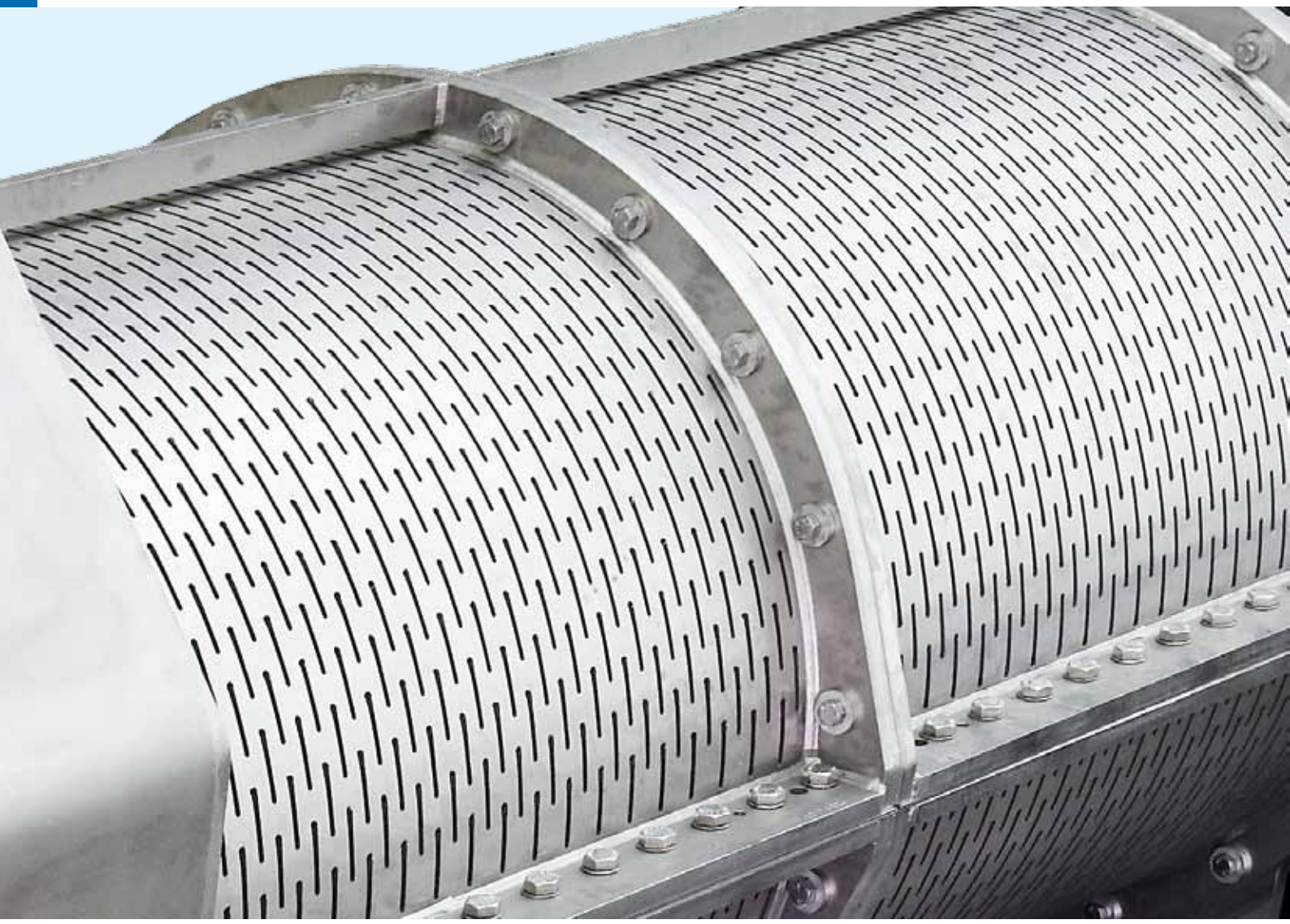
ANDRITZ
Pulp & Paper

ANDRITZ Pulp Screw Press

High throughput and high dryness



The challenge: high-throughput dewatering, high-dryness of different fiber suspensions

ANDRITZ Pulp Screw Presses are specified at all process stages where dewatering at the highest efficiency is required.

