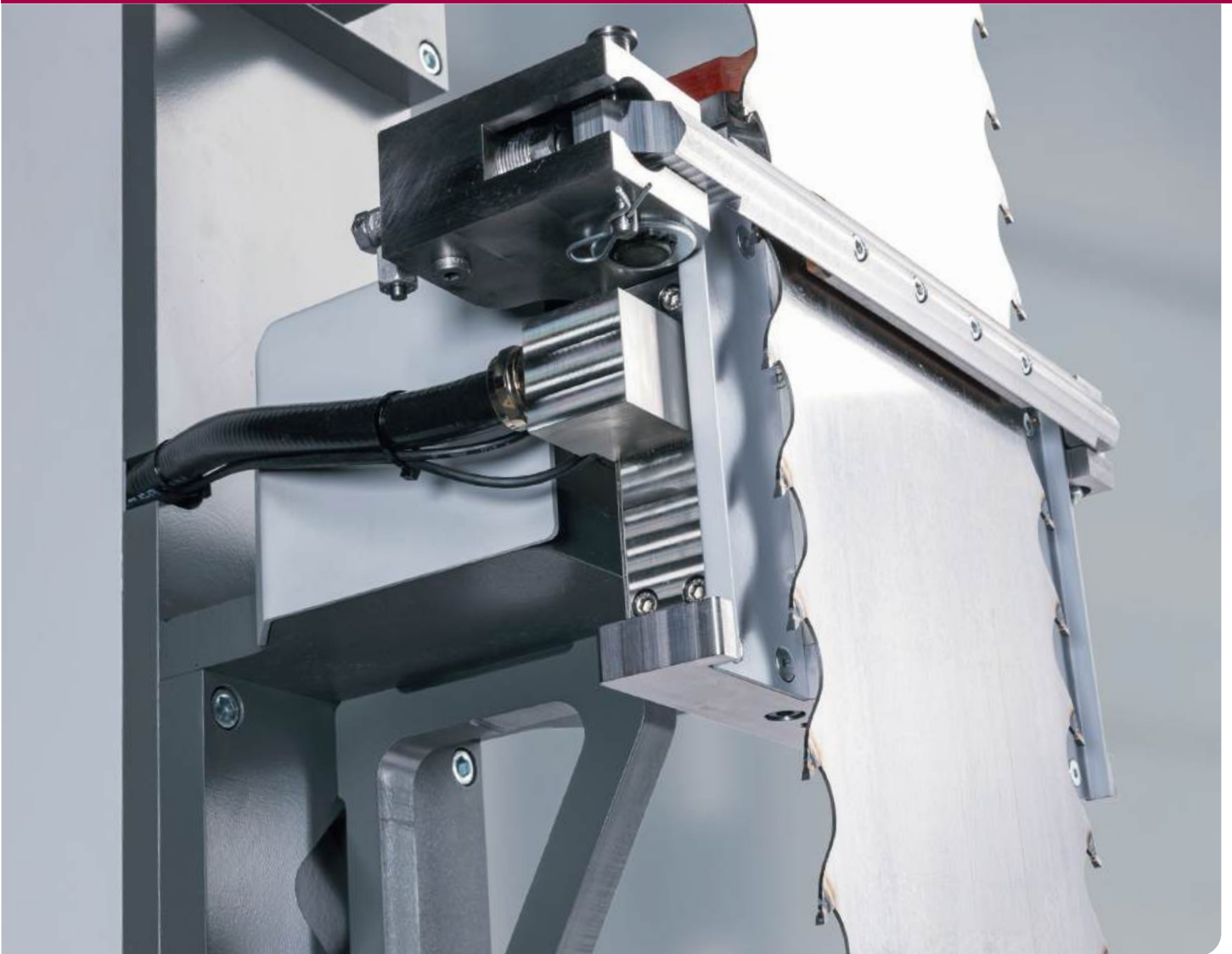


Consistently on track – for every log

FLYING BANDSAW

M | ONE

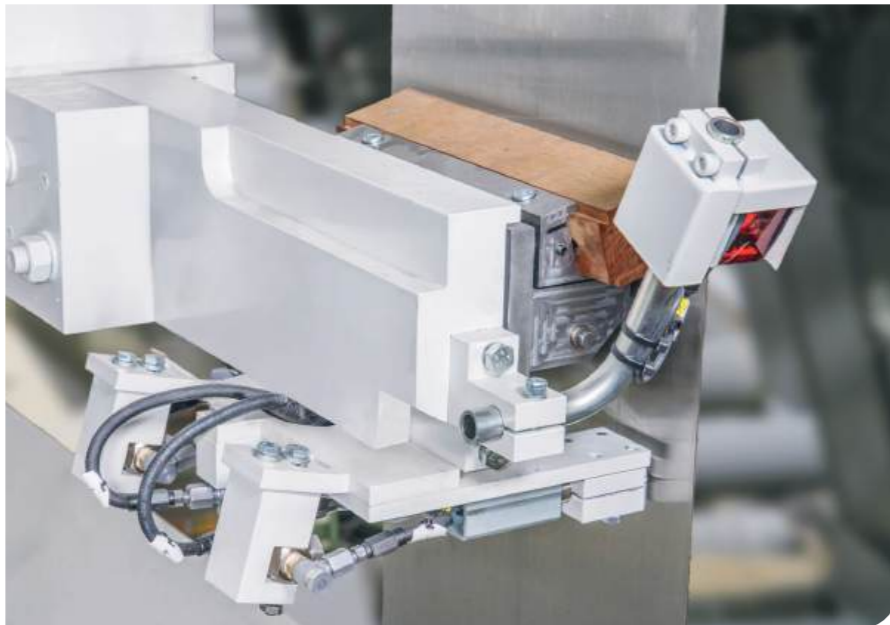


EWD

We build sawmills.

Intelligent blade guide with **active magnetic control**

With the classic pressure guide of the band saw blade, the operator can only influence the path of the saw blade manually.



If deviations occur due to excessive feed speed or special wood characteristics, the integrated blade tracking sensor detects them and issues a warning message.

In such cases, the operator reduces the feed speed of the log band saw carriage to guide the saw blade back to the correct cutting line.

This reduced speed is maintained until the sensor no longer detects a deviation and the blade path returns to within the permissible tolerance range.

Only then can the feed speed be gradually increased again—while continuously monitoring the sensor signal and performing manual checks to ensure the optimum working range is not exceeded.

