MÖHRINGER
bringt Holz in Form

12 INNOVATIONS IN 2010
OF COMPANY MÖHRINGER

1st INNOVATION: AUTOJET RIP
THE NEW RESAWING TECHNOLOGY OF MÖHRINGER

In 2010 our company, Simon Möhringer Anlagenbau GmbH, Wiesentheid can review on a company history of 125 years. Family managed in fourth generation by Dr.-Ing. Stefan Möhringer we are a reliable and professional partner of the woodworking industry. We realized numerous innovations for the anniversary year. Our first innovation in 2010 is the new resawing technology for hardwood, the **AUTOJET RIP**.

The resawing of hardwood makes its own requirements to the machine technology. We proved our experience in the cutting and resawing of hardwood by numerous applications in the parquet and furniture industry. Now these experiences are resulting in the new series **AUTOJET RIP**. The **AUTOJET RIP** consists of 6 modular integratable elements:

1. The precise laser measurement of the board shape

By means of precision lasers the board surface is measured from both sides to determine the available useable surface. Cracks can also be identified and considered. On demand it can also be combined with a full-surface optimization, the ripscanner of WOODEYE.

2. The board optimization for resawing with Projection of the cutting image

The new software was developed especially for the resawing when the operator wants to intervene qualitatively in the board optimization. The computer proposes automatically the quantified best partitioning of the board, the cutting lines are projected immediately onto the completely aligned boards. Now the operator is able to consider faults of the board surface and can change the cuts by pushing a button. Different optimizations are possible:

a. Edging with best recovery
b. Separating in individual widths
c. Ripping out of faults or core products
d. Separation along the wane as a semi board and finish cutting in the 2nd passage

3. The soft and gentle alignment

The alignment table was developed especially for dried wood to align also cracked and crooked boards gently but fast to the ideal cutting line. A continuous chain bed guides the board perfectly longitudinal without “pushing-away” the bend to avoid provoking of breaking the board. The heavy-capacity table reaches a cycle time of 30 boards per minute.

4. The circular saw aggregate

Equipped with a chain bed in front of and behind the circular saws as well as adjustable rubbered rollers the cutting aggregate guarantees a precise guiding of the sawn products with minimal pressure. 2 to 6 adjustable sawing flanges ensure high flexibility and every possible cutting pattern combination. Feed speeds up to 240 m/min. and drive capacities up to 2 x 160 kW are possible. The saw aggregate inclusive the drive and the hydraulic aggregate is completely protected with cabin and therefore sound and dust isolated.

5. The unique separation system

Chips are separated automatically from the products without the disturbance of a riving knife. The products can additionally be separated into 3 different qualities during the same passage, for example to separate a faulty core or to process qualities separately or to stack different quality categories.

6. Automatic semi-board return

If required, a semi-board is automatically returned, measured again and represented to the operator, of course aligned at the correct wane and optimized according to yield.

The resawing line AUTOJET RIP is predestined for the cutting of hardwood: high flexibility, gentle timber manipulation, precise chain guiding for glue-able cuts and unique separation of chips!

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Cross feed and laser scanner

Positioning table with laser projector for controlling / change of the cutting lines

