

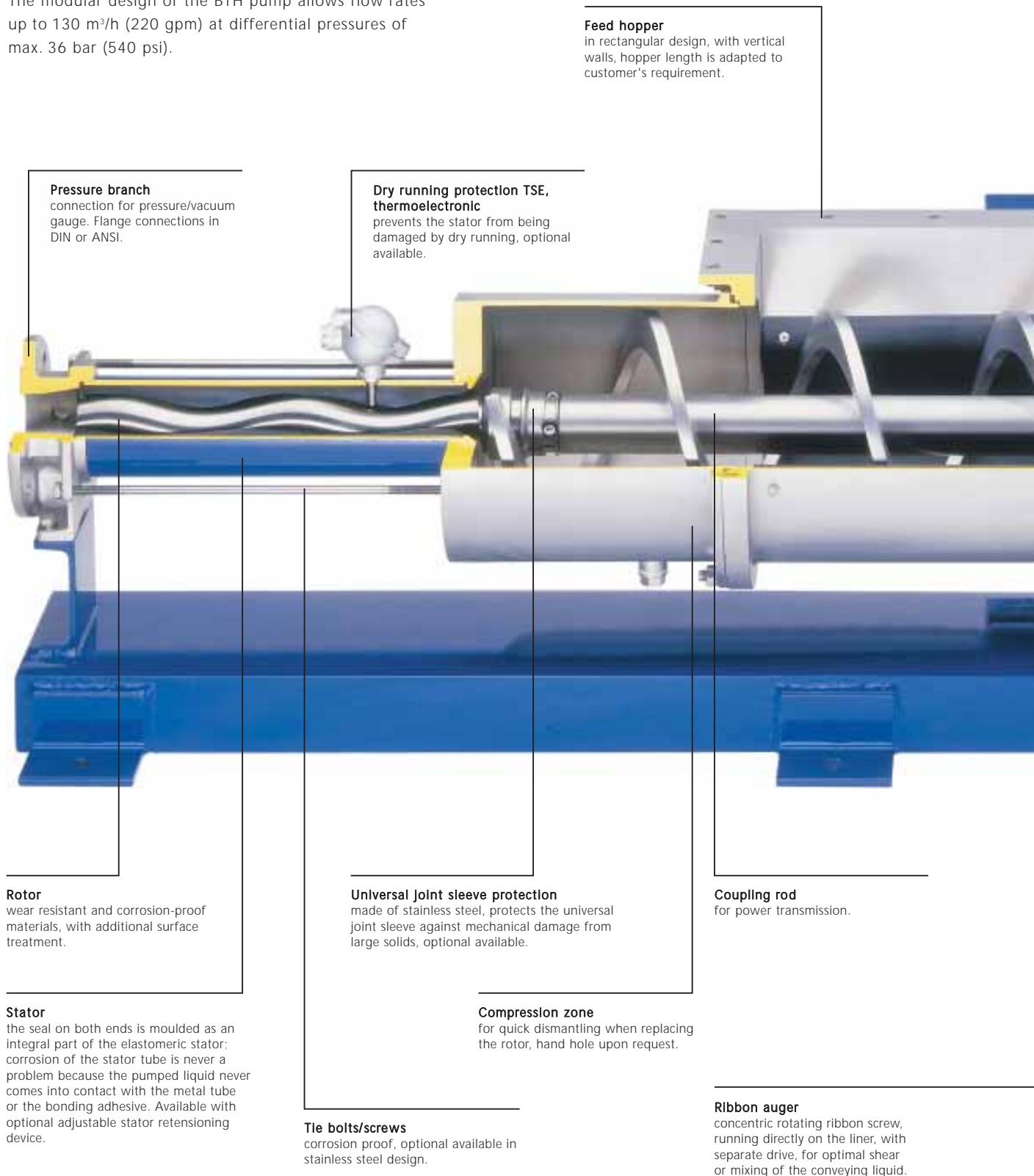
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all things flow

Here is your conveying solution:
Product group T, range BTH/BTHE.



