

Opti-Feed

1000 Vack

3000 Vack / 3000

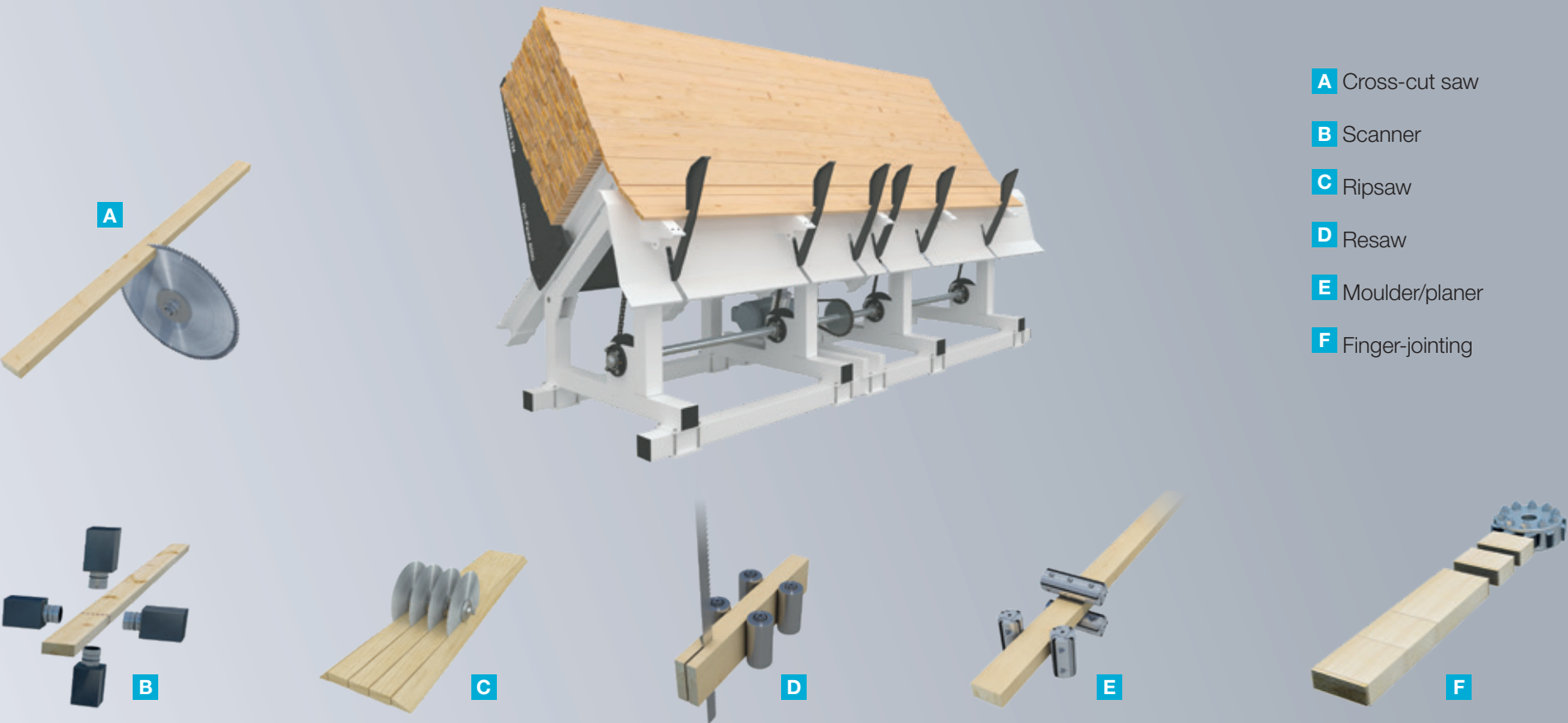
6000 Vack / 6000

Automated feeding systems



Automated feeding systems

System TM offers a wide range of standard automated feeding systems for main machine automation, such as:



- A** Cross-cut saw
- B** Scanner
- C** Ripsaw
- D** Resaw
- E** Moulder/planer
- F** Finger-jointing

Increased efficiency and reduced costs through automated feeding

The exceptional design of System TM's automated feeding systems helps to increase the capacity of your main machines while reducing labor costs at the same time. With System TM's Opti-Feed series, we can always offer you the right solution for your specific needs to achieve more efficient and profitable production.

This automated infeed system provides full utilization of the main machine capacity and maximum utilization of staff and wood resources.



