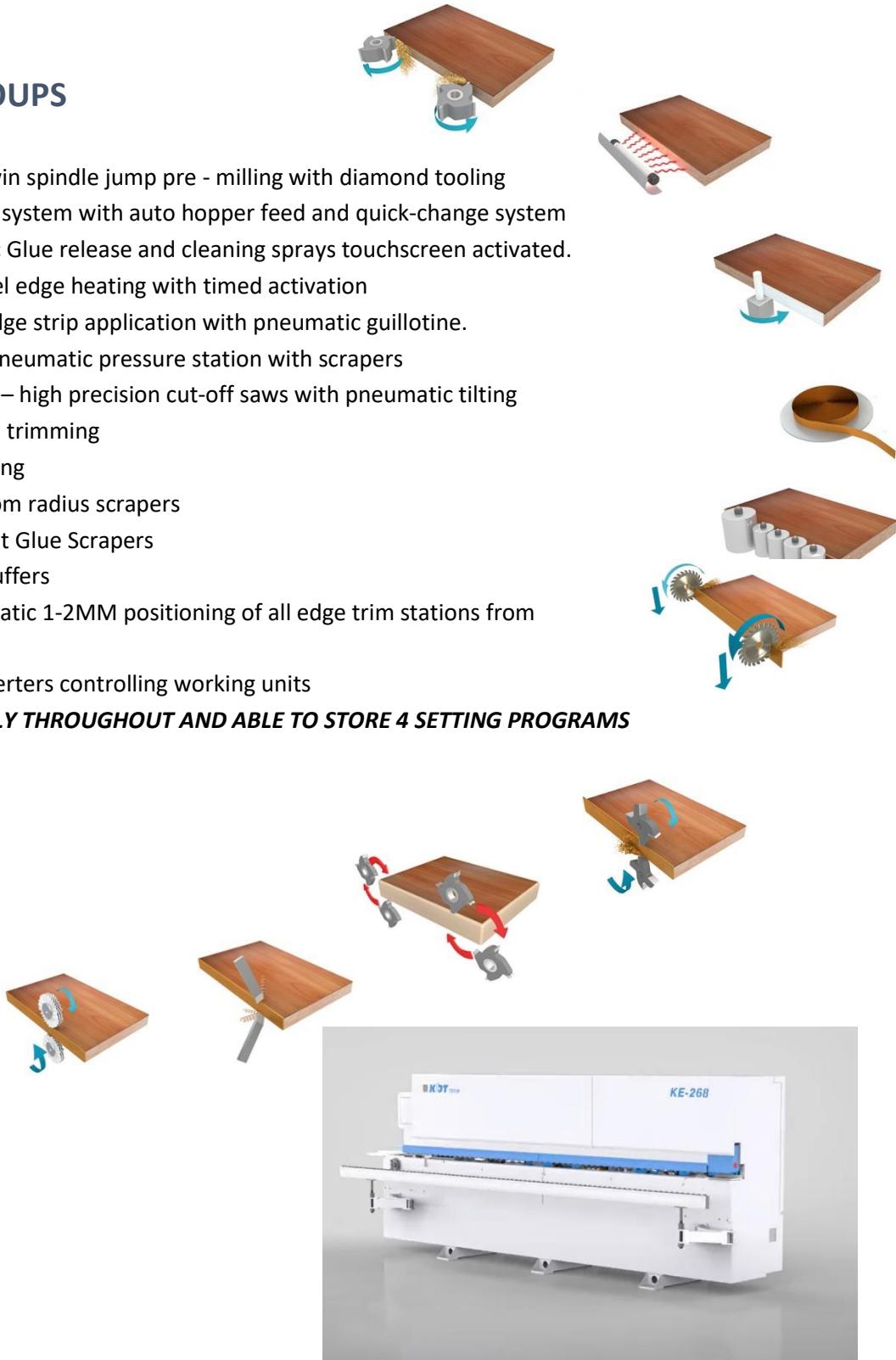


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Pre-milling, Corner rounding, Flat and radius scrapers and sprays