Efficient dewatering is needed to prepare pulp to the proper consistency range for processes such as HC refining, HC bleaching, and dispersing.

One of the most efficient ways to accomplish this is a pulp screw press. In addition to preparing the pulp, screw presses are applied for washing and water loop separation, removing the COD of the pulp.

The ANDRITZ Pulp Screw Press provides dewatering at the highest level with several unique features.

Feeding with low consistency or medium consistency fiber suspensions the press can reach outlet dryness beyond 30%.

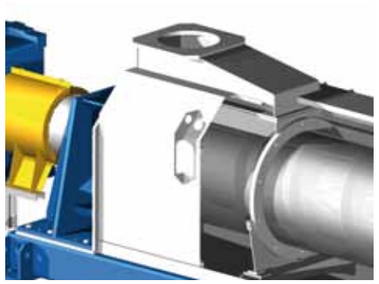
The patented control system and a powerful drive ensure safest operation and constant dryness at the discharge.

Benefits

- Highest throughput and dryness in a single machine
- Compact design
- Highly efficient dewatering
- Easy to operate
- Production-based control prevents plugging
- Flexible to work with a wide range of pulp types and consistencies
- High availability, low maintenance requirements
- Excellent resin removal through shear forces

▲ Operation of the pulp screw press can be easily automated. ANDRITZ offers packages for control of a single machine or an entire production line.

The solution: pulp screw presses from the global leader in dewatering technology

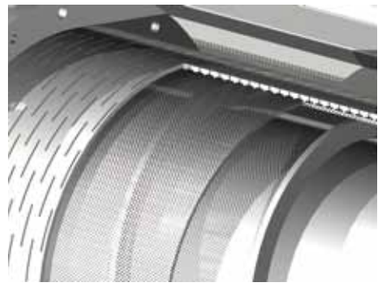


Headbox design

- Patented design for uniform pulp feed
- Optimum filling of the screw press over various consistencies
- Slot-shaped opening for additional dewatering area

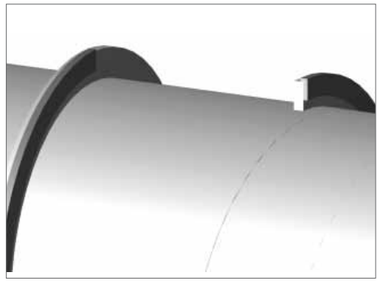
Counter-pressure device

- Constant high dryness of the dewatered pulp
- Simple, compact design
- Robust, maintenance-free pneumatic cylinders, not in contact with the pulp



High-pressure screen basket:

- Patented design delivers highest dewatering performance in high-pressure zone
- Grooves on the support plate ensure full utilization of screen area
- Axial grooves on the screen prevent rotation of the press cake
- Adjustable gap between screw and screen plate



Wear shoes

- Longer service life in the high pressure zone
- Easy to weld
- Stainless steel with special sintered hard metal coating
- High availability and runability – minimum shutdowns
- Lower maintenance
- Highly resistant to impact, knocks, or deformation

Screw shaft with coating plates

- Customized screw designs for all applications
- Shaft geometry based on pulp data
- Increased dryness from highly efficient shaft dewatering
- Coating for longest lifetime and higher performance

ANDRITZ Pulp Screw Press

Over 300 installations worldwide

▲ ANDRITZ Screw Presses (SCP1410) as part of a typical four-stage washing system for *P-RC APMP*.

This is a high-efficiency, four-stage washing system installed after the HC bleaching tower. There are four SCP1410 screw presses in serial operation. The capacity per machine is 900 admt/d of *P-RC APMP* hardwood (eucalyptus urophylla grandis). The serial process of dewatering and diluting the pulp removes contaminants and impurities in the pulp at state-of-the-art washing efficiencies. ANDRITZ delivers the highest capacities and washing efficiencies with highly reliable technologies. We accept the challenge!

ANDRITZ Pulp Screw Press: available sizes

Model SCP	1910	1710	1410	1407	1008	1006	1005	755	754	454	453	322	232
Max. Prod [tpd]	1,250	1,100	925	700	550	475	380	290	230	125	93	54	35
Weight [t]	75.5	50.0	36.0	32.0	21.0	19.0	17.0	10.0	9.3	4.8	4.3	2.8	1.8

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