



# EDGEBANDER

KE365





## **KDT365 EDGEBANDER** **Strong, Precise and affordable**



### **– 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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## **KDT365 EDGE BANDER**

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### **WORKING GROUPS**

- Quick release, Hot melt glue tank above feed track
- Edge strip application with pneumatic guillotine.
- Pneumatic glue roller control
- Four-roller pressure station with pneumatic pressure.
- End trimming station – high precision cut-off saws with pneumatic quick angle adjustment.
- Top & bottom trimming station, with 2mm radius cutters.
- Top and bottom radius scraper station to fine finish PVC edging.
- Top and bottom buffing station.





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### **KEY FEATURES**

- Full safety covers over motorised cutting and trimming units and pressure rollers
- Convenient large touch screen Controller
- Quick set-up for strip thickness with simple digital readouts on working units.
- Fluorescent lights inside safety hoods – controlled from touch screen
- High feed rates – 15 / 19/ 24 metres/min.
- Feed jogging button to assist setting up.
- Pneumatic shut-off gate on glue roller.
- Front and rear tape overlap adjustment from touch screen.
- Electronic 'line control' setting and monitoring of workpiece positions
- Large dust exhaust hoses for efficient extraction.
- Large window in safety hoods for better visibility.
- Four independent pressure rollers – Individual pneumatic pressure to each roller
- Pneumatic gate prevents panels being fed in too close to one another.
- Mechanical digital readout on motorized height setting on top beam
- High precision 'THK' slide ways on cut-off saws with auto lubrication. Pneumatic saw tilt
- Efficient high frequency direct drive motors on saws and trimmers.
- Pneumatic blowers on scraper tracer wheels to keep swarf from affecting accuracy.
- Buffers mounted on 50mm round bars – will not flex under load.
- 1440rpm motors on buffs to prevent scorching.
- Heavy weight machine @ approx. 1300kgs.
- Length of machine – 3940mm.
- Extra solid panel support rail







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## DESIGN IN DETAIL

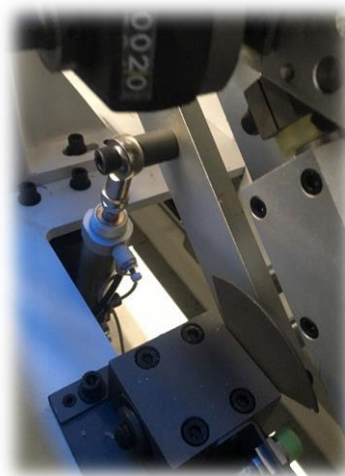
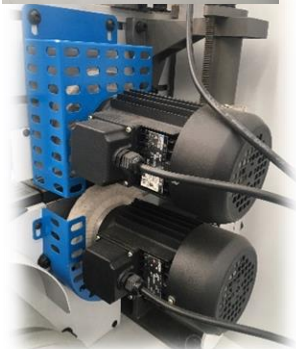
### Built in strength

Everything on an Edgebander relies on the design, strength and rigidity of the machine frame and work unit mountings and this is an area where KDT refuse to compromise. Wherever you look you see this

*- Just a few examples:*

- Saws on cast iron mount
- 10mm thick plate steel base running through the machine
- 18mm thick hard chrome infeed fence
- Buffers mounted on 50mm diameter columns

*The list goes on... 1300kg!*





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### You're in control

The user-friendly format of KDT's touch screen control sets new standards in Operator friendly operation of an Edgebander.

