

PALLMANN

Refiner PR-C



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Only the best available market solution is good enough to serve our customers

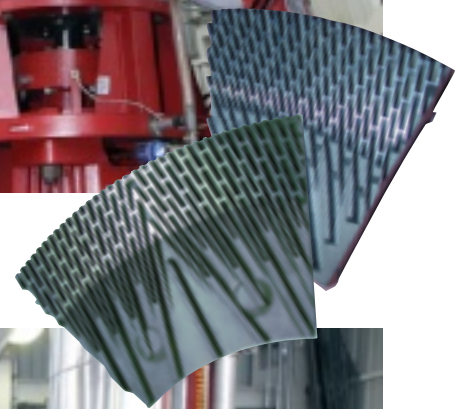
The Pallmann Refining System PR produces high quality fibers for MDF/HDF and insulation boards made out of wood chips, sawdust and shavings as well as annual plants. Preferably combined with the wet cleaning of the Pallmann chip washing system PWH, the Pallmann refining system offers utmost product quality and component life.

System description

The chip bin in front of the plug screw is used for preheating of wood chips and as intermediate storage. The Pallmann plug screw type PRS conveys chips into the digester vessel and provides a reliable seal between atmosphere and steam of 8 – 10 bar inside the digester vessel. The wear parts of the plug screw are easily exchangeable. Different compression ratios are available according to the specific technological requirements.

Wood chips or annual plants can be preheated up to the required temperature inside the vertical- or, when required, horizontal digester vessel.

The retention time inside is controlled by the fully automatic level control. The precise and most even dosing of chips out of the digester is done with the discharge screw and the infeed screw both arranged at the same level.



Refiner System PR-C

The fibers are discharged to the dryer through the blow valve, designed as an adjustable orifice-type valve. The Pallmann Pressurized Refiner is a dual disc refiner with one stationary and one rotating axially.

The HMI system and instrumentation are the perfect tools for process optimization, control of fiber quality and profitable running conditions. The housing is split vertically to allow for the exchange of the refining discs.

The grinding gap of all Pallmann refiners is adjusted by a precision hydraulic servo system. Only the radial guidance of the shaft is performed by roller bearings. The dominating axial thrust of the grinding process is absorbed by the hydrodynamic bearing system. All hydraulic systems are integrated into an easily accessible service unit.

Customer benefits:

- Easily exchangeable parts of plug screw/drainage pipe.
- Drop-in designed elements allow swift exchange of wear and spare parts.
- Arrangements of discharge and feeding screws at the same level secures the most even dosing of chips into the grinding chamber.
- Hydrodynamic bearing assembly safely absorbs imposed thrust, giving maximum life time of the refining unit.
- Most precise hydraulic gap adjustment for all Pallmann Refiners resulting in calibrated fiber quality.



- Reliable and virtually maintenance-free design of the blow valve and fiber diverter valve.
- PLC-HMI system combined with ample instrumentation allow perfect process control and fine tuning of the system.
- Maintenance-friendly design of single components maximizes up-time and minimizes spare parts costs.

Type	Disc diameter		Motor capacity kW	Plug screw diameter	
	inch	mm		inch	mm
PR-C 42	42	1070	1100 - 1300	13,5	350
PR-C 44	44	1120	1400 - 1700	13,5	350
PR-C 46	45	1170	1700 - 2100	16	420
PR-C 48	48	1220	2100 - 2500	16	420
PR-C 50	50	1270	2500 - 3000	16	420
PR-C 52	52	1320	2900 - 3500	16	420
PR-C 54	54	1370	3400 - 4100	16	420
PR-C 56	56	1425	3800 - 5000	20	500



The Pallmann Group

The Pallmann Group is the leading manufacturer of size reduction machinery for the wood products industry. Pallmann Maschinenfabrik 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. More than 130 test machines are available for the preparation of various raw materials including subsequent laboratory analysis on individual scale. In addition to the manufacturing plants in Europe, North- and South America, the Pallmann group has a worldwide sales and service network.



The Pallmann Program

Engineering and Service:

Design and Manufacturing
Research and development
Tests at industrial scale
Laboratory analysis
Worldwide service
Spare parts
Control systems
Process monitoring
Installation and start-up
Maintenance and repair
Project Management

System solutions for:

Flake production
Fiber production
OSB-production
Recycling
Annual plants preparation
Thermal usage

Single machines:

Debarkers
Universal flakers
Long log flakers
Disc chippers
Drum chippers
Knife ring flakers
Double stream mills
Hammer mills
Drum shredders
Bale breakers
Depithers
Refiners
Sifting-/classifying systems
Chip washing systems
Re-chippers
Pre-crushers
Impact hammer mills
Screen ring mills
Wing beater mills

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