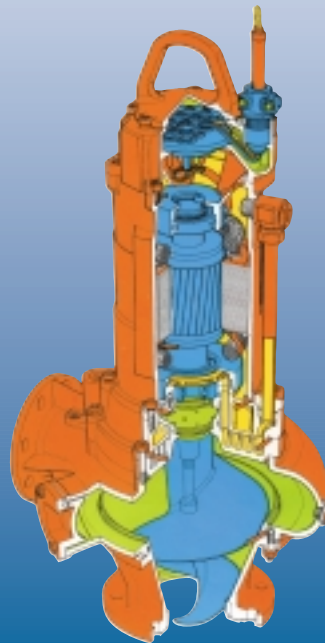


Screw channel pump with submersible motor TM

- **Explosion protection**
Pressure resistant casting according to specification (Ex) d; G3 to o G5
- **Type of protection**
IP 68
- **Materials**
Wear resistant spheroidal cast iron GGG and chemicals-resistant stainless steel version
- **Shaft sealing**
Wear resistant Tungsten carbid mechanical seal running in an oil bath as close coupled version
- **Monitoring**
Humidity electrode for monitoring the motor compartment (patented)
- No feed flow reduction due to increasing density of slurry



Typ S 150-280-TM-A/EX-30-1450-EX d2 G3
Q = 120 lt/sec, H mono = 17 TDH

Screw channel pump with bracket (L-Version)

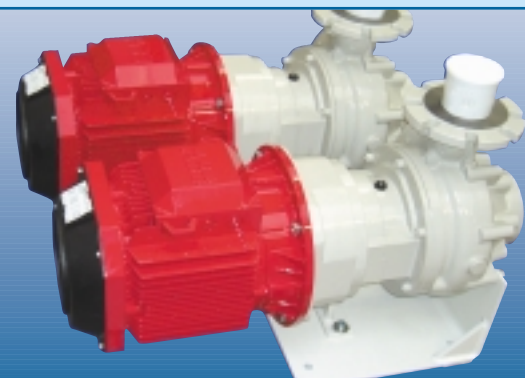
- **Materials**
Wear resistant spheroidal cast iron GGG and chemical-resistant stainless steel version
- **Shaft sealing**
Wear resistant Tungsten carbid mechanical seal running in an oil bath as close coupled version
- Conveying sludge concentrations and viscous liquids for which up to now only volumetric displacement pumps could be used



Typ S 100-100-LGK-4-1450/Mat 3
Q = 20 lt/sec, H mono = 8 TDH

Close-coupled screw channel pump

- **Materials**
Wear resistant spheroidal cast iron GGG and chemical-resistant stainless steel version
- **Shaft sealing**
Wear resistant Tungsten carbide mechanical seal running in an oil bath as close coupled version
- Minimum power consumption ensures economic operation
- Not prone to clogging