M | ONE

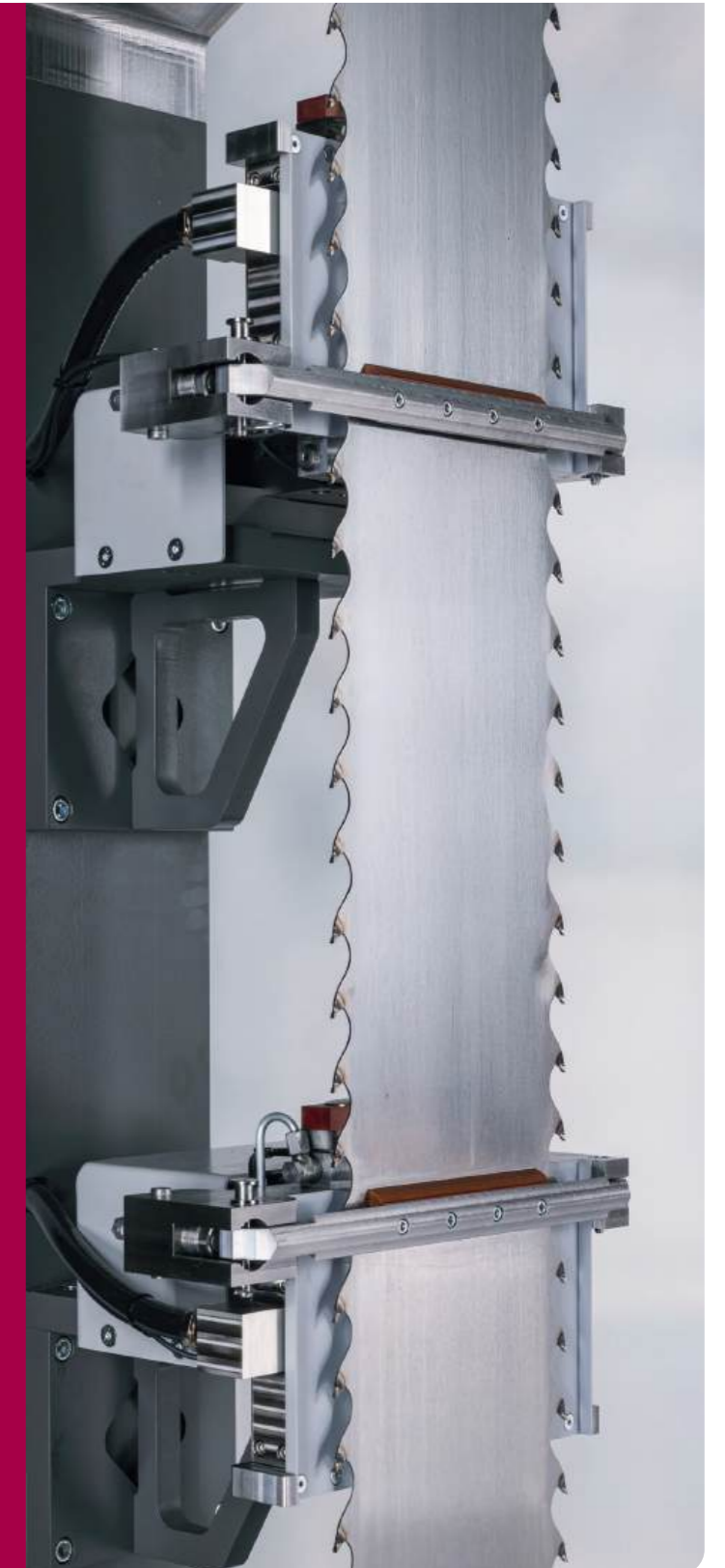
The Flying Bandsaw M | ONE, on the other hand, features an active bandsaw blade guiding system:

Intelligently controlled magnetic fields guide the blade contactless and precisely along the cutting path, correcting any deviations in real time—without the need for operator intervention.

The unbeatable advantage:

A consistently stable production process with consistently high cutting accuracy!

An investment that pays off quickly and delivers lasting value.



Power. Precision. Consistency.

When technology does more than just function, it creates advantages that make a difference in the details.

■ Feed speed

The blade run is automatically corrected despite higher chip space filling.

Advantage: Feed speed can be increased by up to 15% while maintaining the same cutting accuracy.

■ Maximum cutting precision for higher yield

Precise blade guidance enables exact cuts and higher material yield thanks to smaller cutting dimensions or a thinner saw kerf.

■ Reduced stress on the band saw blade

Thanks to fewer bending operations-minimizes wear and significantly extends its service life.