T – Open hopper pumps, range BTH/BTHE

seepex range BTH pumps are used in many industries to handle highly viscous products with minimal flowability. The modular design of the BTH pump allows flow rates up to 130 m³/h (220 gpm) at differential pressures of max. 36 bar (540 psi).



Feed hopper
in rectangular design, with vertical walls, hopper length is adapted to customer's requirement.

Pressure branch
connection for pressure/vacuum gauge. Flange connections in DIN or ANSI.

Dry running protection TSE, thermoelectronic
prevents the stator from being damaged by dry running, optional available.

Rotor
wear resistant and corrosion-proof materials, with additional surface treatment.

Universal joint sleeve protection
made of stainless steel, protects the universal joint sleeve against mechanical damage from large solids, optional available.

Coupling rod
for power transmission.

Stator
the seal on both ends is moulded as an integral part of the elastomeric stator; corrosion of the stator tube is never a problem because the pumped liquid never comes into contact with the metal tube or the bonding adhesive. Available with optional adjustable stator retensioning device.

Compression zone
for quick dismantling when replacing the rotor, hand hole upon request.

Tie bolts/screws
corrosion proof, optional available in stainless steel design.

Ribbon auger
concentric rotating ribbon screw, running directly on the liner, with separate drive, for optimal shear or mixing of the conveying liquid.

Hopper Insert

as bearing and protection from wear for the ribbon auger.

Ribbon auger drive

geared motors, variable speed drives or frequency controlled drives from all major manufacturers.

(see detail)

Plug-in shaft connection

for quick disassembly or repair of pump and drive, for quick replacement of the rotating parts and shaft seals; with plug-in shaft pin and splash ring seal to secure the plug-in shaft connection and additionally protect the bearing from contamination/gland leakage.

Pump drive

geared motors, variable speed drives or frequency controlled drives of all major manufacturers, directly flanged to the pump without additional couplings or guards.

Lantern

for connection of pump and drive and to secure the assembly to the base-plate or directly to the foundation.

Shaft sealing

designed as cartridge unit with quench.

