

Drainage Elements



*Reliable Innovation for
Consumables & Optimization*



Wilbanks Ceramics, *Exclusively from Coldwater.*

Coldwater has joined forces with Wilbanks Ceramics to offer your mill a complete line of ceramics for more reliable performance and longer life. With over 35 years of advanced ceramics experience, our Wilbanks line of high purity ceramics includes all standard materials for every major OEM design and applications such as Forming Boards, Standard Foils, Adjustable Foils, Suction Box Covers, Twin Wire Elements, Uhle Strips and Cleaner Cones.

Wilbanks Ceramics consistently withstand the most demanding processing conditions and won't sag, crack or deteriorate when attacked by the aggressive chemicals, abrasives or debris often present in the papermaking process.

When you compare our ceramic performance and track record to the competition, there's really no comparison. Coldwater/WILBANKS ceramics run longer and more reliably.



Forming Boards



Hydrofoil Units



Low Vacuum Units



High Vacuum Units



Felt Conditioning Units



Acu-Tech™ Adjustable Forming Elements

T-Bars in FRP or Stainless Steel.

Coldwater offers FRP (Fiberglass Reinforced Polymer) and stainless steel T-Bars for mounting drainage elements on your paper machine structures.

Coldwater maintains a complete inventory of seven and ten meter length FRP T-Bars in our U.S. and European facilities. New T-Bars are recommended and quoted with all ceramics orders.



Coldwater UHMW Premium Polyethylene Drainage Elements.

Coldwater offers a complete line of UHMW products and materials to meet the specific performance requirements of your paper machines.

UHMW Materials (in order from shortest to longest wear resistance)

- **CW 1000** – a virgin UHMW of the highest molecular weight commercially available. An economical alternative and often the best product to start with.
- **CW 2000** – our CW 1000 product with molybdenum disulfide and cross linking added for better wear and impact properties.
- **CW 5000** – our standard SiO₂ filled materials for tougher applications. Proven to extend life and also non-abrasive to wires or felts.
- **CW 7000** – a special blend of fillers for the toughest applications.
- **CW 8000** – nano-technology for speeds between 450 – 1400 m/min, or 1500 – 4500 fpm. The value alternative to ceramics. Excellent for uhle strips in hard to fit places.

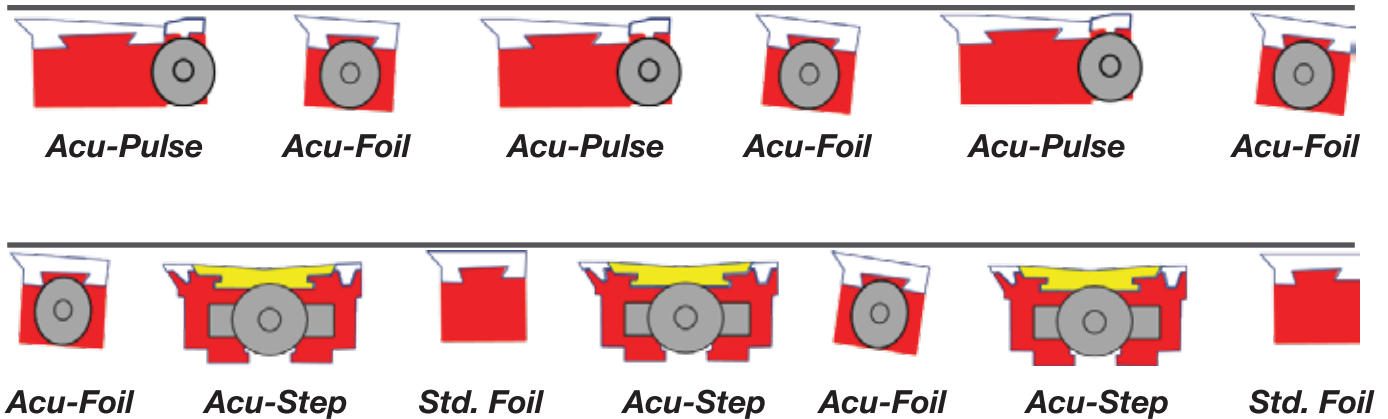


Formation & Drainage Consultation.

Coldwater Technical Services (CTS) personnel are always available to discuss how you can achieve formation improvements, increases in drainage capacity, reductions in power consumption and a more efficient wire section.

