



PULP & PAPER

THINK BIG, THINK TX IN REFINING

HIGH CAPACITY, HIGH PERFORMANCE
TX68 REFINER

ANDRITZ

ENGINEERED SUCCESS

The TX68 twin refiner is the world's largest refiner

ANDRITZ has designed a broad range of high-consistency (HC) refiners to meet the demands of pulp, paper, and panelboard producers. At the top of the line in terms of throughput and motor power is the TX68 twin refiner.

With unmatched design capacity, the TX68 refiner is exceptional when it comes to HC refining. One look at its design and build shows why it can achieve continuous high throughput, high speed, and long life:

PRECISE, CONSTANT REFINING GAP

The TX68 is a twin refiner, combining two refining zones in one machine. It maintains a constant refining gap to ensure the best energy input to the fiber while keeping pulp quality constant over time.

ADVANCED FEEDING FOR HIGHEST CAPACITIES

The advanced feeding system combines the proven concepts of ANDRITZ's Side Entry Plug Feeder (SEPF) with a Constant Feeder (C-Feeder). Each side of the twin refiner has its own SEPF and C-Feeder, allowing accurate feed stock metering to each refining zone. The DoubleSEPF feed system ensures constant feed,

exact and adjustable splitting of incoming chip feed between each side of the refiner, and constant feed consistency.

EASY AND FAST PLATE CHANGES

A combined hydraulic system is built into the TX68 to make plate changes easier and faster. The system first lifts the feed unit out of the way and in a second step opens the refiner casing.

LATEST IIOT FEATURES

The latest IIoT features, like the ANDRITZ Twin Balance Control, provide direct and real-time feedback on the refiner gap operation in order to ensure an absolutely symmetrical split of incoming chips between both refining zones. Together with the ANDRITZ Refiner Commander the control system and user interface to the TX68 refiner system delivers best fiber properties for your requirements.



MAIN DATA

DESIGN PRINCIPLE

- Twin-disc refiner with two flat refining zones
- Simple supported shaft with bearing units on each side of the rotating disc
- Two floating stators; fixed rotor

APPLICATIONS

- ATMP*: ANDRITZ process for softwood
(*Advanced Thermo Mechanical Pulping)
- P-RC APMP*: ANDRITZ process for hardwood
(*Pre-conditioning Refiner Chemical Alkaline Peroxide Mechanical Pulp)

KEY PARAMETERS

Plate diameter:	Up to 70 in (178 cm)
Installed motor power:	Up to 40,000 kW
Rotational speed:	1,500–2,300 rpm
Capacity:	Up to 1,800 admt/d
Feed material:	Wood chips and impregnated wood chips
Weight of TX68 refiner:	> 50 tons



MOTOR POWER: Up to 40 MW

SPEED: 1,500–2,300 rpm

CAPACITY: up to 1,800 t/d

PLATE CHANGES: < 4 h*

* Proven in a reference installation, time without cool-down and restart of refiner



DISCOVER OUR FULL-RANGE PORTFOLIO FROM FIBER PROCESSING TO PAPERMAKING

An outstanding paper product requires outstanding production – matched with the particular needs of raw material and final product. Discover the full-range portfolio from ANDRITZ: Excellent stock preparation that allows best fiber development according to furnish and with economical use of resources. PrimeLine paper machines that are a synonym for producing top-quality tissue, paper, and board grades. Complete lines or single units, upgrades, and modernizations. Contact us and benefit from your individual package in papermaking technology.

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