

# Suction Roll Components



*Reliable Innovation for  
Consumables & Optimization*



## *Save More in Energy than the Cost of the Seals.*

### ***Our Custom Fitting Service Reduces Drive Loads & Energy Consumption.***

Coldwater's trained technicians can conduct a complete inspection of your suction rolls that includes the shell, seals, deckles and loading mechanisms. This Custom Fitting Service includes a full summary report with engineering recommendations for the optimum seal and deckle sizes to match your suction roll's current operating conditions. Our goal is to design the seals so that any suction roll can achieve full vacuum at 5 psi (0.3 bar) or less air loading tube pressure. Our inspection services include the following and have delivered drive load savings in excess of 100 amps per roll.

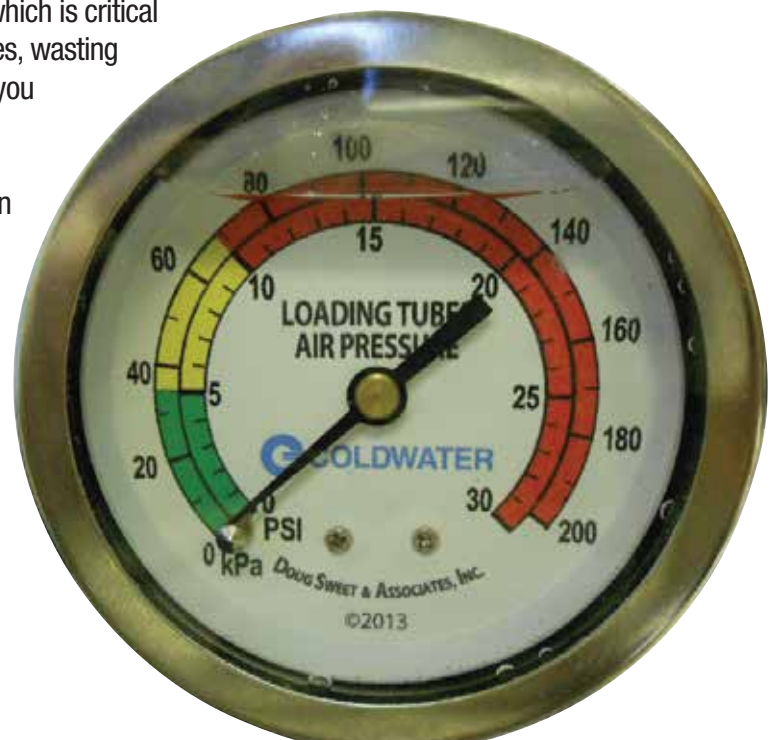
- A multi-plane bore profile of the shell's inside diameter.
- Suction box measurements to determine the relationship between the seals and the shell.
- Inspection of air loading tubes and/or springs for proper size and operation.
- Final recommendations for proper seal sizes.
- Training of mill personnel in the most efficient suction roll operation, maintenance and problem-solving and proper fitting of end deckles.
- 100 amps of wasted power on a continuous basis can equal more than \$40,000 per year per roll.



## ***Our Custom Gauges Can Save you Thousands.***

With most suction rolls, too much pressure in the loading tubes can reduce the thin film of water between the seal surface and the shell bore, which is critical for lubrication and proper vacuum. This can turn seals into brakes, wasting energy. Once seals are custom fit to the roll, our gauges help you confirm and keep the energy savings achieved.

Our Custom Fitting Service and Custom Gauges offer a common sense, no capital expense, alternative to complicated and expensive OEM systems, and can be applied to any suction roll.





## ***ColdFlex™, Flexible Rubber Graphite Seals— An Innovative Design That Will Run Longer and are Guaranteed NOT to Break.***

ColdFlex flexible seals are designed to reduce the thermal bow into the shell that occurs with stiffer materials, which leads to higher drag loads and shorter seal life. ColdFlex limits dry contact with the shell so they run longer and quieter with less friction.

ColdFlex's unique design also eliminates the brittleness and breakage problems associated with other rubber graphite seals and end deckle material. All seal breakage issues are solved without any risk of damage to the roll shell.

