



Didaktik
Manufaktur
Hamburg

2026

MODULE WW-SM

Sawmill & Timber Processing module

- 3 TECHNICAL CONFIGURATIONS
- DIDACTIZED PROGRAM INCLUDED
- ON SITE OR MOBILE UNITS
- ACCESSORIES INCLUDED



LABNET SYSTEMS
TECHKNOWLEDGY

EXTENSION MODULE WW-SM

SAWMILL & TIMBER PROCESSING MODULE

Mobile & Stationary Log Band Sawmills – Primary Timber Processing

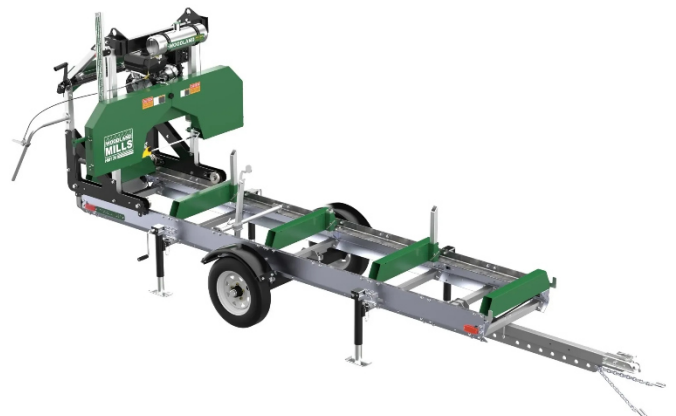
Modular, expandable solutions for vocational training, professional timber processing and commercial wood production.

1. Module Overview

- The Sawmill & Timber Processing Module provides comprehensive technical solutions for converting raw logs into sawn timber, including boards, planks, beams and construction timber.
- Designed for vocational training institutions, forestry departments, woodworking workshops and commercial production facilities, the module combines modern mobile and stationary band sawmills with essential timber-handling, cutting, maintenance and quality-control equipment.
- Depending on the required production capacity, log dimensions and operational conditions, DMH offers a range of configurations, from compact portable sawmills to heavy-duty industrial installations.
- The module can be integrated into existing Woodworking & Carpentry, Forestry, Agriculture and Construction Departments, or established as an independent, income-generating production workshop.

2. Available Sawmill Configurations

SM 01 – Compact Mobile Sawmill



Small-scale timber processing and practical training

- ➔ Approximate log diameters: 30–50 cm
- ➔ Compact, portable or modular construction
- ➔ Petrol or electric drive options
- ➔ Manual log positioning and cutting adjustment
- ➔ Suitable for boards, planks, battens and small construction timber
- ➔ Ideal for rural workshops, vocational schools and small enterprises

SM 02 – Professional Mobile Sawmill



Flexible timber production at different locations

- ➔ Approximate log diameters: 50–80 cm
- ➔ Trailer-mounted or transportable configurations
- ➔ Petrol, diesel or electric drive options
- ➔ Manual or optional hydraulic log handling
- ➔ Adjustable cutting thickness and feed systems
- ➔ Suitable for on-site timber processing, forestry operations and decentralized production

SM 03 Stationary Professional Sawmill



Regular production of construction and commercial timber

- ➔ Approximate log diameters: 70–100 cm
- ➔ Robust stationary sawmill structure
- ➔ High-performance electric drive
- ➔ Extended cutting lengths and capacities
- ➔ Optional hydraulic log loading, turning and clamping
- ➔ Suitable for continuous professional timber production

SM-04 – Heavy-Duty Large Log Sawmill



Industrial processing of large-diameter logs and hardwood

- ➔ Approximate log diameters: 100–150 cm or more
- ➔ Heavy-duty industrial construction
- ➔ Powerful cutting systems for demanding hardwood applications
- ➔ Hydraulic log positioning and handling
- ➔ Optional automated feed and cutting-thickness control
- ➔ Suitable for industrial sawmills and large-scale timber processing facilities

3. Complementary Equipment & Accessories

Depending on the selected configuration, the module can include:

Log Handling & Preparation

- Log lifting, turning and positioning equipment
- Log tongs, cant hooks, rollers and support systems
- Measuring, marking and cutting-layout tools

Timber Processing & Finishing

- Board edging and trimming saws
- Cross-cutting equipment
- Timber sorting and stacking accessories
- Optional planing and thicknessing machines

Blade Maintenance & Workshop Equipment

- Band saw blade sharpening machines
- Blade tooth-setting equipment
- Blade tensioning and inspection tools
- Maintenance workbench and tool cabinets
- Spare blades, replacement parts and consumables



Quality Control, Safety & Storage

- ➔ Timber moisture meters and dimensional measuring tools
- ➔ Timber stacking and drying accessories
- ➔ Sawdust and waste collection systems
- ➔ Machine guards and emergency-stop equipment
- ➔ Personal protective equipment and safety accessories

4. Practical Training & Educational Applications

For vocational training institutions, the module can be supplied with a **structured technical curriculum**, including **predefined practical exercises, worksheets**, safety procedures and assessment materials.

Main training subjects include:

- ➔ Timber identification, characteristics and classification
- ➔ Log measurement and cutting optimization
- ➔ Operation of mobile and stationary band sawmills
- ➔ Production of boards, planks, beams and battens
- ➔ Saw blade selection, sharpening and maintenance
- ➔ Timber moisture measurement and drying principles
- ➔ Production planning, yield calculation and waste reduction
- ➔ Machine safety, preventive maintenance and quality control

Examples of predefined practical exercises:

- ➔ **Exercise 01 – Log Measurement & Cutting Planning:** Measure a raw log, determine its dimensions and prepare an optimized cutting plan.
- ➔ **Exercise 02 – Production of Sawn Timber:** Set up the band sawmill and produce boards of predefined thicknesses, checking dimensional accuracy.
- ➔ **Exercise 03 – Blade Maintenance & Adjustment:** Inspect, sharpen and adjust a band saw blade according to manufacturer specifications.
- ➔ **Exercise 04 – Timber Yield & Cost Calculation:** Determine material recovery, cutting losses, production time and estimated processing costs.

Training can be adapted to the institution's qualification level, available machinery and practical training objectives.

5. Commercial & Economic Benefits

- ➔ Beyond vocational education, the module offers significant opportunities for productive and income-generating activities.
- ➔ Raw logs can be converted into marketable timber products for local construction, furniture manufacturing, carpentry, packaging and other woodworking applications.
- ➔ Mobile sawmills enable decentralized timber processing near legally authorized harvesting locations, potentially reducing the transportation of unprocessed logs.
- ➔ Stationary installations can support continuous production and supply other departments, including Woodworking & Carpentry, Construction and Furniture Manufacturing.
- ➔ The integration of timber drying, finishing and waste-utilization equipment can further increase product value and improve resource efficiency.

Key advantages:

- **Local value creation and employment opportunities**
- **Reduced dependence on imported processed timber**
- **Flexible production capacities and progressive expansion**
- **Practical training under real production conditions**
- **Potential revenue generation and partial or full operational cost recovery.**
- **Improved timber utilization through optimized cutting and processing**

6. DMH – Integrated Technical Solutions

DMH provides modular, scalable solutions adapted to the technical, educational and commercial objectives of each institution.

Depending on project requirements, our scope can include technical consulting, equipment selection and supply, workshop planning, installation and commissioning, operator and trainer instruction, technical documentation and after-sales support.

The Sawmill & Timber Processing Module can be delivered as an extension to an existing department or as a complete, stand-alone timber-processing workshop.

From raw logs to marketable timber – combining vocational skills, practical technology and sustainable local value creation.

Your Didaktik Manufaktur Team !