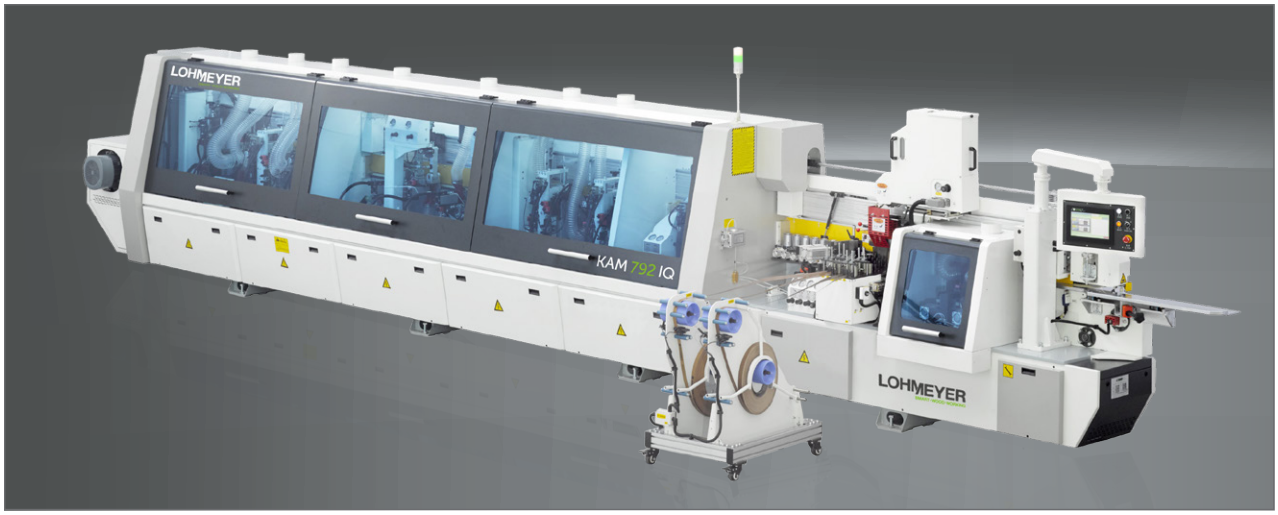
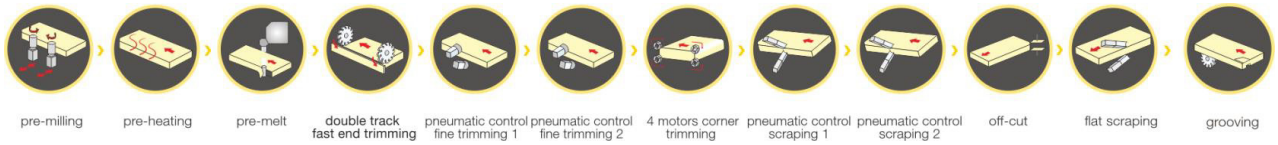
Edgebander KAM 792 IQ





* Due to the continuous improvements of our products, some changes for better machine may apply.

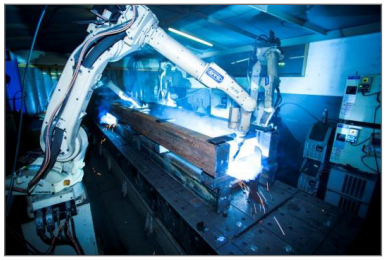
Description

- Full functional units including pre-milling, pre-heating, pre-melt, quick melt,+4 tapes changing system, dual rails for end trimming, auto tool adjustment by 2 fine trimming, 4 motors with tools for corner trimming, auto tool adjustment by 2 radius scraping, pneumatic flat scraping, final scraping, buffing
- Panels are evenly pressed by V-belt to maximize stability
- Large pre-melt tank allows sufficient glue for even fast continuous edge banding
- Auto edge tapes changing system can select any one fast from 2 thicknesses of edge tape

Aggregates

Machine base

- rigid machine body welded with laser-cut steel plates
- through trimming of advanced CNC machine for metal work to enhance stability and reduce vibration during processing
- casted parts guarantee long service life without deforming

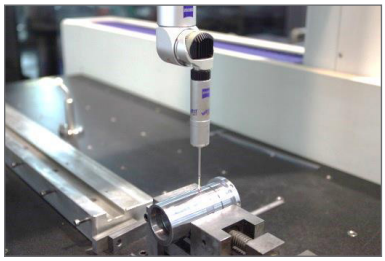


Professional assembly line

- professional assembly line from machine body to the tiniest electrical component with experienced technicians to guarantee the machine standardization and performance

