



THE ANDRITZ TFSB REFINER

New refiner installation
within 24 hours

ANDRITZ

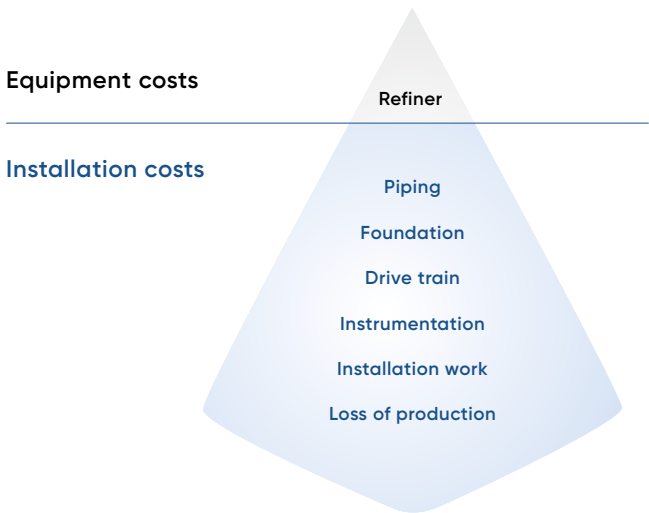
ANDRITZ refiner exchange concept

With the age of the existing refiners in operation, repair and maintenance options have become limited. Replacement of these old refiners must now be considered. This decision can be difficult due to very high project and installation costs that are common to new refiner installations. With new installations it is not only the refiner cost that has to be considered. New piping, base, instrumentation and motor are often all included as well.

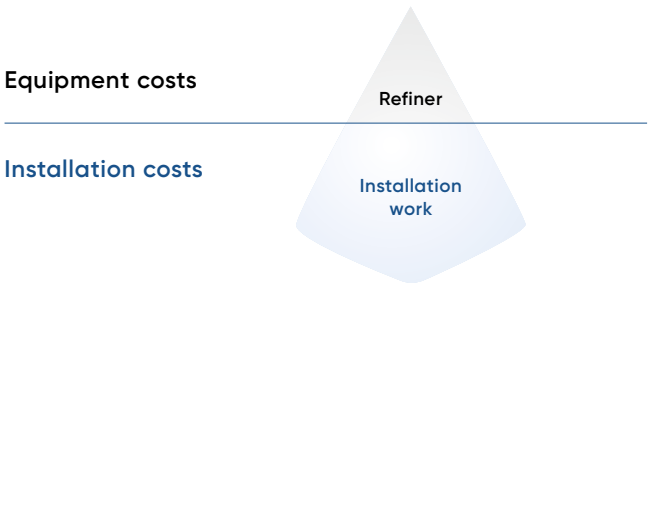
ANDRITZ offers a solution for this – the **ANDRITZ TFSB Exchange LC Refiner replacement**. The aim of this solution is to offer a refiner that can be installed in a fraction of the time and cost of a conventional new

refiner project, minimizing down time and production losses. ANDRITZ designed a TwinFlo style swing door refiner that fits on the existing Sprout Waldron cradle and matches up to the existing motor and inlet / outlet connections for short installation time. This new TFSB Refiner is a state of the art refiner with a swing door and with current standard features such as a splined rotor, mechanical sealing, automated rotor position measurements, or machine monitoring systems detecting critical operation modes, that were not available with the old Sprout Waldron models. By eliminating the expensive project and installation costs the only costs to consider in refiner replacements is the new refiner itself.

