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*Professional high pressure water **jet** technology*

## ***Tail Cutters & HP Edge Trim***



- **Wet End Tail Cutters: Single - Dual**
- **Wet End Trim Squirts**
- **Dry End Tail Cutter with Radial Saw**
- **Dry End Tail Cutter with HP water jet**
- **Dry End Edge Trim**

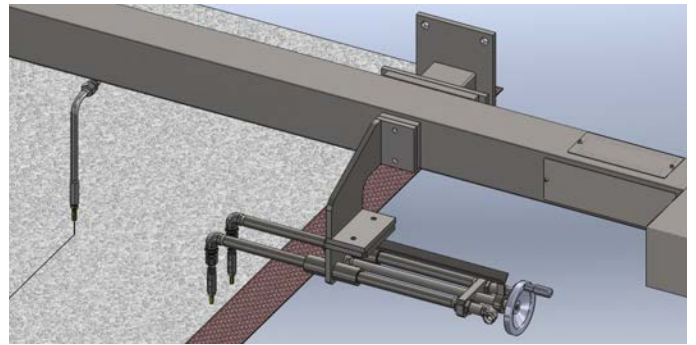
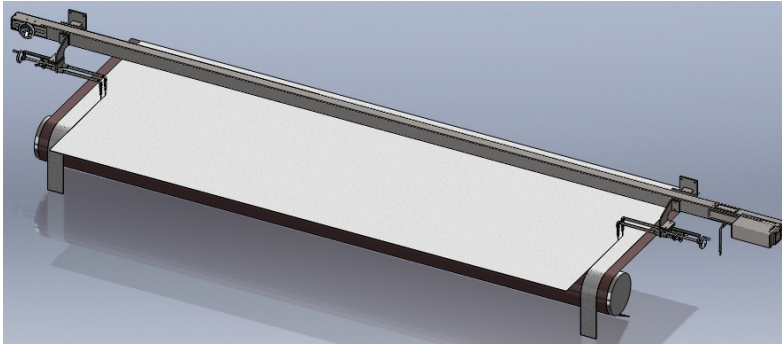


# Wet End Tail Cutter



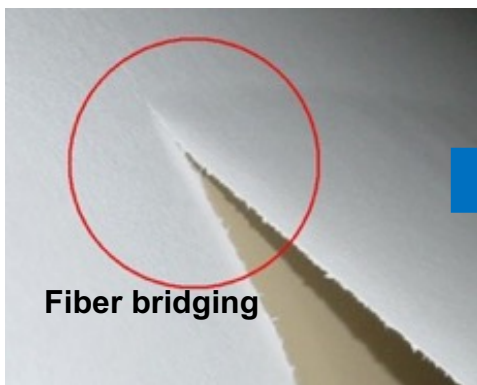
## Single Wet End Tail Cutter:

- Cross machine travelling squirt
- Compact design to fit in any machine
- Highly reliable design
- Stainless steel 316 throughout
- Cantilever brackets for easy wire changes
- Variable speed drive control
- Encoder for precise position control



## Tail Cutter & Trim Squirts:

- Tail Cutter used while threading
- Trim Squirts cut format/ deckle during production
- Fully automatic or manual Trim Squirts
- Ruby nozzles, single / double or triple
- Right nozzle, water quality and pressure provide good cut
- Poor cut leads to fiber bridging and sheet breaks