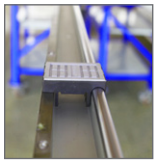
Quality control

- advanced measuring equipment and strict QC system to ensure high quality



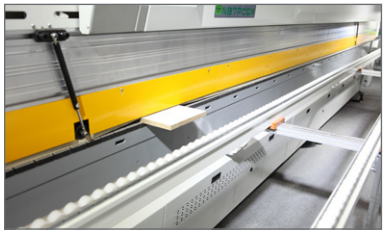
Conveyor

- improved abrasive resistance of long straight semicircle guide rail due to hardening treatment
- wearproof conveying piece with perfect guide rail contact
- 2 sets of support conveyor with compact rollers to pull large panels balanced and stable
- thick steel support plate of high rigidity and stability to prevent deformation, enhances stability during edgebanding
- motor allows for variable frequency starting, very stable and equipped with braking system
- cover to protect the motor from dust and scraps and prolong service life



Top presser

- fiber-reinforced V-belt system to maximize stability
- heavy duty aluminum alloy for pressure beam
- height of pressure beam can be adjusted electronically
- driven by asynchronuous motor
- controlled by encoder which can be operated via the touch screen

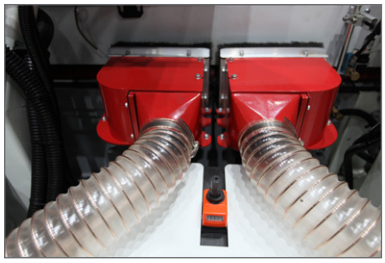


Cleaning and release agent

- spraying before pre-milling and buffing ensures a nice and clean finishing surface

Pre-milling unit

- pre-milling unit to prepare the panel edges, guarantees perpendicularity and removes straightness errors to allow an optimum binding effect between edge and edgeband
- diamond cutter: ø125 x H35 ø30 Z3+3
- motors: pneumatically controlled
  milling panel edge intermittent
  2× 3.7 kW, 200 Hz, 12,000 rpm
- air nozzles after pre-milling additionally clean the narrow edge to be glued
- separate dust cover



Pre-heating device

- warms up the panel edge before gluing, especially suitable for wet and cold zones

Edge tape feeder by servo motor

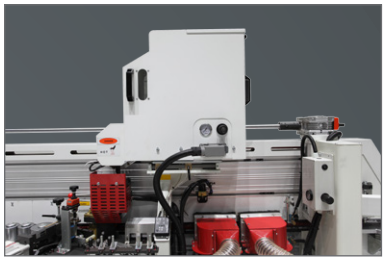
- high trimming precision controlled by servo motor
- edge tape detector
- easy and time-saving switching between workpieces of different thicknesses
- switches automatically to next position, if present position is without tape
- ensures continuous working of the machine

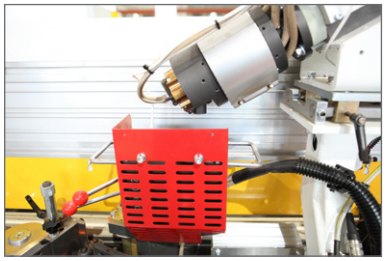
Snipping

- with air cylinder with electric control switch

Quick-melt tank

- heats up at a high speed
- reduces carbonization and vulcanization due to overheated glue resins
- better binding effect between panel and edgeband
- quick change glue system
- dosing device for perfect glue application
- glue particle dissolve device
- glue quantity up to 820 g - 920 g/min (parameter changes depending on the glue type)
- air pressure of dispensing glue reaches 4 bar
- liquid level sensor detector to control glue quantity and prevent glue from spilling
- temperature adjustment via touch screen





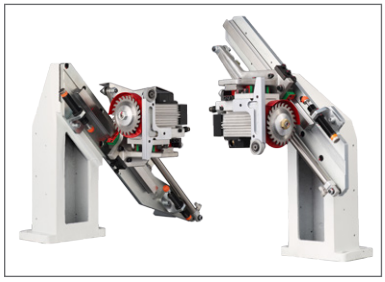
Pressure roller

- clean and strong pressing of the edge with the workpiece thanks to the high-quality pressing unit of the glue station
- one pre-pressure roller with a diameter of 100 mm, 6 post rollers ensure a firm connection between edge tape and workpiece
- pressure regulating valve 1.5 - 2.5 bar