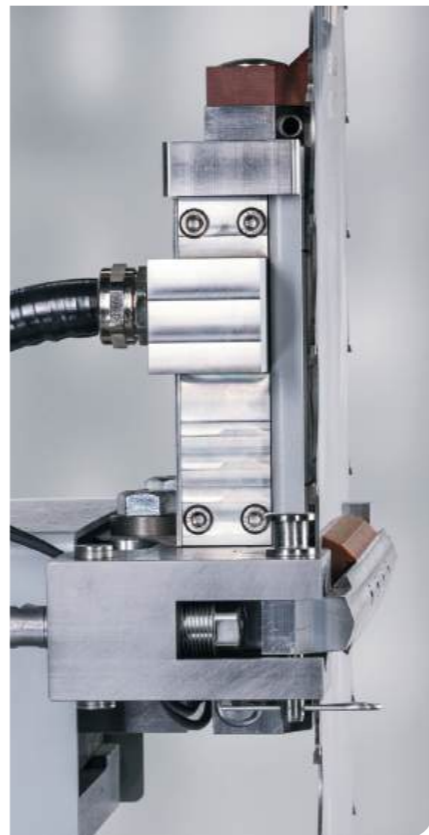
■ Self-cleaning design

Open design and automatic compressed air cleaning reduce contamination and machine stops

■ Seamless Product Transition

No disruption despite technology change. New technology integrates smoothly without impacting existing processes.

Current EWD systems can be easily retrofitted for compatibility.



Performance that stays on track.

M | ONE

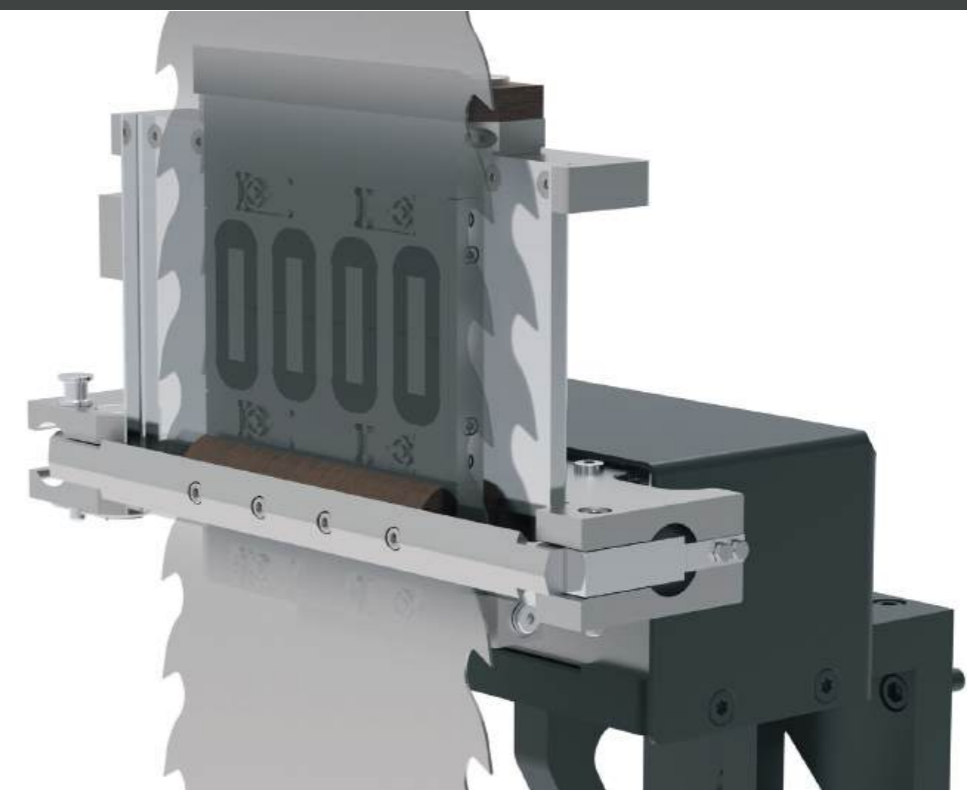
Technical data

Wood types:	Hardwood and softwood
Machine types:	Log bandsaws and reducing bandsaws (EBT and EBB) 0 and 17°
Saw blade thickness :	1,47 – 2,10 mm
Saw blade width max.:	250 mm
Cutting height max.:	1000 mm
Cutting speed:	45 – 75 m/s
Cutting direction:	Forward or forward and backward cut
Magnetausführung:	4-zone mono magnet with electrical connected load

