

HUHNSEAL

Custom Technology Partner



Made in Sweden

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Headquarters

Järvgatan 1 - 261 44 Landskrona - Sweden
Delivery address:
 Box 288 - 261 23 Landskrona - Sweden
 Tel: +46 418 44 99 40 - Fax: +46 418 44 99 69
 sales@huhnseal.com

www.huhnseal.com



Pulp&Paper Rev.3

ITALY
Huhnseal / Meccanotecnica Umbra S.p.A.
 Via G. Agnelli, 7
 06042 Campello sul Clitunno (PG) ITALY
 Phone: +39 0743 2791
 sales.italy@huhnseal.com

GERMANY
Huhnseal GmbH
 Am Merbelsroder Weg 1
 98673 Auengrund OT Schwarzbach Germany
 Phone: +49 0151 26662280
 sales.germany@huhnseal.com

CHINA
Huhnseal / Meccanotecnica Umbra (Qing dao)
 North of No 8 road jiao zhou wan
 industrial park, Jiao zhou ,Qing dao, PRC
 Phone: +86 138 64289 712
 Fax: +86 531 86057 318
 sales.china@huhnseal.com

USA
Huhnseal USA Inc.
 Seguin Rd. Suite F - Pharr, TX 78577
 Phone: +1 956 782 2400
 sales.usa@huhnseal.com

TURKEY
Huhnseal / Mecanotecnica Umbra Turkey
 İktelli Organize Sanayi Bölgesi Eskoop Sanayi Sitesi C-6 Blok
 No:292-294 - Başakşehir / İSTANBUL
 Phone: +90 212 671 82 49 / +90 212 671 82 50
 Fax: +90 212 671 82 48
 sales.turkey@huhnseal.com

BRAZIL
Huhnseal / Mecanotecnica do Brasil Ltda
 R. João Maria Goes, 171
 83060-206 São José dos Pinhais - PR - Brasil
 Phone: +55 41 9943 5559
 Fax: +55 41 3381 2621
 sales.brazil@huhnseal.com

INDIA
Huhnseal / Meccanotecnica India Pvt.Ltd.
 C-23 & C-24, SIPCOT Industrial Complex,
 Pallapatti Village, Nilakottai Taluk,
 Dindigul District - 624 201, Tamil Nadu, India
 Phone: +91 8870478123 / 9384099094
 sales.india@huhnseal.com

INDIA
Huhnseal / Meccanotecnica India Pvt.Ltd.
 351, Survey No. 28/3/1,
 Near Jambhulwadi lake, Ambegaon - Khurd
 Pune - 411046 Maharashtra, India
 Phone: +91 9384099094
 sales.india@huhnseal.com

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Standard and Special Sealing Solutions

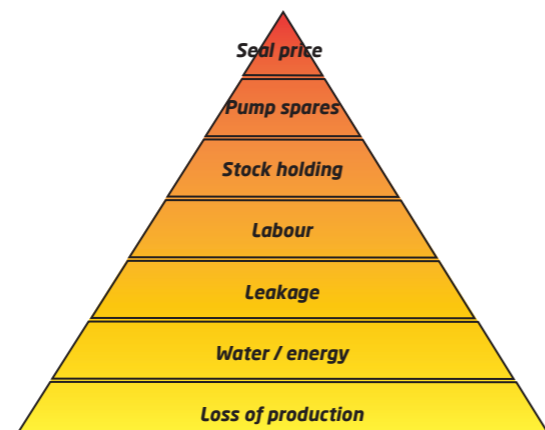
Pulp & Paper Industry

Your needs and priorities are our focus

Regardless of whether your operation is based on chemical pulping, ground wood pulp, mechanical pulp or recycled pulp, Huhnseal has a strong product range to meet your needs

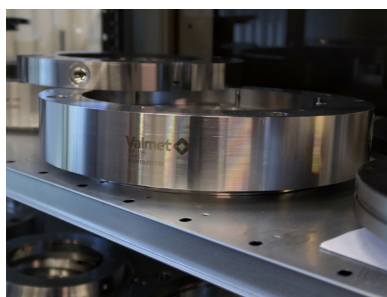
The mechanical seal is a critical component when it comes to reaching a high level of availability of your rotating equipment. Our goal is to offer you the best possible sealing solution for each application and hereby increase the availability of your process, reduce water- and energy consumption and hence lower the total cost. We achieve this by not only offering you high quality seals but also establishing a strong and durable partnership where we focus on your needs and priorities. We help you standardize your

sealing program, reduce the number of different seal types and lower you stock levels. Our program spans from a strong standard seal range to highly specialised seals for demanding applications to diamond coated seal faces. With Huhnseal's vast application knowledge we can help you gain increased accessibility to your process with improved profitability and quality while at the same time lowering its energy and environmental impact.