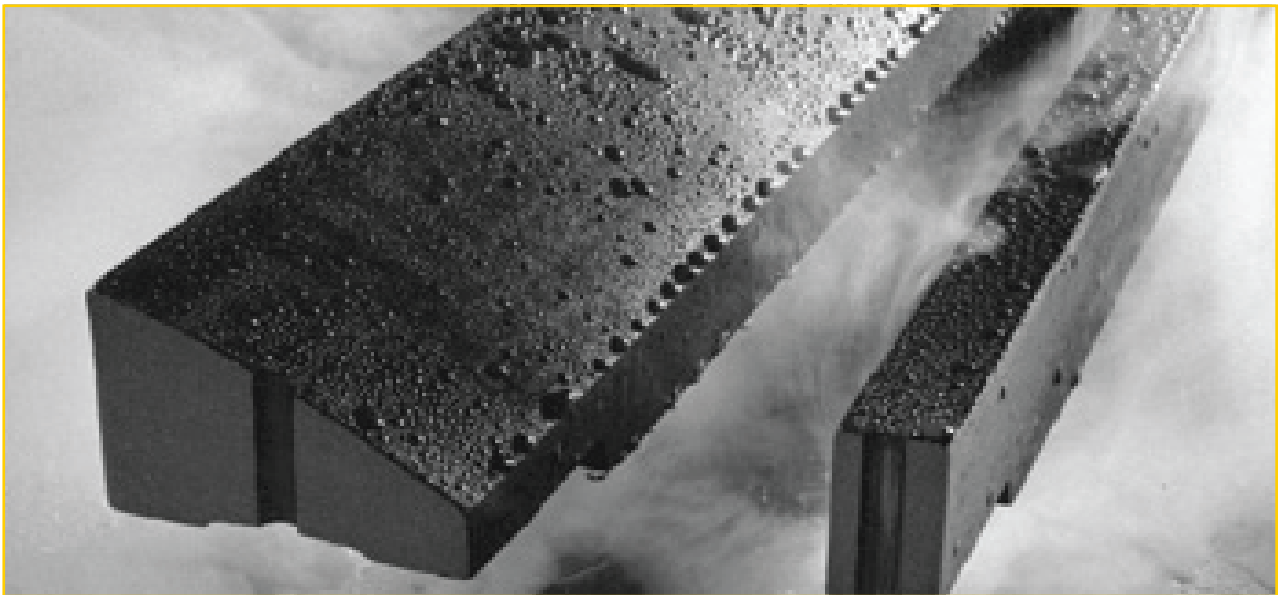
- Low noise and wear-in quickly.
- Low coefficient of friction to reduce energy consumption.
- Deliver two year and longer run times with custom fitting program.
- No breakage in handling GUARANTEED.

## ***Classic Rubber Graphite/Joseal™ Seal Strips.***

Our Classic/Joseal seal strips have been a proven performer for over 30 years. With thousands of successful installations, Classic/Joseal strips provide proven performance.

- They are homogeneous and will NOT delaminate.
- Can be designed to ANY length or in segmented strips.
- They are moisture and chemical resistant and self-lubricating.
- They seat quickly to rough shells.
- Are available in complete kits that include seal strips, silencers, deckles, load tubes and holders.

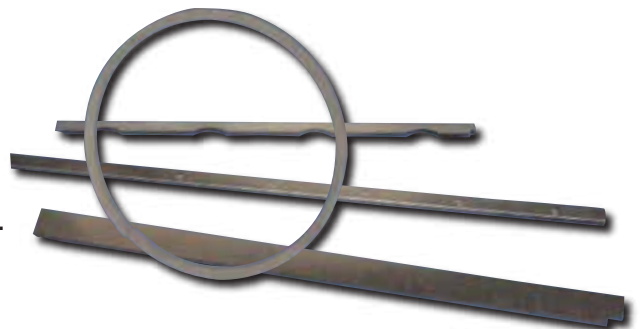
EasySeal™, made from a rubber graphite derivative, is a value alternative for smaller and slower machines.



## ***PV-2000 Pocket Ventilation Roll Seals.***

Coldwater's **PV-2000** is a high temperature phenolic resin with woven organic reinforcement and graphite. It is designed for use as a seal along the length of the roll between the inner box and the shell or as a deckle to divide up different chambers or seal the ends. Key features and benefits include:

- Able to operate continuously above 250°F/121°C (maximum 285°F/140°C).
- Dimensionally stable at operating temperature.
- Low coefficient of friction.
- Low coefficient of thermal expansion, similar to steel.
- Teflon rings and deckles are also available.



## ***Coldwater Air Load Tubes – To Allow Lubrication of the Seals.***

Coldwater offers a complete line of air tubes and accessories including finished assemblies or components to build your own tubes.

