PAPRIMA’S SERVICES

- Custom engineered solutions
- Equipment audits, servicing, refurbishing, re-location and retrofits
- Equipment installation, commissioning and start-up supervision and assistance
- Customer site maintenance and operation training
- Process troubleshooting and optimization
- Full spare parts sales and support of all our product lines
- In house ultra high pressure test bench, repair and R&D facility
- Exchange program for critical assemblies
- Automation design and programming
- 24/7 Emergency hotline
**REEL-JET™**
**WATER JET TURN UP**

**ENGINEERED TURN UP SOLUTIONS FOR ALL APPLICATIONS**
The Reel-Jet™ water jet turn up system can operate jointly with conventional air goosenecks, tape turn ups, and air assisted on level rail turn up systems, making the Reel Jet the most flexible Water Jet with multi mode turn ups. The Reel-Jet system provides high turn up efficiencies and significantly reduce spool loss.

**VARIOUS POSSIBLE TURN UP METHODS WITH REEL-JET™ SYSTEM**

**COMMON METHODS**
- Cross cutting, chevron tip creation (cutting nozzles cross one another)
- On level rail turn up
- Pulper turn up (following a sheet break)
- Parallel cutting for light hygiene grades (no cross of cutting nozzles)

**OTHER POSSIBLE METHODS**
- Parallel cutting for publication grade & heavier board grades, with auxiliary water jet slasher (no cross of cutting nozzles)
- Parallel cutting for publication grade & heavier board grades, with combination of mechanical slasher and/or blowpipe nozzle and/or gooseneck (no cross of cutting nozzles)

**PROCESS ADVANTAGES**

**RELIABLE PROCESS PERFORMANCE**
The Reel-Jet™ turn up machine performs with a high degree of reliability given the technical challenge: it must start and end the cutting process within a span of a few hundred milliseconds. Such a high degree of performance can only be obtained if all sub-systems are carefully engineered and controlled for the task to perform whenever the call for a turn-up comes.

**PROCESS NOT AFFECTED BY PAPER MACHINE SPEED OR BASIS WEIGHT**
The high pressure water jet contains sufficient energy to cut paper of any basis weight, reliably. The high pressure water passes a diamond nozzle to produce a laminar, cohesive jet of ultrasonic speed. Yet, the amount of water sprayed to the surface of the pope roller is small enough to leave no trace, nor damage to its surface.

**SYMMETRICAL TURN-UP REDUCES SPOOL LOSS**
The turn up process can only be appreciated by means of high-speed photography. The initial chevron shaped tip is adhering to the spool cleanly. As the symmetrically widening web is wound around the spool the subsequent layers are distributed evenly and without folds until the full web width is being rolled up. The entire process unfolds without mechanical shock load, dusting, or an undesirable loss of paper on the spool.

**MINIMIZED PARENT ROLL LOOSE/FLYING PAPER**
The completion of the turn up process could create two loose, triangular edge flaps at the paper edges. These two large paper flaps must be held down to the parent roll surface or they will tear up into many loose flying pieces. The addition of a custom-designed water soluble glue applicator can be added to hold down the loose paper flaps.

**JUSTIFICATION & PAYBACK OF THE REEL-JET™ SYSTEM**
- Turn up success rate over 99%
- Reduce spool/core losses: <100meters
- Reduces jumbo roll losses
- Fully symmetrical: no paper wrinkling
- No loose flying paper during turn up process

**24/7 EMERGENCY HOTLINE : +1 514.422.9555**