WORKING GROUPS

- Pneumatic Twin spindle jump pre - milling with diamond tooling
- Hot melt glue system with auto hopper feed and quick-change system
- 2 x Pneumatic Glue release and cleaning sprays touchscreen activated.
- Infra-red panel edge heating with timed activation
- Heavy duty edge strip application with pneumatic guillotine.
- Three-roller pneumatic pressure station with scrapers
- End trimming – high precision cut-off saws with pneumatic tilting
- Top & bottom trimming
- Corner rounding
- Top and bottom radius scrapers
- Pneumatic Flat Glue Scrapers
- Heavy duty buffers
- Digital pneumatic 1-2MM positioning of all edge trim stations from touchscreen
- Individual Inverters controlling working units
- **NEST FRIENDLY THROUGHOUT AND ABLE TO STORE 4 SETTING PROGRAMS**



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KEY FEATURES



- Full safety covers and CE standard configuration
- Convenient, modern 250mm touch screen
- Pneumatic digital set of trimmers and scrapers from touchscreen
- Lights inside safety hoods. Large windows for visibility. Edge and workpiece counting.
- Variable feed rates 8 to 12m/min in 1mm increments
- Electric / pneumatic auto lubrication of feed track. Easy!
- Feed jogging button to assist setting up.
- Infra-red panel edge heating
- Front and rear tape overhang adjustment from touch screen.
- Electronic 'line control' monitoring of workpiece position
- Large dust connections for efficient extraction.
- Three independent pressure rollers – Individual pneumatic pressure to each roller
- Pneumatic gate controls panel gap
- Touch screen motorized height setting on top beam
- Diamond cutterheads twin spindle pre-milling and diamond tooling on trimmers
- High precision slide ways on cut-off saws with auto lube.
- Efficient direct drive and inverter-controlled motors on saws and trimmers.
- Buffers mounted on solid round bars – no flex under load.
- Compact just – 4230mm
- Extra solid panel support rail easily extended

See it in action – click on the video link;



<https://www.youtube.com/watch?v=gu8fLOWhXCc>



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DESIGN IN DETAIL

Built in strength

Edgebanding relies on the rigidity of the machine frame and work unit mountings

- *A few examples:*

- Saws on cast iron mount
- 10mm plate steel welded base
- Thick hard chrome infeed fence
- CNC machining of one-piece frame
- Oversize Beam supports



The list goes on...



You're in control

KDT's 250mm touch screen sets new standards.
You're in total control - selecting functions, setting feed track speeds, controlling the corner rounding function, height of the feed beam, machine 'standby' etc.
Pre-program start up and shut down times.
Program lubrication settings

Tape used and Board count: another great feature

Ability to store and name 4 different work programs



Comprehensive diagnostics and fault-finding with reset methods and 'fix it' steps - often no Technician required.

Reset your trimming and scraping stations from the touchscreen with KDT's simple digital pneumatic system



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Individual Inverter control of Motors

Saves power and maintains cutter speeds under varying loads

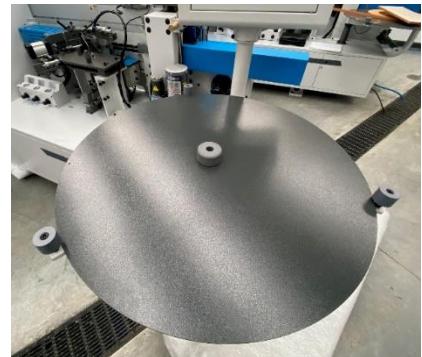
Top quality Electrics and Inverters.



Handle the heaviest tapes

A great example of KDT's strength.

800mm plate supported by robust 60mm column so the heaviest tape coils stay perfectly aligned with infeed guides and rotating smoothly

