



SEAL SAVER

CUSTOM CYLINDER PROTECTION

Manufactured by:
Fluid Control Services, Inc., Marietta, GA USA

The Seal Saver

What is it?

The Seal Saver is a unique preventative maintenance product. It is a 100% customizable cylinder protection sleeve that is designed and made to fit a specific cylinder.

What are the benefits of a customized product?

Superior fit from top to bottom. Better fit means less chance of seal damage which can lead to cylinder failure and can also increase the life expectancy of a product.

*Customizable Options**

Material – There are multiple material options to choose from and is chosen based on the working environment.

- *Ballistic Nylon - Color is Black*
 - Great all-purpose material & our most commonly used option.
 - Resistance to water, oil, sunlight and abrasion is very good – good for all weather conditions.
- *Kevlar – Color is Grey and base material coated with silicone*
 - Higher abrasion & heat tolerance than ballistic nylon. Can withstand heat up to 650F/323C.
 - Kevlar is resistant to chemicals and acids and other corrosive or caustic agents.
- *Silicone Coated Silica – Color is Red*
 - Specific high heat material.
 - This material is also resistant to most chemicals and has a good thermal protection to temperatures of 1800F.
- *Aluminized Cloth – Color is Silver*
 - This is also appropriate for a high heat application but has an added value of resistance to reflected heat sources. Available with Kevlar or silica base cloth.

*Customizable Options**

Sizing – Sizing from top to bottom and everything in between is customizable.

Application/Environment Specific Design Options – Not all environments are created equal. The design elements required for a Seal Saver on a machine working in a construction environment aren't the same as those required for a Seal Saver on the same machine working in a mud dredging environment. We can and will make additions and changes to existing designs that are made to go on the same make/model machine working in a different environment to provide the best protection possible, regardless of working conditions.

Cylinder attachment locations – The best and most secure place to attach a Seal Saver to any given cylinder is determined on a case-by-case basis. What will work for one cylinder may not be the best choice for a different cylinder.

Seal Saver closure – While most of our products are designed to be field installable & not requiring disassembly of a cylinder, sometimes the best design option for a specific application requires the boot to be sewn shut and we can accommodate that if needed.

The advantages to protecting your cylinders with the Seal Saver

All Seal Savers are designed to fit the cylinders that they will be going on. This is not a one size fits all sort of product.

We only use high quality materials in the building of our Seal Savers.

Seal Savers will dramatically increase the life of your cylinders and hydraulic systems by keeping out particles, chemicals etc. that can enter via the rod seals and contaminate the system. Seventy percent of hydraulic system failure is due to contamination. The Seal Saver also significantly helps reduce rod scoring.

The Seal Saver has been proven to extend the cylinder seal life three-fold and beyond, thereby cutting down on downtime and the costs associated with downtime and repair/replacement of a failed cylinder.

The average life span of a Seal Saver is from 3 to 7 years depending on the environment. We have had some that are still in use well over a decade.

Seal Saver Installation

Seal Saver is field installable in most instances

Installation can quick and easy and only requires a screwdriver

Click play for instruction video:



Where can you use a Seal Saver?

- Construction
- Demolition
- Steel Mills & Hot Slag
- Sawmills
- Ocean Vessels and Drill Rigs
- Wind Turbines
- Rock Quarries
- Ball Screws
- Mining
- Cement Mixers
- Anywhere you have a cylinder



What our customers have to say about the Seal Saver

“I found out about Seal Savers from a 1998 magazine I kept because I thought it was a good idea. When I started my company 4 years ago, I bought them for all my machines. Since then, I have not put a machine into service - as far as rental or sale applications - without having a Seal Saver installed on the bucket cylinder. To date, I haven't had a single bucket cylinder failure due to impact damage, dents, dirt, or rod scoring. The Seal Saver is a big part of preventative maintenance for keeping the machine cylinders dry and clean”

– Peter Menner, President, New Millenium, Inc. –
Windsor, NY

“The Seal Saver has saved the day with less downtime due to accidental cylinder rod scoring. They’re a must for any fleet. Do the math, it makes cents.”

