

Innovations for the real world.

# Sawmill Technology



[stoiber.eu](http://stoiber.eu)

# Stoiber







# Innovative machinery for wood processing.

Stoiber develops and implements custom machinery for wood processing, focused on reducing physical work, optimising processes, and boosting the competitiveness of our customers. From completely new machines to targeted extensions of existing systems and fully customised solutions, our experienced team supports you every step along the way, from the initial idea to the final product – reliably, practically, and customer-focused.

## Development

**Detailed planning for perfect results.**

Every machine starts with a clear requirement from practical experience. We listen, analyse your needs and develop a thought-out solution, including mechanical design and modern control technology. The result is a technically sophisticated, durable system that integrates seamlessly into your processes, and optimises them for lasting efficiency.

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## Production

**Precise manufacturing by experienced professionals.**

Our machines are manufactured entirely in-house, with a high level of vertical integration, state-of-the-art technology, and by experienced experts. Electrical and hydraulic assembly is also carried out by our seasoned experts. For our customers, this results in fast implementation, lasting quality, and absolute reliability down to the smallest detail.

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## Service

**Lifetime support, you can count on.**

With Stoiber, you are not just deciding for a machine – you're choosing a strong, long-term partnership. Our service supports you throughout the entire life cycle, with fast technical assistance, dependable spare parts supply, and a clear focus on long-term operational reliability.

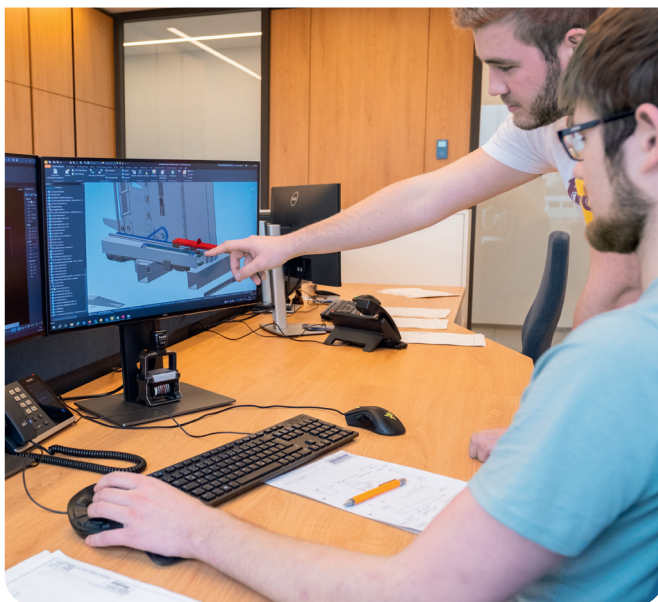


# From idea to installation – everything from a single source.

At Stoiber, all steps are perfectly synchronised - from the initial idea to the ready-to-operate machine. Due to our in-house development, production, assembly, and commissioning, you receive a comprehensive solution from a single source - efficiently implemented, precisely manufactured and built to last.

## Development and Planning

At Stoiber, the foundation of every machine lies in a thorough understanding of both practical requirements and our customers' needs. During the development and design phase, we craft tailored technical solutions that meet these demands. Our design engineers combine deep technical expertise with years of experience to develop customised systems. Additionally, we handle the entire planning and implementation of the control system in-house, ensuring optimised interfaces and seamless integration into all our machines.



## Component Manufacturing

Production begins in our own factory, where each component is meticulously crafted. During sheet metal processing, components are precisely cut, bent, and prepared for the next stages. In steel construction, we produce customised parts that combine stability, precise fit, and high load-bearing capacity. Our in-house paint shop provides surface finishing, ensuring functional protection and aesthetic quality. All steps are carefully coordinated, following rigorous quality standards to guarantee consistently reliable results.







### Final Assembly and Commissioning

During final assembly, all individual parts, including electrical and hydraulic components, are carefully assembled and undergo rigorous testing. The entire assembly process is completed in-house, ensuring consistent quality and optimal efficiency. In the final step, the machine is commissioned: all functions are thoroughly tested, mechanical components finely adjusted, and software precisely configured. The result is a solution that's not only perfectly tailored to your specific requirements but also operates reliably and accurately from the very first moment.





# Gantry Nailing Machines

Innovative solutions for the series production of pallets, crates, and wooden box components.

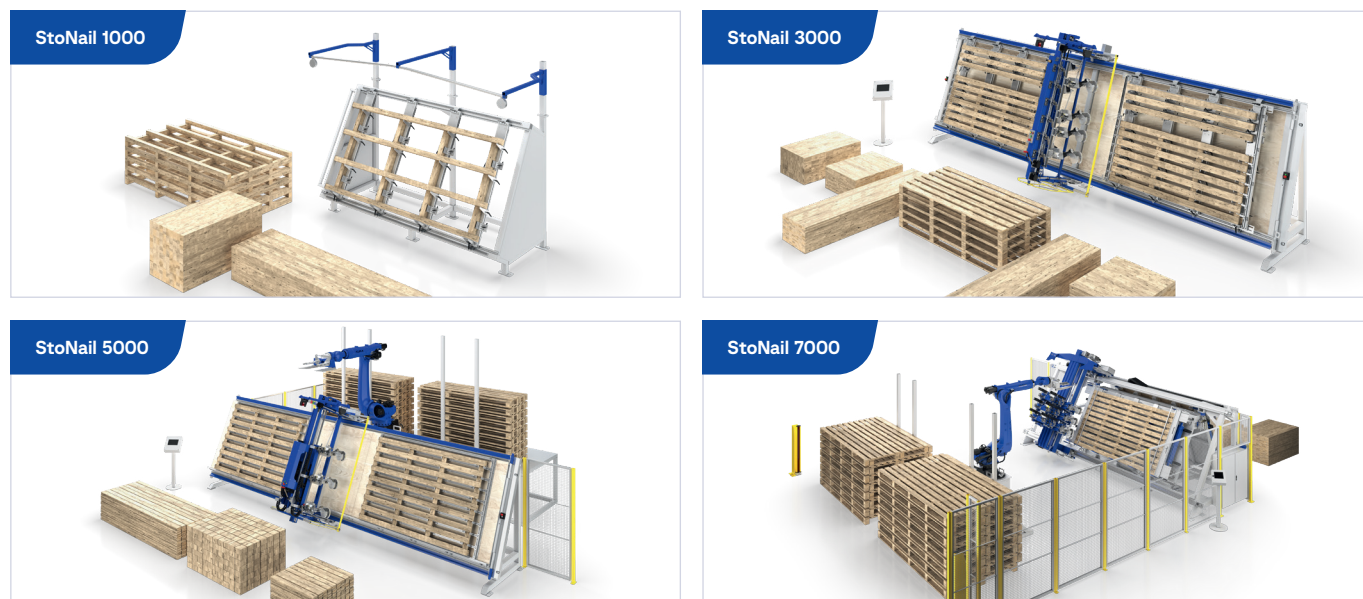
With the StoNail gantry nailing machines, you can efficiently and precisely produce a variety of pallets, crates, and box components – all with a single machine. Each machine is manufactured to your desired length and customised to meet your specific requirements. Whether you need manual or automated solutions, Stoiber provides the perfect machine for every production need.