Acu-Tech™ Forming System.

The Acu-Tech Forming™ System is a custom designed configuration of our on-the-run family of adjustable blades. This includes the Acu-Foil™, Acu-Step™ and Acu-Pulse™ Blades on either gravity or vacuum augmented units.



Acu-Tech Forming System Advantages

- Adaptable to most existing equipment
- Simple designs with low maintenance
- Cost-effective alternative to adjustable tables
- Upgradable to automation

Acu-Pulse™ Blade is the First and Only On-the-Run Adjustable Pulse Generating Forming Element.

The patented Acu-Pulse Blade is designed so when it's in the disengaged/off position it operates similar to a conventional foil blade. As adjustment is made to the control knob, (or through use of an actuator) the pulse generator on the back of the blade becomes engaged to induce a positive pressure pulse to the slurry. A continued knob adjustment increases the elevation of the pulse generator which increases the intensity imparted on the stock slurry, thereby increasing activity and realigning fibers to form the sheet. The Acu-Pulse Blade is designed to fit existing equipment (T-Bars) and can be a substitute to standard foil blades. This makes conducting field trials, and evaluating the results, a low risk to the process and the mill.



Acu-Step™ Blade is a Unique On-the-Run Vertically Adjustable Forming Element.

The patent pending Acu-Step™ Blade is a unique on-the-run vertically adjustable forming element that can be variably adjusted down from the wire elevation by as much as .4" (10mm). The Acu-Step's compact design is much more stable than other forming elements to avoid vibration and it's available in widths to accommodate various machine T-Bar spacing. On-the-Run adjustments can be made manually via a control knob or automatically through the use of an electronic actuator. The blade is designed to fit with existing equipment and T-Bars and can be a substitute to standard foil blades or stepped blades. Plus, Acu-Step blades can be operated on gravity or vacuum augmented drainage units.

Machines that have a wide basis weight and/or speed range benefit most from this adjustable on-the-run technology. It allows machine operators to optimize the forming section differently for each grade being produced rather than having to use just one run set-up that works moderately on all grades or having to replace foil elements with different blades for different grades. A typical arrangement might include 4-5 Acu-Pulse or Acu-Step blades arranged in the early portion of the forming section on gravity units and 3-4 Acu-Step blades arranged on each vacuum augmented unit.

Acu-Step blades also feature our DC-RAZ™ technology which combines ceramic wear surfaces with a replaceable ZONE in the center of the blade. This ZONE section can be machined into a variety of different configurations depending on the grade of paper, speed and end goal.



Acu-Foil™ Blade.

Our Acu-Foil Blade is an on-the-run adjustable angle foil blade. Acu-Foil is a great choice for machines that need foil angle changes between grades to maintain optimum drainage and sheet forming. Advantages include:

- On-the-run variable adjustment by 0 to 4 degrees
- Leading edge maintains elevation with forming fabric through the entire range of adjustment unlike T-Bar adjustable type foils
- Easy to read scale
- Optimize drainage and formation for each grade without having to pull foils
- Durable premium aluminum oxide for longer life
- Automation package available



Let Consumables Optimization Management Be Our Problem.

Let us help you manage your paper machine consumables. Our COM program packages these many products and services into one spend with volume rebates and consignment programs matched to the need. COM can be structured for machine level, mill level or corporate level needs. Contact your local representative for more information.

Coldwater Offers a Complete Line of Reliable Innovations to Optimize Paper Machine Performance.

**Suction Roll
Components**



**Wilbanks
Ceramics**



**Headbox
Services**



**Dryer
Passivation**



**BladePro
Doctor Blades**



**Lantier® Doctoring
Equipment**



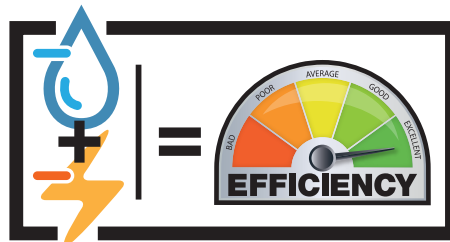
**Edge
Control**



**Drainage
Elements**



EZ eco smart cleaner



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***To learn more or to locate the Drainage Elements Specialist
most convenient to your mill, please visit coldwatergroup.com.***