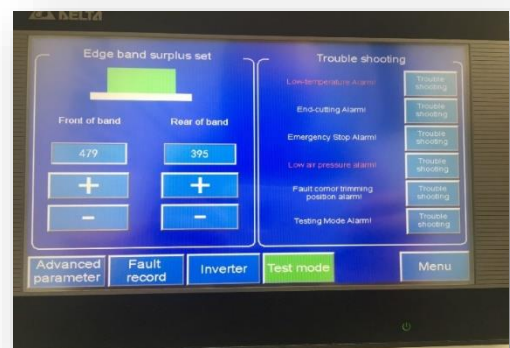
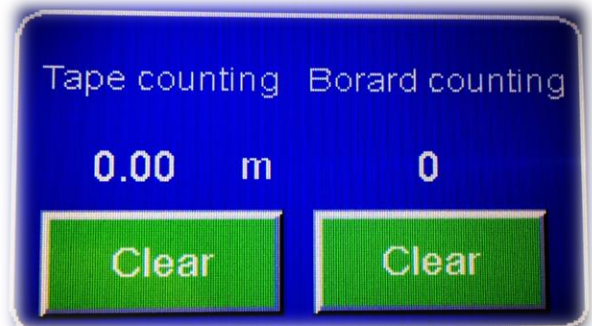
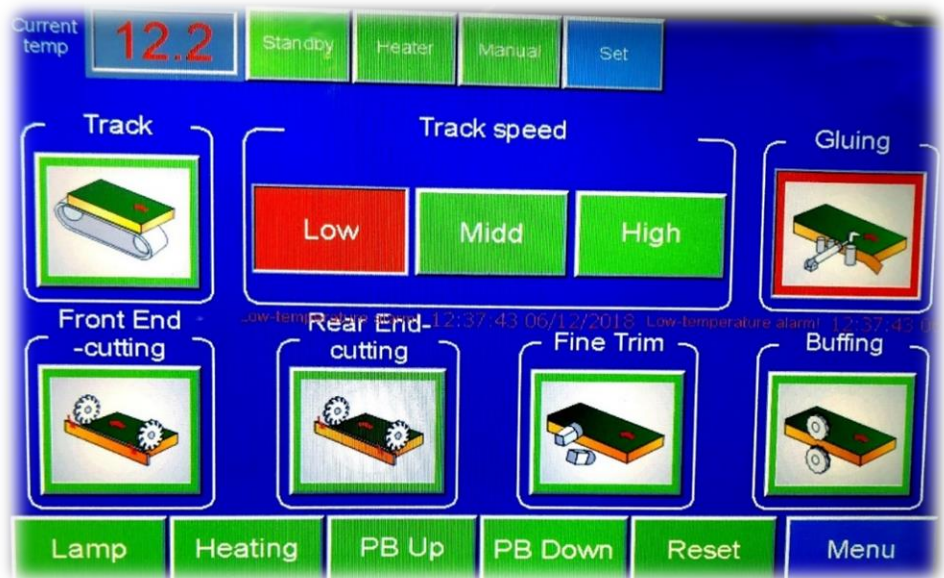
You're in total control- selecting functions, setting the 3 feed track speeds, Up/down of the feed beam, glue temperature, tilt the end saws, setting the machine to 'standby' while you have lunch etc.

You can even pre-program start up and shut down times – so your edgebander is heated up and ready for you when you arrive at work!

Tape used and panels edged – its easy to keep track with the touchscreen 'count' readout

There's a comprehensive parameter setting function including allowing you to adjust front edge overhang. You can select front/ rear or both saws. Clear, simple and effective

Technicians love this controller- comprehensive diagnostics and fault-finding functions and reports with reset methods and 'fix it steps often mean no Technician is required.



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### **Handle the heaviest tapes**

The tape coil holder is a great example of KDT's uncompromising focus on strength. At 800mm diameter and supported by a massive 60mm diameter column this will keep even the heaviest tape coils perfectly aligned with the infeed guides and rotating smoothly