The price of the seal is only a small fraction of the total cost of the application. Choosing the right seal results in longer lifetime, reduced energy- and water costs and lower overall maintenance costs.

Some of the benefits working with Huhnseal



- Reliable standard seals
- Special seals one-off
- Diamond coated SiC-faces
- Seal repair database (HMS)
- Highly skilled engineering department
- Branded seals for OEM'S
- OEM after market exclusivity for special seals
- Stock holding for reliable logistical solution

Huhnseal standard sealing solutions

Huhnseal E-series - a strong standard platform

80% of the pump applications in the mill can be sealed using Huhnseal E-series standard cartridge seals. ED (double seal) and ES (single seal) offer unique design features especially developed for the Pulp & Paper industry. Protected spring design, ±2 mm axial movement, excellent shaft bending acceptance and only using high quality engineering materials are some of the key features.

Standard E-series seals may be combined with different assembly kits enabling easy fitting in most if not all of the centrifugal pumps of standard sizes used in the pulp and paper industry. Regardless of which pump brand your process is based upon, Huhnseal will engineer the necessary components for you, enabling safe and trouble-free fitting of the E-series type seals.



ED - double cartridge seal

ES - single cartridge seal

Standard component seals

Not all pumps used in the Pulp and Paper industry allow cartridge seal assembly due to the design of the seal chamber. Huhnseal offers standard component seals for this range of pumps as well. These types of seals are recom-

mended for low duty applications and applications with low fiber concentrations where standard cartridge seals cannot be used.



HR - Seal

AN - Seal

Huhnseal customised sealing solutions

Customised seals for Scanpump and Sulzer

Huhnseal has 25 years of experience in engineering customised seals for many different pump brands. For all Scanpump (PSI) and Sulzer (Ahlstar™) bearing units we have developed a unique program of single and double seals. Typical features are: robust design, springs located outside buffer fluid and rigid clamp-in fit to the shaft making set screws redundant. These features make them especially suitable for demanding black liquor

pump applications. Of course these seals may also be used for any other Scanpump PSI- or Sulzer Ahlstar pump application in the mill if you prefer these customised seals over using standard seals with assembly kits.



BA-ISP double seal for Scanpump PSI



BA-AP double seal for Sulzer Ahlstar™

Specialized seals for Black Liquor pumps

The black liquor circulating pumps around the digester are some of the most critical seal applications in a modern chemical pulp plant. High temperatures and pressures, pressure chocks, abrasive media and hazardous chemicals are typical application features. Huhnseal has developed a special

seal technology which ensures safe, reliable and economic operation of these demanding pump positions. This seal technology can be made available to most pump types and brands.



BA-BP double seal for black liquor circulation pumps

Seals for special rotating equipment

For many other types of equipment, such as: pulpers, pressure screens, mills, refiners and bleaching mixers, Huhnseal supplies special sealing solutions. In most cases double seals are used with customised design allowing direct fitting without modifying the original machine parts. Huhnseal offers these products along with a logistical plan for spares and

service. The seals are offered with many different types of materials for machined parts and elastomers.



BA double seal for Valmet hydra pulper

Huhnseal Diamond Seal Technology

Crystalline diamond coating for seal faces

Clean water to be used for buffer (double seals) or flushing (single seals) is often a scarce resource. Also in many cases adding flush water into the pulp is to be avoided because the energy required for heating added flushing water carries an extremely high cost. The solution to this problem is to use single cartridge seals with crystalline diamond coating on the Silicone Carbide seal faces.

The diamond coating offers an extremely hard surface, lowest possible friction and optimal heat conductivity. This allows for operation with single cartridge seals, where normally double seals or single seals with flush into the product would be used. This concept is especially suitable for recycled pulp mills and pumps for additives, but also for most general pulp applications.

