

PRESS RELEASE

Conveying of Polymer solutions in the adhesive industry

Jung Process Systems assembles HYGHSPIN Hopper with double-acting mechanical seal with pressurized buffer system

Enterprises of the chemical industry have versatile demands with regard to the technology of pumps. Specially in the sector of the Polymer chemistry the choice of adequate sealings is most important in order to guarantee failure-free conveyance of the products. Jung Process Systems developed a special transport solution for a producer of inorganic adhesives on basis of Polymer using a HYGHSPIN Hopper with double-acting mechanical seal. This and further interesting applications can be discussed in detail with the experts of Jung during Achema 2015 exhibition in Frankfurt/Main (Hall 8.0, stand F 27).

Transport of adhesives is viscous and sticky. The characteristics needed for the final product require tremendous challenges for the production technology. The product of the customer of Jung Process Systems has a viscosity of approx. 100.000 mPas. Besides the high viscosity also the heavy friction losses in the piping at the suction side and a resulting very low NPSH_a value demand sophisticated requirements regarding the pump to be used. Consequently the inflow of the product into the feed screw chamber is problematic. Due to these reasons the customer decided for the hopper execution of the HYGHSPIN twin screw pump series. However, contrary to the standard version this pump inlet is executed as a flange because the adhesive is processed in a closed circuit. A further feature represents the execution of the pump with a double-acting mechanical seal with pressurized buffer system instead of a lip

sealing. Due to admission of the mechanical seal with a barrier liquid any kind of product outlet to the environment will be avoided just as the feed medium entry between the surfaces. This solution facilitates that the high-viscous feed medium falls into the feed chamber and can be transported pulsation-free and continuously without any problems.

3-in-1-Principle convinces

Product feeding, conveying and cleaning by means of the innovative construction of the HYGHSPIN Hopper twin screw pumps developed by Jung Process Systems. The feeding medium supply is effected in the extruder area underneath the feed hopper, the pressure increase is made in the proper pump area by means of the feed screws which are individually laid out for every particular application. This construction principle also convinced the producer of the adhesives. This manufacturer decided for a HYGHSPIN Hopper of design size 90. This pump accomplishes a differential pressure of 15 bar, the feeding quantity varies between 1 and 10 m³/h. The pump is located in an ATEX area 1.

Jung Process Systems on the Achema exhibition in Frankfurt/Main, June 15 – 19, 2015, Hall 8.0, Stand F27.

www.jung-process-systems.de

Fotos:



Foto1: HYGHSPIN 90 with hopper for non-flowable media

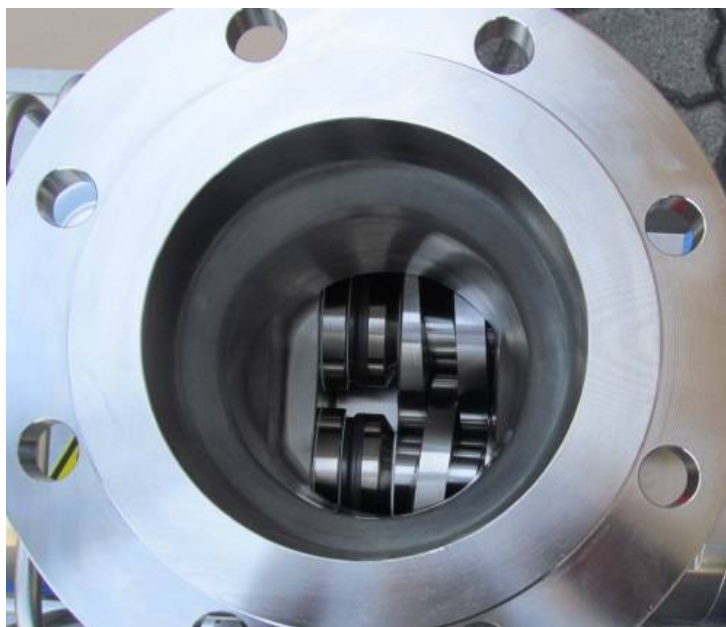


Foto 2: Innovative extruder feed screw combination of the HYGHSPIN Hopper

Jung Process Systems GmbH

Auweg 2

D-25495 Kummerfeld/Pinneberg

Tel.: +49 +4101-7958140

Fax: +49 +4101-7958142

info@jung-process-systems.de

www.jung-process-systems.de

2,740 characters
425 words

Ref.: Jung 2015 Achema e
Foto: HYSHSPIN 90a, 90d
Date: April 2015

Besides of FAS Füllanlagenservice GmbH the company Jung Process System GmbH is emanated from Jung & Co. Gerätebau GmbH, a family-managed medium sized machine manufacturer specialized on the manufacture of stainless steel parts for more than 40 years now. Their worldwide sales are governed through partners in 22 countries from Germany, France, Netherlands, Austria, Switzerland, Spain, USA, Argentina and Brazil to Australia.