Results

Cutting accuracy: Standard deviation $s_1 = 0,3 - 0,4$ mm or halving of the cutting tolerance on the existing system

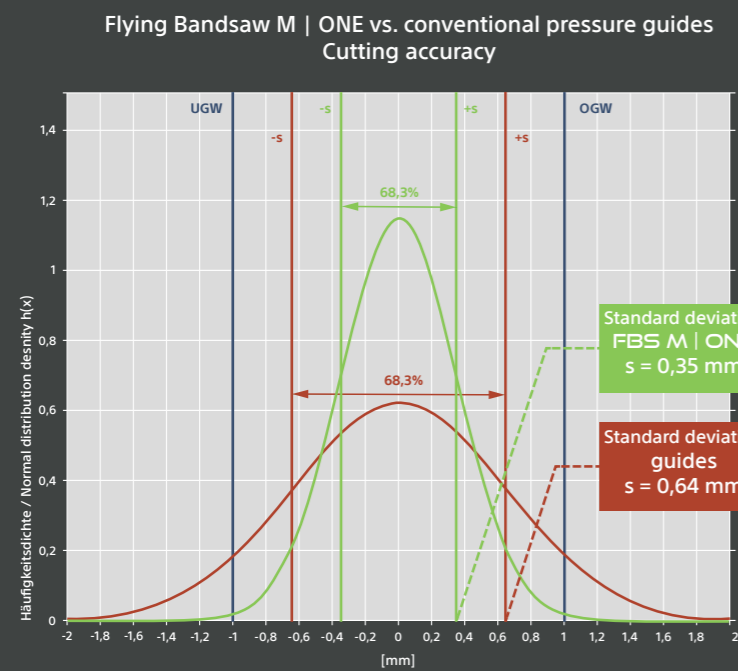
Feed speed: Up to 15% higher feed speed compared to the band saw with pressure guide (up to the maximum system feed speed) with the same or better cutting tolerance compared to the band saw with pressure guide.



Flying Bandsaw versus Pressure Guide

In real-world operation, the Flying Bandsaw M | ONE was compared with a standard pressure guide on the same machine.

The diagram illustrates the cutting precision of both guide types.



The board thickness tolerance of ± 1 mm is represented by the lower limit value (UGW) and the upper limit value (OGW).

