



# IT'S SO EASY.

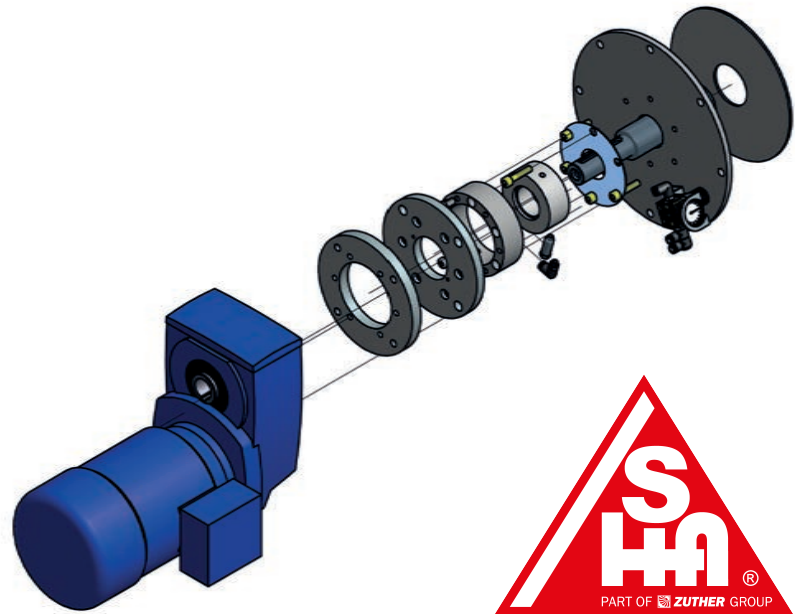
Sealing system **Easy Gasket** exclusive by SHA.

SCREW CONVEYORS | rotary valves | mixing systems  
silo equipment | dedusting systems  
[www.sha-germany.de](http://www.sha-germany.de)



## SEALING SYSTEM

### Easy Gasket



Based on our long-standing experience of auger applications in different industries SHA designed, developed and integrated a, Low maintenance, functional, long lasting sealing system applicable to all different applications.

The sealing solution is based on SHA's experience in auger designs and an integration of an existing and proven system designed by CinchSeal®.



### *CLEAR ADVANTAGES*

*Long seal life with minimum servicing expenditure!*

The effectiveness and functionality of the sealing system is guaranteed by the unique design of the double contact axial faces.

The seals operate with minimum friction. Low frictional resistance translates into low energy consumption and less frictional energy loss. Mandatory execution „Hard coat anodized“. That means, the aluminum surface has a hardness from 60 HRC up to 70 (HRC).

This minimum hardness corresponds approximately to wear resistant materials as for example EIPA480 (VAUDIT, Castolin etc. ) and is higher than the hardness of hard chrome coatings. Therefore, our sealing system is capable of handling abrasive media.

## CHARACTERISTICS

*Least maintenance  
and servicing  
expenditure*

*Long-lasting  
Low-wear  
Economical &  
Cost-saving*

*Environmentally  
friendly*

***The problem with sealing systems is often high wear in demanding applications. For this we have found a solution:***

The major sealing surface lies between the rotor cups (chemically linked PTFE rings) and the hardened aluminum housing, not between the shaft and packing (stuffing box), hence, there is no wear on the shaft. Inside the cartridge, the sealing elements are designed to have a pre-engineered compression.

The blue Rubber boot (GE silicone Elastomer) is designed to have an interference fit with the shaft and is strong enough to rotate the internal elements of the seal along with the shaft. Although the blue rubber boot has a tight fit on the shaft the unhindered axial expansion of the screw shaft is still possible, nevertheless. The Rubber boot does not wear as it is rotating with the shaft therefore the rubber boot does not experience any relative motion.

### *Leakage free with liquids*

An air purge of 0,3 bar brings preliminary pressure into the cartridge. The rotor cups are thereby pressed always with enough pressure against the housing. Thus a zero-face gap guarantees sealing and a leakage free application even with liquids.

### *No contamination can enter the augur*

After approx. 2-3 hours of running the Easy Gasket system shows no measureable air consumption. This means: You run the system with the lowest operating expenses, and it does not have any air consumption!

### *No consumption material*

Only air is used – hence, there is no grease, no contamination of the product or the surroundings. No consumption material (grease) is required.

Depending on the material combination the application of Easy Gasket is also possible with abrasive media. The whole construction of sealing system, screw, assembling makes sure that the system has no leakage. Therefore the easy gasket system can be used in a wide range of applications.

## Advantages in the overview

- Long life span with the least servicing expenditure!  
A reliable sealing and operational functionality is guaranteed by the statically dynamic double contact surface seal with a minimal operating frictional resistance. Low frictional resistance translates into low energy expenditure and less frictional energy or heat energy. Easy Gasket is pre-engineered to generate low heat and is especially suited for ATEX applications.
- All materials are certified by the FDA and USDA for food applications. Besides, they bring an excellent chemical performance. Therefore the system is also suitable for applications in the chemical industry as well.

## CHARACTERISTICS

*no consumables to  
operate the seal*

*no contamination*

*no air consumption*



## ENTERPRISE PROFILE SHA

The company, Ing. Siegmund Henning Anlagentechnik, was founded in 1996 by Siegmund Henning as an engineering office with added capabilities of commercial transactions. The present business as a limited company was established in 2000. Since 2000 Tom Henning lead the company's businesses' succeeding his father. A new, well known product line of augers and components was added in 2003. There were 5 employees at that time. The success and growth of the enterprise led to the enlargement of the company's production at the new Ludwigslust location in the year 2009.

Today SHA has more than 3,000 m<sup>2</sup> production area in two locations and 5,000 m<sup>2</sup> of additional warehouse space. The company has grown from 5 employees to 45 employees. SHA is very socially engaged. It is led by Tom Henning who is an active and contributing member in the economic advice MV, the north enterpriser's association IHK committee „Industry, technology and environment“, in the German Powder and Bulk Association as well as in the federal logistics association.



## PRODUCTION & QUALITY

Our production in Ludwigslust consists of an extensive and modern machine park. Major machines at the facility are

- a laser treatment centre 3D Trumpf TruLaserCell 7040, 5 kW, CO<sub>2</sub>
- a Kant's treatment centre Trumpf TruBend 5230, 4 m, 230 t
- a rotary treatment centre of Mori Seiki NLX2500SY / 700
- a vertical treatment centre DMG MORI ecoMill 1100 V
- a drilling centre the Donau quick radial drill DR. 40 Digi
- and an extendable painting hall 15 m x 6 m x 6 m (L x B x H),

Since 2005, SHA has been one of the first enterprises, offering augers with ATEX 94 / 9/EC (II 1/2 D C 150°C; II 1/3 D C 150°C; II 1 / - D C 150°C), NW 100-600, DN 60 to 508 licensing. Also, we are certified according to the management and quality system EN ISO 9001:2008 and 94 / 9 / EC module D. In addition, we are certified as one of only 8 enterprises in Mecklenburg-Vorpommern to standard IPPC (International Plant Protection Convention).