CONVENTIONAL REFINER REPLACEMENT



ANDRITZ REFINER EXCHANGE CONCEPT



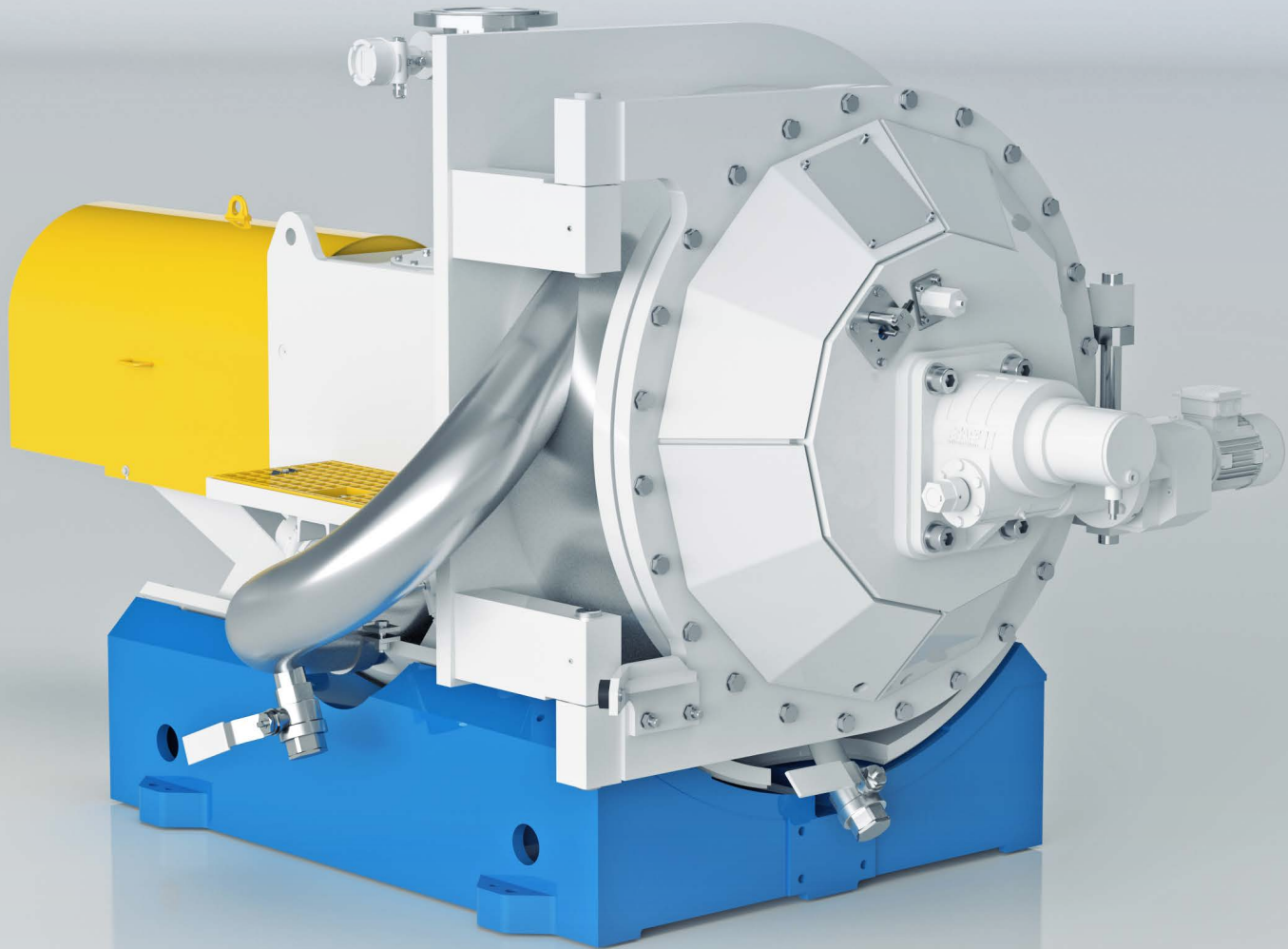
ANDRITZ with our experience in the Pulp & Paper industry and engineering capabilities is now going to change the philosophy of system renewals and up-

grades by providing double disc refiners tailored to fit into your existing system!

