



PULP & PAPER

**HIGH-PRESSURE
NOZZLE SYSTEMS FOR
CLEANING AND CUTTING**

PRECISE, SIMPLE, SAFE

ANDRITZ

ENGINEERED SUCCESS

High-pressure nozzle systems for cleaning and cutting

ANDRITZ supplies high-pressure nozzles, trim nozzles, edge trim units and pump systems for the pulp and paper industry. These premium components contribute towards high-precision machine operations and excellent product quality.

ANDRITZ nozzles with ruby insert are state-of-the-art equipment today on most pulp, paper, board and tissue machines. This technology extends service life and ensures the best cutting quality on the paper machine, thereby preventing paper web breaks.

ANDRITZ edge trim units are designed for precise, simple, and safe adjustment of trim nozzles for all kind of paper machines.

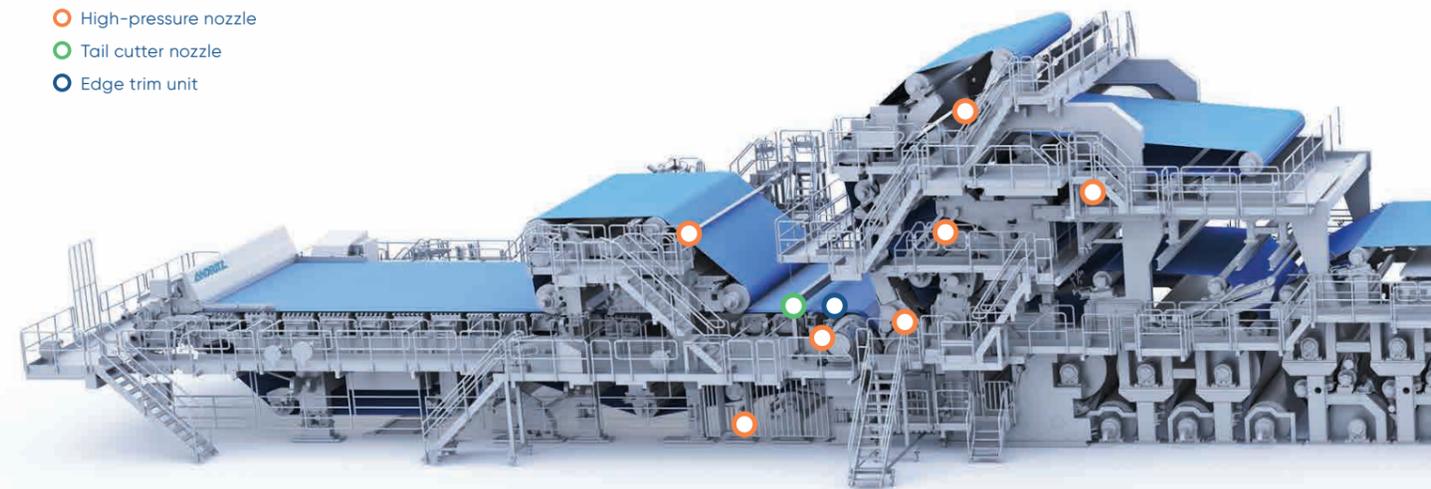
ANDRITZ pump systems supply water at accurate pressure and flow volume for tail cutters and edge trim units.

The technological basis for our solutions is a comprehensive knowledge of paper machine design and operation. All components and systems can be individually configured according to the customers' needs.

BENEFITS

- High-quality ruby nozzles for:
 - Excellent jet quality
 - Best cutting performance
 - Longer service life
- Adjustments can be made simply and safely
- Individual configurations adapted to the customer's needs
- Complete product portfolio from one supplier for optimum performance
- European manufacturing

- High-pressure nozzle
- Tail cutter nozzle
- Edge trim unit



Application range of ANDRITZ high-pressure systems

HIGH-PRESSURE RUBY NOZZLES

Excellent
jet quality

High-pressure nozzles

ANDRITZ high-pressure ruby nozzles for conditioning and cleaning of paper machine forming fabrics and press felts guarantee the highest jet quality and also extend service life, which is well above average. The ANDRITZ high-pressure nozzles are equipped with Teflon or FKM flat gaskets and can be applied to all spray bar types.

HIGH-PRESSURE DISC NOZZLES

The existing nut is re-used for installation in the machine. These nozzles are also available with a notch on the front side for easy removal.

Option: Inlet extension to avoid nozzle blockages.



Front side



Rear side



Front side, undercut



With extension

HIGH-PRESSURE ONE-PIECE NOZZLES

The single unit with thread can be installed easily and safely with an Allen key.

Option: The cover plate prevents the hexagon socket from getting dirty (for up-side down installation).



Front side



Rear side



Cover



Nozzle with socket, front side



Nozzle with socket, rear side

Trim nozzles

ANDRITZ trim and tail cutter nozzles provide the highest jet quality. Two o-rings ensure easy installation and proper tightness. The nozzles can be supplied in different versions:

- Single-jet, double-jet and triple-jet nozzles
- Flat-tip nozzles (long and short versions)
- Nozzles with drip guide
- Nozzles with PTFE-based non-stick coating
- Nozzles with or without ring for remote adjustment
- Nozzles for better jet quality at higher jet diameter

VARIOUS NOZZLE VERSIONS AVAILABLE



Flat tip, single jet



Drip guide, single jet



Flat tip, double jet



Drip guide, double jet, with ring for remote adjustment

NOZZLES WITH PTFE-BASED NON-STICK COATING



Flat-tip, double jet



Flat-tip, double jet, with ring for remote adjustment



Drip guide, triple jet



Drip guide, triple jet, with ring for remote adjustment

Our trim nozzles are fitted with a color-coded ring (see page 10) for easy identification of the jet diameter.

