BRAUN-CANALI
Band Saw Technology

MÖHRINGER
makes timber fit

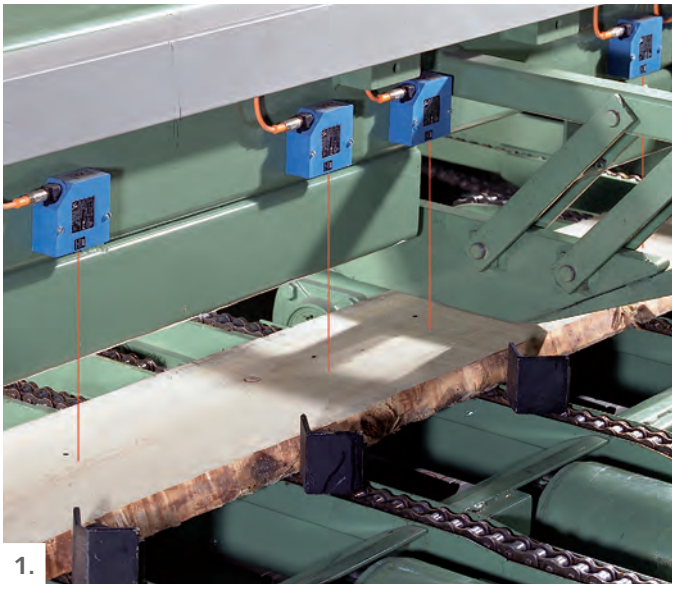
AUTOJET

EDGING AND RIPPING WITH HIGHEST VALUE ADDIN

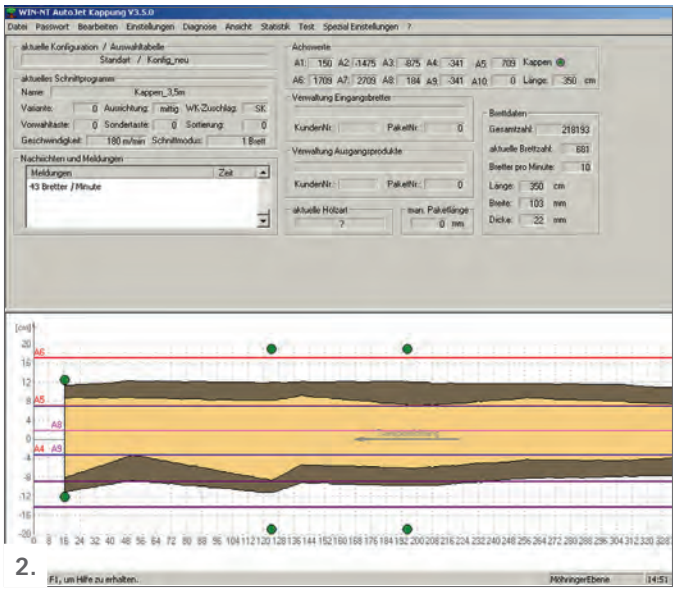
PRECISE MEASUREMENT TECHNOLOGY
HOW THE AUTOJET WORKS IN DETAIL

Automatic High Performance Edging - Maximum Efficiency

The objective in the development of the new generation Autojet was the fast, felxible and efficient cross-cut and edging. Modern measurement of electronics and reliable computer technology in this case form the foundation for maximum production capacity.



1.



2.

1. Measuring

The Autojet measured boards and planks during the cross feed and therefore saves place. Die Vermessung erfolgt hierbei von oben und unten mittels modernster Lasertechnik. This is the best way of determining the contour of the board and the features of the waney edge for the edging process. As an option, the Autojet can be extended by a quality recognition system with scanner.

2. Calculating

The measured information is transferred to a microprocessor. Using the easy to operate menu guide system you can deposit your individual cutting range to suit different criteria, such as dimension, price or quality. Full wood utilisation, fixed step cutting and the proportion of waney edge can also be adjusted and quantity restrictions set. The optimising computer calculates the ideal edging line taking into account your specification, the waney edge and the curve of the board.