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The smart choice

Leave the heavy, repetitive work to a System TM Opti-Feed system!

Content

- 03 Automated feeding systems
- 04 Opti-Feed 1000 Vack
- 06 Opti-Feed 3000 Vack
- 08 Opti-Feed 3000
- 10 Opti-Feed 6000 Vack
- 12 Opti-Feed 6000
- 14 Technical data
- 16 System TM products
- 17 Additional products
- 18 System TM service

Opti-Feed 1000 Vack



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Automated feeding system - Opti-Feed 1000 Vack

Opti-Feed 1000 Vack is a vacuum de-stacking unit for feeding complete or partial layers of workpieces into different main machines such as cross-cut saws, moulders, scanners, resaws and finger-jointing machines.

The Opti-Feed 1000 Vack consists of a vacuum head suitable for feeding short workpieces from 380 - 1,600 mm (15" - 63"). It has a feeding capacity of up to 5 layers per minute of both random or uniform lengths and widths.

The vacuum head features check valve technology that automatically detects and closes check valves in areas without workpieces. This ensures safe handling and lifting of all layers, random lengths and widths without the need to adjust the vacuum heads.

Due to its modular design, the Opti-Feed 1000 Vack de-stacker is suspended from a portal, allowing layers to be de-stacked from packs positioned on the floor or on a conveyor.



The foam of the vacuum head adjusts to the shape of the workpieces before lifting the layers. This minimizes false air and maximizes lifting load.

Advantages

- De-stacking from multiple locations
- De-stacking to multiple destinations
- Liberates operators from hard and repetitive work
- Better utilization of main machine capacity
- Gentle handling without damaging workpieces or layers
- Minimum space requirement
- Feeding of random lengths and widths

Features

- Automatic removal of stabilizing or drying sticks
- Stick collector
- Automatic pack transport
- Receiving chain conveyor
- Customized features upon request



Opti-Feed 3000 Vack



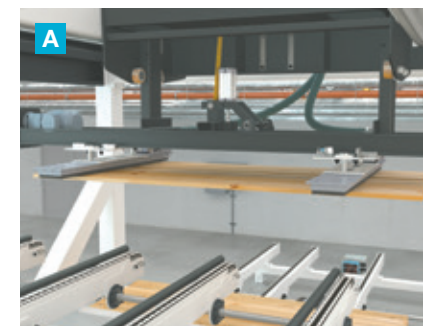
Automated feeding system - Opti-Feed 3000 Vack

Opti-Feed 3000 Vack is a vacuum de-stacking unit for feeding complete or partial layers of workpieces into different main machines such as cross-cut saws, moulders, scanners, resaws and finger-jointing machines.

The Opti-Feed 3000 Vack consists of two vacuum heads suitable for feeding short workpieces from 380 - 2,500 mm (15" - 98"). It has a feeding capacity of up to 5 layers per minute of both random and uniform length and width.

The vacuum heads feature check valve technology that automatically detects and closes check valves in areas without workpieces. This ensures safe handling and lifting of all layers, random lengths and widths without the need to adjust the vacuum heads.

Due to its modular design, the Opti-Feed 3000 Vack de-stacker is suspended from a portal, allowing layers to be de-stacked from packs positioned on the floor or on a conveyor.



Check valve technology detects and closes valves in areas without workpieces. This ensures safe lifting of layers without the need to adjust vacuum heads.

Advantages

- De-stacking from multiple locations
- De-stacking to multiple destinations
- Liberates operators from hard and repetitive work
- Better utilization of main machine capacity
- Gentle handling without damaging workpieces or layers
- Minimum space requirement
- Feeding of random lengths and widths

Features

- Automatic removal of stabilizing or drying sticks
- Stick collector
- Automatic pack transport
- Receiving chain conveyor
- Customized features upon request



Opti-Feed 3000



Read more on our website
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Automated feeding system - Opti-Feed 3000

Opti-Feed 3000 is a de-stacking unit for feeding of complete or partial layers of workpieces into different main machines such as cross-cut saws, moulders, scanners, resaws and finger-jointing machines.

The Opti-Feed 3000 consists of a mechanical layer gripper system, suitable for feeding short workpieces from 380 - 2,500 mm (15" - 98"). It has a feeding capacity of up to 5 layers per minute of uniform lengths and random widths.

The layer gripper system is equipped with rubber profiles, that picks up layers by gripping each workpiece. This ensures safe handling and lifting of all layers straight from the workpiece packs.