## Standard Dimensions

	Machine length [mm]	Working area length [mm] (single operation)	Working area length [mm] (alternating operation)	Machine height [mm]	Working area height [mm]	Machine depth [mm]
StoNail 1000	3.500	3.000	–	2.850	1.700	1.600
	4.500	4.000				
StoNail 3000 StoNail 5000	6.500	4.000	1.500	3.000 / 3.200	1.700 / 2.000	2.600 / 2.750
	8.500	6.000	2.500			
	10.500	8.000	3.500			
	12.500	10.000	4.500			
StoNail 7000	8.500	5.500	2.000	3.000 / 3.200	1.700 / 2.000	2.750 / 2.900
	10.500	7.500	3.000			
	12.500	9.500	4.000			



# Overview



## Technical Comparison

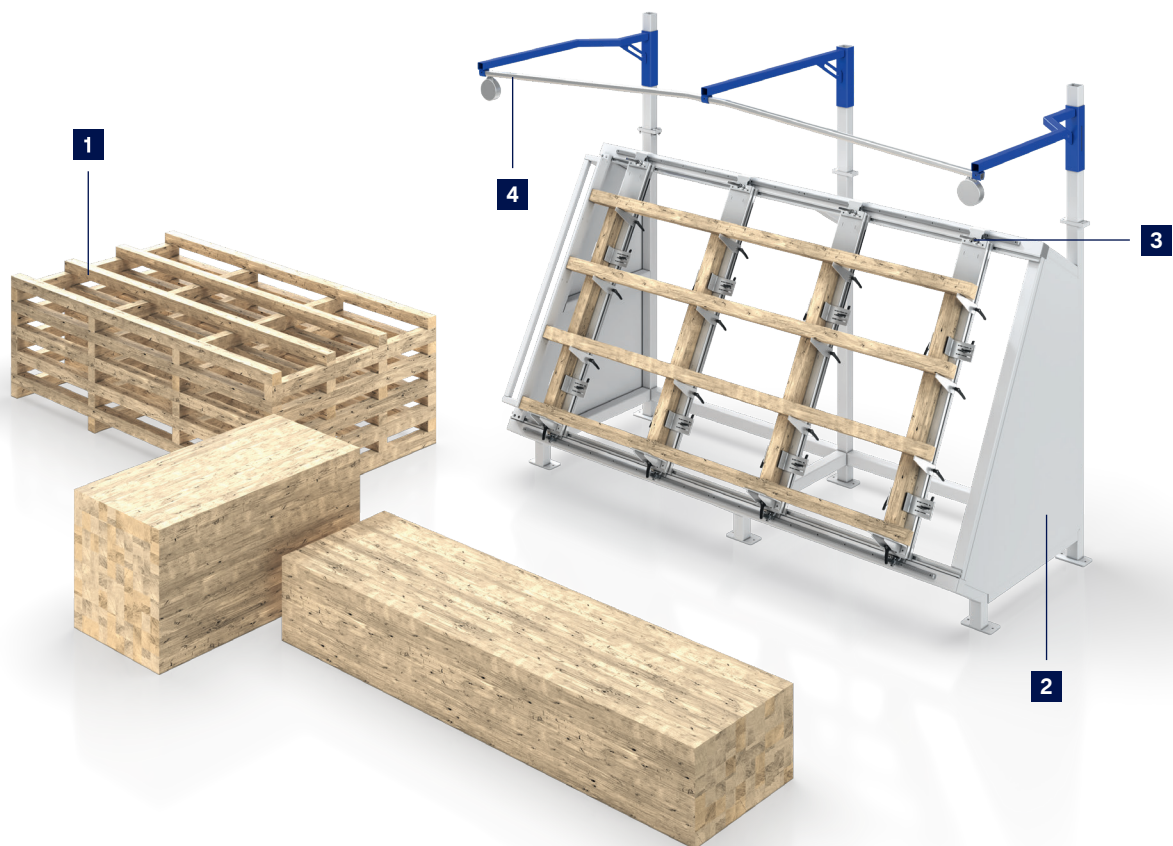
	StoNail 1000	StoNail 3000	StoNail 5000	StoNail 7000
Differences at a glance	Our flexible nailing table for manual production.	Our gantry nailing machine for efficient pallet production.	Our efficient gantry nailing machine for more flexibility.	Our best and most flexible gantry nailing machine, including for large dimensions.
Degree of automation	–	Automated nailing gantry with grouped nailer control	Fully automated nailing gantry with individual nailer control	Fully automated nailing gantry with independently driven nailer pairs, including height adjustment
Flexible nail position	–	No	Yes	Yes
Simultaneous nailing of complex patterns	–	No	No	Yes
Set-up effort	–	Medium	Low	Very low
Touch display [inch]	–	7	12	12
Intelligent path optimisation	–	No	Yes	Yes
Nailing gantry travel (y-axis) [mm]	–	300	750	1.250
Number of nailers	2	5-12	5-8	6
Max. nail length [mm]	160	100	100	160



# StoNail 1000

Our flexible nailing table for manual production.

The StoNail 1000 is a compact and flexible nailing table for the manual production of pallets and crates. With up to two pneumatic nailers and a flexible clamping system, the machine is ideal for smaller quantities and frequently changing products. The nailing table with a 60° angle of inclination ensures an ergonomic working position. Due to easy handling and short set-up times, the StoNail 1000 is an economical solution for handheld applications.



## Key Features

1. **Versatile** manufacturing possibilities
2. **Durable construction** with 60° tilt angle for ergonomic operation
3. **Modular clamping system** for various pallet & crate layouts
4. **Easy handling** with balancer



