

HYGHSPIN – a screw pump for numerous industries

HYGHSPIN screw pumps are used in a wide range of industries – and deliver outstanding results:

• Food industry, e.g. bakeries, meat processing, confectionery industry

• Beverage industry, e.g. fruit juice manufacturing, dairy industry, breweries

• Pharmaceutical industry

- Cosmetics industry, e.g. creams, pastes, lotions
- Chemical industry, e.g. adhesives, solvents, paints, varnishes, plastics

And in many other industries where materials with a wide range of viscosities need to be transported.



Technical data

Туре	HYGHSPIN 70H	HYGHSPIN 90H	HYGHSPIN 125H
Capacity	100 l/h – 3 m³/h	1 m³/h – 10 m³/h	5 m³/h – 30 m³/h
Max. diameter of solids	20 mm	30 mm	45 mm
Dimensions			
A	613 mm	814 mm	1060 mm
В	98 mm	134 mm	182 mm
С	62 mm	93 mm	122 mm
D	211 mm	278 mm	394 mm
E	125 mm	164 mm	203 mm
F	199 mm	259 mm	349 mm
G	35 mm	45 mm	62,5 mm
Н	272 mm	317 mm	419 mm
Weight	70 kg	135 kg	380 kg





Performance features

Capacity	100 l/h – 30 m³/h	
Delivery pressure	10 bar, optionally 25 bar	
Suction capacity	NPSHr bis 0,5 m	
Viscosity	bis 5.000.000 cSt	
Product temperature	–10 to 130° C, with oil cooler 160° C	
Cleaning temperature	Up to 140° C	
Sterilisation temperature	Up to 145° C	
Material for product-contact parts	1.4404 with 3.1 certificate (other materials on request)	
Elastomers	HNBR and FDA approved (other elastomers on request)	



HYGHSPIN

HOPPER

Jung Process Systems GmbH

Auweg 2 · 25495 Kummerfeld Deutschland

Tel.: +49 4101 7958-140 Fax: +49 4101 7958-142

info@jung-process-systems.de **jung-process-systems.de**



Jung twin screw pump for non-flowable products

3-in-1-technology:

Infeed, conveying, cleaning with just one pump!

1. Infeed

Hopper and integral extruder enable radial entry of non-flowable products

HYCHSPIN

2. Conveying

Feed screws with integral extruder

3. Cleaning

Proven HYGHSPIN technology: No additional pump for CIP cleaning required



hygienic – gentle – economical



The efficient solution for non-flowable products

the internationally proven HYGHSPIN series of stainless steel pumps. This innovative twin screw pump with feed hopper is capable of easily transporting products with viscosities of up to 5000 Pa·s. The feed screws have been extended so that they draw in non-flowable products underneath the inlet hopper in the same way as an extruder and convey them to the pumping compartment. This ensures particularly gentle handling and completely does away with the need for an external extruder.



The HYGHSPIN Hopper therefore represents a very attractive 3-in-1 solution. Infeed, conveying and cleaning in just one component.

The HYGHSPIN Hopper is an expansion of

Further benefits of the HYGHSPIN Hopper

- Considerable cost savings Reduced investment and maintenance costs
- Outstanding quality Made entirely from stainless steel
- Exceptionally maintenance-friendly No need to remove the pump from the system for maintenance work

• Maximum flexibility Wide range of products, viscosities and volumes can be handled with

- Gentle and uniform product handling Low speed, minimum pulsation, no surges
- Extremely high hygiene standards No dead spaces and particularly effective flushing of the shaft seal
- CIP and SIP

just one pump

Cleaning and sterilisation in place, use as CIP feed pump

Twin screw pumps have clear advantages over other pumps such as centrifugal, rotary lobe and gear pumps, particularly in terms of their high flexibility and gentle, low-pulsation feed.

The HYGHSPIN Hopper is available in three sizes: 70, 90 and 125. The maximum feed rate is approx. 30 m³/h and the differential pressure of the standard design is max. 10 bar.

Four guide bolts with cap nuts

- Rapid assembly/ disassemblv for inspection and manual cleaning
- Guide bolts for damage-free handling of the components

Pump outlet

- Horizontal discharge for perfect emptying
- Various standards and nominal widths available

Pump inlet

- Feed to integrated extruder - Design as hopper or flange

Product-contact surfaces

- Electro-polished for optimum cleaning (Ra < 0,8)

Static seals

- Hygienic sealing with form rings – no dead spaces
- FDA-approved elastomers

in various qualities

Pumping elements

- Precision feed screws with integrated extruder
- as infeed unit
- Optional: Kolsterised surfaces
- PTFE lips with dry-running capability

Shaft seal

HYGHSPIN



- Wear-resistant Jung

- chromium-carbide coating
- Optional: Kolsterised surfaces





Bearing support

- Stainless steel with high-performance bearing

Synchronisation gearwheels

- Inspection opening with access to gear unit
- Adjustment of flank clearance possible in place without discharging gear oil

Drive shaft

- Free shaft end or block design directly connected to the drive unit

Gear casing

- Aluminium design with wear-resistant and acid-resistant Teflon coating
- Optional: Stainless steel design

Jung Process Systems experience and competence

Jung Process Systems has been a specialist manufacturer of stainless steel screw pumps since 2009 and offers outstanding quality as well as far-reaching competence in the field of pump technology. The company manufactures twin screw pumps for all requirements and sectors and offers comprehensive worldwide support.

All pumps in the HYGHSPIN series are extremely compact, space-saving and maintenance-friendly. They offer high availability with minimum downtimes for maintenance work (optimal MTTR).

All models are based on the principles of hygienic design and therefore meet the required quality standards for use in the food, beverage, cosmetics, bio-pharmaceutical and chemical industries.

The company's in-house production facilities offer logistical flexibility with reduced delivery times and a quality management system certified to ISO 9001:2008.



– Compact cartridge-design lip seal with self-lubricating