BENEFITS

- The exchange refiner is designed to fit the existing installation.
- Expensive installation costs are eliminated.
- No modifications are required.
- All safety standards are according to machine regulations.
- Short system downtime to install the refiner.
- Stock inlet and outlet piping are maintained.
- Plate changes and routine maintenance tasks are improved due to the swing door design.
- Existing motor can be used.
- The new state of the art refiner allows the implementation of economic components such as mechanical sealing or rotor position measurement.

TwinFlo TFSB Refiner



DESIGN OF THE ANDRITZ TFSB REFINER:

THE CHALLENGE

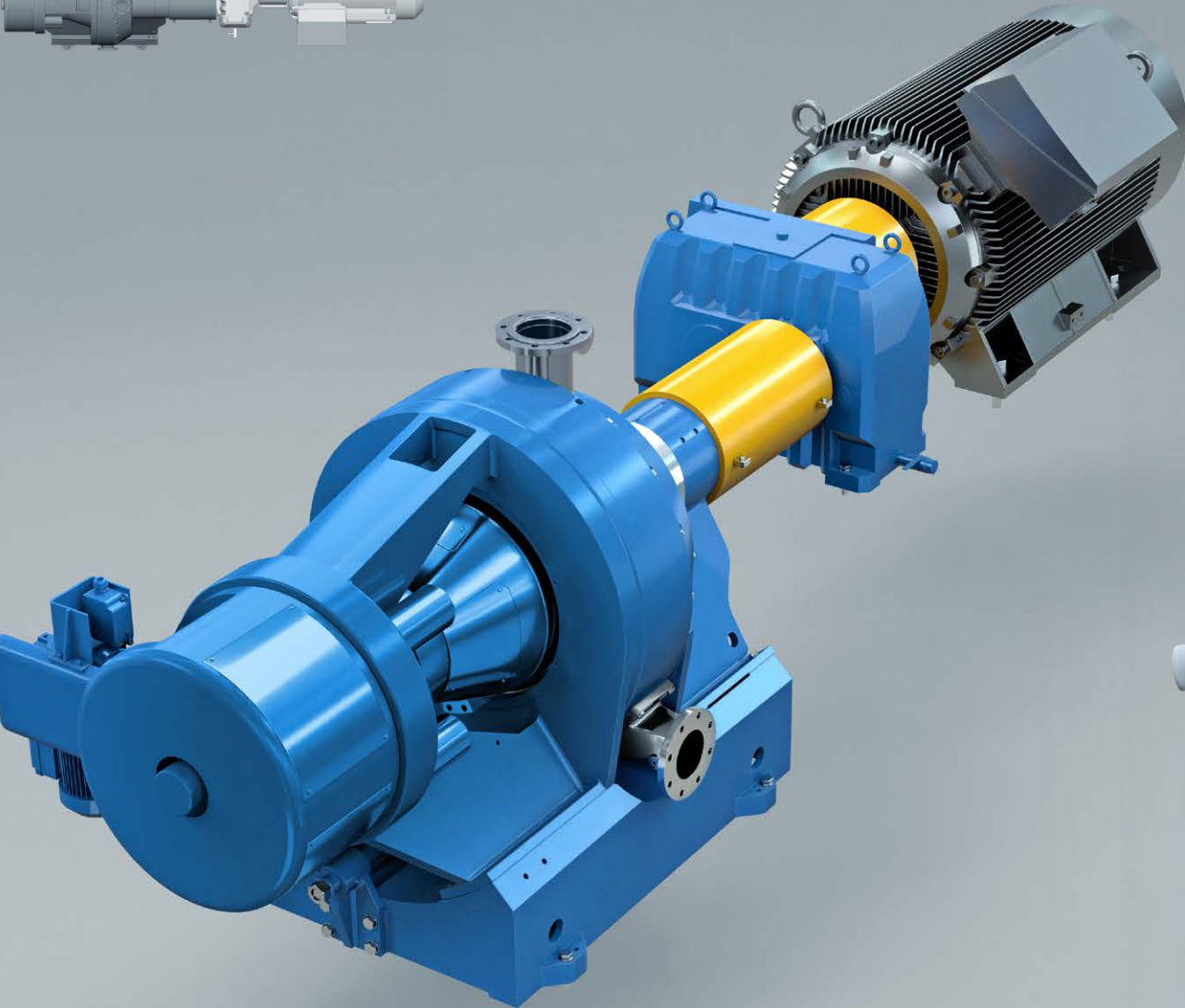
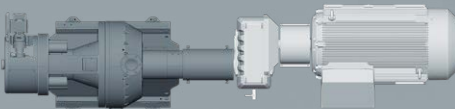
- Installing new model refiners to replace the existing Sprout Bauer refiners means a new base and modified piping needs to be considered as well.
- Refiner plate changes with the Sprout Bauer refiner is time consuming and involves risk of injury due to limited access of the model.
- The original Sprout Bauer Refiner has two stuffing boxes, which means increased maintenance efforts.
- The Sprout Refiner casings are made of casted components, showing cracks and corrosions after decades of operation.

