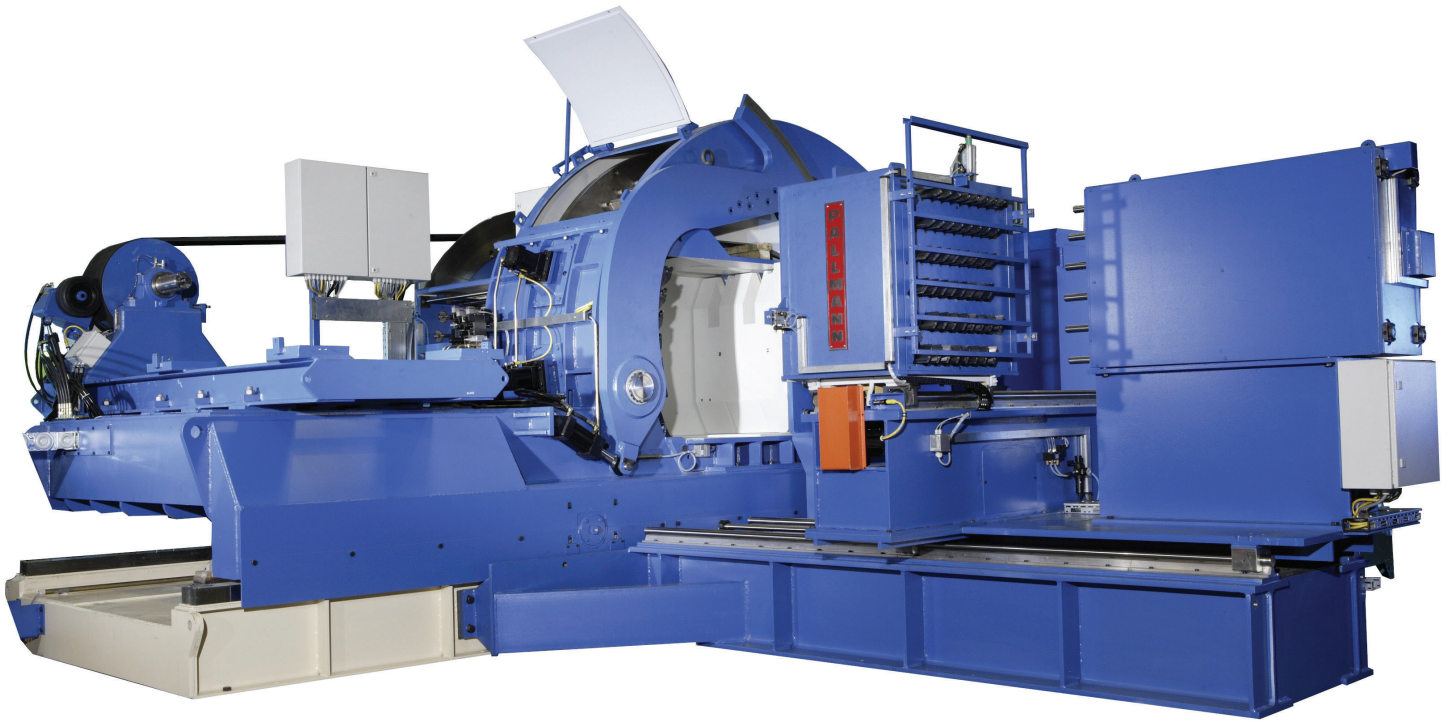

Economical direct flaking of highest quality strands



Long Log Strander PZU



SIEMPELKAMP
SIZE REDUCTION

Pioneer in knife ring stranding technology. The Ultimate Strander PZU.

Infeed Material

Debarked Wood Logs



Final Product

Highest Quality OSB Strands



Area of Application

PALLMANN invented the knife ring Long Log Strander PZU for the production of quality strands with a low percentage of fines, for the production of OSB-boards.

Design and Method of Operation

It consists of a loading station - the batch feeder PZUB - and the strander PZU. Debarked logs are fed either via crane from above directly to the loading station or from a storage deck from the side.