Lubrication system

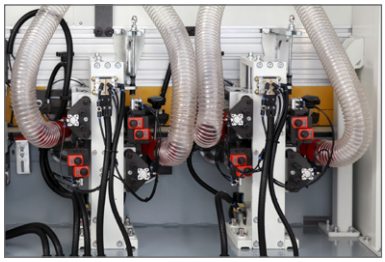
- meets the requirements of daily maintenance
- easy operation

Dual rails for end trimming



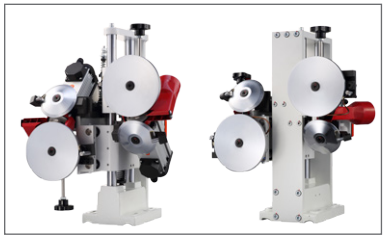
- front and back tape trimmings by two separated saws mounted on rails
- min. panel interval 300 mm
- manual rotating device to adjust the motor an angle of 45°
- motor: 2 x 0.37 kW, 200 Hz
- rotating speed: 12,000 rpm
- specification of 2 saws: 115 x 2.6 x 22 x 24Z
- equipped with independent protective cover
- manual lubrication system for the linear guides for increased service life

2 Fine trimming units with automatic tool adjustment



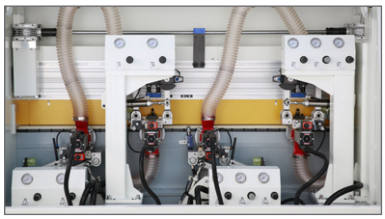
- two fine trimming units for the trimming of bevels and rounds
- fine adjustment via digital readout devices
- equipped with radius cutters, cutter position is adjustable with reading on numerical indicators
- Fine trimming 1
  - motor: 2 x 0.75 kW
  - frequency: 200 Hz
  - rotating speed: 12,000 rpm
  - radius: R2 4Z

- Fine trimming 2
  - motor: 2 x 0.55 kW
  - frequency: 200 Hz
  - rotating speed: 12,000 rpm
  - radius: R1 6Z circular arc
- double design for retrofitting at the touch of the button
- fine trimming cutter x 2 (circular arc radius: R2, 4Z)
- optimized extraction prevents chip impacts



Corner trimming unit

- processes the variants – front, back and two straight edges so as to achieve R circular arc radius
- high speed motors to ensure precise corner trimming of the edge tape:
  - motors: 4 x 0.3 kW, 200 Hz
  - rotating speed: 12,000 rpm
- planar linkage
- 4 corner trimming tool R2 3Z
- optimized extraction prevents chip impacts

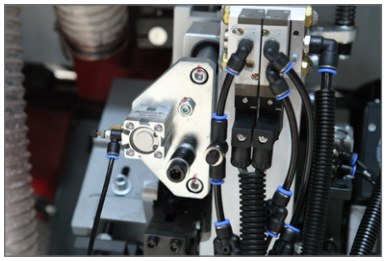


2 Profile scraping units with automatic tool adjustment

- The pneumatically controlled profile scraping unit processes the previously fine routed edge. The scraping cut removes the planing blows and thereby provides for a uniform surface of the synthetic edges.
- two sets with scraping cutters in different circular arc radius (1 set - R2, 1 set - R1)
- air cylinder wheel position adjustment
- can be switched via key according to tape thickness
- equipped with additional electric pneumatically controlled air-blast nozzles for blowing scraps into the inlet of dust pipe immediately during operation
- independent suction extraction

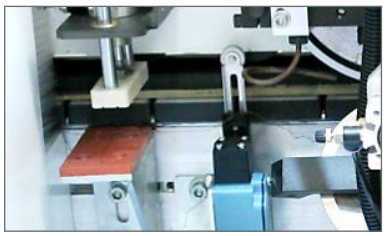
Adjustment of different thicknesses

- fast switching between thin and thick tape due to two adjustable fine trimming and scraping units
- resulting in shorter set up time