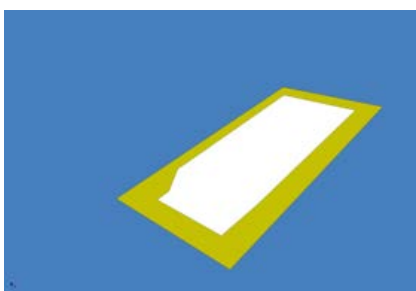
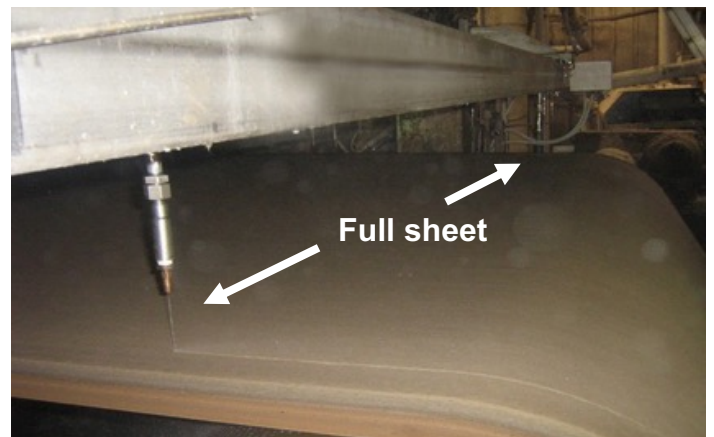
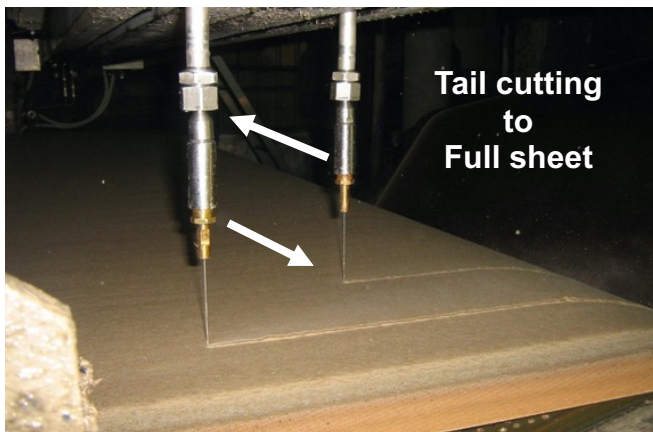


# Wet End



## Dual Tail Cutter:

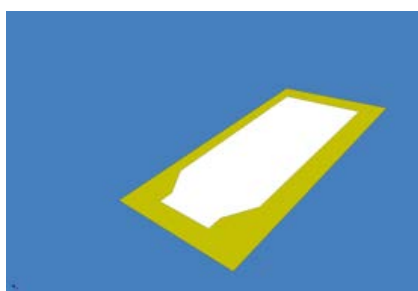
- Automated Trim removal
- Automatic deckle changes
- Minimize unproductive time between production runs
- Reduce broke to a minimum
- Optimize Tail Width & Position
- Fine tune width and position during production
- Adjust paper width to cross directional shrink > minimize paper loss on reel



