

PRESS RELEASE for ANUGA FOODTEC

Hygienic HYGHSPIN twin screw pumps

Highly wear-resistant for abrasive media

Pumps are used for plenty of tasks in food processing. The systems are frequently operated with centrifugal or progressive cavity pumps, although twin screw pumps often provide additional benefits.

The design of HYGHSPIN twin screw pumps manufactured by Jung Process Systems GmbH do follow hygienic design criteria. HYGHSPIN models are manufactured in stainless steel, as it is generally required by the market. On top all wetted parts are made entirely from solid material. There is no wetted part of cast origin. This prevents the risk of imperfections, such as cracks or shrink holes, with HYGHSPIN pumps for 100%. The surfaces are electropolished and have a roughness of less than 0.8 µm as standard. For special requirements improved surfaces qualities with Ra value of less than 0.4 µm are available as option.

The company also offers individual solutions for highly abrasive products. Henning Grönwoldt-Hesse, Sales Director at Jung Process Systems, cites fruit purées as an example of this. “The pump has to withstand crystals or fruit pips, which are not bound in the product,” he explains. Of importance is the choice of operating parameters and also the selection of the technical design. The wear resistance of the wetted parts is significantly increased by diffusion hardening. “This also improves operating safety as galling is prevented.”

HYGHSPIN twin screw pumps can pump a wide range of viscosities, what makes them very individual and flexible. They can be cleaned without the need for a bypass. Cleaning and sterilisation is done in place within the system. There is no need to dismantle the pump. Henning Grönwoldt-Hesse points out: “Hygienic risks from product residue can be ruled out.” Also any nickel ingress into the product, which could be harmful to allergy sufferers.

Jung Process Systems will be exhibiting at ANUGA FOODTEC in Cologne in Hall 10.2 and on Stand C031.



(258 words, 2,142 characters including spaces)

(Photograph: JPS _Blockbauweise.jpg, Source: Jung Process Systems)

The HYGHSPIN is also suitable for use with highly abrasive media.



(Photograph: JPS_TK Erdbeeren.psd (here initially as layout version), source: Jung Process Systems)

Fruit purées made of frozen strawberries contain pips that are not bound in the product and are extremely abrasive.

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