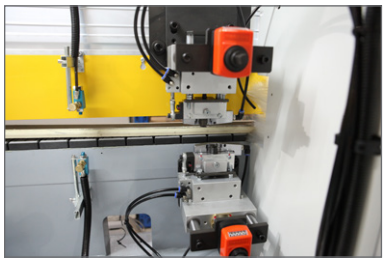
Off cut device

- cleans tape threads from scraping



Pneumatic flat scraping

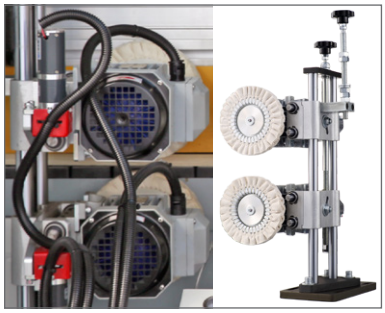
- removes excess glue for perfect edgebanding effect



Buffing unit

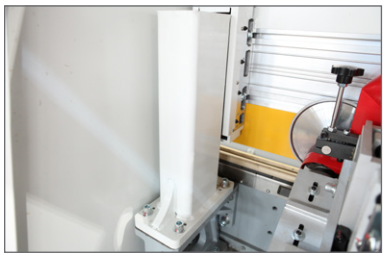
At the buffing unit the edge material receives its final touch. All conventional fabric, sisal and leaf wheels can be used.

- motor: 2 x 0.37 kW
- oszillating
- dual screen cloth structure to polish the top and bottom edges without any scratches on panel surface
- driven by continuous current dynamo



Support column

- rigid and strong support column
- stabilizes the pressure beam and the whole machine



Start-stop switch

- enables the operator to stop and start the machine anytime during the process, for convenient adjustment and testing

Operation indicating light

- operating status of the machine at a glance

Dust extraction system

- independent suction hood ø 125 mm fully covers the processing units
- 8 dust collectors provide excellent working conditions and protect the aggregats from scraps and dust

Safety devices

Feeding protector and thickness detection

- safety protection device prevents possible accidents and ensures safe operation and automatic monitoring of abnormal operation
- panel thickness detection, if panel thickness is over the limited position, the conveyor will stop immediately

Interval feeding detection system

- interval feeding detection system designed for controlling the processing distance

Emergency Stop

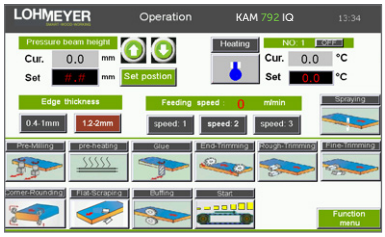
- emergency button for stopping the machine at once

Electric equipment

- high quality electric components of international brands
- input voltage: 3-380 V, 50 Hz
- frequency converter with motor braking function
- phase sequence protector
- operation permitted in temperatures between 0-40 °C

Control system

- encoder instead of limit switches for high accuracy
- records data for statistical analysis such as tape wastage and operating ratio
- intuitive and simple operation interface, each component can be controlled independently and statement can be generated accordingly
- 7'' touch screen
- each working unit is controlled by an independent frequency converter



Energy saving

- stand-by mode is automatically turned on, when the machines stops working for a certain period of time
- glue temperature is lowered to avoid carbonization
- rotation of glue roller

Technical data

Feeding speed	16/20/26 m/min (depending on the selected aggregates)
Dust collector	125 mm x 8
Control mode	encoder
	touch screen 7" Delta
Working height	920 mm
Air pressure required	0.7 MPa
Power supply	400V, 50 Hz, 3 phase
Total power	29.5 kW
Net weight	5,450 kg
Overall dimensions	10,200 x 1,450 x 1,650 mm

Workpiece and edge parameters

Workpiece thickness

• without pre-milling without corner rounding	min. 10 - max. 60 mm
• with pre-milling	min. 10 - max. 30 mm (option: 40 mm, 60 mm)
• with corner rounding	min. 10 - max. 45 mm

Workpiece width

• without corner rounding	min. 60 mm
• with corner rounding	min. 130 mm

Workpiece length

• without pre-milling without corner rounding	min. 120 mm
• with pre-milling	min. 320 mm
• with corner rounding	min. 140 mm
• min. panel size	120 × 120 mm, 200 × 60 mm

Edge thickness

• without corner rounding	0.4 – 3 mm
• with corner rounding	1.2 – 3 mm

Edge width

• without pre-milling	15 - 65 mm
• with pre-milling	15 - 35 mm (option: 15 - 45 mm, 15 - 65 mm)

Security and Safety

- CE Regulation according to the EC Machinery Directive

Documentation

- Documentation and Maintenance Instructions in print and CD-ROM version