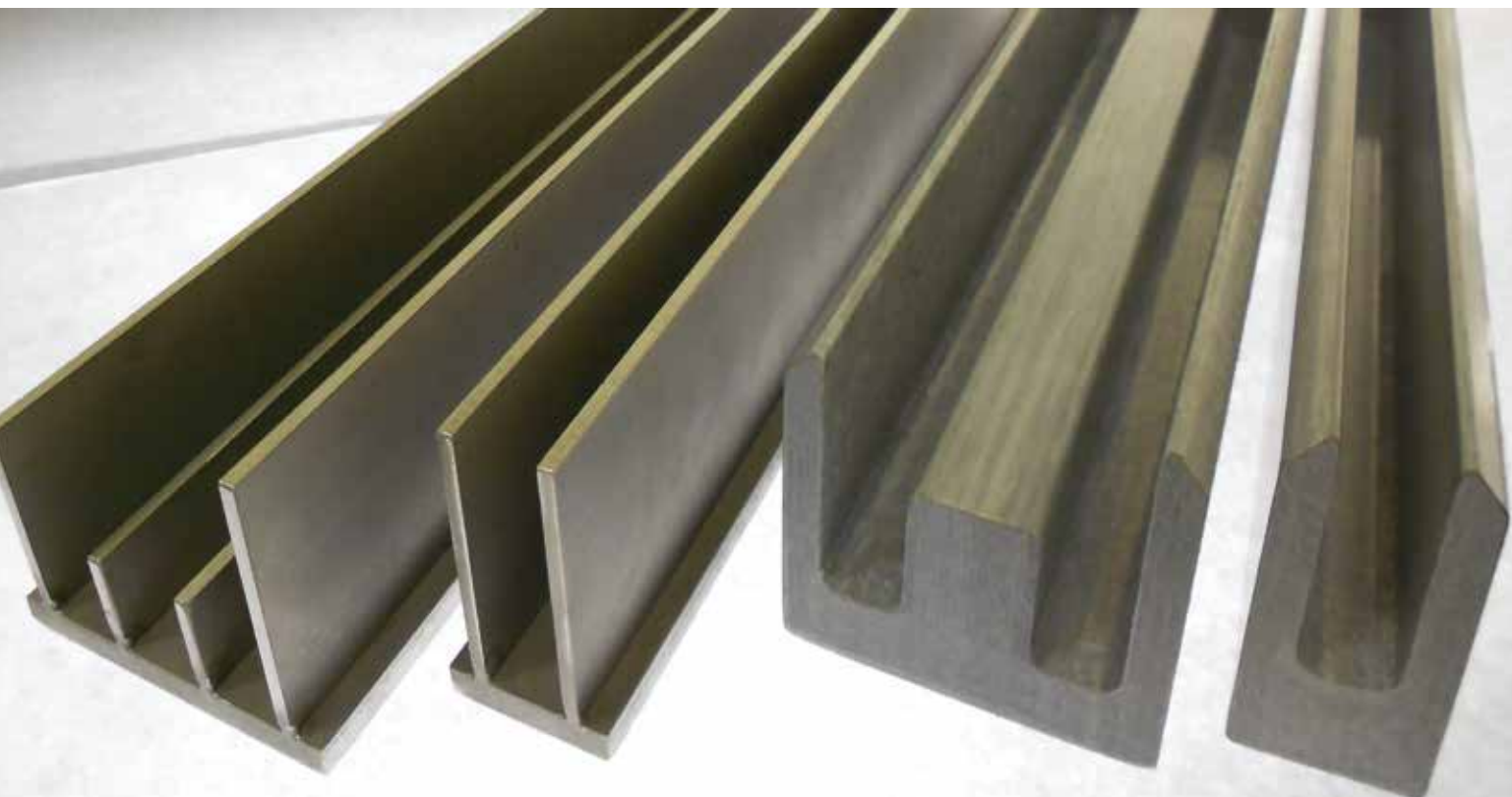
- Offer all major OEM sizes.
- Available in Blue Vincon or neoprene tubing.
- Fittings in 316 stainless steel.
- Spaghetti tubing and closed cell foam side seats.
- Rubber strips for load tube.
- Springs for deckle end seals.



## ***Packing Holders.***

Our packing holders are designed for ease of installation and maximum life and are available in either FRP (Fiberglass Reinforced Polymer) for new suction rolls or stainless steel, which is typically used to replace worn or damaged holders on older rolls.

Coldwater maintains a full inventory of standard configurations in our U.S. and European facilities. Every packing holder can be ordered with or without pre-drilled mounting holes and all holders include removable end plates.



## ***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**



**Drainage  
Elements**



**BladePro  
Doctor Blades**



**Edge  
Control**



**Vacuum  
Valves**



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***To learn more or to locate the Suction Roll Components Specialist  
most convenient to your mill, please visit [coldwatergroup.com](http://coldwatergroup.com).***