THE SOLUTION

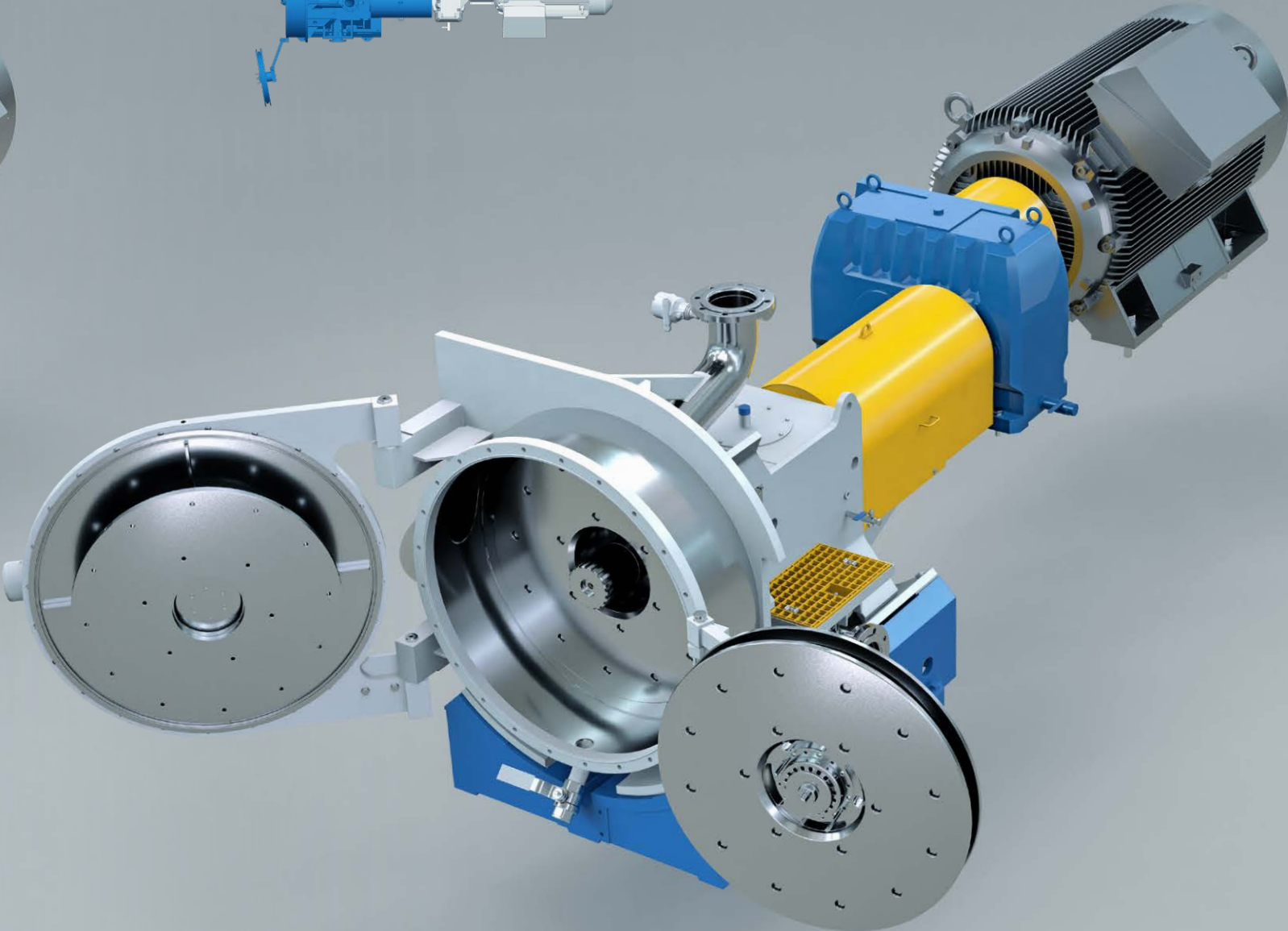
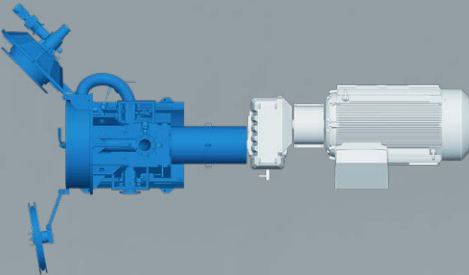
- The new TFSB refiner is designed to slip onto the old base, and connect to the existing motor by an spacer coupling.
- The new TFSB is designed with a swing door and a rotor changing device that ensures a quick and safe refiner plate change.
- The new TFSB refiner design has only one stuffing box and is prepared for a mechanical seal installation.
- The new TFSB is an improved designed made of fabricated components.