– Bill Liburdi – Contractor Sales Co., - Albany, NY



August 19, 2011

Utility Constructors, Inc Gives Seal Savers Rave Review

For more than twenty years, Fluid Control Services, Inc. has been helping companies worldwide to reduce or eliminate costly cylinder repairs and replacements with their patented “Seal Saver” protective cylinder cover. This unique preventative maintenance tool keeps dirt and debris out of the hydraulic system, reducing contamination while also protecting the cylinder from dents, rod scoring, and the corrosive properties of the chemical washes many companies use to clean heavy equipment.

Utility Constructors, Inc. in Jackson, MS, a company that specializes in sewer and water pipe work for start up subdivisions, realizes the cost effectiveness of the “Seal Saver.” Prior to installing the product on their rolling stock, they were spending approximately \$3000.00 a month replacing or repairing cylinder rods. When you add in the cost of renting a machine for a day or two and the lost productivity due to downtime, you’re talking about some serious money.

Mr. Mike Pattridge, the equipment maintenance manager at Utility Constructors, is very familiar with the fuss and frustration that accompanies cylinder failure. With over thirty earthmoving machines, as well as many other types of support equipment, the cost of rod replacement became a real concern, especially on their excavators.

“We were replacing rods once every month or so on at least one of our trackhoes,” says Pattridge. “The dirt and debris that comes in contact with the rod, as well as the occasional operator that nicks a trench box or something, was costing us money in cylinder repairs. The “Seal Saver” has saved us a lot of money. Since we started putting them on, we haven’t had a rod nicked, haven’t had to repack the first cylinder or replaced a rod or anything – not even on the machine with the five year old “Seal Saver” on it.”

When asked about the initial cost of protecting their equipment with the “Seal Saver,” Pattridge said, “Just do the math. It costs about \$325.00 for a “Seal Saver” as opposed to approximately \$3000.00 for a new rod. It’s well worth the investment. We have a Cat 325 that has over 9,800 hours on it. It still has the original “SEAL SAVER” that we put on it when it was new, as well as the original cylinder. We also have a Cat 312 with over 4,500 hours on it. I know the “Seal Saver” has been soaked with hydraulic oil a hundred times, but the Velcro still holds well, the “Seal Saver” is all in one piece, and it’s still protecting the rod. I figured after a while of being oil soaked, it wouldn’t hold up. But amazingly, it has.”

“These things are really easy to install and stay securely on the cylinder, too”, he adds. “If you put them on the way they were designed to be installed, you’ll never have a problem with one. I’ve never had one come loose or tear. They’re tough and easy to install. I had one of my guys, who had never installed a “Seal Saver” before, put one on in five minutes. Anyone can do it.”

The product worked so well on Utility Constructors’ excavators, Mr. Pattridge started installing them on his Case backhoe loaders. He is also interested in protecting his hydraulic hoses with the “Hose Saver”. Made from the same materials as the “Seal Saver”, the “Hose Saver” protects hoses from wear, dry rot, chemicals, abrasion, and the elements. “My plans are to start putting “Hose Savers” where the hydraulic hoses run through the frame of my machines,” he says.

Would Mr. Pattridge recommend the “Seal Saver” to other companies concerned about cylinder failure? “I’m a big advocate of these products,” Mike says. “I think that anyone who takes just one look at the “Seal Saver” will buy them. For that matter, if anyone wants to look at the “Seal Savers” on my machines, they’re more than welcome. They may be oil-soaked, dirty, and old, but they’re still doing their job.”