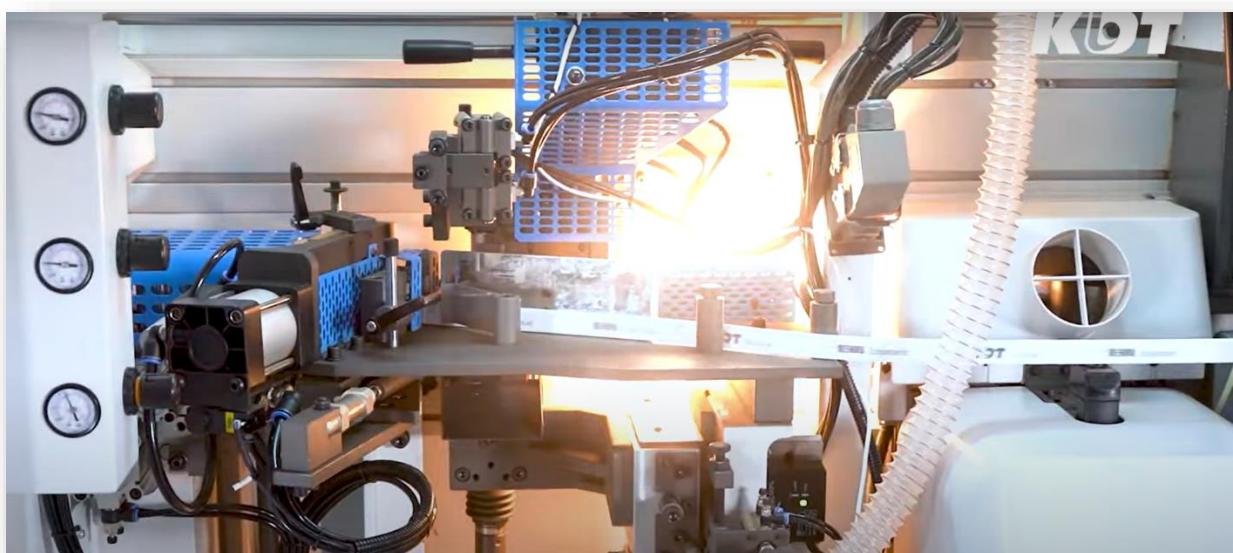


Infra-Red Edge Heating

Pumps heat into your Panel Edges on cold days

Improves Glue open time and bonding

Electronic timed activation



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Perfect tape feed and application

Perfect alignment and feed of tapes and strong application pressure is essential

KDT infeed guides and feed roller are mounted on twin 10mm steel plates followed by an oversized pneumatic guillotine that cleanly shears the heaviest tapes

3 pressure rollers with individual pneumatic pressure:
The hard chromed driven roller does the initial application. Two
Rollers are tapered – applying extra pressure top and bottom to
close-up the glue line for a magic result.
Individual scrapers keep the rollers clean

A sensor and warning light alerts the operator if tape runs out – handy!



Premilling > perfect edge

Perfect edges – without scorer lines, tapers, swelling or chipping

Jump Milling Head with opposite rotation eliminates break out on trailing edge of panels



KDT's premill is built right with
independent motors and pneumatics

Large Shear Angle Diamond Cutting
Heads 100mm by 62mm height
Precise digital Premill removal setting



Powerful twin 2KW direct drive
milling motors



Efficient twin 100mm Dust
extraction outlets

Air Blowers clean Panel prior to
Gluing.



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Panel feed: precise, reliable, foolproof

Simple reliable support and feeding ensures panels travel through the workstations perfectly aligned.

Starting with an oversize infeed plate and Pre-mill fence. Adjustment of the pre-milling allowance is digital, simple and precise via twin parallel THK slides – your guarantee of perfect alignment



A pneumatic pin prevents a second panel entering too soon.

Timing is varied automatically. Foolproof and better than a 'red - green light' which relies on the operator

The electronic 'line control' knows exactly the position of panels on the track – eliminates troublesome micro switch's and allows precise activation setting from the control panel.

This is a huge plus.



Onto the feed track....

Powerful 2.2 kw feed track drive



The feed track must ensure panels stay perfectly aligned through the machining groups.

Overhead feed rollers are mounted in a heavily ribbed aluminium top beam 170mm x 80mm. Oversize Beam supports ensure alignment without flexing under load. A clever tensioning system guarantees parallel alignment.



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Two rows of offset idle rollers keep even small panels under even roller pressure

Powered feed track height setting is effortless and accurate from the touchscreen. Feed track opens to 60mm

The feed track runs on square and round guides guarantee no sideways movement or tilt under load. Cast bearing housings and heavy chain feed ensure long service life



Automatic electric/pneumatic lubrication of the feed track via clean cartridge system ensures this important maintenance requirement is never forgotten.