Typ S 200-115-BH-30-960/Mat. 1
Q = 140 lt/sec, H mono = 15 TDH

CATAG AG BASEL

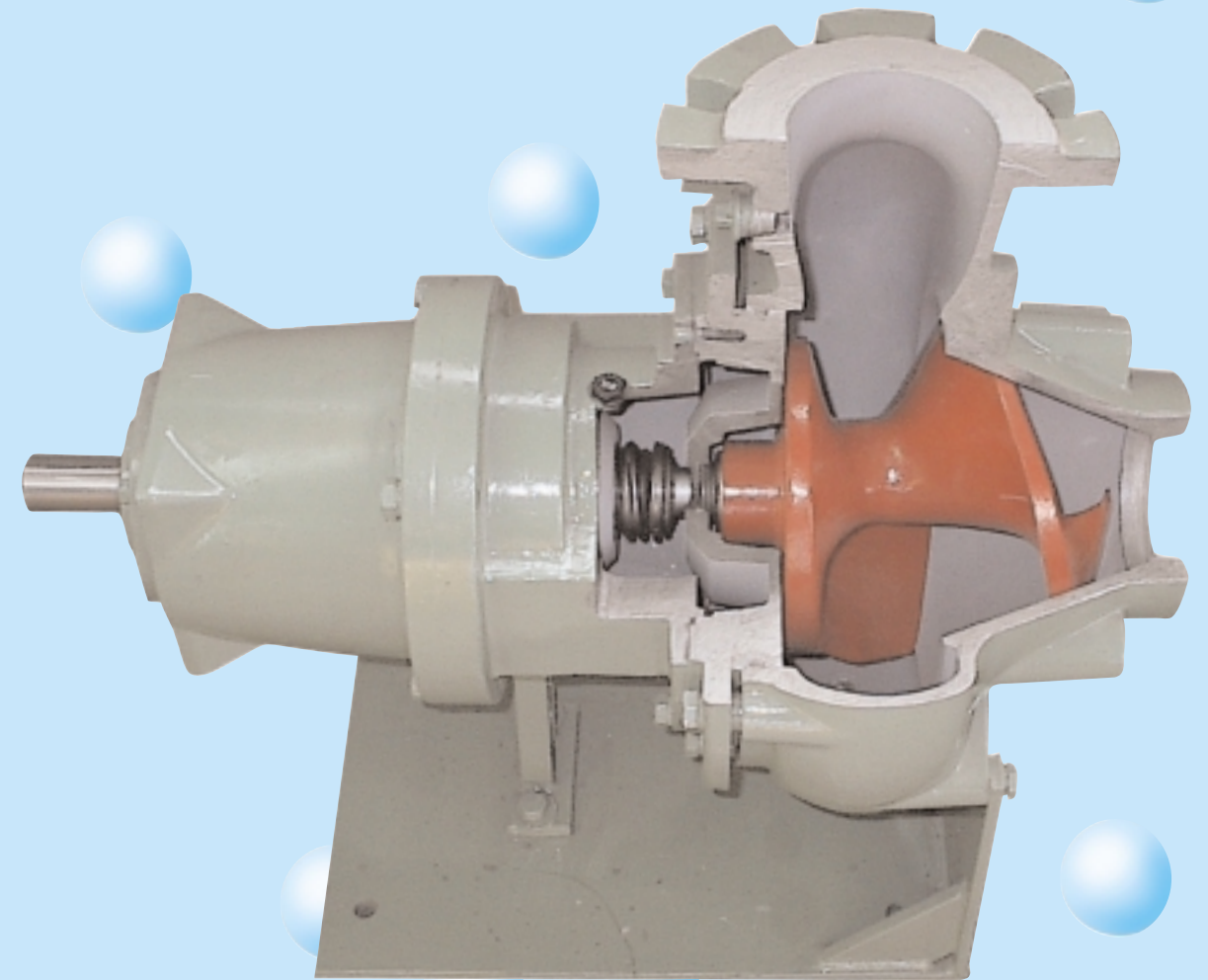
Spezialpumpen und Apparate,
Filter- und Verfahrenstechnik,
Pumpen für Entsorgung und Recycling