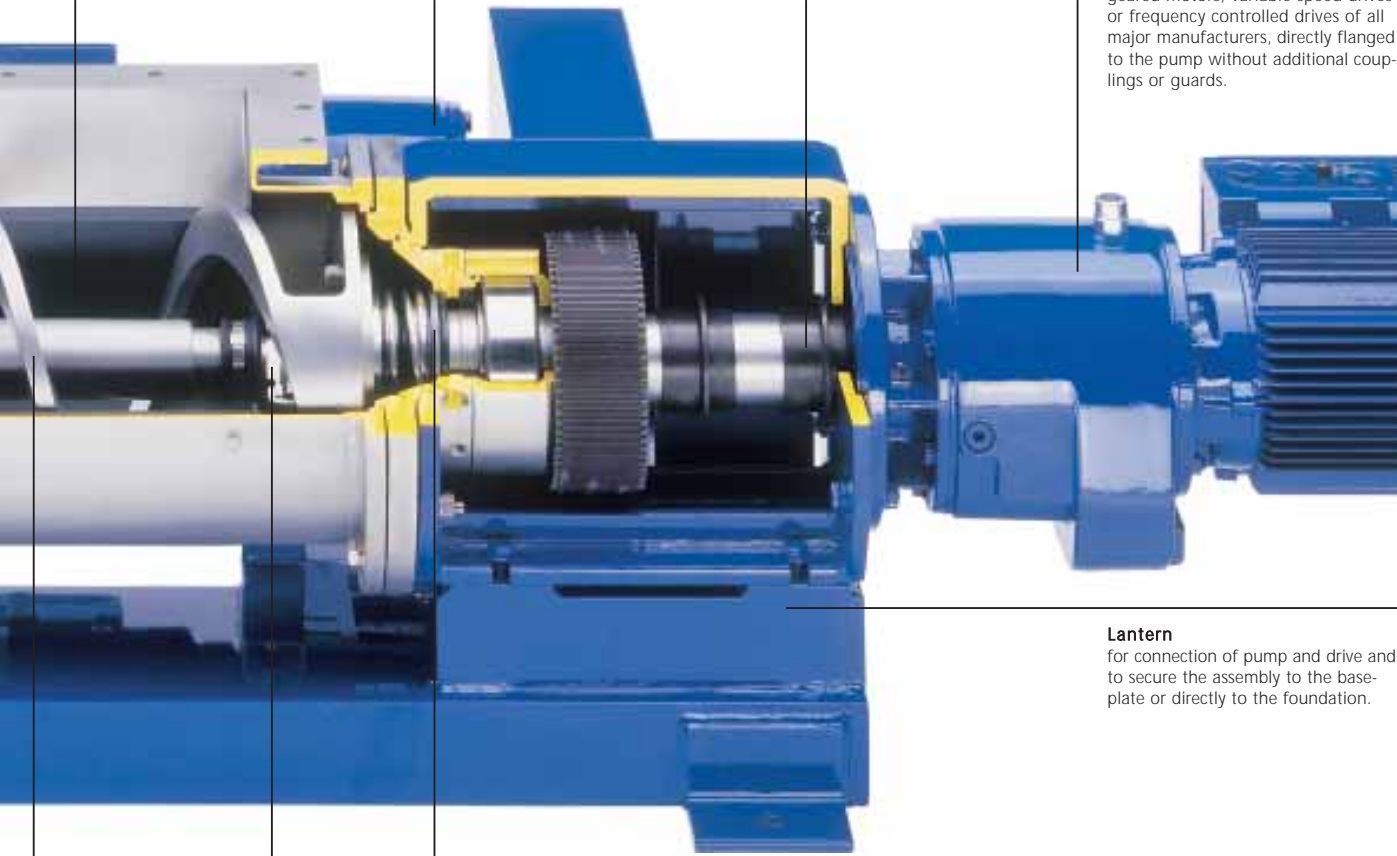
Joint connection

consisting of just 5 components. Power transmission through wear resistant, hardened and replaceable joint parts: easily repaired.

Universal Joint sleeve with holding bands

protects the grease-filled joints from penetration of the liquid pumped, even in case of maximum vacuum or pressure loading; streamlined design to reduce turbulence and NPSHr.

Detail: Ribbon auger drive



Why range BTH/BTHE?

Because they are used in applications such as the brewing industry and distilleries, confectionery industry, construction, dewatered sludge treatment, dyeing and varnishing industry, oil, gas and petrochemical industry, poultry and meat processing, shipbuilding, sludge dewatering, stock preparation, textile industry, waste water and sludge treatment and wood processing.

Features

- These pumps incorporate an open hopper and auger feed screw which enables highly viscous products to be fed into the pumping elements
 - The pitch and diameter of the auger can be adjusted according to operating conditions for optimal product feed
 - Ribbon screw rotating concentrically and on the liner
 - Adaptation of the screw speed through a separate drive (range BTH)
 - Compression housing removable for service work
- > Conveying capacity: 0,5 m³/h–130 m³/h (2.2 GPM–572 GPM),
Pressure: up to 36 bar (540 psi)

Overview of ranges

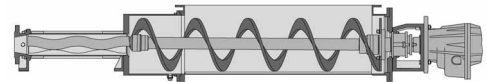
The BTH range combines the various advantages of product group T. It is characterized by a separately driven, concentrically rotating ribbon screw with a maximized diameter and a long pitch. Through separate control of the conveying screw speed, the BTH pump can be used for almost any conveying media. The variable speed auger screw permits optimum filling of the conveying elements rotor and stator without causing excess capacity in the stuffing box. Even media that tend to form bridges can be handled with ease due to the large screw diameter of the BTH pump. The BTH range is the technical optimum solution for shear sensitive conveying media.

Range BTH



Pumps of the BTHE range feature a feed hopper with vertical hopper walls and a ribbon screw rotating centrally and on the edges. This guarantees optimum emptying of the feed hopper and optimised feed of the medium into the conveying elements of the pump. The length of the hopper opening is variable to suit the respective application conditions.

Range BTHE



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