Well supported

The panel support extends easily out to 950mm and won't sag supporting heavy panels.



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Clever automatic pre-melt glue system

Hi tech glue system with auto replenishment of the glue tank from overhead hopper which is auto refilled from a second hopper in the frame

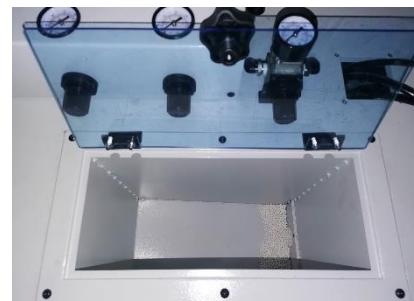
Within the machine frame there is a large 12.5 kg hopper from which by air flow, the granules are transported to the upper hopper

Automatic upper glue bath with glue pre-melt and automatic glue roller cleaning function. Glue is supplied in measured doses and does not overheat during machine downtime. The viewing window allows you to control the presence of glue.



Unique ejection function for auto cleaning of the glue roller

Upper glue hopper swings clear to provide access to the glue tank



Pre-melt system

Quick-change pre-melting unit, equipped with glue level monitor and auto glue refill system.



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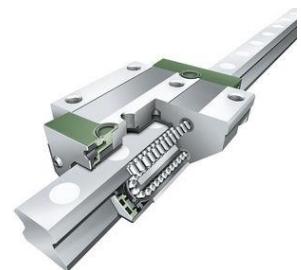
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End saw precision guaranteed



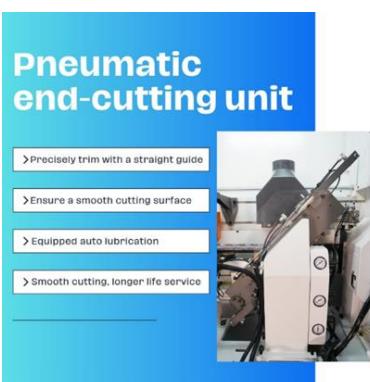
The saws are mounted on a cast iron base and single high precision THK guide for perfect alignment



Inverter controlled 12,000 rpm saw motors deliver clean trimming

Line control ensures the saws are in position to avoid ruining your panel or damaging the saw unit

Saws tilt to 2 and 15 degrees pneumatically – from the touchscreen to suit different tape thickness



Auto lubrication of the saw slides: a great feature



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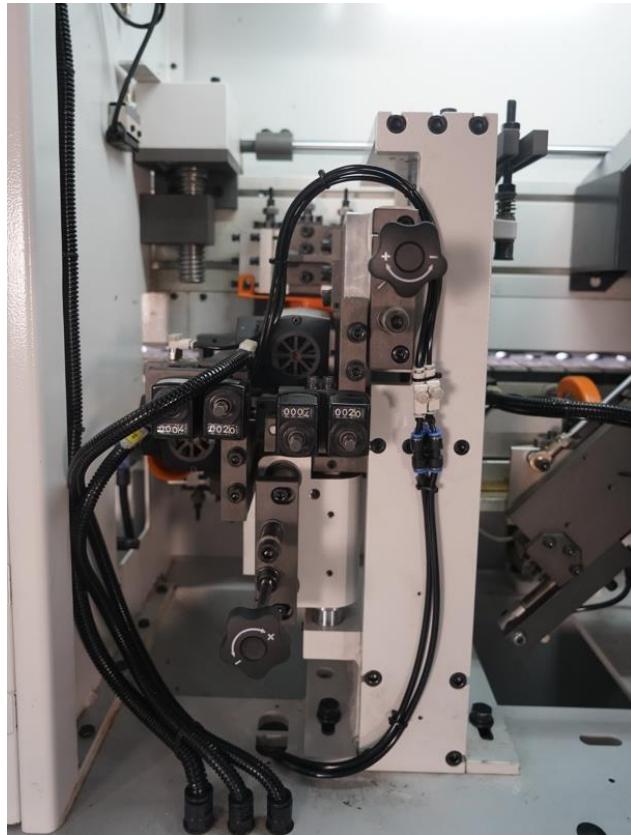
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Trimmed top and bottom 'spot on'

Heavy steel and cast-iron construction guarantee ultra-fine precision trimming. Rotary copy wheels with 12,000 rpm HF motors ensure perfect tracing and fine trim of edges.