4052 Basel | Tel. 061 373 73 73 | Fax 061 373 73 70
8575 Bürghlen | Tel. 071 633 23 68 | Fax 071 633 12 10

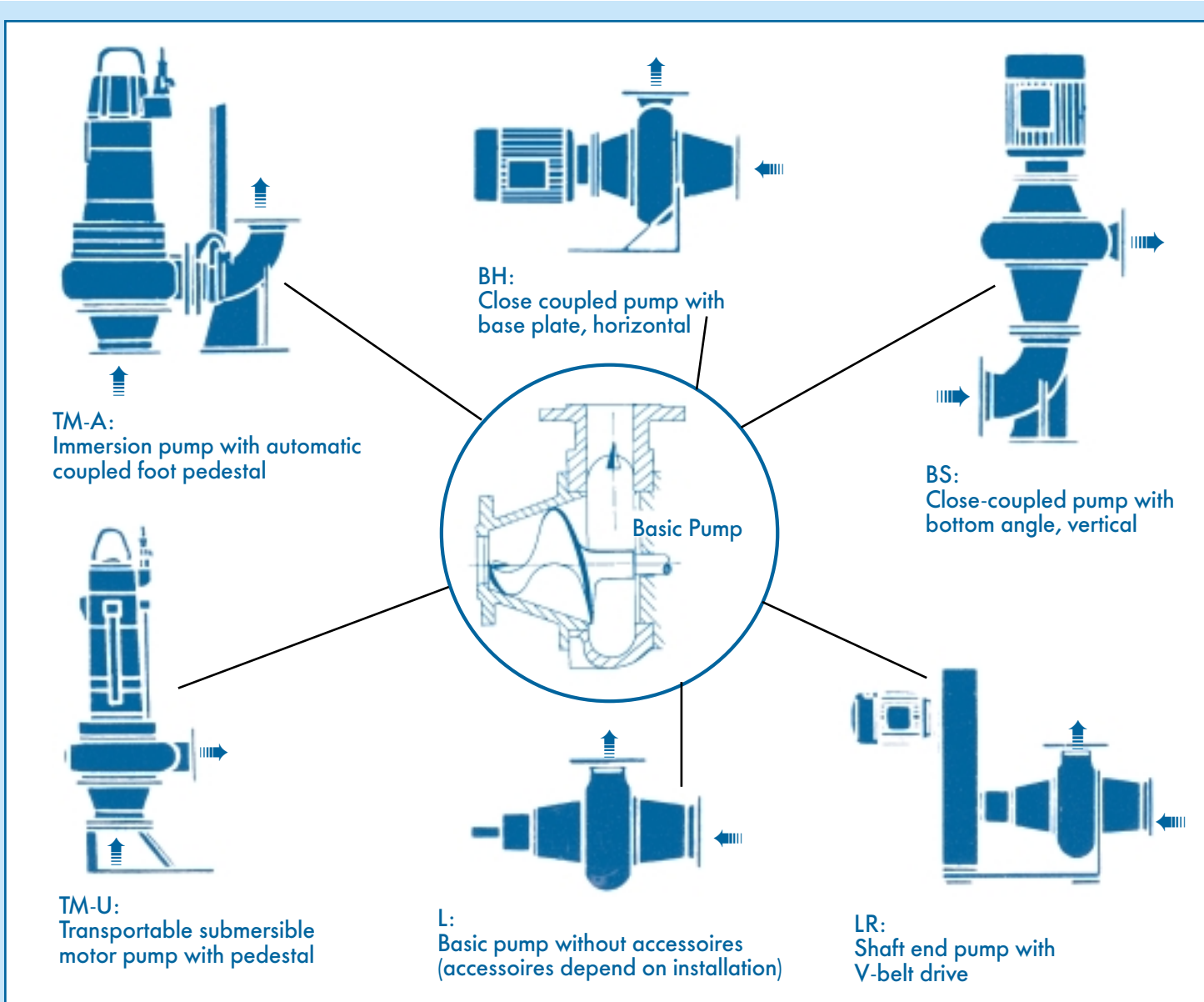
HUS SCREW CHANNEL PUMP

for fluids containing solids, sludges, slurries etc.