Due to its modular design, the Opti-Feed 3000 de-stacking unit is suspended from a portal, allowing layers to be de-stacked from packs positioned on the floor or on a conveyor.



The mechanical layer gripper consists of flexible rubber profiles that ensure secure lifting of all workpieces in the layers.

Advantages

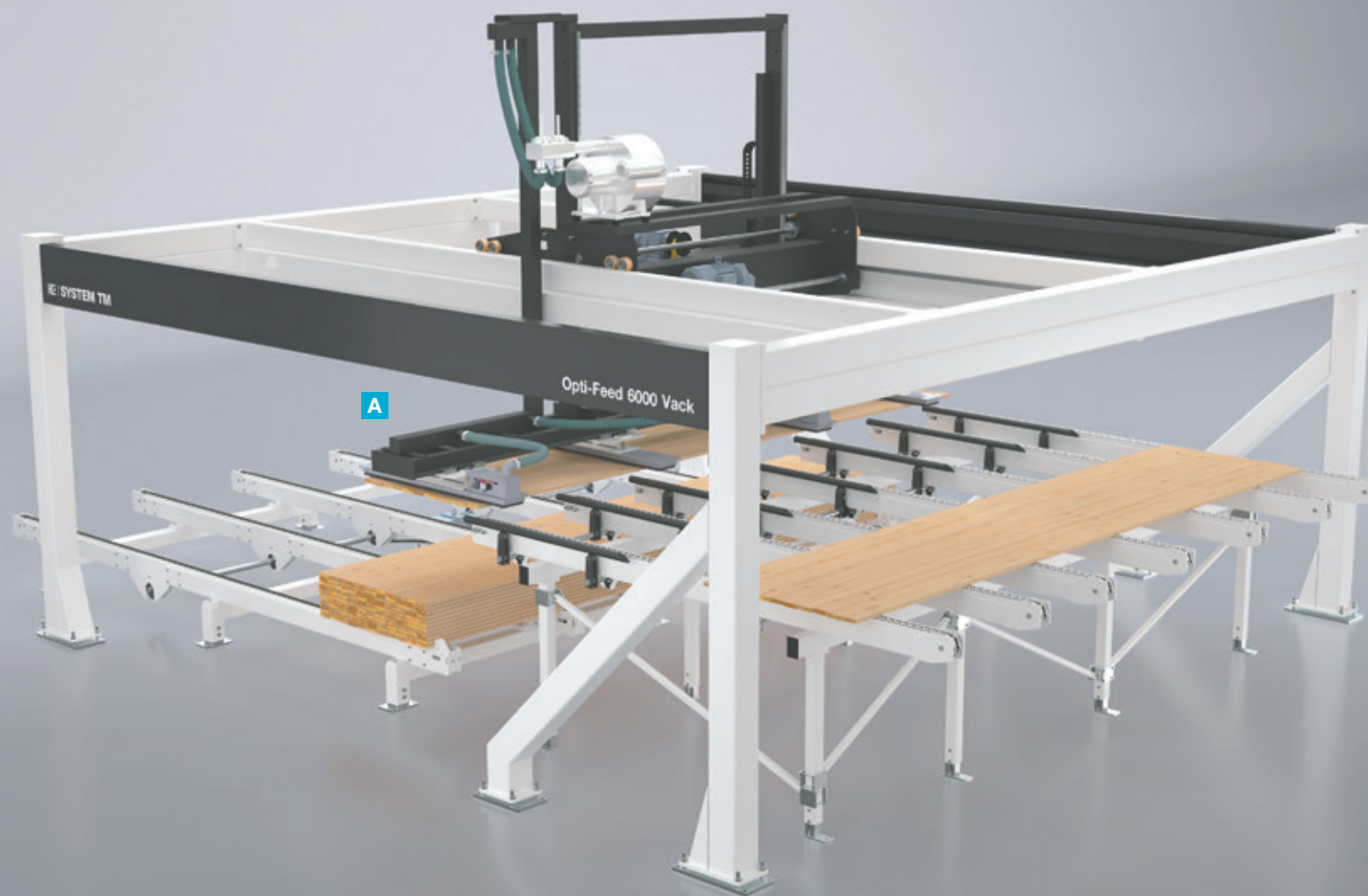
- De-stacking from multiple locations
- De-stacking to multiple destinations
- Liberates operators from hard and repetitive work
- Better utilization of main machine capacity
- Gentle handling without damaging workpieces or layers
- Minimum space requirement
- Feeding of random widths
- De-stacking of narrow workpieces

Features

- Automatic removal of stabilizing or drying sticks
- Stick collector
- Automatic pack transport
- Receiving chain conveyor
- Customized features upon request



Opti-Feed 6000 Vack



Automated feeding system - Opti-Feed 6000 Vack

Opti-Feed 6000 Vack is a vacuum de-stacking unit for feeding complete or partial layers of workpieces into different main machines such as cross-cut saws, moulders, scanners, resaws and finger-jointing machines.