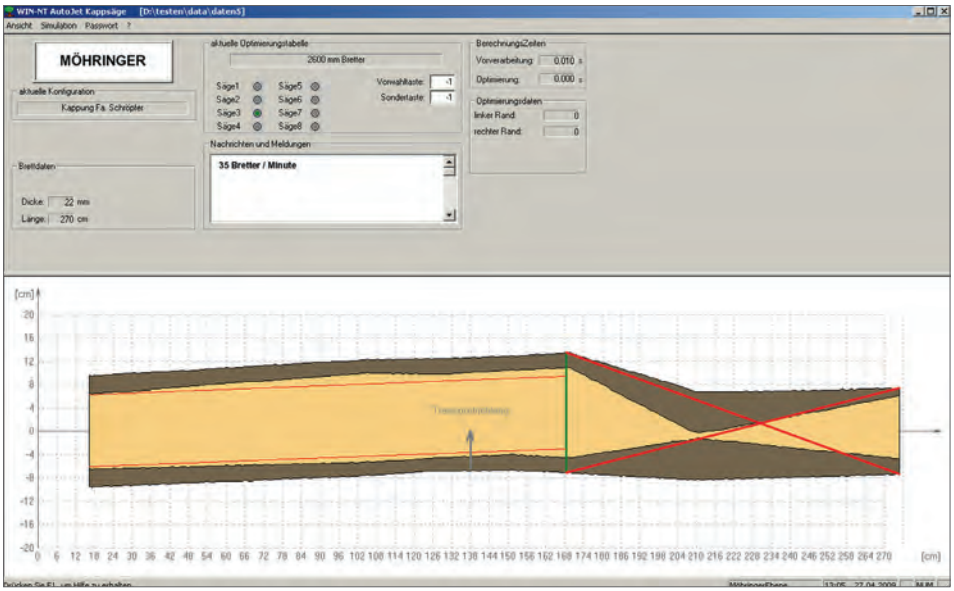
FOR HIGH CAPACITY LINES
INTEGRATED AUTOMATIC CROSS-CUT

3. Automatic cross-cut

n nearly all saw mills the capacity of the automatic edger is being reduced by the operator. That is why the manual cross-cut of tips by operator is being replaced with an automatic one. During this process the board is being measured from the top and the bottom by a laser and optimised in width and length by a PC according to specifications like price and quantity. The integrated cross-cut in the transversal feed allows an ideal cross-cut of tips for yield before the actual edging. The operator observes the procedure from the cabin and only intervenes in the process by joystick in exceptional cases.

3.

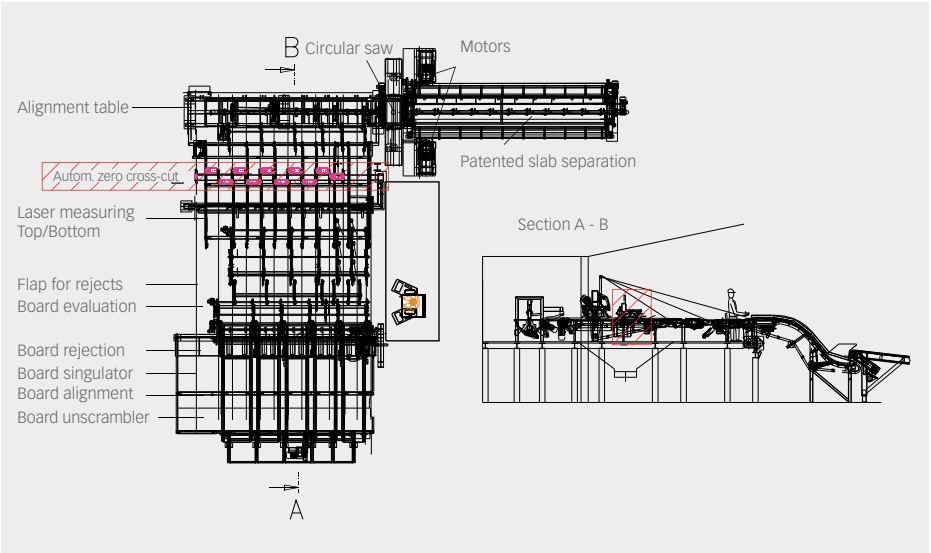
curvature cross-cut



cross-cut of tips

Curvature cross-cut

In order to achieve a maximum yield e.g. by also cross-cutting the curvature for pallet boards, the boards are being cross-cut according to PC data and laid on a special feeding table that is separated in the middle. A simultaneous acceleration of the curvature cross-cut boards allows huge board quantities up to 55 boards/min with an ideal edging result.



Basic design Autojet Pro

SMART SOLUTION
THE UNIQUE OUTFEED EDGING WITHOUT OUTFEED GUIDE

4. Positioning and edging

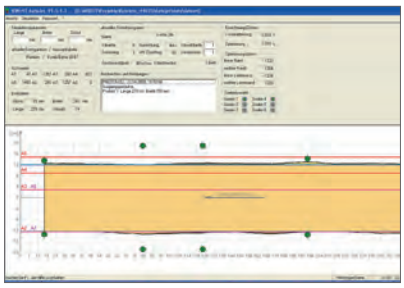
The boards and planks are then transferred to the positioning table where they are fixed and adjusted for the ideal edging line with the help of the alignment system. The used circular saw technique makes every customer preference regarding flexibility and cutting depth possible. The saws and cutting equipment are brought into their ideal position quickly and precisely with the aid of digital positioning controllers. Finally, the timer to be edged is fed through the circular saw unit. The feed speed is automatically adjusted to suit the thickness of the timber so that maximum capacity can be achieved with the lowest consumption of power.

5. Parallel cut to the fibre

With the Autojet you can chose between a centrical cut and a cut parallel to the waney edge (right-aligned or left-aligned; especially for a cut parallel to the fibre). This way high-grade lamellae and cants can be produced with softwood as well as with hardwood.

