



PANELBOARD

ANDRITZ XTENDER SCREW

AN EXTENSION OF THE PLUG SCREW LIFE
AND A REDUCTION OF THE OPERATING COSTS



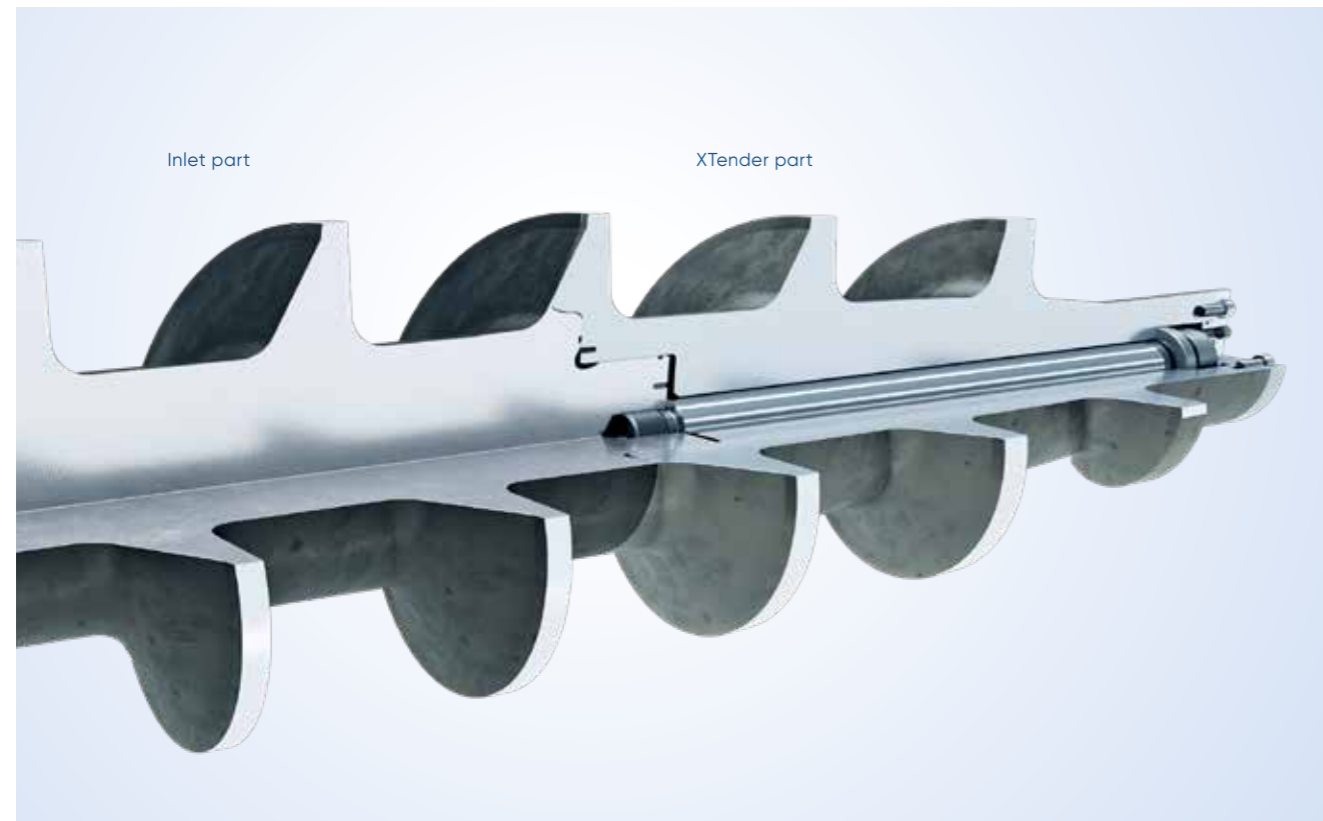
PATENT
PENDING

ANDRITZ

ENGINEERED SUCCESS

ANDRITZ XTender Screw

A two-part solution for cost savings and a significantly extended service life.



The XTender Screw (XTS) concept works with a continuously wear-resistant screw body, i.e. without a thin hardfacing layer. The screw can therefore be operated longer. Additionally, it is a modular system with two parts which can be exchanged independently when needed. The XTender part will be exchanged more often, thus the Inlet part can be reused longer. This means that a new XTender part can be fitted to a used Inlet part.



THE XTENDER SCREW CONCEPT CONSISTS OF TWO BASIC MATERIALS:

- **INLET PART** - reusable part, made of a special hard and ductile material to guarantee the wear resistance and the mechanical resistance of the screw. This part defines the volumetric throughput of the screw.
- **XTENDER PART** - replaceable part, made of a special very hard material to guarantee the wear resistance at the high compression area. This part defines the compression ratio of the screw.

The XTS modular system

A system which enables the Screw to be customized to the operating conditions.

VARIATION OF THE INLET PART:

The volumetric throughput (liters per rotation) is adapted to the system throughput by selecting the appropriate inlet part. This ensures that the screw operates in the optimum speed range.

VARIATION OF THE XTENDER PART:

By selecting the appropriate XTender part, the compression rate of the screw is adapted to the material being conveyed and the dewatering requirements. This allows seasonal changes in production (summer/winter operation) and also variations of raw materials mix (hardwood/softwood) to be taken in account. With moist and fresh wood and a high proportion of softwood, the compression should be increased in order to save thermal energy in the dryer and therefore CO₂. With dry, poorly cleaned wood and with a high proportion of hardwood, the compression can

be lowered in order to reduce the electrical power required by the plug screw feeder motor and to minimize the wear of the components (screw, housing, spool piece,...).

YOUR BENEFITS

- Decrease of refurbishment costs thanks to exchange of XTender part with reuse of Inlet Part
- Fast on-site replacement of parts without shipment to external workshop
- ANDRITZ provides different designs for Inlet parts and XTender parts which match together
- Customer specific process requirements met with different designs for Inlet Parts and XTender parts



Spare parts set. Examples of XTender parts for lower (on the left) or higher (on the right) compression rates.



TO DISCOVER THE BEST SOLUTIONS FOR YOUR NEEDS, PLEASE CONTACT YOUR RESPECTIVE KEY ACCOUNT MANAGER

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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