Edge trim units

The ANDRITZ edge trim units enable reliable and precise positioning and alignment of trim squirt nozzles during paper machine operation. The remote adjustment device allows the operator to align the jet safely in the optimum setting.

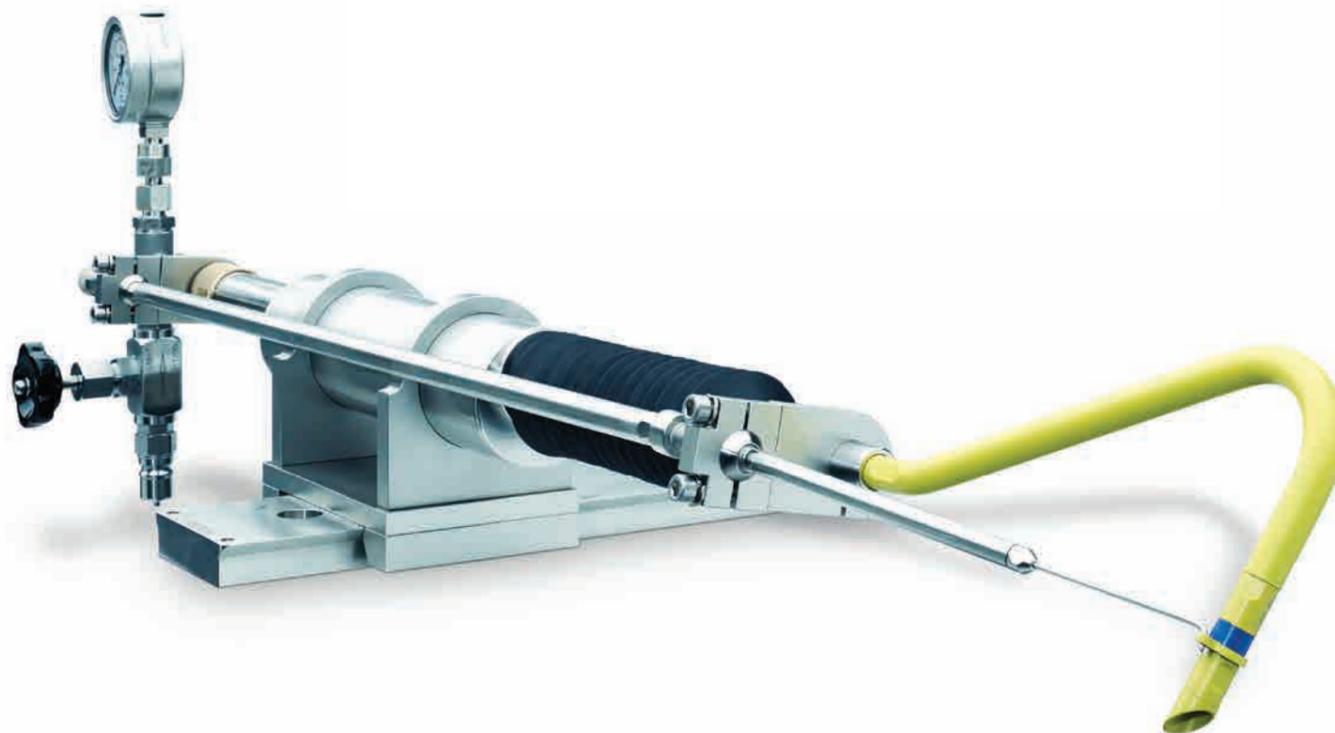
Our edge trim units have a pressure control and de-aeration unit for easy and exact adjustment of the water pressure at the nozzle. As a result, the best possible trim cut quality can be achieved.

Mounting and dismounting on the base plate is simple and safe. The complete unit can be placed on the base plate and adjusted or removed in seconds with minimum effort.

The ANDRITZ edge trim units are made of stainless steel AISI 316.

FEATURES

- Built-in worm gear for manual or driven movement in cross-machine direction (CMD)
- Robust and extremely durable
- Pressure adjusting and quick change filter units
- Optionally without remote nozzle setting device



Edge trim unit with remote adjustment device

High-pressure pump systems

ANDRITZ pump systems comprise a storage tank made of stainless steel with level control, a double changeover filter unit and a redundant pump system. The flow rate and pressure can be adjusted to the customer's individual requirements.

The pump system is specially designed for the water supply to trim squirt systems and tail cutters on modern, high-speed paper machines as well as heavy-duty pulp drying applications. The goal is to

provide sufficient pressure and flow volume. A heating unit is available to provide constant water temperature in harsh ambient conditions.



High-pressure pump system

Color code

Our trim nozzles are equipped with a color-coded ring for easy identification. Each color refers to an individual jet diameter.

COLOR CODE	JET DIAMETER
Light blue	0,25 mm
Black	0,30 mm
Blue	0,35 mm
Red	0,40 mm
Green	0,45 mm
Grey	0,50 mm
Yellow	0,60 mm
White	0,70 mm
Violet	0,80 mm
Brown	0,90 mm
Orange	1,00 mm



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