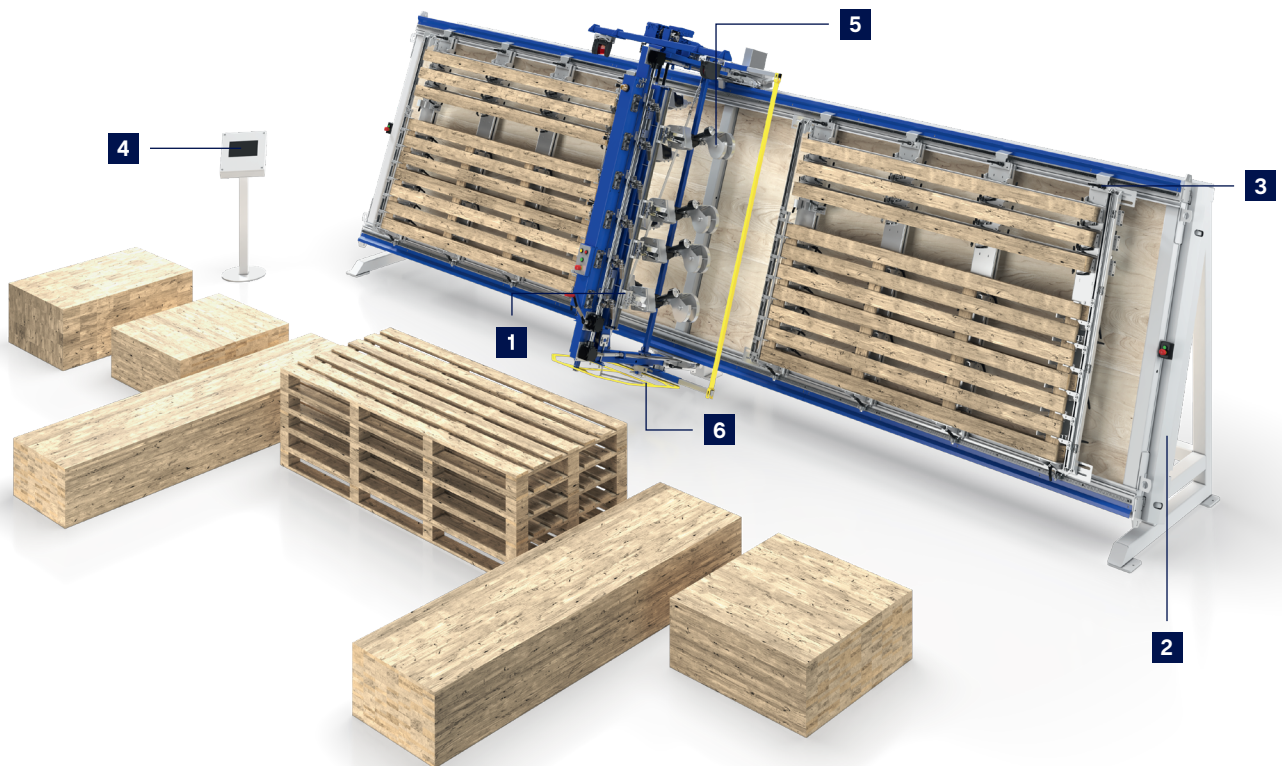
**Discover the entire machine:**

Options, applications,  
references and technical data

# StoNail 3000

Our gantry nailing machine for efficient pallet production.

The StoNail 3000 is an automated gantry nailing machine for the efficient production of pallets and crates. With up to twelve nailers, two working areas and four clamping areas, it offers a high cycle output with low setup times. The group-controlled nailer units are manually adjusted to the produced pallets and moved via the automatically driven central gantry. The StoNail 3000 features a 7-inch touch display, comprehensive safety equipment, and optional add-ons such as central height adjustment, robot stacking, and remote maintenance. It's an ideal choice for companies aiming to produce pallets with regular nailing patterns.



## Key Features

1. **Height-adjustable nailing portal** for pallet & crate components
2. **Durable construction** with 65° tilt angle for ergonomic operation
3. **Modular clamping system** for various pallet & crate layouts
4. **Intuitive control** with 7" touch display
5. **8-12 pneumatic nailers**, optionally with MaxiCoil
6. **Intelligent safety features** for maximum operational safety

## Extensions

- Robot stacking
- Rotation table
- Robot stacking & rotation table



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# StoNail 5000

Our efficient gantry nailing machine  
for more flexibility.

The StoNail 5000 is a high-performance gantry nailing machine for the automated production of pallets and crates. With up to eight nailers, two working areas and a y-axis travel of 750 mm, it offers a high production capacity for a wide variety of nailing patterns. Key features include a 12-inch touch display, height adjustment and individual control of nailers. Downtimes are significantly reduced by the optional offline programming that allows programming and simulation independent of the machine. Automatic path optimisation minimises travel distances and increases cycle performance while reducing resource consumption.



## Key Features

1. **Individually controlled pneumatic nailers** for complex nail patterns
2. **Height-adjustable nailing gantry** for pallet & crate components
3. **Intelligent safety features** for maximum operational safety
4. **Offline programming** for reduced downtimes
5. **Automatic nailing path calculation** for more efficient production times
6. **Durable construction** with 65° tilt angle for ergonomic operation
7. **Modular clamping system** for various pallet & crate layouts
8. **6 pneumatic nailers**, optionally with MaxiCoil
9. **Intuitive control** with 12" touch display
10. **Automatic board measuring system** in x-direction

## Extensions

- Robot stacking
- Rotation table
- Robot stacking & rotation table



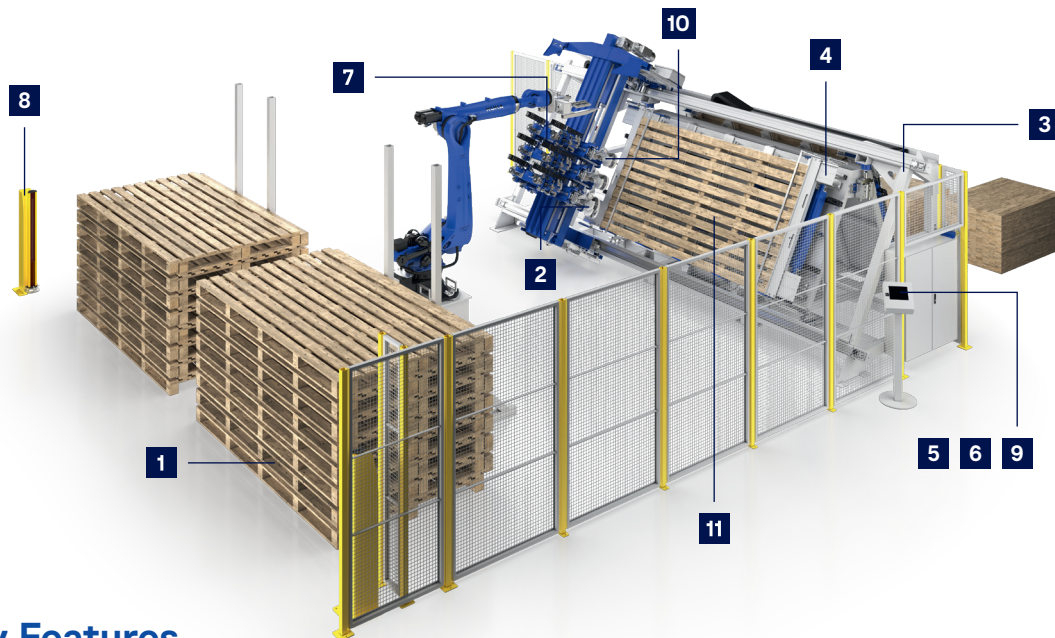
**Discover the entire machine:**

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# StoNail 7000

Our best and most flexible gantry nailing machine, including for large dimensions.

The StoNail 7000 is a fully automated gantry nailing machine designed for flexible pallet and crate production – even with large workpiece dimensions. Featuring up to three individually movable nailer pairs, two working areas, and an extended y-axis travel of 1,250 mm, it delivers high efficiency and maximum flexibility. A 12-inch touch display, automatic height adjustment, and a wide range of options ensure user-friendly operation. Offline programming enables the creation and simulation of new programs outside the machine, reducing setup time and minimising downtime. Integrated automatic path optimisation further boosts cycle output and ensures efficient and reliable performance.