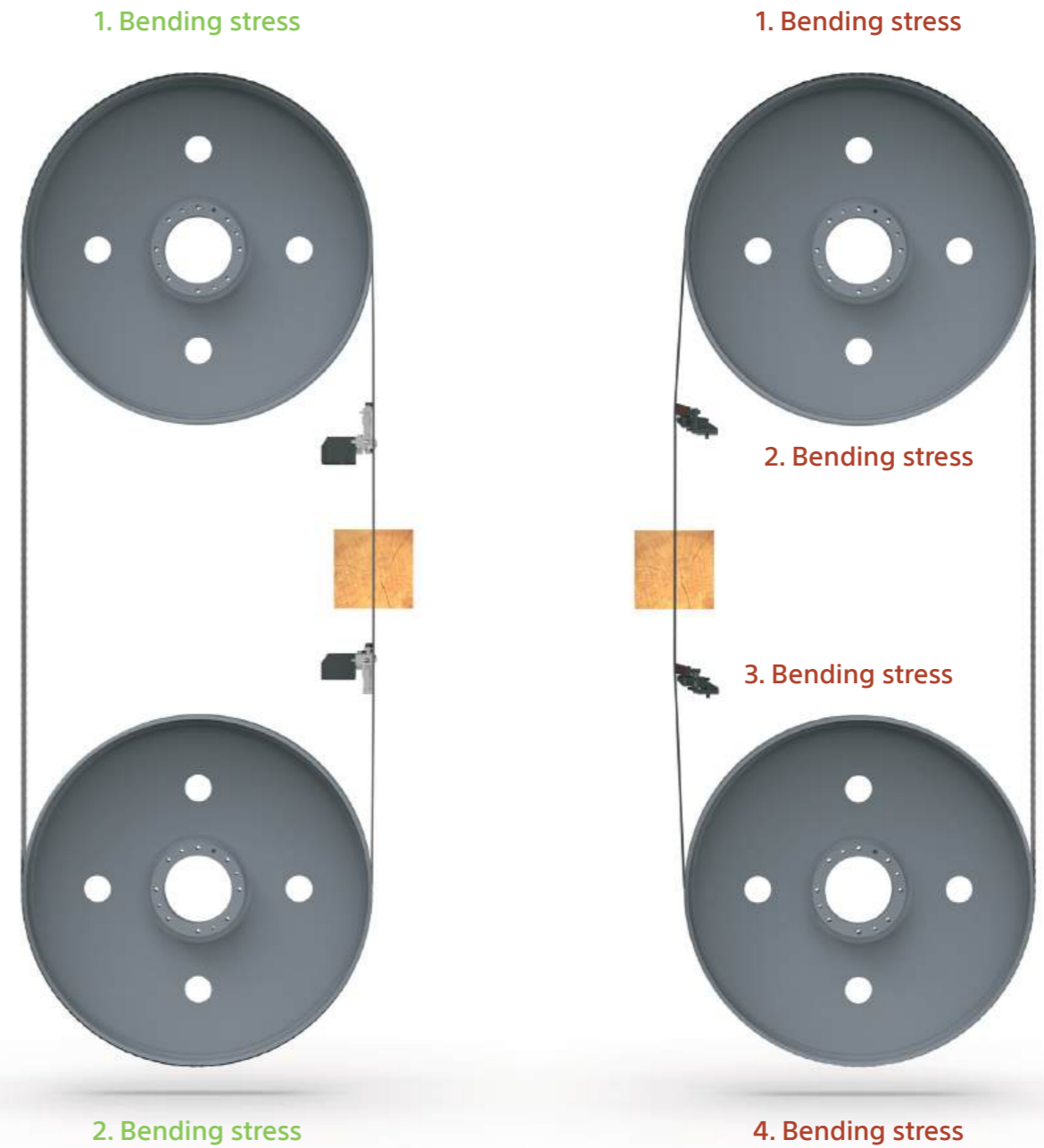
With the FBS M | ONE, the standard deviation ($s = \pm 0.35$ mm) is significantly lower than with the conventional pressure guides ($s = \pm 0.64$ mm).

This means:

The M | ONE achieves greater precision in board thickness. The reduced tolerance allows for a smaller cutting dimension across all products on the bandsaw – with a positive effect on the yield of sawn timber.

M | ONE

Conventional pressure guides



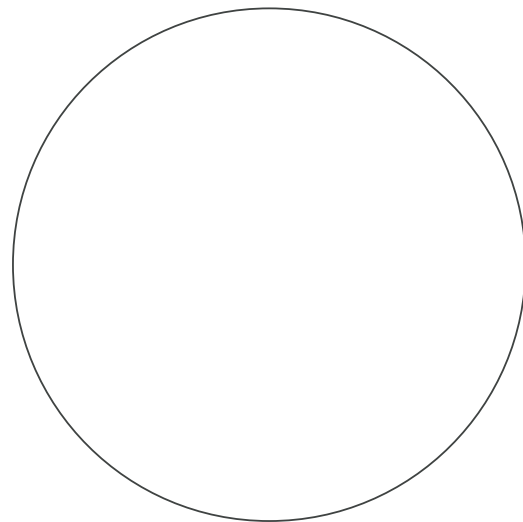
25% less bending stress with FBS M | One. This results in a longer service life and extended lifetime of the band saw blades.

In addition, the contactless magnetic guidance system generates no friction – and therefore no wear on the guides.



We build custom, highly efficient sawmills where everyone works safely and with passion.

We stand for quality awareness, reliability, and customer focus – since 1862.



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