



SERVICE, SAFETY AND SATISFACTION

Papillon upgrades

ANDRITZ

Like new – every time!

As ANDRITZ is one of the leading technology groups in the Pulp & Paper industry, it is important to us to continuously develop our machines and thus adapt them to our customers' needs, which can change over the lifetime of a machine.

When doing so, ANDRITZ focuses on efficiency and sustainability on the one hand and machine safety and ease of maintenance on the other. Our competence in the field of refiner construction paired with our experience in machine maintenance and refurbishment form the basis for the development of new products. This is how we create new engineering solutions that

make everyday operations easier and more efficient for our customers. Certain aspects of our products' operational safety play a major role here.

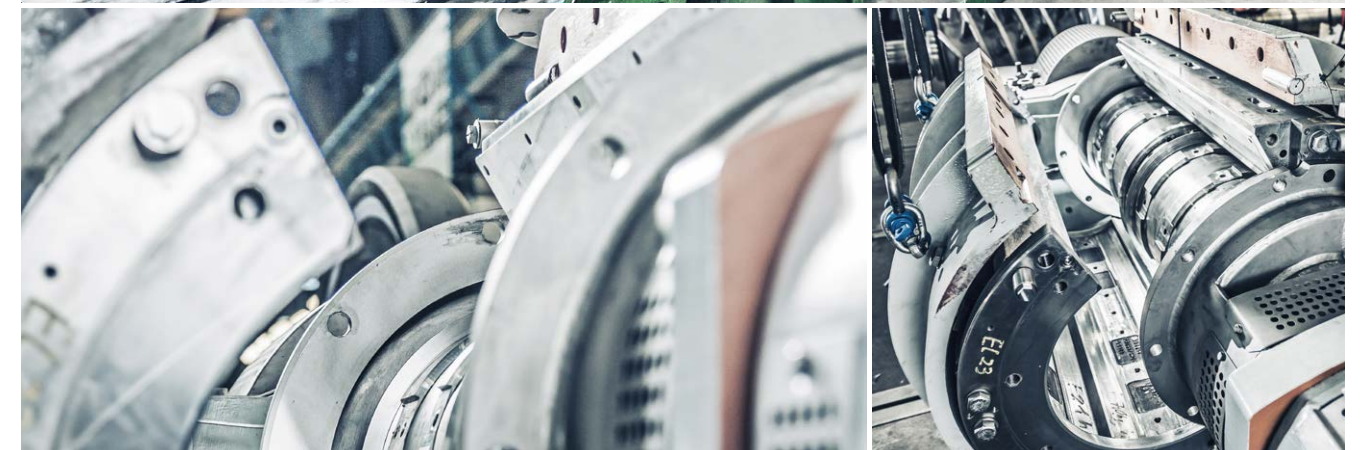
As it is possible to upgrade older machines and make them as good as new, existing installations can also be made to operate cost-effectively with good availability.

THE ANDRITZ SOLUTION

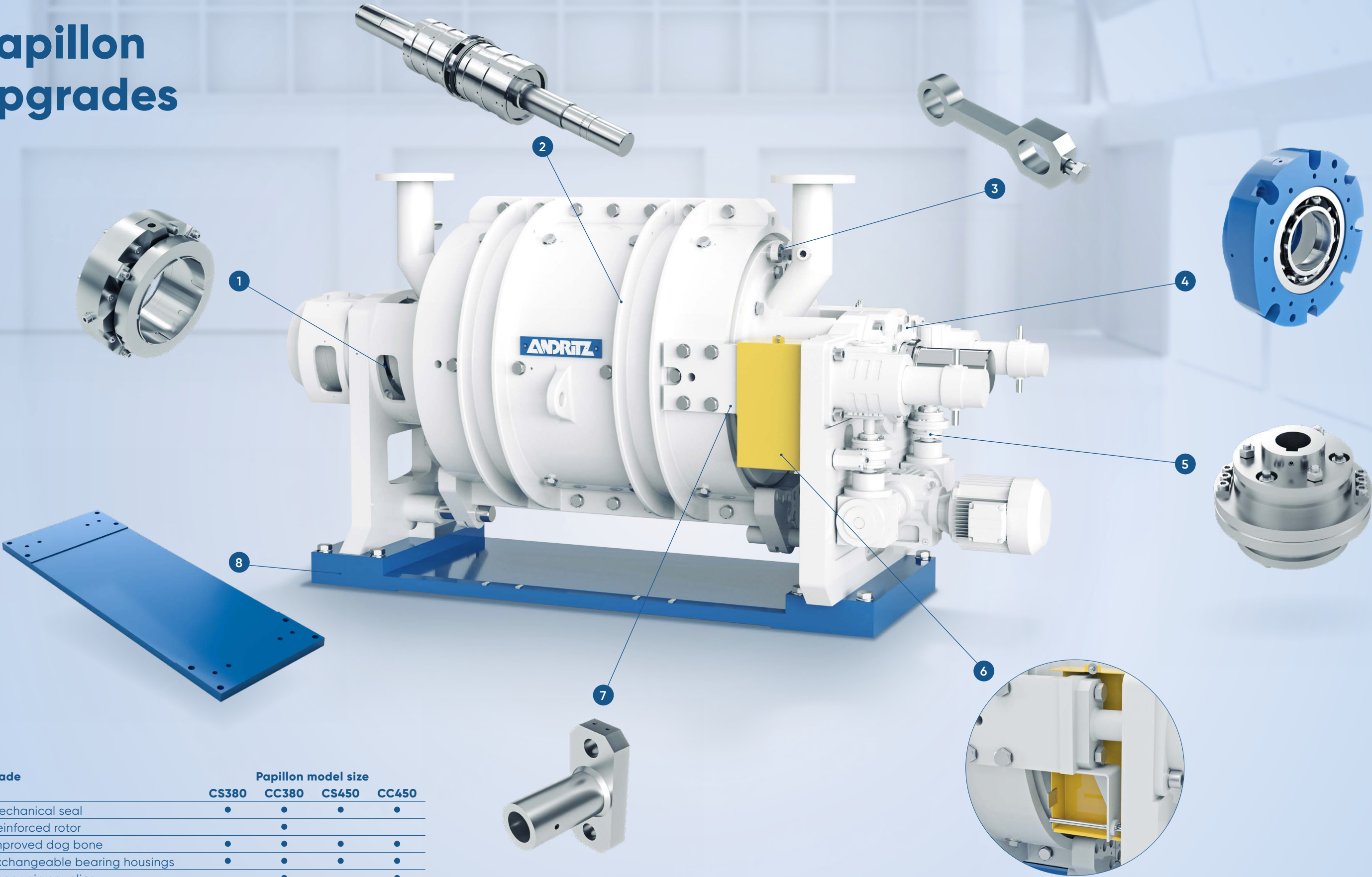
As the only manufacturer offering cylindrical refiners, ANDRITZ is constantly working on product maintenance so that customers can continue to operate these special machines comfortably and efficiently. ANDRITZ can now offer a range of upgrades especially for the ANDRITZ Papillon Refiner series.