## Key Features

1. **Maximum productivity** due to fully automated nailing technology
2. **Individually controllable pneumatic nailers** for complex nail patterns
3. **Durable construction** with 65° tilt angle for ergonomic operation
4. **Modular clamping system** for various pallet & crate layouts
5. **Offline programming** for reduced downtimes
6. **Automatic nailing path calculation** for more efficient production times
7. **6 pneumatic nailers**, optionally with MaxiCoil
8. **Intelligent safety features** for maximum operational safety
9. **Intuitive control** with 12" touch display
10. **Independent nailer pairs** which move individually
11. **Automatic board measuring system** in x- and y-direction

## Extensions

- Robot stacking
- Rotation table
- Robot stacking & rotation table



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# Stacking Machines

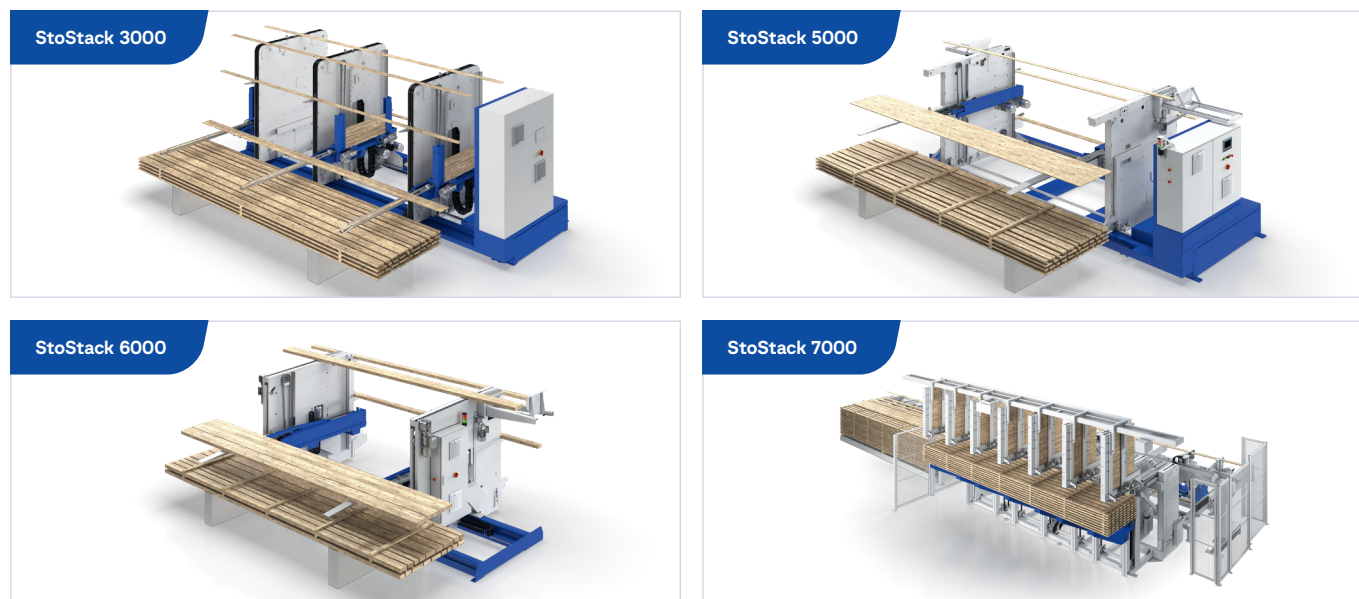
Automated stacking machines for boards and heavy timber products.

Stoiber stacking machines enable precise, safe, and efficient stacking of a wide range of timber products. From mobile solutions to stationary high-performance systems, there are numerous variants available that can be flexibly customised to your requirements. This means that both different package lengths and high package weights can be easily accommodated. High cycle rates and the optional integration of a stick placement system ensure smooth operation and perfectly stacked packages.

## Standard Dimensions

	Machine length [mm]	Max. fork distance [mm]	Machine width [mm]	Machine width (including stack)	Machine height [mm]	Min. feed height [mm]	Min. stacking height [mm]
StoStack 3000	5.000	3.500	2.100	3.450	2.100	400	300
	6.000	4.500					
StoStack 5000	5.300	3.400	2.150	3.550	1.900	400	350
	6.000	4.100					
StoStack 6000	4.500	3.500	2.300	3.750	2.050	400	480
	6.000	5.000					
	9.000	8.000					
StoStack 7000	4.500	3.600	3.500	3.550	2.050	400	700
	6.000	5.100					
	9.000	8.100					

## Overview



## Technical Comparison

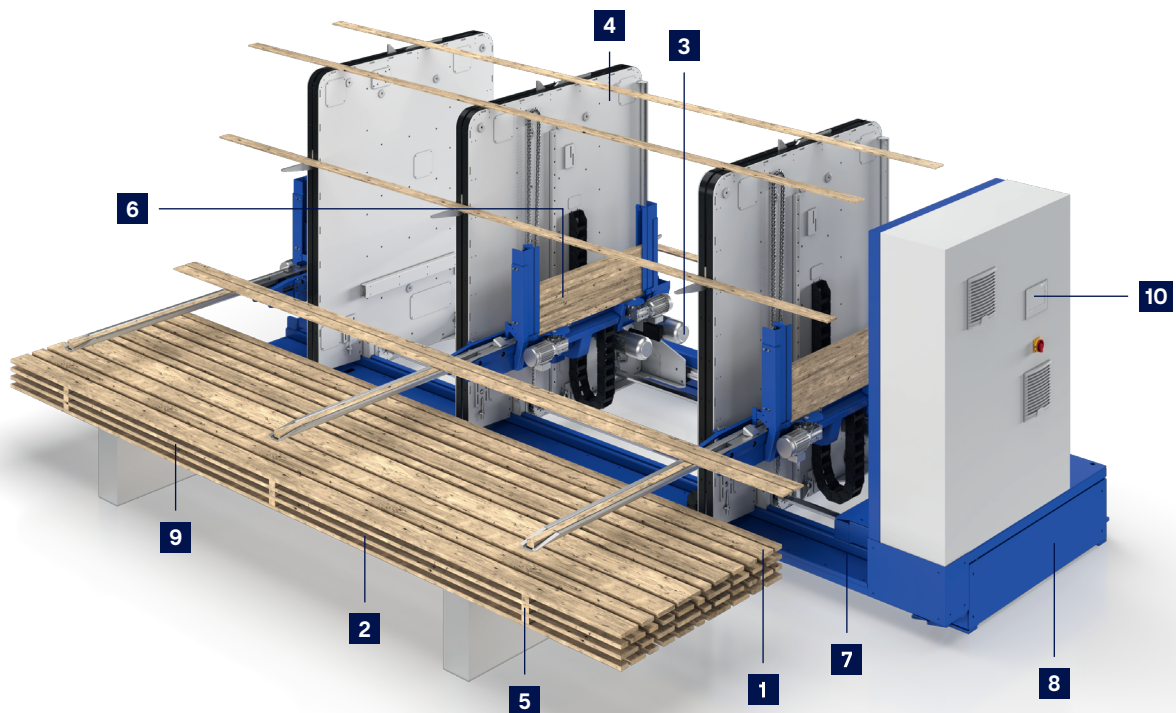
	StoStack 3000	StoStack 5000	StoStack 6000	StoStack 7000
Differences at a glance	Our flexible stacking machine with integrated stick placement.	Our high-performance stacking machine for increased productivity.	Our most efficient stacking machine, even for heavy loads.	Our stationary stacking machine for a wide range of packages.
Installation	Mobile/stationary	Mobile/stationary	Mobile/stationary	Stationary
Automatic stick placement	Yes	Optional	Optional	Optional
Independently driven stacking units	No	No	Yes	No
Positionable stacking units	Yes	Yes	Yes	No
Variable gap placement	Yes	Yes	Yes	Yes
Varying board widths	Yes	Yes	Yes	Yes
Number of stacking units	2-4	2-4	2-6	3-8
Max. number of packages	2	2	3	4
Max. package length [mm]	6.000	8.000	12.000	12.000
Max. pieces weight [kg]	75	75	250	250
Number of cycles without gaps [pcs./min]	15	30	35	30
Number of cycles with gaps [pcs./min]	15	25	25	25



# StoStack 3000

## Our flexible stacking machine with integrated stick placement.

The StoStack 3000 is a compact stacking machine designed for the automated stacking of sawn timber and boards with low to medium unit weights. By default, it is equipped with an integrated stick placement system, and it supports various workpiece formats, such as variable widths, thanks to its variable gap placement functionality. With a cycle rate of up to 15 pieces per minute, the StoStack 3000 is ideal for small to medium-sized enterprises with changing requirements. The machine features intuitive operation via a touch display and optional features such as alignment rollers, a safety fence, and a rail drive to enhance efficiency and safety.



