

Sawyers light on their feet with mobile mills

Double pre cutters

Two manufacturers with different views on the industry show the same dedication to excellence

The challenge of supplying mobile sawmilling technology is tough. This is not only from a technical perspective in terms of keeping up with the latest innovations and possibilities to be incorporated into mobile units, but also keeping up with the demands of the most fleet-of-foot sector of the market.

Mobile sawmill users are by their nature the great adapters of the industry. They see opportunities faster than most and move to capitalise on those opportunities as fast as their equipment will allow. This is where the suppliers of the best range and the most versatile equipment really come into their own.

In this year's review of mobile sawmilling technology, International Forest Industries takes a look at two of the best manufacturers going around, which have made a name for themselves by providing exactly those qualities – versatility and range. And of course more than their fair share of innovation.



RESCH & 3 has been producing stationary and mobile horizontal band saws for Profiline use for over 60 years. The company does not do mass production but rather manufactures each sawmill to the specification of each customer.

Sawyer Hofer Anton has been working with his DM 1050 PROFI for three years. When Anton originally bought the unit he had been searching for a mobile, but at the same time robust and professional machine. But it was the travelling cab and the variety of accessories rarely found in industrial sawmills that convinced him to make the purchase.

With the DM 1050 PROFI mobile band saw, logs up to 1.1 m in diameter and a length of 13 m can be cut into planks, squared timber or slats.

Quickly ready for transport

Thanks to the six hydraulic support

legs, hydraulically unfolded extensions and hydraulic pivoting fixture, the entire system is ready for transport in 30 minutes. The machine can be mounted and aligned within one hour of arriving on site.

The DM 1050 PROFI has a total weight of 7.5 t and is allowed on the road at a maximum of 40 km/h. Optional RESCH & 3 offers a special suspension for speeds up to 80 km/h.

Main drive with a diesel engine

The diesel engine with 55 KW allows independent working without being constantly dependent on a power supply. In addition, the diesel engine has the advantage that the speed can be optimised on the saw blade.

Especially in winter, with frozen wood, it is important that the speed is reduced.

Cab

The travelling cab lets the operator work in a pleasant, low-noise,



winter when sand and stones are frozen in the bark, that even on the cut side the bark is cleaned. This dramatically increases the maintenance interval for the saw teeth.

Transport of the mobile bandsaw DM 1050



Automatic plank remover

Automatic adjustment of the saw blade guides

The saw blade guides are placed automatically as close as possible to the log at both sides. This has the advantage that the operator need not pay attention to the saw blade guide and can focus more on the cut.

Guaranteed cutting

The monitoring blade deviation continuously controls the cutting accuracy. If the entered tolerance range is exceeded, an acoustic signal sounds in the cabin and the feed rate is reduced.

Pressure guides

Hydraulic pressure guides give the saw blade extra support and reliable guidance. They are retracted during reverse travel to avoid heating the saw blade. At

entrance the sawblade doesn't vibrate and the feed can be increased.

Crosscutter

During cutting, each plank can be trimmed automatically to the desired length. Finished lengths of longer timber can thus be taken directly from the mill.

Automatic plank remover – a major work aid

In order to cut high-quality sawn products, it is important that the quality of the wood is visible after each cut, which means that each individual plank must be removed immediately after being sawn.

The automatic plank remover makes this possible: Depending on the specific cutting operation, each individual plank, squared timber or flitch is removed automatically

during the return travel phase and placed alongside the machine.

Outfeed rollers

When sorting the sawn timber, it is important that the side cuts are separated from the finished cuts. While the planks are laid on their sides with the aid of the turning chains, the outfeed rollers transport the finished cuts longitudinally toward the front.

Intelligent and practical automatic log measurement

The log is measured automatically during the first cut. The data is shown in cubic metres on the screen and stored in the system. Various information, such as wood sort, percentage bark content, customer data and so on, can be entered and selected.

The measured logs can be filtered by customer, type of wood or date and printed directly in the cab or via USB stick at home on a PC.

Practical sawblade replacement

For saw blade replacement, the pressure on the blade tensioning system can be released from the cab, and the protective housing is opened by hydraulic actuators.

The saw blade can be easily removed and replaced. The machine is ready for use again in very little time.

dust-free environment. The entire system can be operated from the cab using two proportional-control joysticks and a display screen.

A direct view of the sawn timber also ensures constant quality control. The cutting height setting can be adjusted easily for the desired sort of sawn timber by using the display screen with several predefined cutting programs.

This facilitates optimum log use.

Dual pre cutters

The pre cutters provide clean entrance and exit faces for the saw blade. That's important especially when there is dirty timber or in



Stationary and mobile horizontal bandsaws, custom designed, produced and assembled.

The machine company since 1955



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