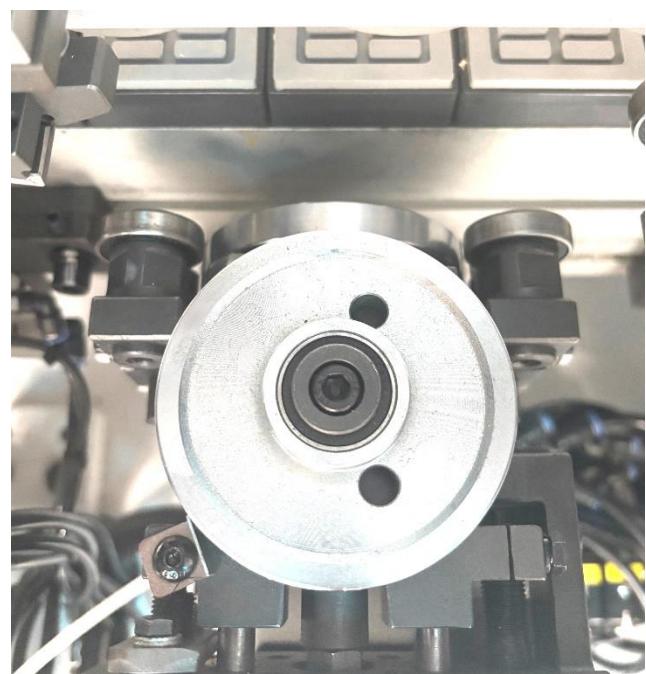
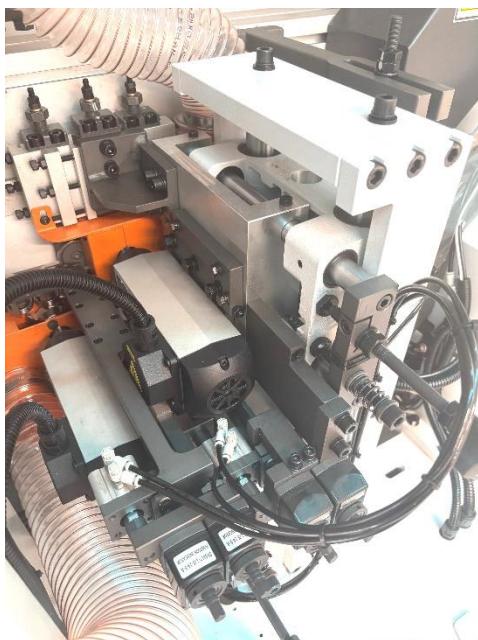


Digital pneumatic precision reset from 1-2mm from the touchscreen. Easy! and 4 knife TCT combi cutters - the perfect trimming setup.



Nest friendly...

Here in Australia Hinge hole bridging systems throughout on Trimmers, scrapers and glue scrapers is a standard inclusion