## Key Features

1. **Wide range** of applications
2. **Varying board widths & air gaps** for various stacking tasks
3. **Reliable electric operation** – no hydraulics or pneumatics required
4. **Positionable stacking unit** with hexagon head, crank or electric drive
5. **Precise stacking** due to alignment rollers
6. **Automatic stick placement** integrated into stacking units
7. **Stationary or mobile installation** for more flexibility
8. **Maximum stability** due to reinforced base frame
9. **ERP integration** for efficient data processing
10. **User-friendly control**



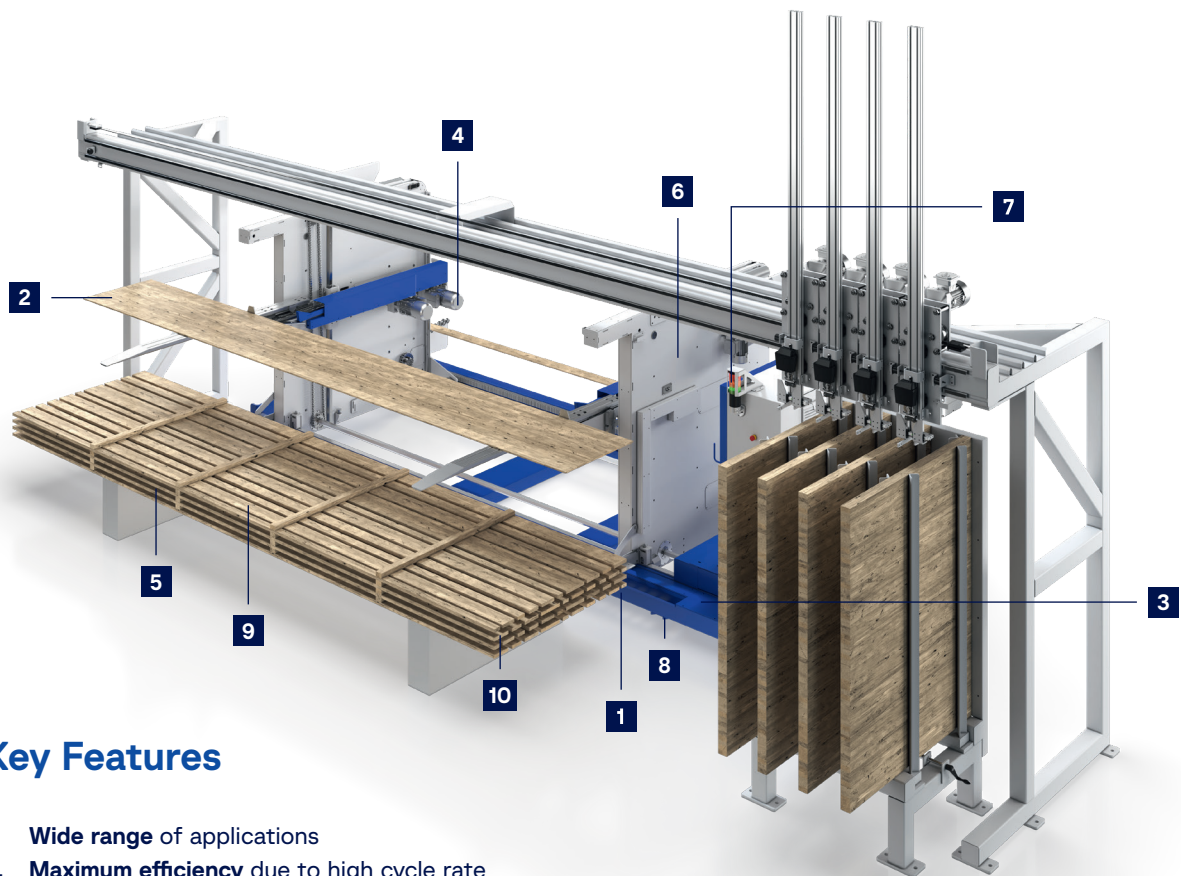
**Discover the entire machine:**

Options, applications,  
references and technical data

# StoStack 5000

Our high-performance stacking machine for increased productivity.

Our StoStack 5000 is engineered for high-performance stacking with medium to high throughput. The system processes up to two stacks simultaneously with a maximum length of 8 meters and a cycle rate of up to 30 pieces per minute without gaps. An optional automatic stick placement system eliminates the need for manual stick insertion, making the machine especially well-suited for integration into automated production lines. Features such as freely positionable stacking units, an intuitive touch display, and a wide range of safety and automation options make the StoStack 5000 a flexible, future-proof solution for modern production environments.



## Key Features

1. **Wide range** of applications
2. **Maximum efficiency** due to high cycle rate
3. **Maximum stability** due to reinforced base frame
4. **Reliable electric operation** – no hydraulics or pneumatics required
5. **Varying board widths & air gaps** for various stacking tasks
6. **Positionable stacking unit** with hexagon head, crank or electric drive
7. **User-friendly control**
8. **Stationary or mobile installation** for more flexibility
9. **ERP integration** for efficient data processing
10. **Precise stacking** due to alignment rollers

## Extensions

- Automatic stick placement system



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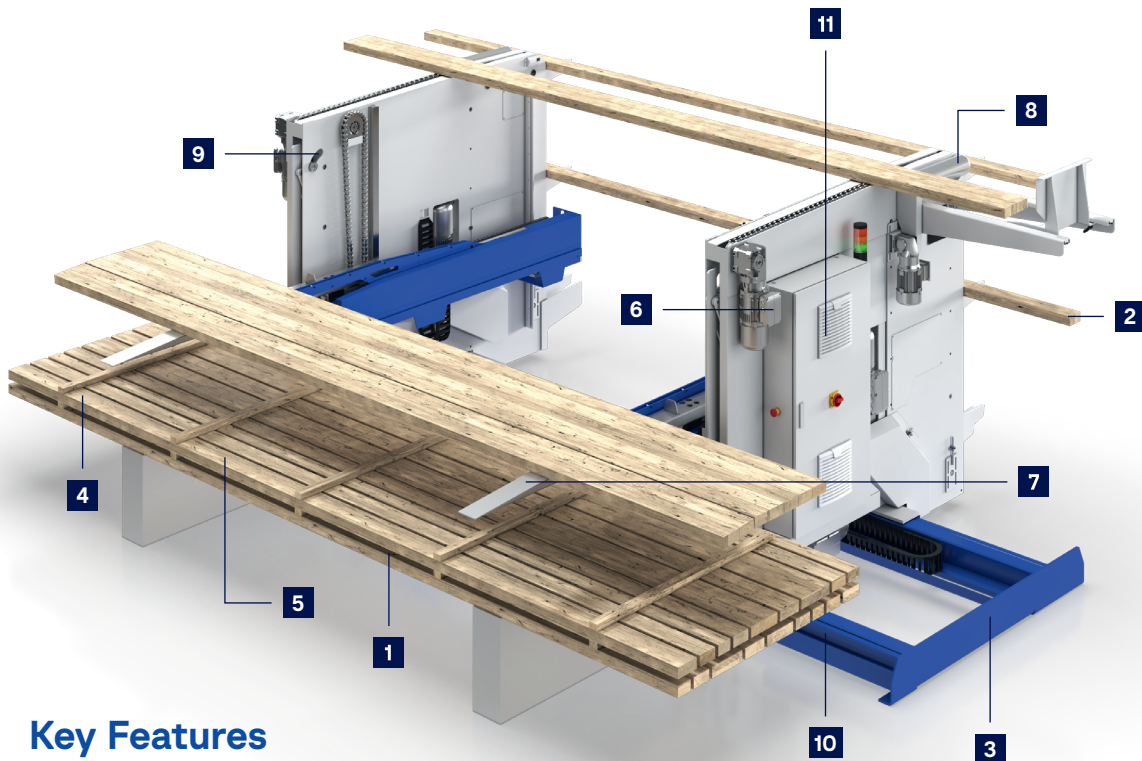
Options, applications,  
references and technical data