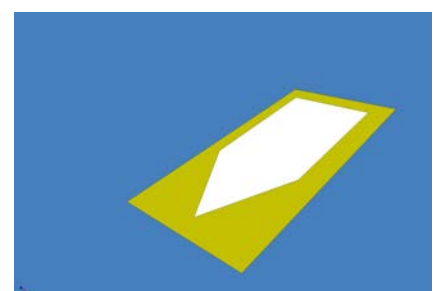
Fine tuning



From Tail to Full Sheet



Automatic deckle changes

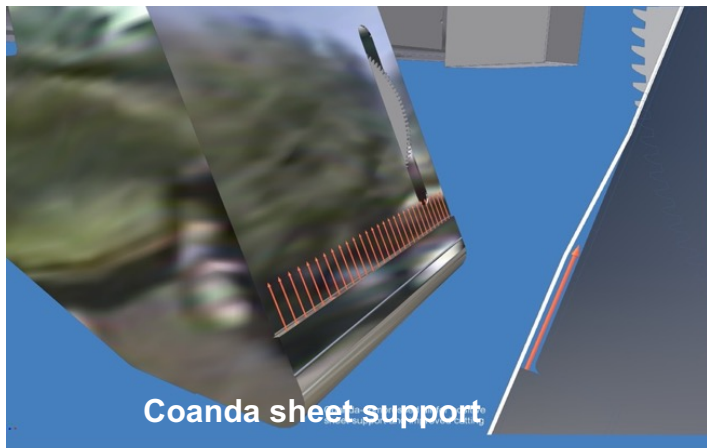


Cut off

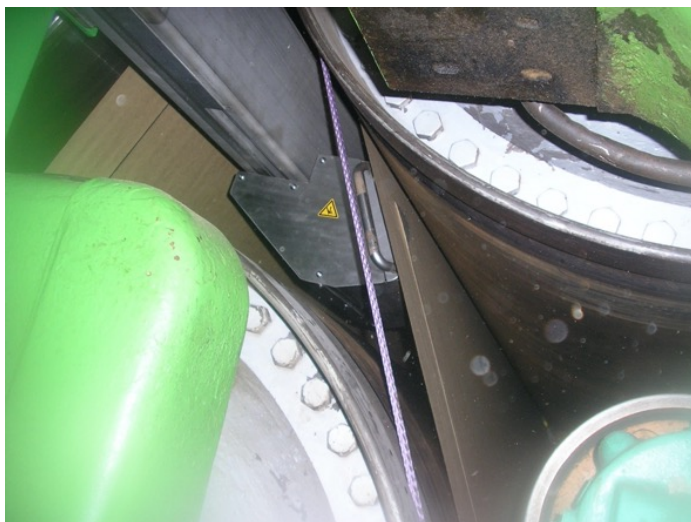
# Dry End: Radial Saw



**Radial Saw Tail Cutter**

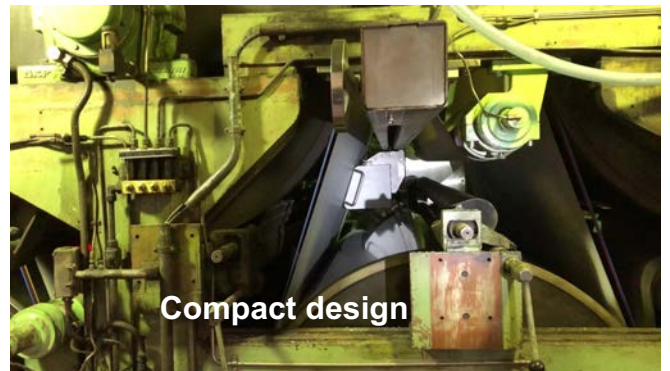


**Positive sheet support**



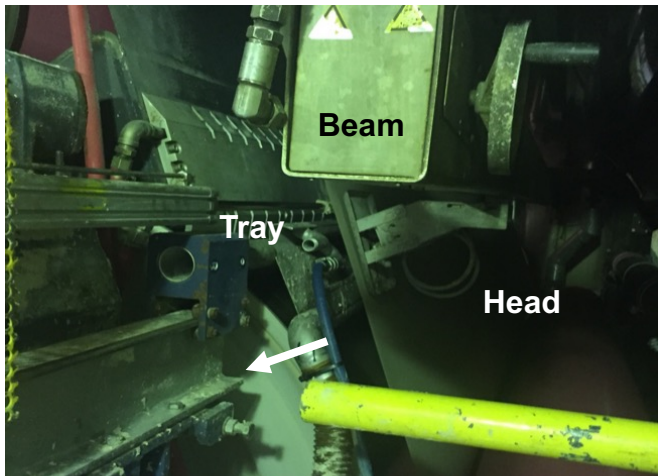
## **Tail Cutter with Radial Saw:**

- Saw blade penetrates in & out stabilized sheet
- Compact design to fit tight spaces
- Positive sheet support by Coanda effect
- Sheet support for optimum cut and minimize risk for sheet breaks
- Variable speed drive for traversing
- Encoder for precise positioning