Kevlar Seal Saver on a Komatsu WA 1200 Lift Cylinder

(hover over the picture to play the video)



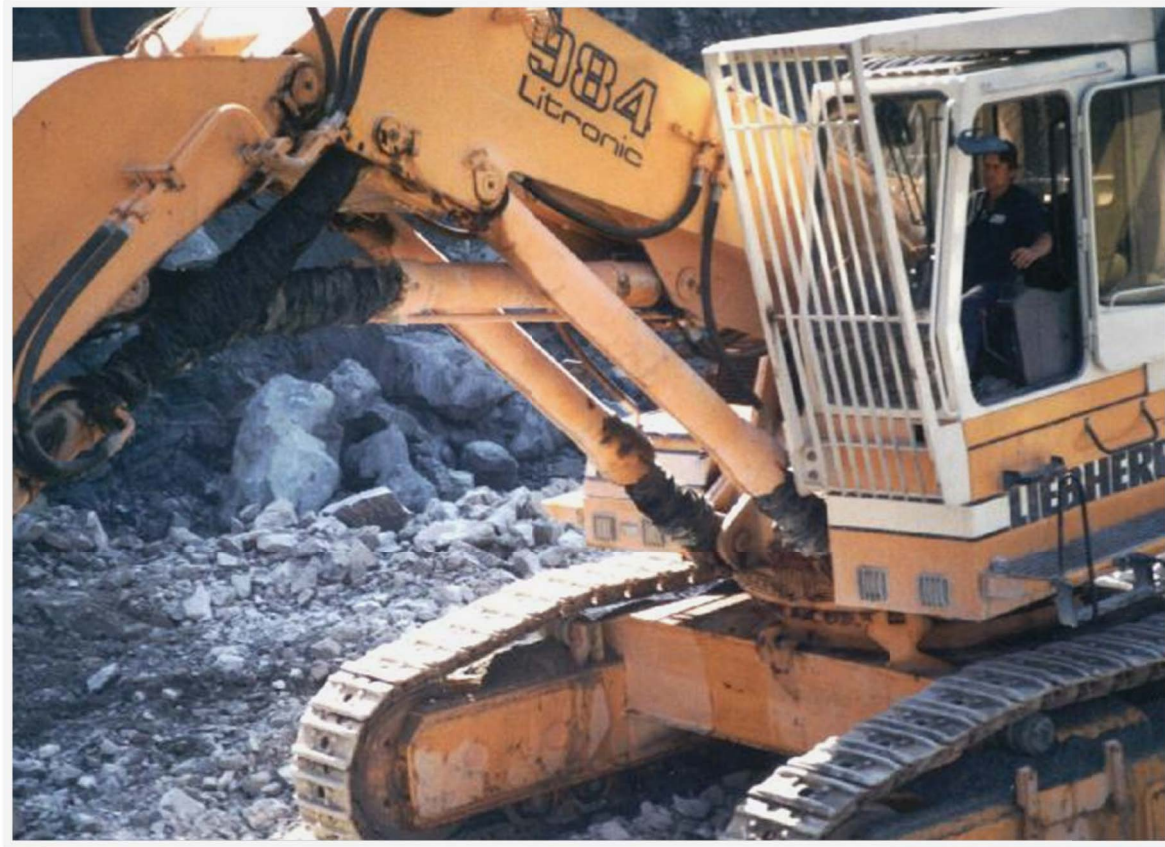
*Video Courtesy of Gurit Tooling – Molding machine for
Wind Turbine blade production*

(hover over picture to play video)

Seal Saver on a Zaxis 470 Lift Cylinder ~ Photo courtesy of Paull's Construction Equipment, Australia



Seal Saver on a Liebherr 984



*Seal Saver on an excavator on a demolition site ~
Photo courtesy of Yannuzzi & Sons, Hillsborough, NJ*