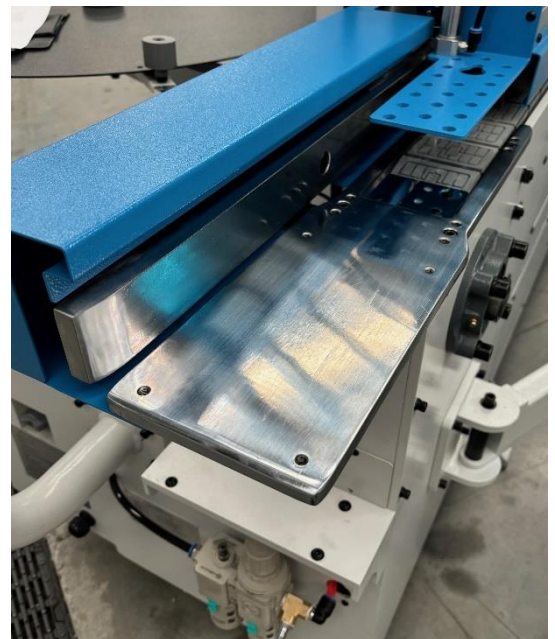


### **Panel feed is precise, reliable and foolproof**

Simple reliable alignment, support and feeding of your panels keeps your operator happy while ensuring panels arrive and travel through the workstations evenly and perfectly aligned.

KDT start this process with on oversize infeed plate and a massive 18mm thick infeed fence.

The infeed fence is also heated to remove moisture from panel edges to further improve bonding results. (you control this from the touch screen)



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A pneumatic pin stop prevents a second panel entering too soon after the first. The timing of this pin is varied automatically for you.

This is better than a 'red light/ green light' system which relies on the operator obeying the light

Once the panel enters the feed track the electronic 'line control' knows exactly the front and back position of each panel on the track – this eliminates the need for troublesome micro switch control of the working units and allows precise activation setting from the control panel. This is a huge plus for set-up and precise operation of the work units.

A handy feed 'stop/start' inside the cabin makes setup or all units and checking machining / finish of your edges very simple



## **Well supported**

The panel rail easily extends to 860mm to support your wider panels. Its very solid to support heavy panels without sagging ( this is important)



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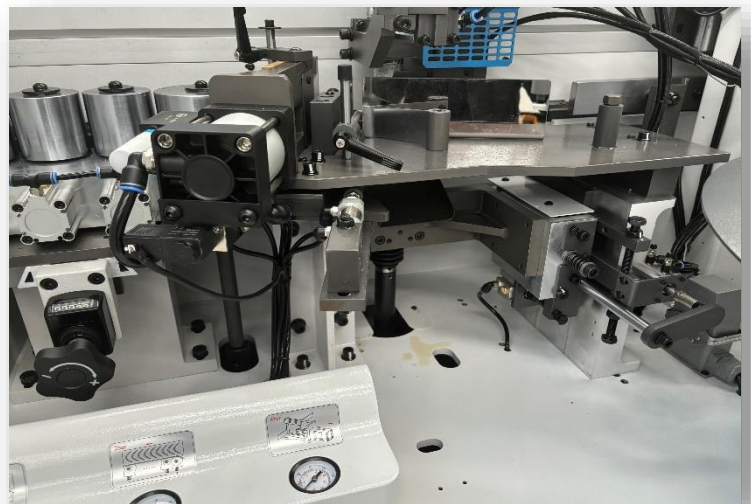


### **Perfect tape feed and application**

Perfect alignment and uninterrupted feed of your tapes is an essential first step in achieving a great edge. This needs to be complimented by uncompromised application pressure.

KDT infeed guides and feed roller are mounted to 10mm steel plate and followed by an oversized pneumatic guillotine that cleanly shears even the heaviest tapes from the roll smoothly and easily.

The tape is then pressed onto your panels by 4 pressure rollers each with their own pneumatic cylinder.



The hard chromed 100mm first driven roller does the initial application. Rollers 2 and 3 are tapered – 1 applying extra pressure at the top edge and the other at the bottom to close the glue line for a magic result. Roller 4 is the final guarantee of the perfect tight edge your customers will love. The pressure rollers are adjusted all together / digitally for different tape thickness



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### Onto the feed track....

The infeed ensures your panels enter the feed track perfectly aligned, spaced and with the line control knowing where they start and stop. Now the feed track must ensure they stay that way as they pass through the machining groups.