BENEFITS

- ANDRITZ's service experience has also been incorporated into our upgrades
- Improved maintenance procedures thanks to simplified construction
- Lower resource and operating costs
- Increased machine availability due to longer maintenance intervals
- Reduced machine downtimes because components are reinforced
- Advanced machine monitoring
- Latest machine safety features in line with the regulations applying



Papillon upgrades



Upgrade	Papillon model size			
	CS380	CC380	CS450	CC450
1 Mechanical seal	•	•	•	•
2 Reinforced rotor		•		
3 Improved dog bone	•	•	•	•
4 Exchangeable bearing housings	•	•	•	•
5 Shear pin coupling		•		•
6 Stator position measurement	•	•	•	•
7 Reinforced spindle drive connector	•	•	•	•
8 Base plate		•		

Technical details



1

MECHANICAL SEALS

1:1 exchange of all stuffing boxes. The mechanical seal is mounted directly on the original stuffing box housings. The seal is designed as a compact and easy-to-handle cartridge.

Benefits:

- Water saving due to reduced and even consumption, no leakage.
- Quick and easy installation or replacement.
- Less maintenance
 - no repacking of the stuffing box packing and
 - worn sleeves can be replaced



2

REINFORCED ROTOR

The stiffer 1:1 version ensures an extended rotor lifetime.

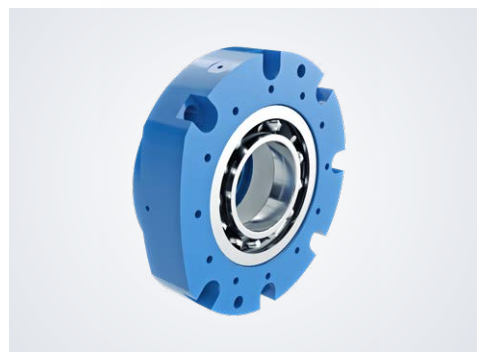


3

IMPROVED "DOG BONE" DESIGN

Benefit:

- Design with threaded insert avoids seizing of the clamping bolt and ensures a fast and easy stator closing procedure after changing a refiner plate.



4

EXCHANGEABLE BEARING HOUSINGS

Benefits:

- The exchangeable bearing housings on the motor and plate adjustment sides allow simple and fast bearing change.
- If there is damage to the bearing seat, the bearing housing can be exchanged like other spare parts.
- Disassembly work is reduced to a minimum.
- There is no longer any need to lift the refiner off its foundation.



5

SHEAR PIN COUPLINGS

If the torque increases due to stator blockage, the shear pin breaks and disconnects the adjustment system mechanically to avoid further damage.

Benefit:

- Design prevents irreparable damage to the stator and adjustment system.



6

STATOR POSITION MEASUREMENT AND SPINDLE DRIVE PROTECTION SYSTEM

Linear sensors installed on both spindle drives detect any malfunction by the gap adjustment system and indicate the refiner plate gap and plate wear at the DCS.

Benefits:

- Constant tracking of refiner plate wear enables maintenance work to be scheduled efficiently.
- Dynamic refiner open position ensures a fast production start because start-up times remain constant over the refiner plate lifetime.
- Greater machine safety due to warning system and DCS interlocks.



7

REINFORCED SPINDLE DRIVE CONNECTORS

Benefits:

- The new design prevents the carrier becoming bent in the event of overloading or misalignment after refiner maintenance.
- Exact re-connection of the adjustment system to the stator after refiner plate changes.



8

BASE PLATE

Improved stiffness of the refiner to ensure faster realignment during machine maintenance and installation work.

Benefit:

- Exact machine alignment ensures optimal conditions for the roller bearing, resulting in predictable bearing lifetimes.



WOULD YOU LIKE TO HAVE MORE INFORMATION ON OUR SERVICE OPPORTUNITIES FOR YOUR REFINER?

Don't hesitate to contact us.

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