McNeilus Bridgemaster cylinder



Cat D10N Blade Lift



Unprotected



Protected

Sugar Truck Dumpers at Capiz Sugar Central, Inc. – Capiz, Philippines

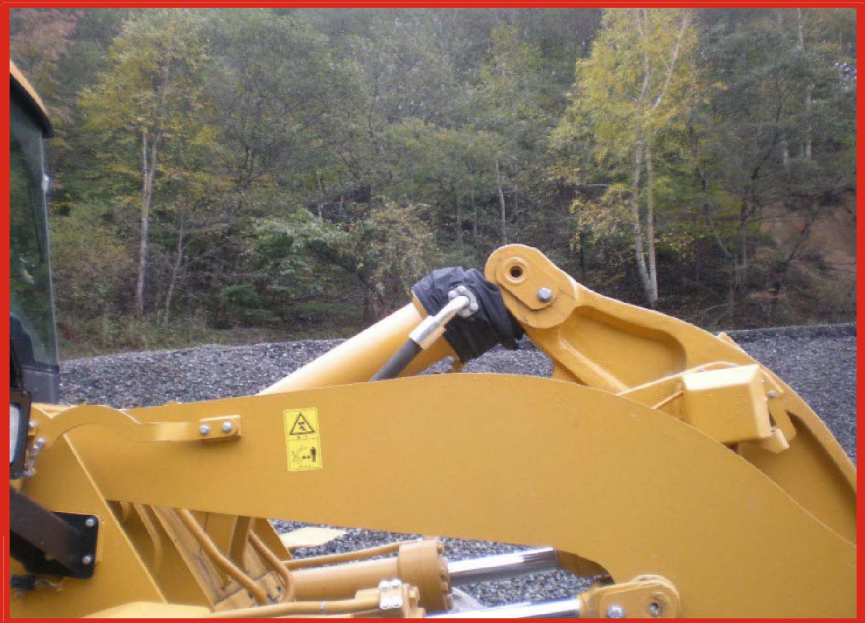
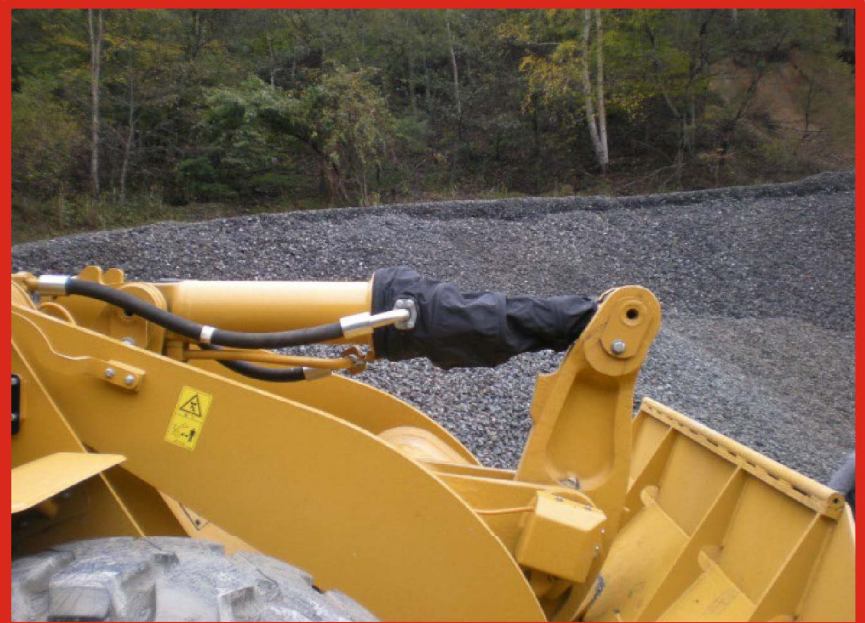


Before



After

Seal Saver on a Caterpillar 966H Bucket cylinder ~ Photo courtesy of Caterpillar Solution Engineering in Japan



*Seal Saver installed on a Paint Booth Cylinder ~
Photo courtesy of Omaha Standard Palfinger*



*Seal Saver on a Molenmaker Teckniek Drawbridge Lift Cylinder
in The Netherlands ~ Photo courtesy of Molenmaker Teckniek*



Seal Savers on Synergy Turbine Actuators





*Seal Savers on Case
580 Super L Stabilizer
Cylinders ~ Photo
courtesy of Pooley
Excavating; Missoula,
MT*



*Seal Savers on Rubber Press Machines ~ Photos courtesy of Valley Rubber
in Falkville, Alabama*