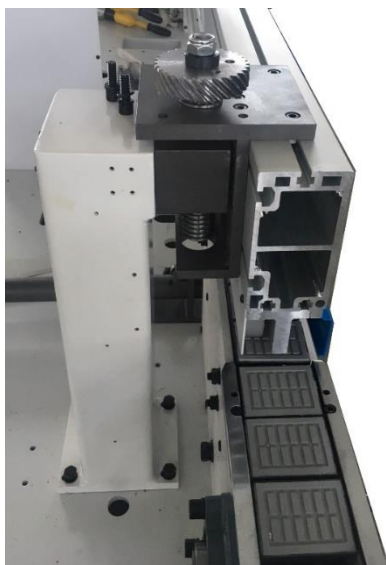


The first step is setting the feed track height and KDT have made this effortless and accurate with powered feed track height adjustment coupled to a digital readout.



The overhead feed rollers are mounted in a heavily ribbed aluminium top beam 170mm x 80mm.

Importantly the two rows of idle rollers are offset from each other – ensuring even your smallest panels are always under firm and even roller pressure



Oversize columns at each end support the overhead roller track and ensure alignment without flexing under load



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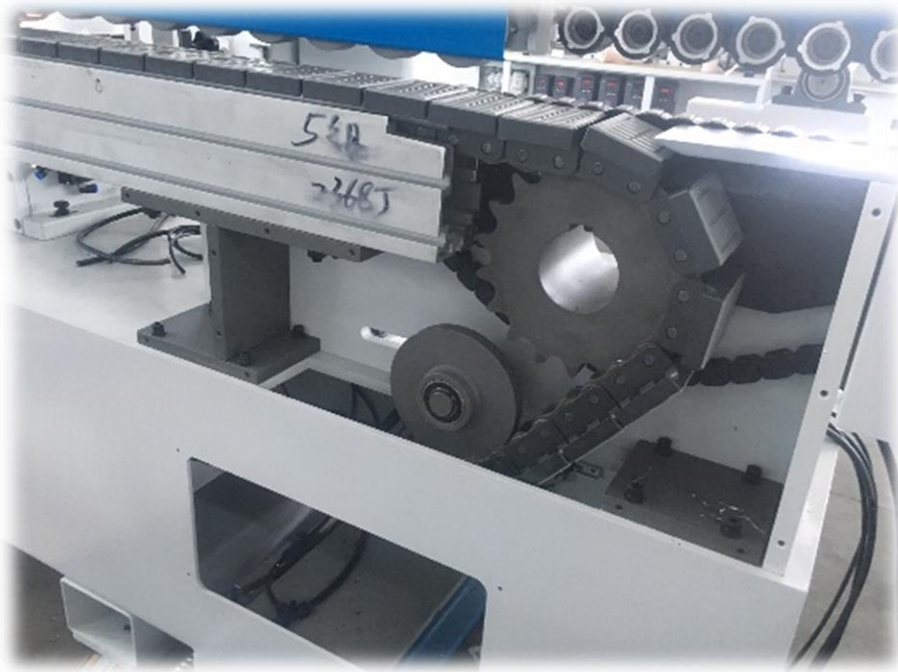
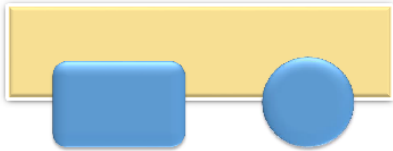
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### **The driven track**

The feed track runs on combined square and round guide rails. This is the best guide system as it ensures the track cannot move sideways or tilt under load. Cast bearing housings and heavy chain feed ensure long life, low maintenance and accurate trouble-free feed of even your largest and smallest panels.