The Opti-Feed 6000 Vack consists of multiple vacuum heads suitable for feeding long workpieces from 1,200 - 6,300 mm (4' - 20'). It has a capacity of up to 4 layers per minute for both random and uniform lengths and widths.

The vacuum heads feature check valve technology that automatically detects and closes check valves in areas

without workpieces. This ensures safe handling and lifting of all layers, random lengths and widths without the need to adjust the vacuum heads.

Due to its modular design, the Opti-Feed 6000 Vack de-stacker is suspended from a portal, allowing layers to be de-stacked from packs positioned on the floor or on a conveyor.



The vacuum system ensures gentle handling and lifting of all workpieces, making this feeder ideal for feeding moulded or pre-planed workpieces.

Advantages

- De-stacking from multiple locations
- De-stacking to multiple destinations
- Liberates operators from hard and repetitive work
- Better utilization of main machine capacity
- Gentle handling without damaging workpieces or layers
- Minimum space requirement
- Feeding of random lengths and widths

Features

- Automatic removal of stabilizing or drying sticks
- Stick collector
- Automatic pack transport
- Receiving chain conveyor
- Customized features upon request



Opti-Feed 6000



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Automated feeding system - Opti-Feed 6000

The Opti-Feed 6000 is designed to feed workpieces into different main machines such as cross-cut saws, moulders, resaws and rip-saws. The Opti-Feed 6000 is a mechanical de-stacking unit suitable for feeding long workpieces from 1,200 - 6,300 mm (4' - 20') at high capacity.

This de-stacking unit consists of single or multiple machine modules that can be combined to meet the required application in terms of capacity, processes and space availability. Packs can be easily and automatically changed during operation without stopping the main machine. This helps achieve the desired capacity.



The mechanical feeding system can be equipped with optional features like edge protection and noise reduction.

Advantages

- High capacity
- Feeding of random lengths and widths
- Infeed speed matched to main machine speed
- Liberates operators from hard and repetitive work
- Better utilization of main machine capacity
- De-stacking of narrow workpieces

Features

- Automatic removal of stabilizing or drying sticks
- Stick collector
- Automatic pack transport
- Trim saw
- Equipment for edge protection and controlled workpiece feeding
- Automatic measuring of core bend
- Turning devices for optimal orientation of each workpiece
- Reject gate
- Customized features upon request



Technical data

Opti-Feed series data overview

	Opti-Feed 1000 Vack	Opti-Feed 3000 Vack	Opti-Feed 3000
Board length	380 - 1,600 mm (15"- 63")	380 - 2,500 mm (15"- 98")	380 - 2,500 mm (15"- 98")
Board width	75 - 1,225 mm (3" - 48")	63 - 1,225 mm (2.5"- 48")	50 - 300 mm (2" - 12")
Board thickness	15 - 35 mm (0.6" - 1.4")	15 - 50 mm (0.6" - 2")	15 - 100 mm (0.6" - 4")
Number of vacuum heads	1	2	None
Random length	Yes	Yes	No
Maximum length variation	30%	30%	+/- 5 mm (0.25")
Maximum workpiece weight	Depends on board dimension	Depends on board dimension	20 kg (44 lb)
Maximum layer weight	30 kg (66 lb)	100 kg (220.5 lb)	80 kg (176.4 lb)
Maximum pack height	1,225 mm incl. pallet (48")	1,225 mm incl. pallet (48")	1,225 mm incl. pallet (48")
Maximum pack width	1,225 mm (48")	1,225 mm (48")	1,225 mm (48")
Capacity	5 layers per minute	5 layers per minute	5 layers per minute
Optional capacity	8 layers per minute	8 layers per minute	8 layers per minute