The batch feeder is available for different log lengths. Aligning elements shake the log bundle parallel to the grain and allow high filling degree to achieve high capacity.

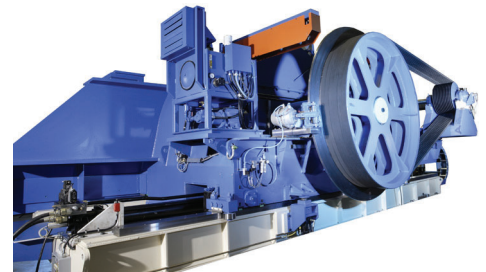
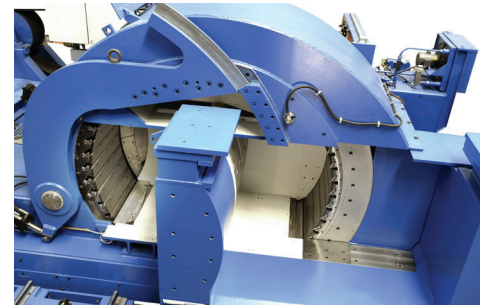
A special version of the batch feeder, the 'pocket loader' moves into the trough of the batch feeder from the side and reduces the loading width of the trough. Thus, the logs align perfectly for fiber parallel stranding. During log feeding the front gate closes the loading section and slides out of way after the batch is formed.

The batch feeder is equipped with two pushers:

- 1) The batch loader (bottom pusher) at the loading area is controlled by operator and pushes the logs into the strander or take-over position.
- 2) The log feeder (top pusher) takes over for automatic mode with the strander and pushes the logs in cycles into the cutting chamber.

The stranding process takes place in cycles on the inside of the knife ring. The combination of the high-performance hydraulic positioning unit and the intelligent PLC system provides a consistent traversing speed even at varying loads = uniform strand thickness. Scoring knives in the ring determine the strand length and adjustable breaker bars are installed for strand width control. The knife ring is made with high accuracy from high-strength, low-wear steels. Since all wear parts can be easily replaced, high service life of the knife ring is ensured.

PALLMANN unique feature, the centrifugal clamping of the knife packages allow release of up to six knife packages at a time for quick knife change and high uptime of the strander. Knife clamping in bolted design is optionally available.



Decisive Advantages

- › Excellent ratio between loading and cutting times
- › High strand quality with low content of fines
- › Even strand geometry and smooth strand surface
- › Improved and simpler maintenance
- › Constant cutting speed over the complete length of knives

Batchfeeder for maximum capacity, highest yield and highest flake quality of the raw material.