External lubrication points along the track mean easy maintenance







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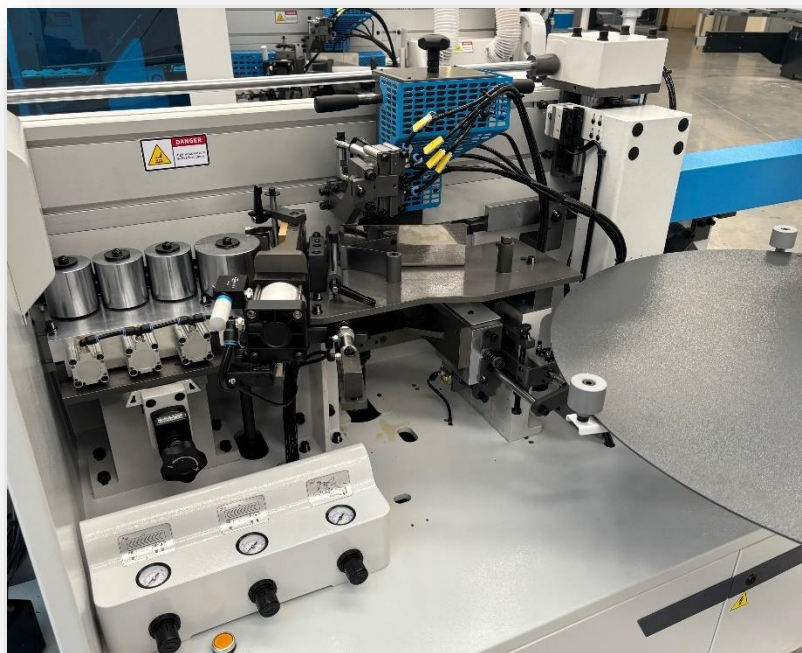
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### **Easy to set and Quick-change glue tank.**

The entire tank simply unplugs thanks to quick unclick electrical and pneumatic connectors and is then easily removed in around 2 minutes. This is a clean and fuss free system with easy top access to replenish and keep an eye on glue levels  
You can also stop glue feed to the roller at the flick of a switch.

You can purge the tank to change colours or types of glue straight into the supplied tray below the tank – easy!

Multiple elements ensure quick and even heating of the glue and a convenient automatic 'standby' is activated if panels have not been processed for a set period. This lowers the glue temperature to maintain colour and strength.





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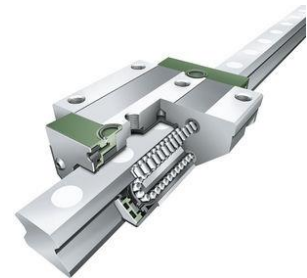
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End saws precision is guaranteed



KDT have paid particular attention to their End saw design. The saws are mounted on a super strong cast base and both run on the same high precision THK guide for perfect alignment



Independent 12,000 rpm inverter controlled saw motors ensure clean, effortless trimming of your toughest tapes.

A proximity sensor works in conjunction with the line control to ensure the saws are in position before the next panel arrives – and will shut the feed down if this is not the case avoiding ruining your panel and potentially damaging the saw unit



If you are edging post formed panels through the Touch screen control you can increase the overhang to avoid damage to the panel and turn either end saw off

Auto lubrication of the saw slides is another great KDT feature you will appreciate



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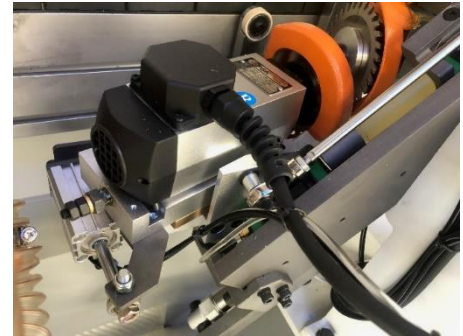
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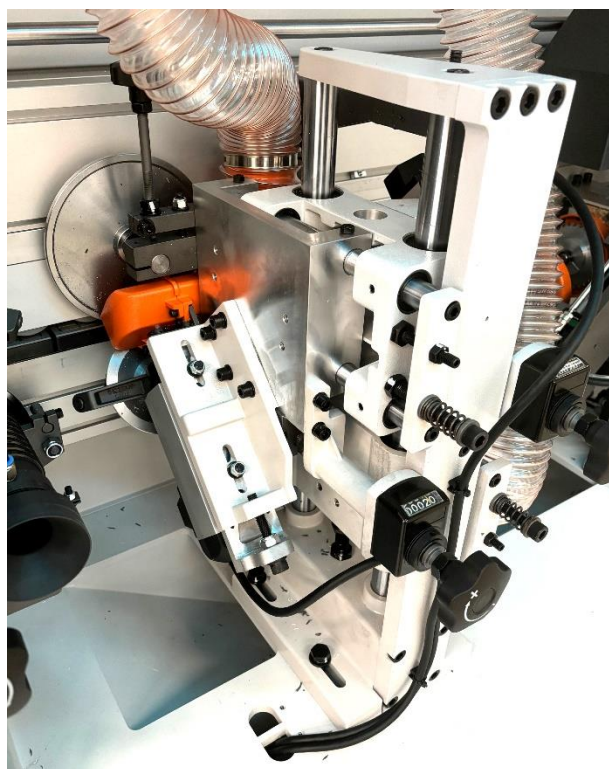