# StoStack 6000

Our most efficient stacking machine,  
even for heavy loads.

The StoStack 6000 is a high-performance stacking machine designed for the automated handling of heavy timber products and solid structural timber. With a load capacity of up to 250 kg per piece and a layer capacity of 1,000 kg, it is ideal for applications involving large dimensions and high weights. The system stands out with its robust construction, individually driven stacking units, and intuitive operation via a 12-inch touch display. For seamless integration into automated production environments, the StoStack 6000 can be optionally equipped with an automatic stick placement system.



## Key Features

1. **Wide range** of applications
2. **Improved cycle time** for maximum stacking efficiency
3. **Maximum stability** due to reinforced base frame
4. **Varying board widths & air gaps** for various stacking tasks
5. **ERP integration** for efficient data processing
6. **Reliable electric operation** – no hydraulics or pneumatics required
7. **High load capacity** for heavy wooden products
8. **Precise stacking** due to alignment rollers
9. **Separately driven stacking units** for maximum flexibility
10. **Stationary or mobile installation** for more flexibility
11. **User-friendly control**

## Extensions

- Automatic stick placement system



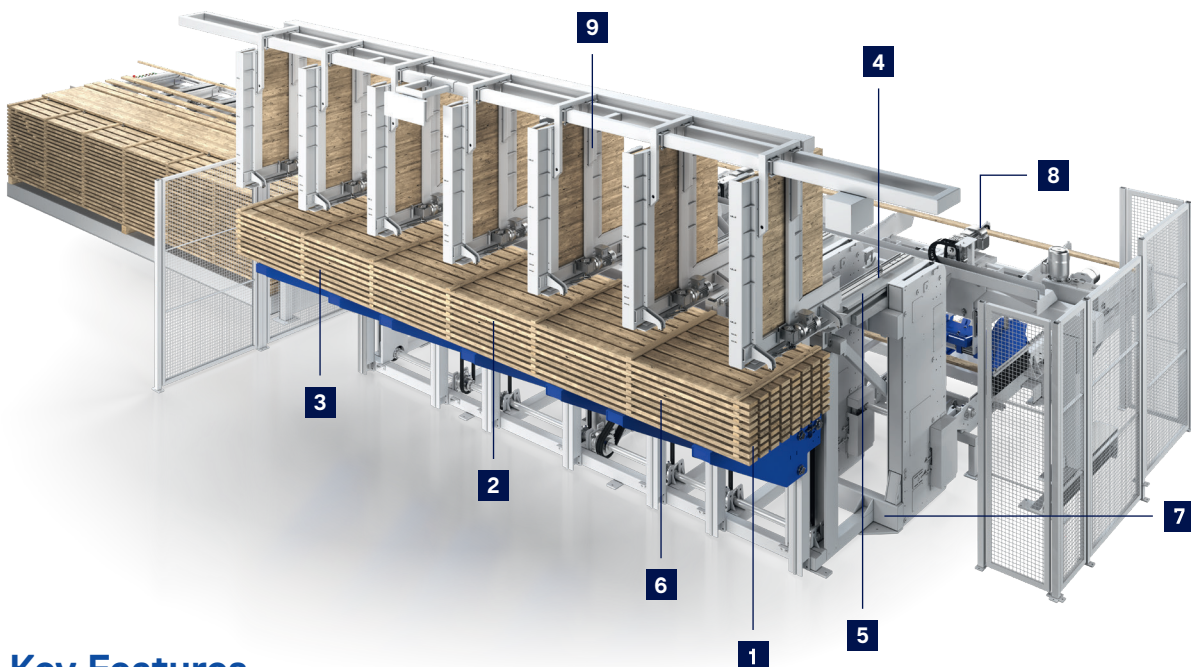
**Discover the entire machine:**

Options, applications,  
references and technical data

# StoStack 7000

## Our stationary stacking machine for a wide range of packages.

The StoStack 7000 is a stationary stacking machine designed for automated stacking of boards and solid structural timber at high cycle rates. With a load capacity of up to 250 kg per piece and a layer capacity of 1,000 kg, it is built for the handling of large packages in continuous operation. Its support for variable package widths and the ability to stack multiple packages simultaneously provide maximum flexibility in the production process. An optional stick placement system further increases the level of automation and ensures a smooth, uninterrupted workflow. These features make the StoStack 7000 an ideal solution for performance-driven production lines with high throughput and specialised requirements.



## Key Features

1. **Efficient stacking** with high cycle performance
2. **Varying board widths & air gaps** for various stacking tasks
3. **ERP integration** for efficient data processing
4. **Precise stacking** due to alignment rollers
5. **User-friendly control**
6. **Simultaneous stacking** of several packages
7. **Maximum stability** due to robust construction
8. **Reliable electric operation** – no hydraulics or pneumatics required
9. **Automatic stick placement** can be integrated as a gantry

## Extensions

- Automatic stick placement system



**Discover the entire machine:**

Options, applications,  
references and technical data

# Root Reducing & Debarking Machines

Robust technology for efficient log processing.

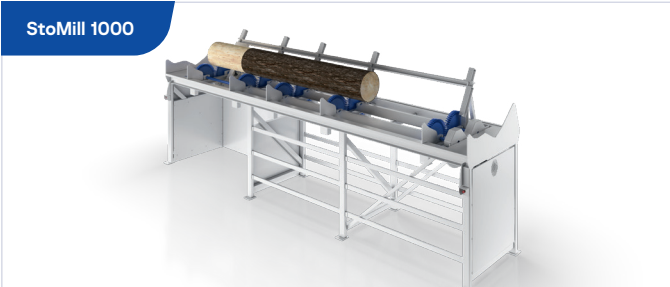
From compact root reducers to high-performance continuous debarking systems, Stoiber offers fully customised solutions tailored to your needs. All machines are built with a robust design, intuitive operation, and a focus on delivering consistently reliable results. As stand-alone machines or integrated into a production line, our root reducing and debarking machines ensure fast, clean processing and maximum operational reliability.