High efficiency
Universal
Sludgepump





Applications with HUS screw channel pumps

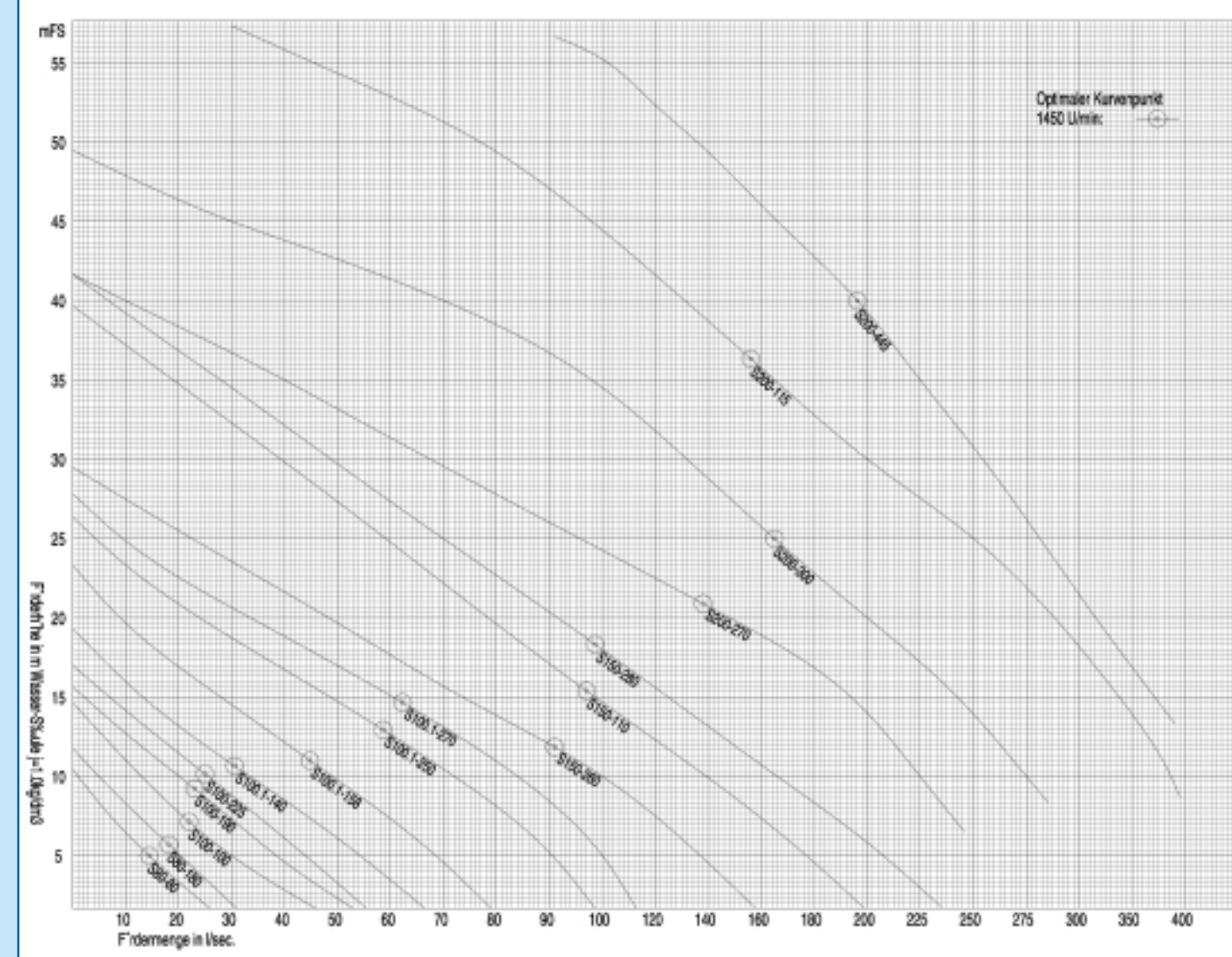
- Wastewater disposal of any description**
 In sewage works for raw sewage and slurry treatment etc.
 For the disposal of wastewater and sewage
 Rain water pumping stations
 Wastewater pumping stations
 Return pumping stations
 Stirring machine pumps
 Biological aerting pumps
- Agriculture**
 Pig farms
- Energy generating plants for coal, oil and nuclear power**
 Circulations pumps in nuclear power stations
 For energy production plants
 e.g. coal liquidising plants etc.
- Composting and recycling processes**
 In bio-gas digesters for feeding and convection
 Feed pumps
- Sludge convection, sludge thickening etc.**
 For slurry treatment plants
 Slurry circulation pumps
- Gelatin production, slaughterhouses etc.**
- Very high efficiency**
- Conveys fluids down to the liquit limit**
- Largely free from clogging**
- Minimum energy costs**
- Very low service costs**
- Long service life**

Our speciality:

- Consultancy and design for pumping stations**
- Advice in connection with the use and application of pumps**

HUS screw channel pumps

General range of characteristics and performance



Advantages of the HUS screw channel pumps

The patent HUS screw channel wheel will convey fluids virtually free from clogging, in a very easy and gentle process, with high efficiency, down to the liquid limit of the fluid without any loss of power. The fluids are conveyed by semiaxial displacement in the worm shaped HUS screw channel wheel. The HUS screw channel pumps feature low wear characteristics even for abrasive fluids such as sandy slurries etc. The excellent efficiency of the HUS screw channel pumps ensures the required saving of energy. An optimum reduction of operating costs is achieved. Admixtures consisting of long fibres are conveyed by the spiral shaped HUS screw channel wheel largely without the formation of plaits or spinning the fibres. Problems experienced with other pump systems will not be experienced with the HUS screw channel pumps, with means that service costs will be kept especially low.

HUS screw channel pumps with maximum efficiency

Test comparisons have shown that the patented HUS screw channel wheel achieves the best efficiency compared to other systems of equal size. This means that the use of HUS screw channel pumps make a significant contribution to energy saving and allows the user to incur only minimal costs for electricity.

Pump system/ shape of weel	N %	Q* l/s	H m FS	P KW
HUS screw channel pump	76	12	7,1	1,1
Single channel wheel (open)	60	12	7,1	1,4
Single channel wheel (closed)	65	15	7,1	1,6
Vortex wheel/free-flow wheel	38	10	7,1	1,8

Q* = Best Efficiency Point

Please contact us to talk about your specific requirements with respect to conveying fluids containing solids and slurries.