

FLEXGUARD - CYLINDER PROTECTION



The **FlexGuard** cylinder protection system is a customized barrier against mechanical damage to the piston rod and reliably prevents the ingress of dirt, dust, and other contaminants into the hydraulic system.

Using the **FlexGuard** significantly extends the service life of hydraulic cylinders. In addition, maintenance intervals can be optimized, downtime reduced, and costly damage especially due to leaks can be avoided.



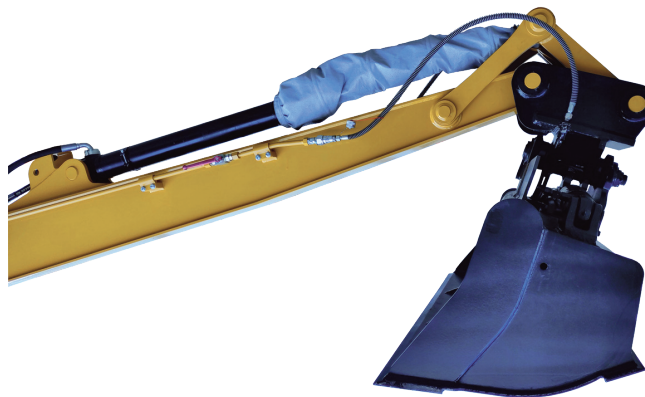
BENEFITS

- ✓ Perfect fit for every cylinder
- ✓ Quick and easy installation
- ✓ No functional restrictions
- ✓ Low weight
- ✓ Increases the service life of hydraulic cylinders:
 - Prevents scoring on the piston rod
 - No dirt build-up on sealing elements
 - Reduces dirt ingress into the hydraulic system
 - Increases operational reliability and reduces downtimes
 - Water and oil repellent
 - Protects against corrosion*
 - Protects against chemical substances*
 - Protects against external heat exposure**

* only for Kevlar and Silica

** only when using Silica

*** only in the temperature range from -20°C to +40°C



YOUR APPLICATION – YOUR CHOICE



Material	Nylon	Kevlar	Silica
Characteristics			
Colour	Black	Grey	Red
Material thickness	0,5 mm	0,8 mm	0,8 mm
Wheater and UV resistance	✓	✓	✓
Dust cover	✓	✓	✓
Puncture resistance	✓	✓	✓
Protection against abrasive substances	✓	✓	✓
Protection against small falling objects	✓	✓	✓
Corrosion protection	✗	✓	✓
Resistance to chemical substances	✗	✓***	✓
Heat resistance	≤ 120°C	≤ 315°C	≤ 990°C



echlehartstahl



echle-hartstahl



echle_hartstahl



echle_hartstahl



EchleHartstahl

ECHLE Hartstahl GmbH

Untere Zinne 6
77709 Wolfach / Germany

T: +49 7834 86 559 - 0
info@echle.de

www.echle.de
www.cm-parts.com

ECHLE®
Intelligente Lösungen für Baumaschinen