Corner rounding made easy



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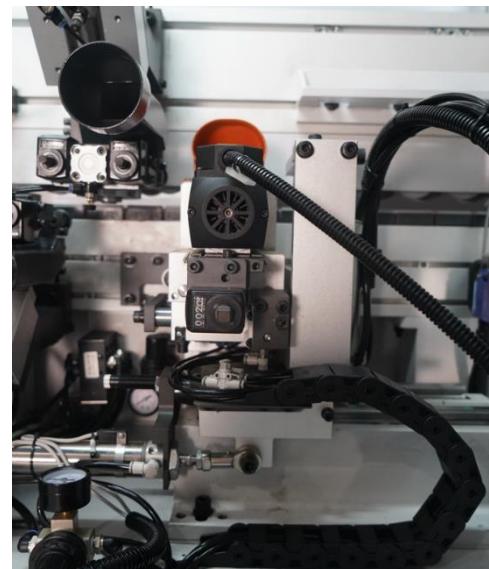
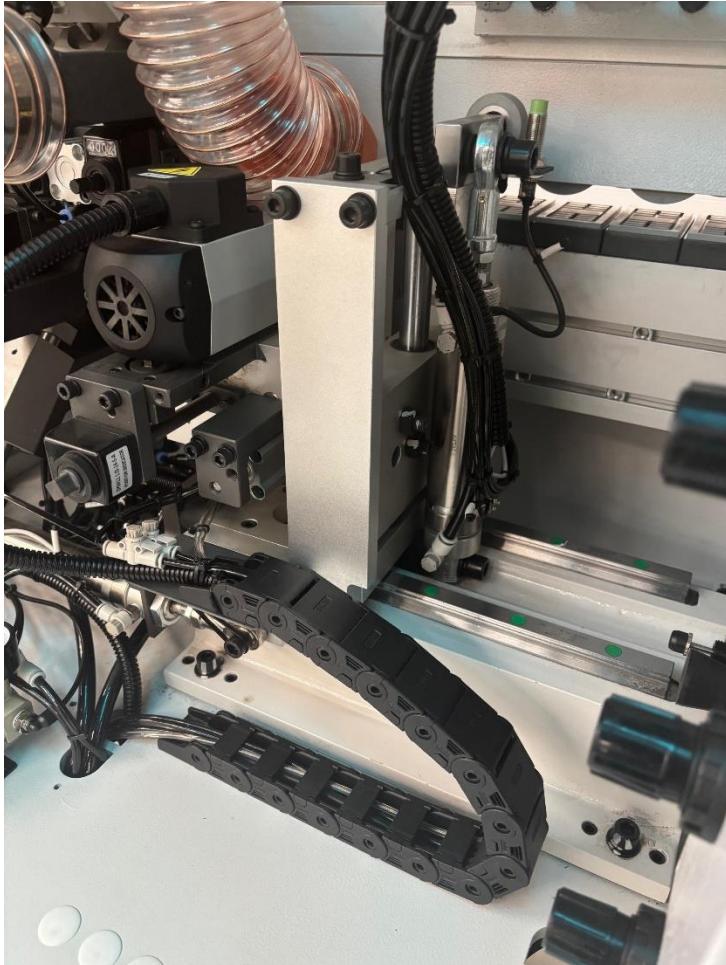
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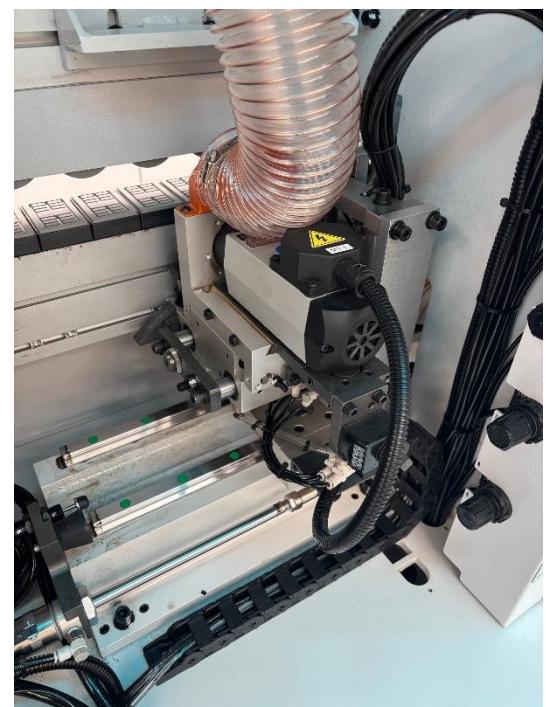


KDT corner rounding simply works and works simply! See it in action via the video link

Corner round at 8m/min - automatically set by the controller when corner rounding is selected to avoid operator error



**Twin THK high precision
slideways guarantee
accurate machining and
excellent service life**



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Highest precision Radius Scraping

High precision radius and glue Scraping is critical to the final appearance of Panels. Air jet blower cleaning / cooling deliver perfect smooth, cutter mark free finishing. Scrapings extract to a separate collection box, so they don't foul your dust extractor fan.