TwinFlo TFSB Refiner

ORIGINAL



NEW



Old refiner model	Size	ANDRITZ TFSB
Sprout Bauer Refiner	26"	TFSB26
EMA / EMA III, HA / HA III	34"	TFSB34
	42"	TFSB42

Product development for other refiner types is constantly being continued.

Technical Details



Swingdoor design with rotor changing device:

- This design enables a fast, easy and safe refiner plates changing procedure.
- All parts in contact with the process are stainless steel.



Sampling point:

A drainage valve in the refiner outlet piping enables the possibility of frequent fiber quality checks by sampling of pulp directly at the refiner.



Safe maintenance:

Platforms on both refiner wings ensure a proper and safe stand during the maintenance works and improve the accessibility of the process sealing area and instrumentation.



The refiner is fully equipped with all safety and process relevant instrumentation:

- Pressure transmitter at inlet and outlet piping.
- Temperature transmitter at the outlet piping.
- Local pressure gauges.
- Limit switches to avoid mechanical issues of the adjustment system.



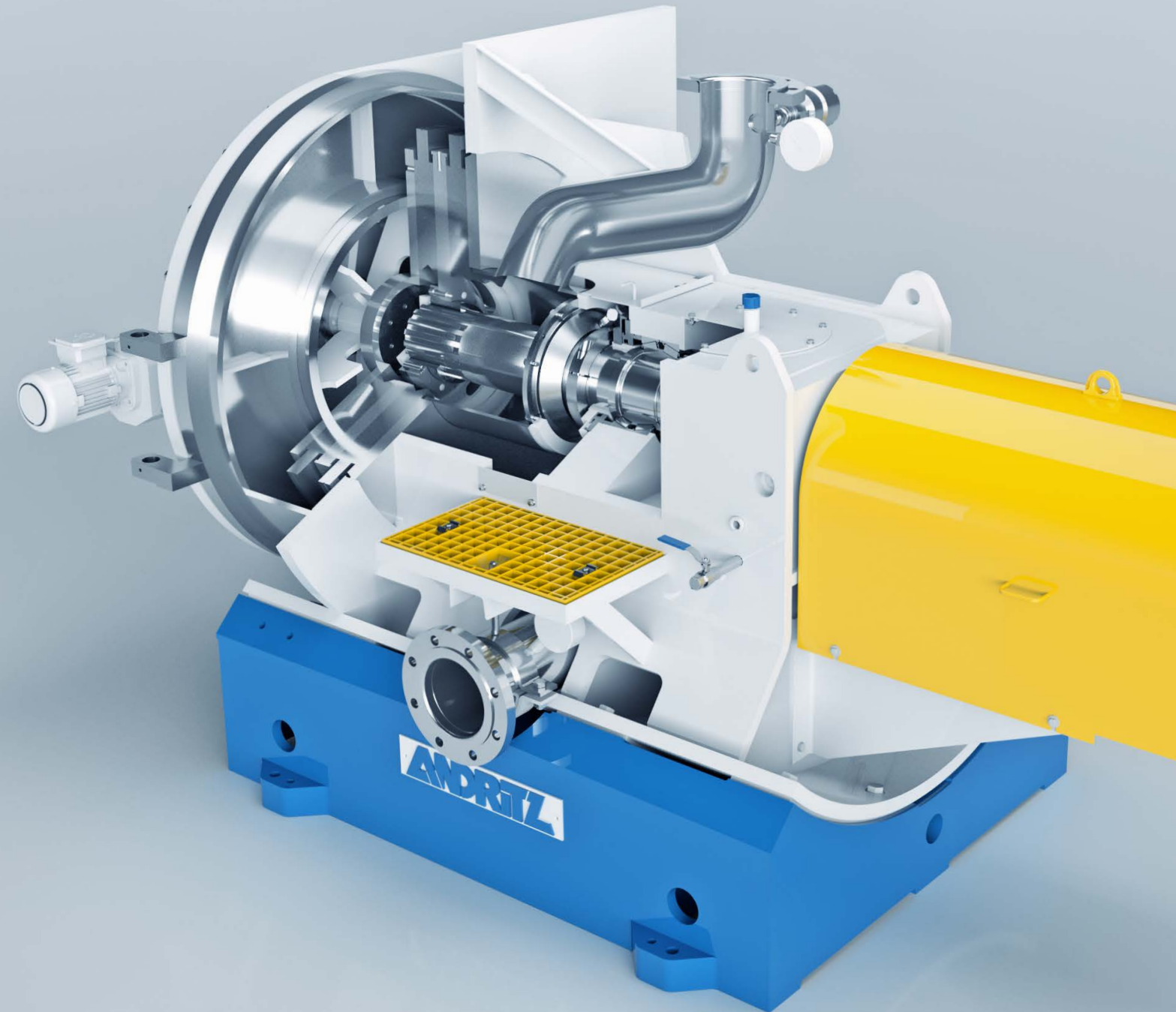
The implemented rotor position measurements allow an online refiner plates wear monitoring for predictive scheduling of refiner plates changes.

Moreover this system improves the production start of the refiner. Means minimizing the ramp-up time for refiner start till required fiber treatment by improvement of the refining gap adjustment control.



Sealing solution:

The improved refiner design allows a fast and easy upgrade from conventional stuffing boxes to a mechanical seal solution. Modification can be done during a refiner plates change without disassembling of the complete machine.





THE ANDRITZ REFINING SERVICE TEAM – GLOBAL SUPPORT FOR ANY KIND OF REFINER

We also want to take up your challenges! For more information about ANDRITZ's services, please visit andritz.com/refiner-service for details.

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