### **End saw pneumatic tilt**

From the touchscreen you can tilt both end saws to produce a 15 degree bevel cut. This gives your doors a smoother feel and look compared to a square cut ( cut to 2 degrees)



### **Trimmed top and bottom 'spot on'**



KDT use heavy steel and cast-iron construction for their Trimmer unit to guarantee the ultra-fine precision required. Large rotating '180mm copy wheels allied with 12,000 rpm HF motors ensure the cutters perfectly trace and fine trim or radius your edges prior to scraping.

***Digital precision resetting and 4 knife TCT combi trimmers complete the perfect trimming setup.***



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### **Highest precision scraping**

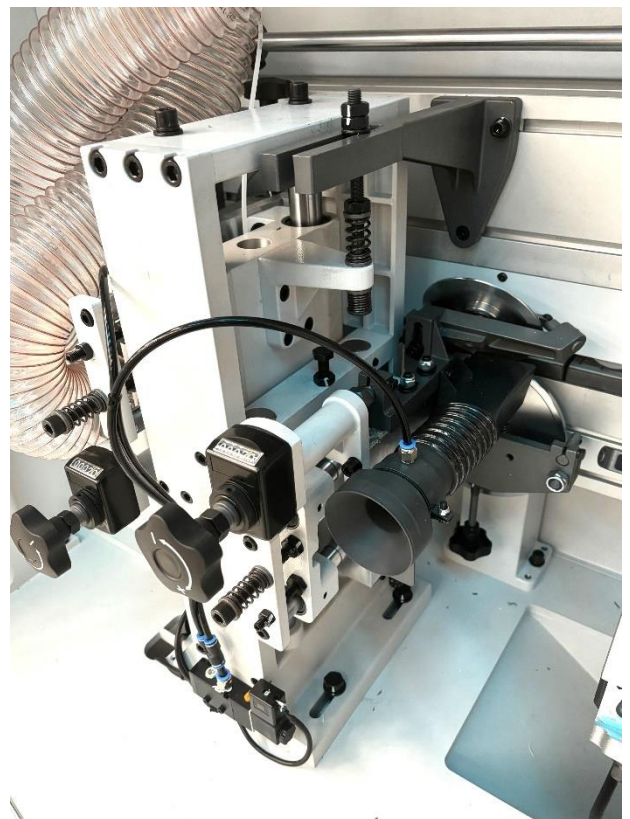
KDT's scrapers use the same cast iron and steel mounts as the Top and bottom trimmers – it may look like overkill, but scraping is critical to the final appearance of your Panels, so overkill is a good thing!

Large rotary copy wheels with air jet blower cleaning deliver the perfect smooth, cutter mark free finish your customers will love.