## Standard Dimensions

	Machine length [mm]	Working area length [mm] (without repositioning)	Machine width [mm]	Machine height [mm]
StoMill 1000	6.200	1.000	1.700	2.700
	8.500	1.000		
StoMill 3000	8.500	6.200	2.550	4.200
	10.300	8.000		
	12.300	10.000		
StoMill 5000	9.000	6.200	3.500	5.150



# Overview



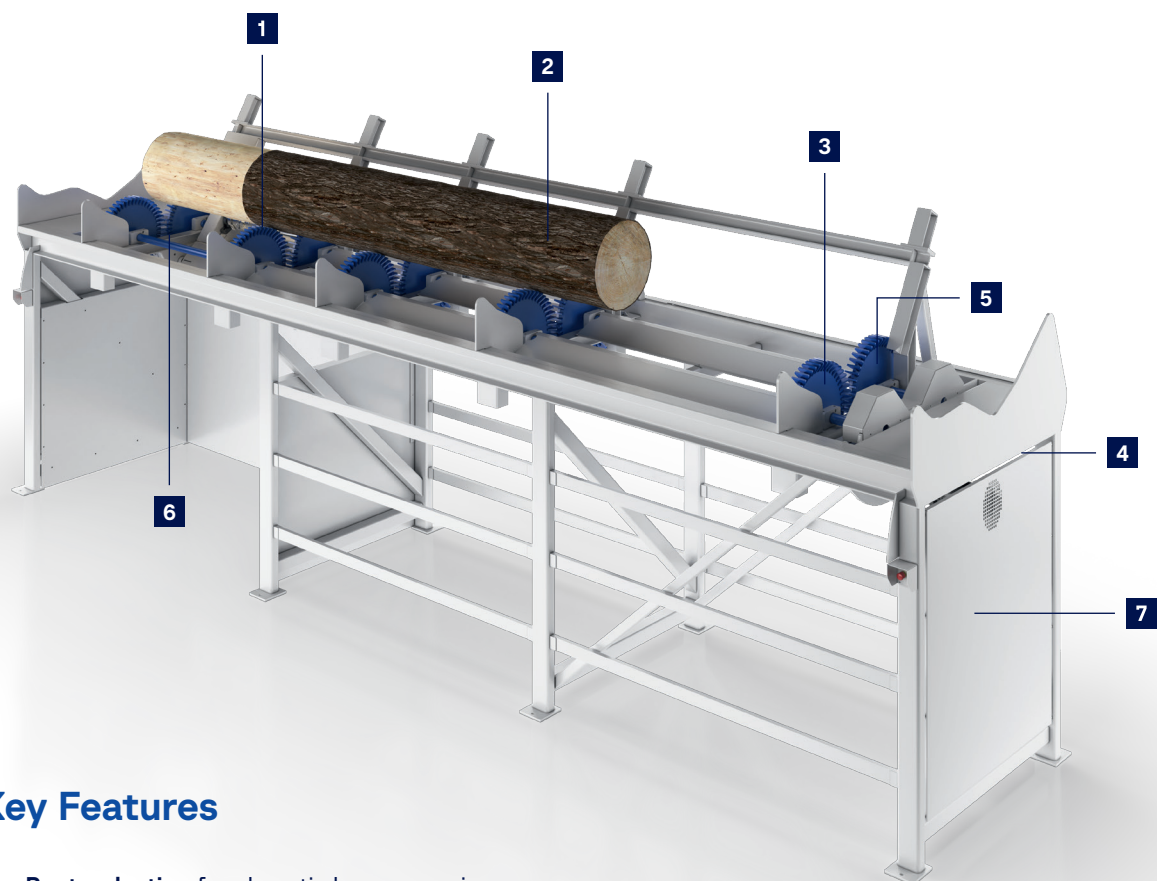
## Technical Comparison

	StoMill 1000	StoMill 3000	StoMill 5000
Differences at a glance	Our cost-efficient root reducer for automated log processing.	Our high-performance milling head debarker for flexible log processing.	Our efficient pass-through milling head debarker for the integration into production lines.
Root reducer	Yes	Optional	Optional
Milling head	No	Yes	Yes
Feeding direction	Three-sided	Three-sided	Four-sided
Feeding method	Forklift/crane/mechanisation	Forklift/crane/mechanisation	Mechanisation
Debarking	Yes (manual repositioning)	Yes	Yes
Touch display	No	Yes	Yes
Remote control	8 Channel	16 Channel	16 Channel
Automatic mode	Yes	Yes	Yes
Log length with repositioning [mm]	2.000-20.000	2.000-18.000	2.000-10.500
Log diameter [mm]	200-1.200	200-1.200	200-1.200
Root reducer drive power [kW]	15-45	22-45	22-45
Milling head drive power [kW]	–	22-30	22-30

# StoMill 1000

Our cost-efficient root reducer  
for automated log processing.

The StoMill 1000 is a compact root reducer designed for reliable processing of round timber with diameters up to 1,200 mm and lengths up to 20 metres. In addition to its primary reducing function, the system also allows for debarking—either through manual repositioning or with an optional automatic repositioning device. The machine can be loaded using a forklift or crane, while an optional 8-channel remote control enables intuitive, semi-automated operation. These features make the StoMill 1000 an ideal solution for small to medium-sized wood processing companies seeking robust performance.



## Key Features

1. **Root reduction** for clean timber processing
2. **Manual repositioning** for precise debarking
3. **Automatic** mode
4. **Customisable** with a wide variety of options
5. **8-channel remote control** for user-friendly operation
6. **Drive power** from 15-45 kW
7. **Robust design** for a long life time