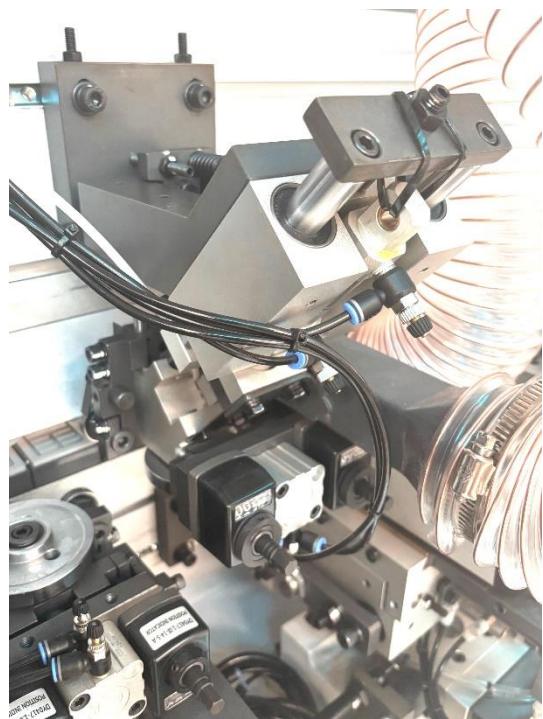
Nest friendly system included

Trimmers and scrapers are adjusted from 1-2mm from the touchscreen via pneumatic settings with digital readouts.

Simple and accurate

The scraping unit is equipped with a mechanism for separating chips from the workpiece after scraping.

The scrapers are reset for a different edge thickness using the machine control panel.



Flat glue scrapers

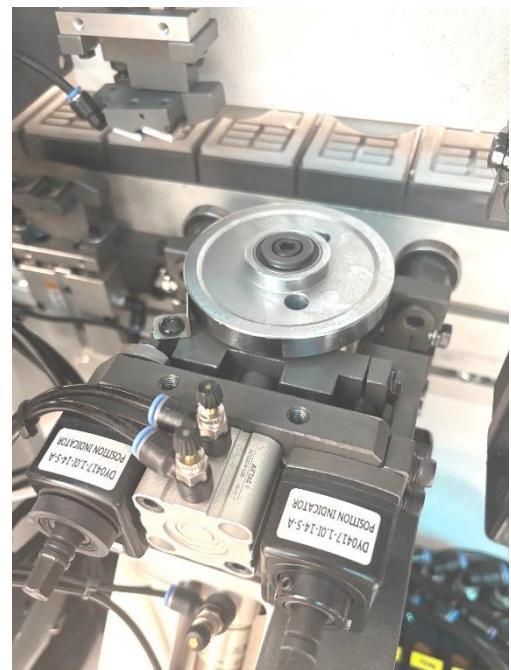
With touchscreen exclusion / activation
Pneumatic timed intervention and 'nest friendly' hinge hole bridging



The scraping unit is equipped with two carbide radius knives, which after milling the edge remove a thin layer from the milled part of the edge and remove the wave, as a result we get a smooth processed surface. The scraping unit is equipped with a mechanism for separating chips from the workpiece after scraping.

The unit can be reconfigured for a different edge thickness using the machine control panel.

The direct scraping unit is equipped with two hard-alloy straight knives (glue scraper), They remove excess glue and micro-roughness .



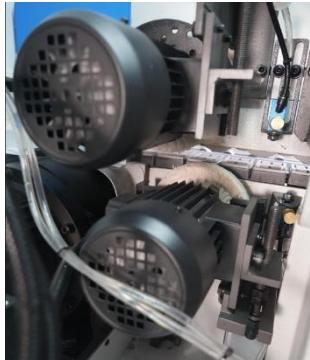


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Two spray stations

Touchscreen activated – applying glue release top and bottom prior to premilling and cleaning mi /polishing top abd bottom prior to buffing



The final polish

Final cleaning /polishing and restoration of colour to darker tapes is via large 1440rpm buffs on extra heavy mounts that deliver a vibration free finish.

Keeping things quiet

Heavy construction hoods reduce noise levels significantly.

Electrically interlocked with large windows and internal lighting to easily keep an eye on things.