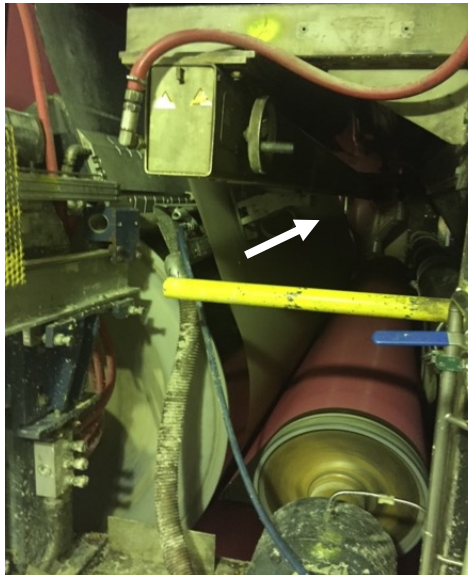
**Before Size Press & Before Reel**

# Dry End: HP Water Jet



## Tail Cutter with High Pressure Water Jet:

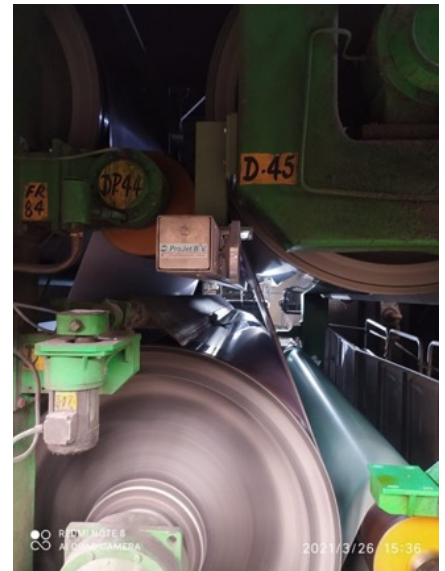
- High Pressure Water Jet: ruby insert
- 500 - 4,000bar / 7,500 - 60,000psi
- Clean cut, even at high speed
- Dust free
- Tray for collecting fibers
- Sheet support for optimum cut and minimize risk for sheet breaks
- Variable speed drive for traversing
- Encoder for precise positioning



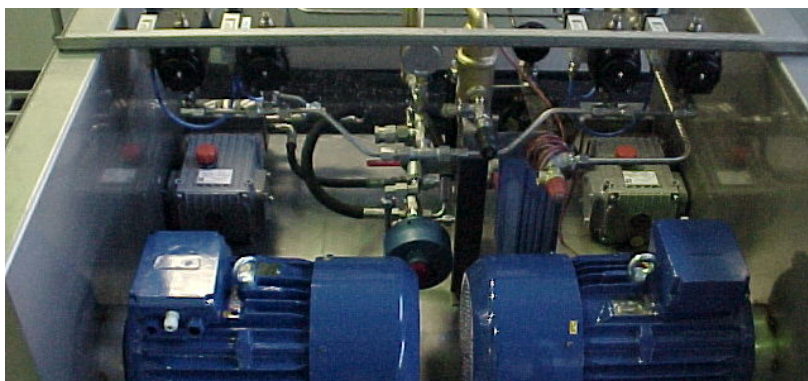
Head widening out



Completely stainless steel



Compact design



Redundant pump station

## Redundancy:

- Highest reliability
- Back-up nozzle is standard
- Back up HP hoses and connections are standard
- Back-up pump on request

# Dry End Edge Trim

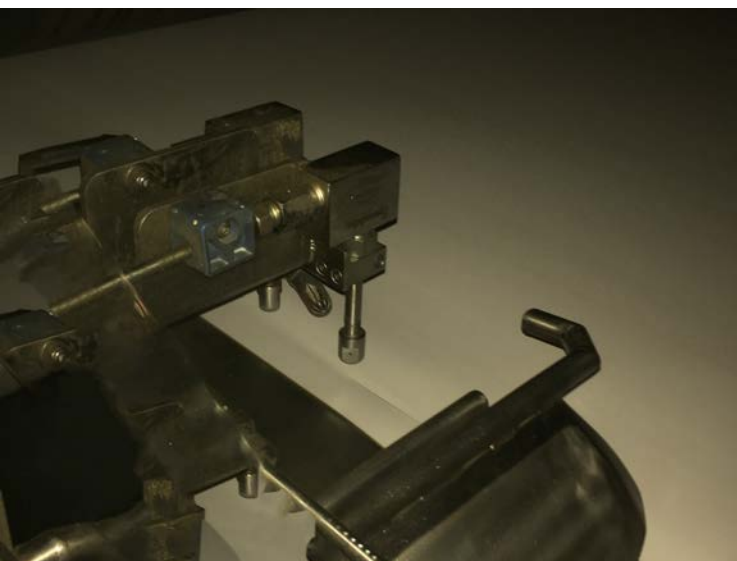
## Sharp & reliable cutting of edges



To pulper

## Features:

- Pressure: max. 4,000bar – 60,000psi
- Edge width adjustable 10-200mm – ½"-8"
- Nozzle size typically 0.12mm - .005"
- Material Stainless steel AISI 304 (316 on request)
- Sharp cut of the edges
- Problem-free trim removal straight into pulper
- System typically operated with condensate water
- Safety aspects are considered in design
- Does not interfere with web threading