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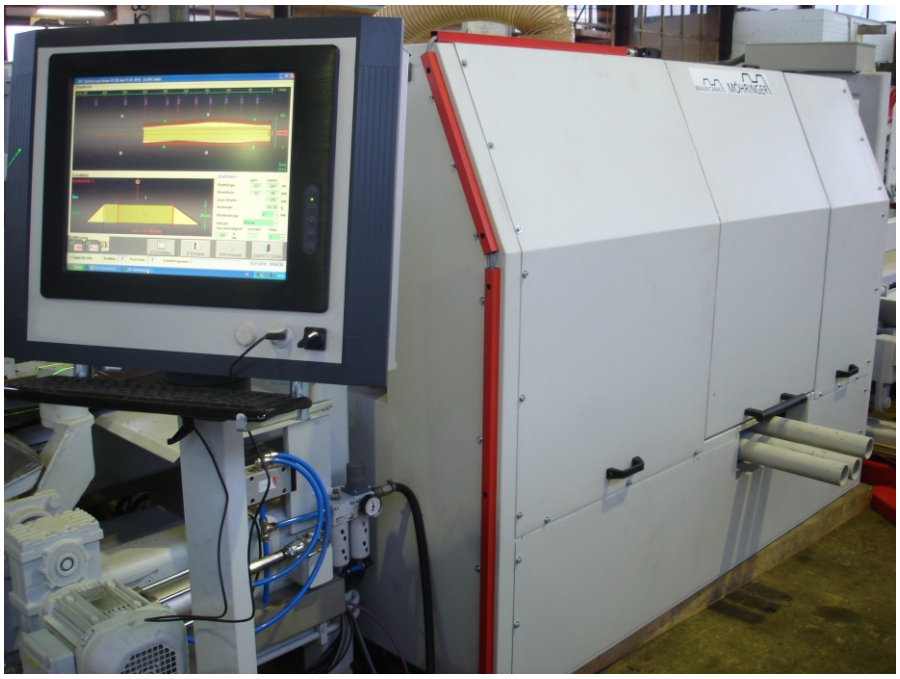
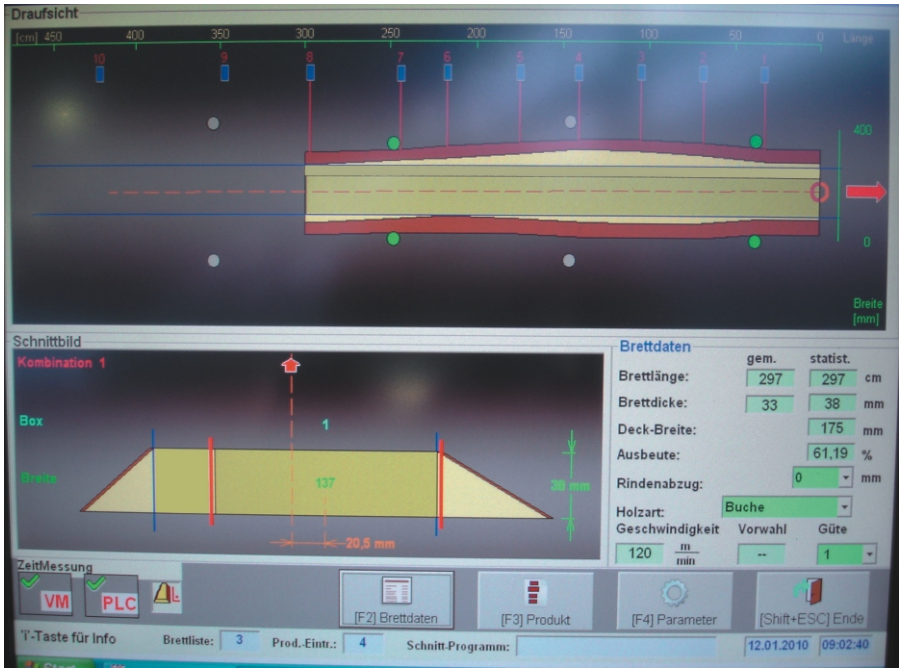


Edging circular saw with noise and dust protected cabin



Touch screen with optimizing software

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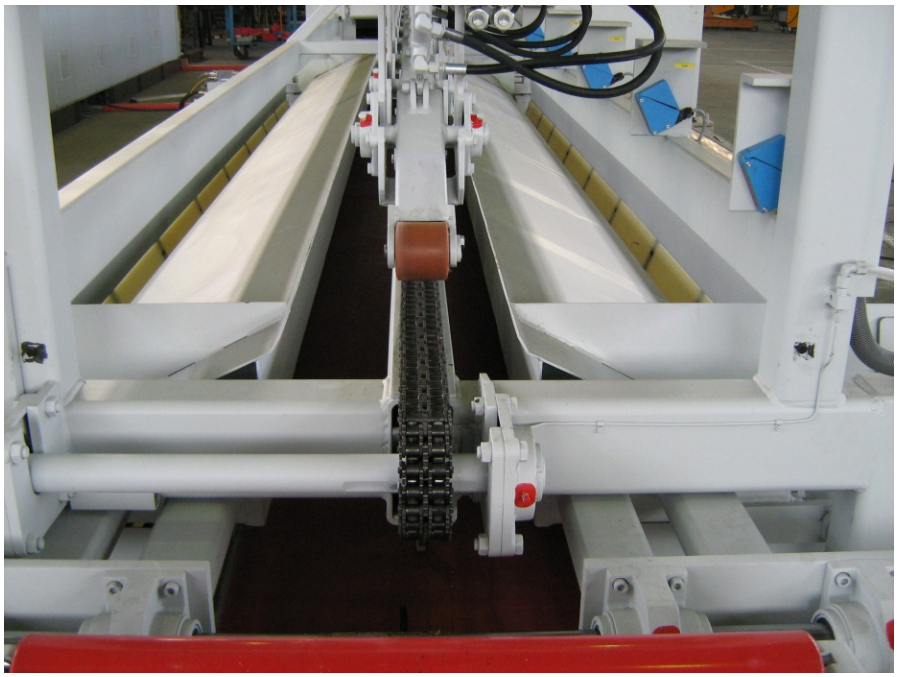
Edger outfeed with central chain and two movable separating lamellas



Edger outfeed with transport belt at the bottom side:
3 different qualities can be separated

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