Pallmann Long Log Strander PZU

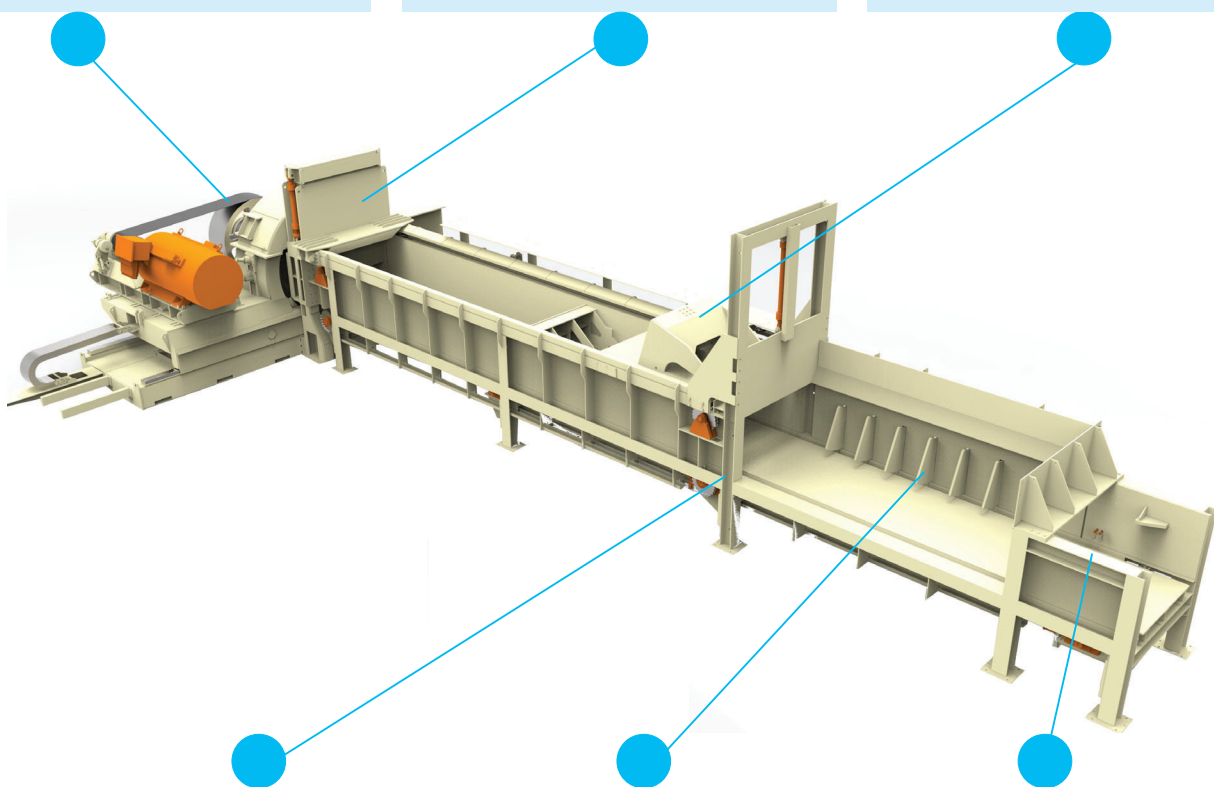
- > Fiber parallel stranding
- > High strand quality with low percentage of fines
- > Knife ring = constant cutting speed over full length of the knife

Weight tower

- > Heavy weights in front of the strander hold the logs in place during the cutting cycle
- > Reduction of fines
- > Single hydraulic cylinder operation

Batch feeder PZUB - log feeder

- > Automatic batch loading into the strander
- > The batch is pushed into the flaker according to the knife length (discontinuous process)



PZU - front gate

- > Closed during loading process of logs into the batch feeder
- > Limits the batch length in feeding direction during feeding process
- > No logs can slide out to the front

PZU - aligning elements

- > Optimal alignment of the logs
- > Shaking the log bundle during or after the feeding process
- > Used in all different design:
 - crane feeding
 - deck feeding
 - pocketloader feeding

PZUB - batch loader

- > Align the batch in length between the front gate and batch loader
- > Aligning the logs parallel to the grain
- > Pushing the batch into the flaker until take-over of the log pusher

PZU		19-800	22-800	24-800
Knife ring diameter	mm	1.900	2.200	2.400
Number of knives	pieces	42	48	54
Knife length	mm	800	800	800
Capacity*	t b. d. / h	20 - 25	25 - 30	30 - 40

* Depending on the wood species, conditions and machine settings



System solutions for:

- Flake production
- Fiber production
- Recycling of waste wood
- Annual plants preparation
- Thermal usage

Engineering and Service:

- Design and Manufacturing
- Research and development
- Control Systems
- Process monitoring
- Spare and wear parts for size reduction machines in PALLMANN quality
- Installation, commissioning, start - up
- Maintenance and repair service
- Operator training
- Technological training
- Retrofit and modernisation
- Warehouse stocking programs and logistic concepts



**Any questions?
We've got answers**

Pallmann is the leading manufacturer of size reduction machinery for the wood products industry. Pallmann designs, manufactures and supplies tailor-made, individual or complete solutions for the processing of raw material for MDF, OSB and particleboard plants. At its headquarters in Zweibrücken, PALLMANN company operates the world's largest research and development center for size reduction technology as well as a training and service center. Numerous machines are available for the preparation of various raw materials including subsequent laboratory analysis on individual scale. Our global presence is ensured by our sales network for machinery as well as spare parts and after-sales service.

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**Intelligent engineering
for future generations.**