KDT Edgebanders look great in the workshop enhancing your company's presentation



Extraction is important

Good dust extraction is vital.

All hoods and ducts are large and designed to function efficiently via 5 x 125mm connection points

A scraper separation box, scraper blowers and chute to catch and collect end saw offcuts are also included.



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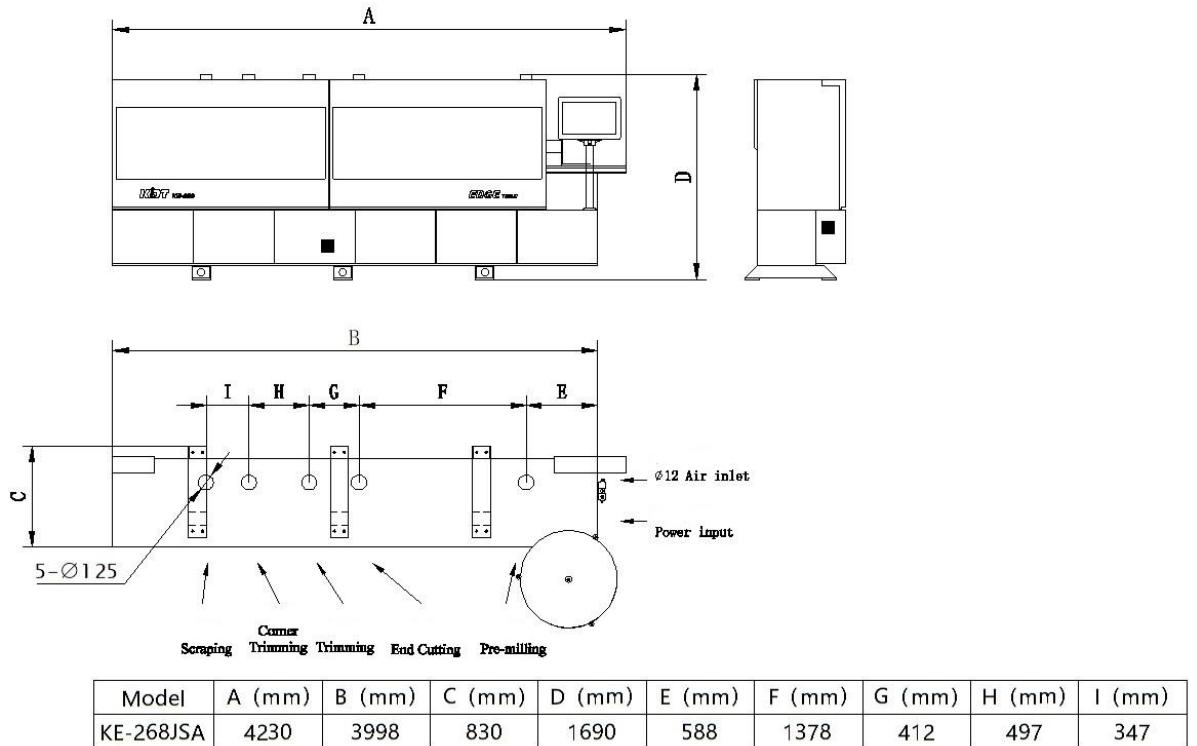


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You have the space...



The KE268JSA delivers a very comprehensive specification in a very compact package



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Panel data:

Feed speed, m/min 8-12 in 1m/min increments (8m/min corner rounding)

Machine units

1. Jointing. 2. Press group. 3. Trimming. 4. Milling to remove overhangs.
5. Contour processing (rounds). 6. Scraping with radius knives. 7. Scraping with straight knives. 8. Polishing.

Minimum part size, mm 120x90

Thickness of the workpiece, mm 9-60

Edge thickness, mm 0.4-3

Workpiece width, mm \geq 90

Length of workpiece, mm \geq 120

Total power, kW 14.73

Working pressure, MPa 0.6

Dimensions LxWxH, mm 4230x830x1690

Weight, kg 1600

Options:

Extraction Manifold.

Stepped, galvanised construction

Left- or right-hand discharge

Auto panel return systems to halve your labour costs



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