Large diameter rod fine thread Digital setting complete this precise scraping unit



The scrapings are exhausted into an easily accessed separation/ collection box, so they do not foul your dust extractors fan / filters





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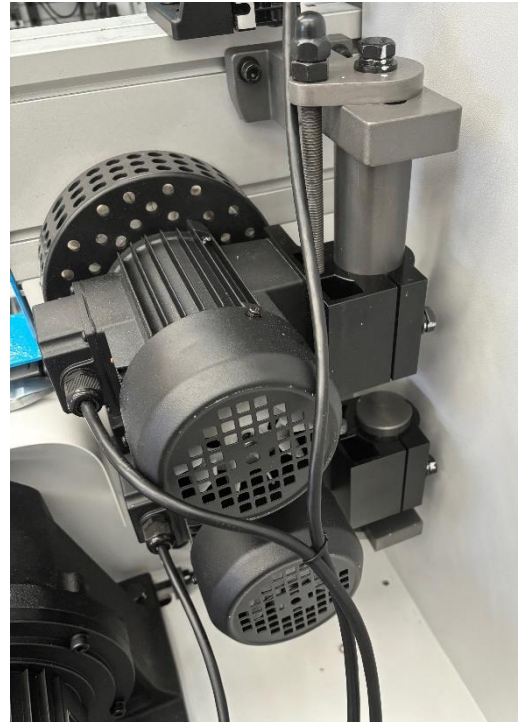
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### **The final polish**

Final cleaning /polishing and restoration of colour to darker tapes is via large 1440rpm buffs at the outfeed. These are mounted on extra heavy (50mm diameter!) mounts that deliver a heavy-duty vibration free finish.

Buffing angle is adjustable

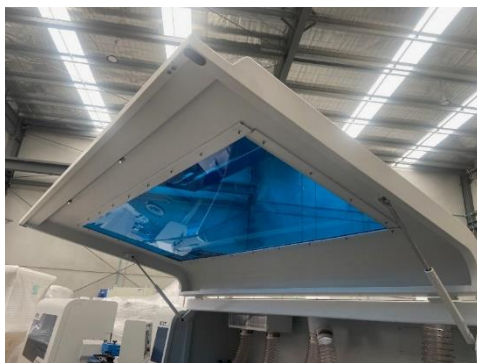


### **Keeping things quiet**

The heavy construction of the working units and frame do a great job of noise reduction which is enhanced by the solid hood.

These are electrically interlocked and operated by large self-supporting gas struts for safety while the large windows allow you to easily keep on eye on things while the machine is working.

Internal lighting can be switched on from the touchscreen control



*It's a small point but they enhance the overall look of the machine – this is a machine that will look great in your workshop and enhance your company's presentation.*







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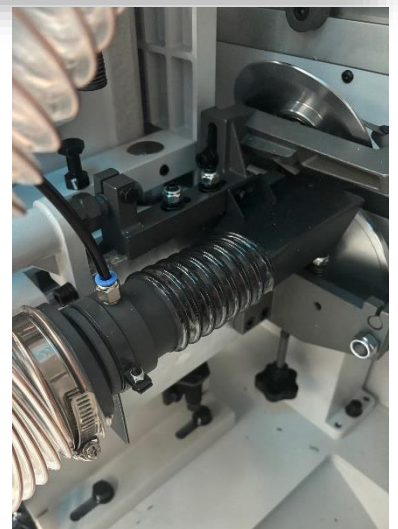
### Extraction is important

Good dust extraction is vital to good edgeworking.  
KDT understand this and have paid particular attention to ensuring all hoods and ducts are well designed and function well.

Final connections are via 3 x 120mm chutes in the cabin roof – simple and effective.

This includes a scraper separation box, scraper blowers and a large clear chute to catch and collect end saw offcuts.

‘Venturi’ effect design enhances airflow/ extraction intake







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### Inverter controlled efficiency

Individual separate Inverters maintain motor efficiency and speed under load while conserving energy consumption



### PANEL AND PRODUCTION DATA

- Feed speeds: 3 choices 15, 19 and 24m/min
- Panel length 120mm or greater
- Panel Thickness 9-60mm
- Panel width 85mm or greater

### OPTIONS :



Extraction Manifolds (left or right hand)

Auto panel return systems