## Extensions

- Chain conveyor



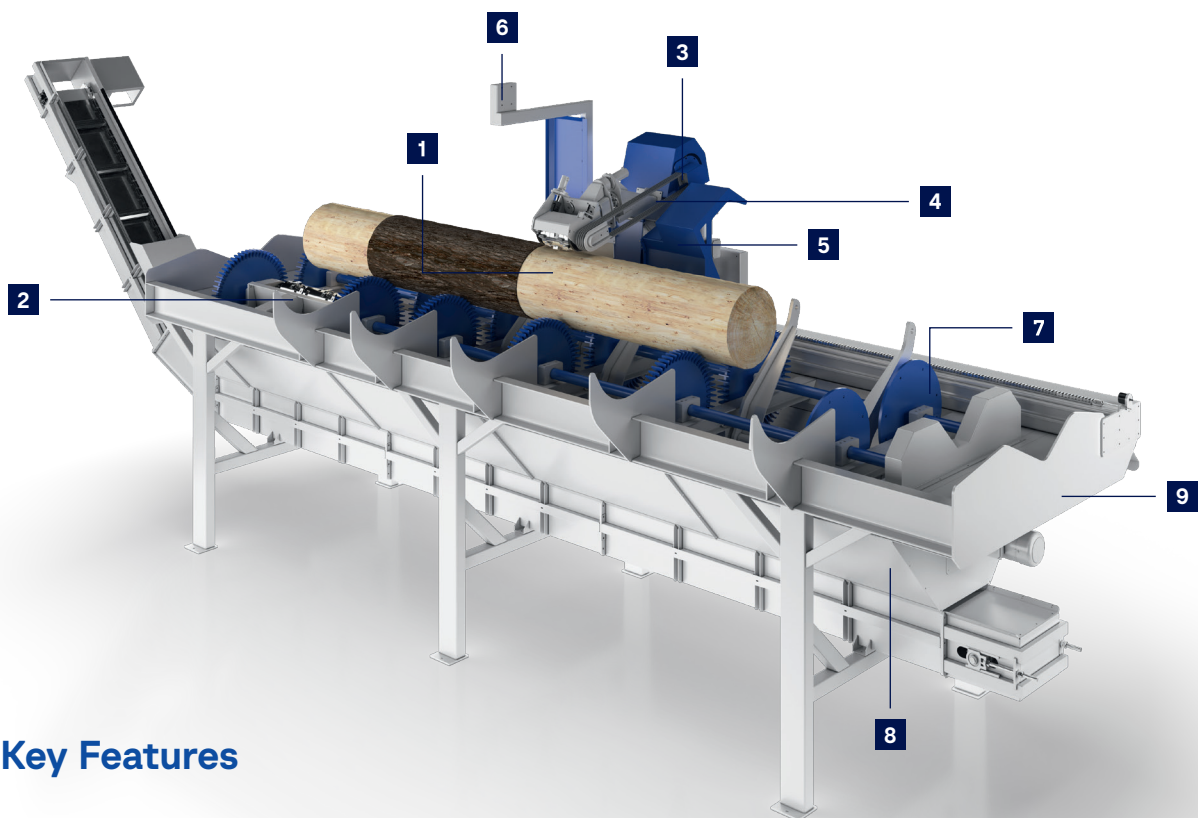
**Discover the entire machine:**

Options, applications,  
references and technical data

# StoMill 3000

Our high-performance milling head debarker for flexible log processing.

The StoMill 3000 is a versatile milling head debarking machine designed for the efficient processing of logs with diameters up to 1,200 mm and lengths up to 18 metres. Logs can be repositioned manually, with an optional automatic repositioning system available for increased automation. The machine can also be optionally equipped with a root reducer, allowing debarking and root reduction to be performed in a single operation. Loading is handled by forklift or crane, while a touch display and a 16-channel remote control ensure convenient and user-friendly operation. With its flexible configuration options, the StoMill 3000 is an ideal solution for companies with varying requirements in timber preparation.



## Key Features

1. **Powerful** milling head debarker
2. **Integrated** root reducer
3. **Pivoting milling head** for ideal adaptation to the log geometry
4. **Customisable drive power** for milling head and root reducer
5. **Modern** control technology
6. **Intelligent sensor technology** for increased automation
7. **16-channel remote control** for user-friendly operation
8. **Versatile** customisation options
9. **Robust design** for a long life time

## Extensions

- Chain conveyor



**Discover the entire machine:**

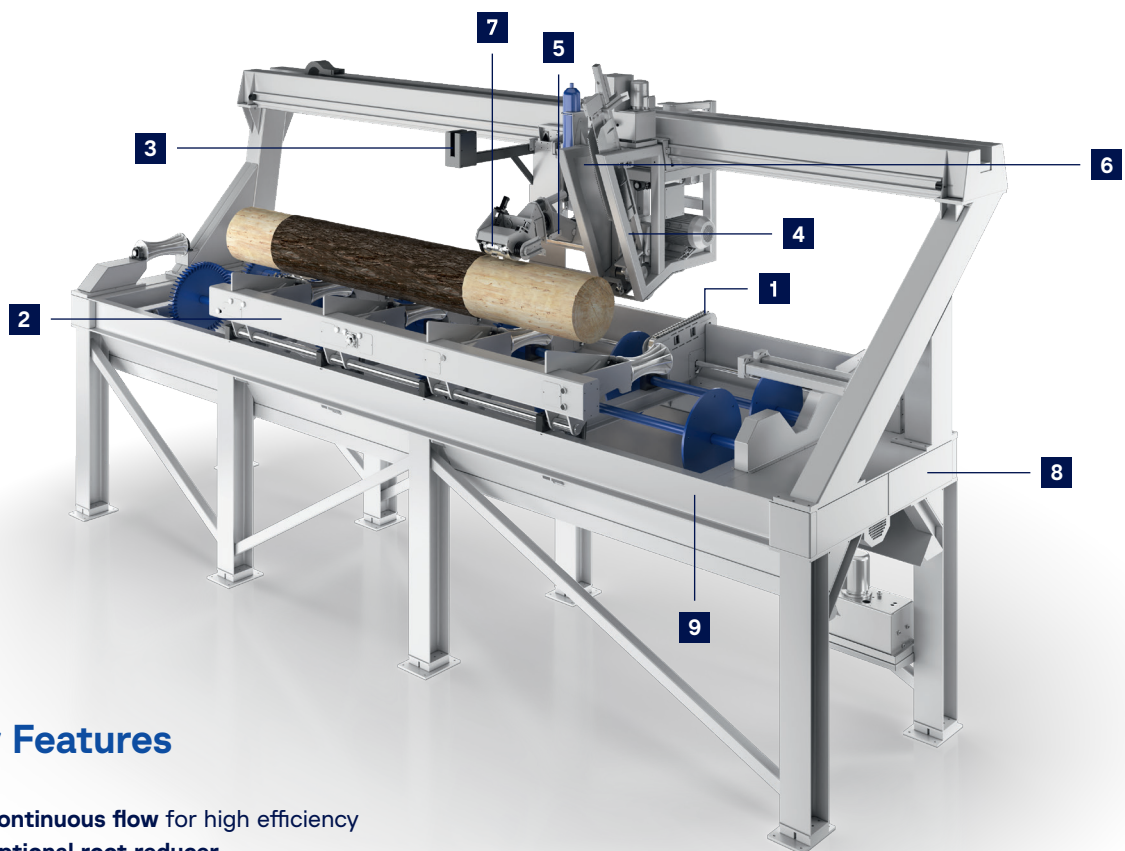
Options, applications,  
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# StoMill 5000

Our efficient pass-through milling head debarker for the integration into production lines.

The StoMill 5000 is a high-performance pass-through milling head debarking machine designed for the continuous processing of round timber with diameters up to 1,200 mm and lengths up to 9.2 metres. Its fully automatic throughfeed system enables highly efficient debarking with consistently high throughput. Optional features include a root reducer and a cross-cutting function for precise log length trimming and reliable removal of the butt swell. The infeed is engineered for seamless integration into mechanised production lines, ensuring compatibility with existing systems. Operation is simple and efficient via a touch display and an optional 16-channel remote control. These features make the StoMill 5000 an ideal choice for performance-driven production lines with demanding output requirements.



## Key Features

1. **Continuous flow** for high efficiency
2. **Optional root reducer**
3. **Intelligent sensor technology** for increased automation
4. **User-friendly control**
5. **Pivoting milling head** for ideal adaptation to the log geometry
6. **Customisable drive power** for milling head and root reducer
7. **Powerful milling head debarker**
8. **Robust design** for a long life time
9. **Versatile customisation options**

## Extensions

- Chain conveyor



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# Log Conveyors

Our robust log conveyor systems for continuous material flow.

Our log conveyor systems ensure continuous, reliable, and gentle transport of logs in sawmill operations. An integrated star wheel separation system enables consistent log feeding, while vibration dampers reduce disruptive movement and enhance material protection. Cover and guide plates prevent logs from slipping, contributing to both operational safety and processing accuracy. The compact, robust design allows for space-saving integration into new or existing plant layouts. Depending on your requirements, the conveyor system can be seamlessly combined with a root reducer or milling head debarker – ensuring smooth and efficient downstream processing.



## Key Features

1. **Robust design** for absolute reliability
2. **Cam switches** for automatic processes
3. **Log separation options** for high flexibility



**Discover the entire machine:**

Options, applications,  
references and technical data

# *Stoiber*

## Engineering Perfection

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