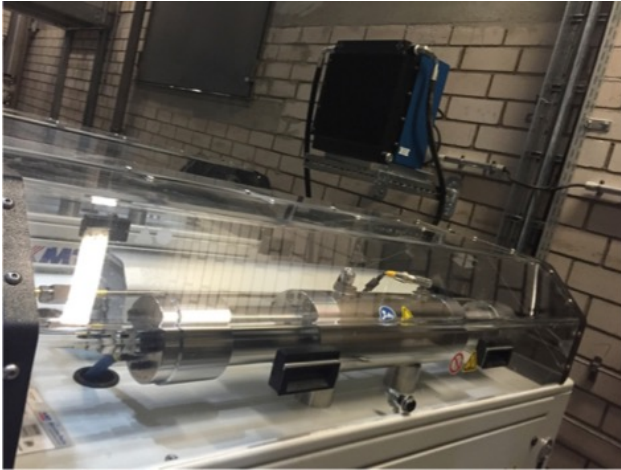


## Benefits:

- Tolerates cross machine movement of the web
- Reduction of breaks by optimizing of edges; fewer web breaks than with slitter knives
- Reduction of breaks because cutting position is approached while HP water is on; i.e. reliable cutting start-up
- Less broke / rejects
- Improved material efficiency due to re-reeler bypassing
- Cuts even narrow and moist edges
- Long service interval compared to slitter knives

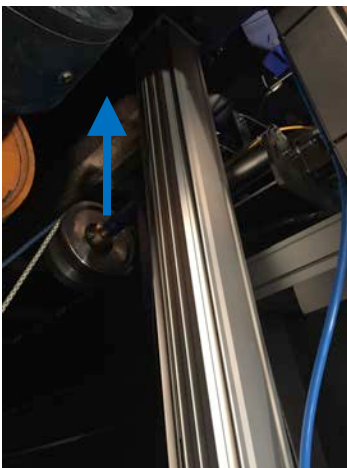
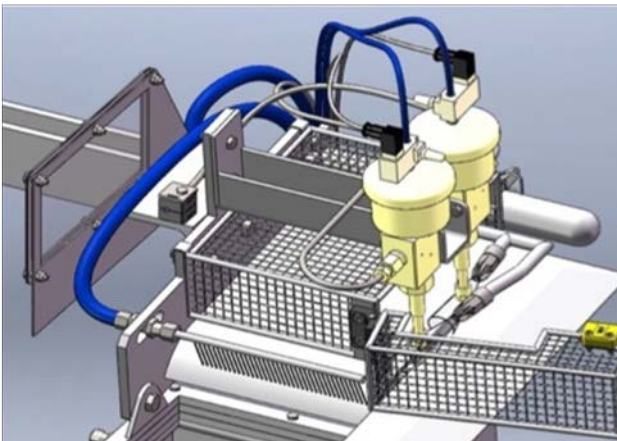
# Dry End Edge Trim

## Redundancy / back-up



## Redundant pumps and nozzles

- Redundant pressure intensifier (piston) mounted on same pump skid
- Complete redundant pump unit, incl. hydraulic drives
- Back-up / redundant nozzle assembly
- Highly reliable design



## Rope puller:

- Rope sheave is pulled away by air cylinder
- No interference with ProJet Edge Trim

# System layout & services



## **Pump(s), control cabinet, control panels, HMI:**

- Can all be sized for multiple Cleaners
- Filtration integrated
- All components pre-assembled
- Highly reliable and highest safety standards
- Local and remote control panels
- Integration in or feedback to DCS
- ProJet can comply with your mill standards

## **Services:**

- Kick-off meetings & measure up visits
- Engineering (3D design)
- Installation supervision
- Commissioning
- Training on operation, safety & maintenance
- Worldwide service visits / local service
- Local warehouses for spare parts



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