	Opti-Feed 6000 Vack	Opti-Feed 6000
Board length	1,200 - 6,300 mm (4"- 20")	1,200 - 6,300 mm (4" - 20")
Board width	63 - 1,225 mm (2.5" - 48")	50 - 300 mm (2" - 12")
Board thickness	15 - 50 mm (0.6" - 2")	15 - 100 mm (0.6" - 4")
Number of vacuum heads	4	None
Random length	Yes	Yes
Maximum length variation	30%	30%
Maximum workpiece weight	Depends on board dimension	40 kg (88 lb)
Maximum layer weight	200 kg (441 lb)	400 kg (882 lb)
Maximum pack height	1,225 mm incl. pallet (48")	1,225 mm incl. pallet (48")
Maximum pack width	1,225 mm (48")	1,225 mm (48")
Capacity	4 layers per minute	6 layers per minute
Optional capacity	8 layers per minute	10 layers per minute

All of the above data can be customized upon request.

All equipment is built to metric standards. Dimensions shown in imperial units are approximate and for comparison purposes only.



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Opti-Feed

The Opti-Feed automated feeding system provides high production capacity and many labor cost reductions. The Opti-Feed feeds workpieces of random or uniform lengths.



System TM products

Additional products

System TM products and system solutions can be equipped with automatic handling or scanning systems for best lumber utilization and capacity with minimal use of manual labor.

In order to meet all customer demands, our selection of material handling systems consists of both standard and fully customized solutions.

Opti-Kap

Optimizing cross-cut saws



Opti-Joint

Automated finger-jointing systems



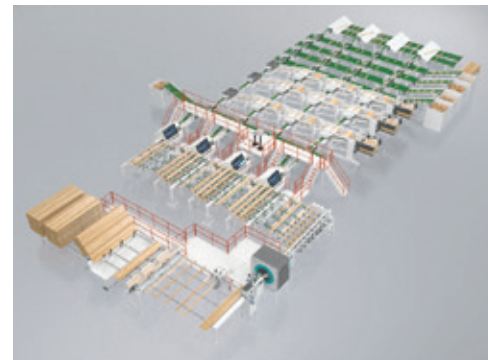
Opti-Stack

Automated stacking systems



Opti-Solution

Customized system solutions



MiCROTEC

To achieve best lumber utilization and production optimization, System TM's products and solutions can be combined with automatic scanning.

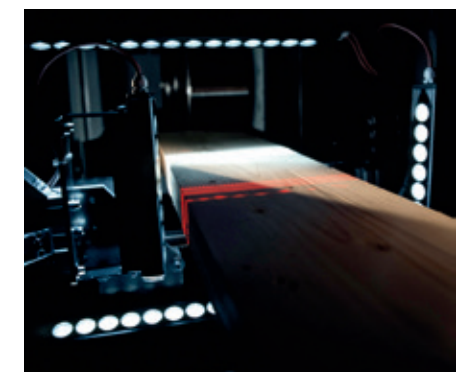
MiCROTEC is System TM's scanner partner and the technology leader within the scanning industry. MiCROTEC scanners are highly reliable and accurate in wood defect detection, and ensure automated, streamlined and optimized production.

To identify the characteristics of lumber, Multi-Sensor scanning technology powered by MiCROTEC Ai recognizes knots, cracks, pitch pockets, holes, stains, waness and other board defects, as well as their location. With exceptional precision and high speed, the sensors scan the boards for best lumber utilization.

Combined with today's scanning technology and optimizing software, a System TM product or system solution ensures best production optimization at high capacity.



The Microtec Multi-Sensor Scanner Goldeneye.



The Multi-Sensor scanning technology scans workpieces for best wood utilization.

System TM service

Optimal performance through strong service and support

System TM's service is a key strategic business area. Our service department is constantly evolving to meet customer needs and provide exceptional service and support.

System TM's service and support team ensures high uptime, productivity, and utilization. Systematic maintenance minimizes production downtime, and ensures smooth operation with minimal risk of unexpected machine failure.

System TM's service and support team consists of highly educated, trained, and experienced service engineers and technicians. With over 45 years of experience in designing, building, integrating and maintaining automated timber processing systems, System TM is a highly qualified provider of service and support.

This includes:

- Service and maintenance contracts
- A customized spare part kit for each customer to ensure a successful start
- Modification, upgrading and extension of existing machines, controls and software
- Relocation, renovation, installation and start-up of machine installations
- Production and system analysis and optimization
- Staff/operator education on how to handle and maintain machines
- Advisory and consultancy services
- Spare parts and enhancements
- Warranty
- Helpdesk and online telephone support - 24 hours worldwide



Our service technicians remain at your disposal even outside working hours

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optimization of staff and wood resources