6. Separating and sorting

Boards, laths and edgings can be separated in 2 ways. Our patent pending outfeed edging unit separates edgings from the laths and boards simultaneously without the material having to be stopped - fast and effective. Alternatively, you can use our outfeed separating conveyor. It is designed for multiple use as it can also process cants and boards with several products. Our outfeed separating conveyor allows universal usage, because also cants and several laths can be processed at the same time. From the outfeed unit boards and laths are sorted. The dimensions and classifications calculated by the measuring computer are used for automatic stacking.



Parallel cut to the fibre

Infeed table

Outfeed separating conveyor

Variable 5-products circular saw

AUTOJET AND AUTOJET PRO
For every application the right execution

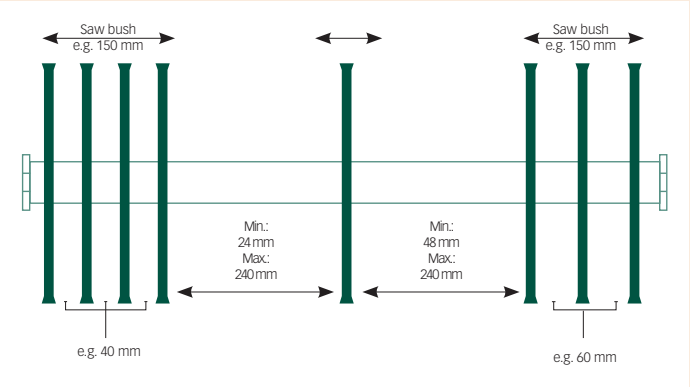
AUTOJET

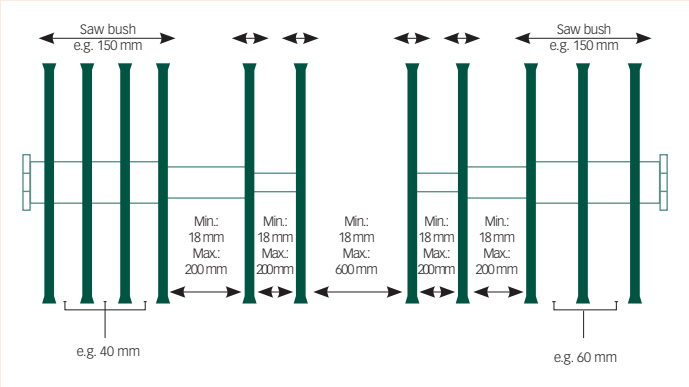
- **Laser scanner from top and bottom** with triangulation lasers: space and time saving as the boards do not need to be turned
- Scanner works independent from the board colour. Perfect measuring results even with **dark wane**
- **Compact design** thanks to integrated cross- cutting station. Specially designed for sawmills with limited space
- Drive shaft: **energy efficient drive**

AUTOJET PRO

- **Laser scanner from top and bottom** with triangulation lasers: space and time saving as the boards do not need to be turned
- High flexibility with telescopic system **with 6 variable saws**
- Powerful energy saving drives with one drive motor on each side
- Robust execution enables **high cutting depths**
- Combinable with automatic board cross cutt station

A good price and space saving alternative, universally to be used for small and big sawmills.





Technische Daten Autojet

Drive
1 x 55 - 110 kW*
speed 60 - 180 m/min.*

System
3 - 4 movable saws*, digital hydraulic blade positioning system with uppercut saw

Measuring
laser during cross feedquantity above and below*, based entry of cutting programme by computer

Cutting dimensions

Timber width (incl. curve)	80 - 650 mm*
Cutting width (mm)	60 - 500 mm*
Cutting depth (mm)	18 - 100 mm*
Cutting lenght (mm)	1000 - 6000 (-8000) mm*
Cutting rate	up to 25 boards/min.

* depending on a version

Technical data Autojet Pro

Drive
2 x 75 - 2 x 160 kW*
speed frequency controlled 90 - 280 m/min.*

System
4 - 6 movable saws*, digital hydraulic blade positioning system with uppercut saw

Measuring
laser during cross feedquantity above and below*, based entry of cutting programme by computer

Cutting dimensions

Timber width (incl. curve)	80 - 800 mm*
Cutting width (mm)	60 - 650 mm*
Cutting depth (mm)	18 - 150 mm*
Cutting lenght (mm)	1000 - 6000 (-8000) mm*
Cutting rate	up to 55 boards/min.

* depending on a version

BRAUN-CANALI
Band Saw Technology

MÖHRINGER
makes timber fit

Simon Möhringer Anlagenbau GmbH
Industriestraße 1
D-97353 Wiesentheid
Tel.: +49 (0) 93 83 / 950-0
Fax: +49 (0) 93 83 / 950-30
info@moehringer.com
www.moehringer.com

- High tech timber processing
- integrated complete solutions
- Circular saw technology
- Chipper canter - profiling technology
- Framesaw technology
- Bandsaw technology
- Timber sorting lines
- Log yards
- Electronics and computer controls