



### Description

Verderhus submersible screw centrifugal pumps combine the best features of centrifugal and submersible positive displacement pumps. They define a new standard for low-head, high-flow pumps. These pumps have a large clearance screw impeller, which gently feeds product into the pump chamber efficiently transferring into the discharge line allowing large solids to be easily pumped. The screw design impeller is ideal for high solid contents and viscous liquids. It produces a high efficiency low NPSHr pump, lowering both energy usage and operational costs, generating a lower overall cost of ownership.

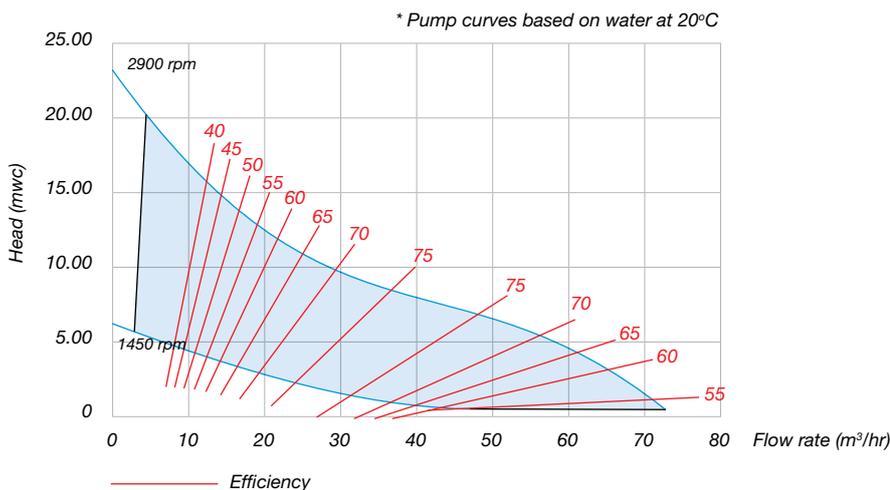
### Features and benefits

- Large solid handling with <10% sludge, <30% slurry
- Gentle low shear pumping action
- Reduced energy use compared to other technologies
- Low abrasive wear meaning reduced maintenance costs

### Technical data

Ambient operating temperature	-20, 40 °C	Maximum viscosity	3000 cP
Maximum pump noise	up to 68 dB	Maximum solid size	64 mm
Maximum flow	72 m <sup>3</sup> /h	Solid content percentage	Sludge: 10% - Slurry: 30%
Motor - 2 pole option	1.5 kW, 2.2 kW, 3.0 kW, 4.0 kW 5.5 kW	Maximum head	20 mwc
		Minimum submergence	712 mm for 1.5 kW, 2.2 kW, 3.0 kW 887 mm for 4.0 kW, 5.5 kW

### Performance curve





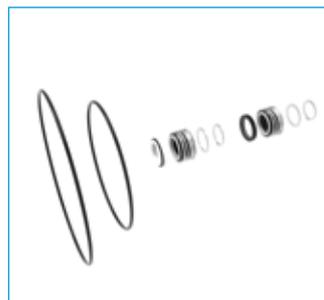
### Materials

Description	Material
Impeller housing/Cone	Cast Iron GG25
Impeller	Ductile Cast Iron GGG50 Hardened
Mechanical seal-product side	Silicone Carbide / Viton
Mechanical seal-motor side	Carbon / Ceramic / Viton
Suction flange	DN80 PN10
Discharge flange	DN80 PN10
O-rings material	Nitrile
Motor options and overall pump weight	56 kg (1.5 kW / 2.2 kW / 3.0 kW), 91 kg (4.0 kW)
Paint (pump-motor)	Two Pack Epoxy Paint Blue RAL 5012

### Spares



Standard impeller kit



Standard Seal kit

### Accessories



Standard suction stand



Standard auto-coupling

*\*\*Please note above images are for illustration purposes only*

### Ordering Spares and Accessories

Pump model	Part number			
	Standard impeller kit	Standard seal kit	Standard suction stand	Standard auto-coupling
HSTA 80-80-A	381.000052	381.000041	381.000059	381.000063



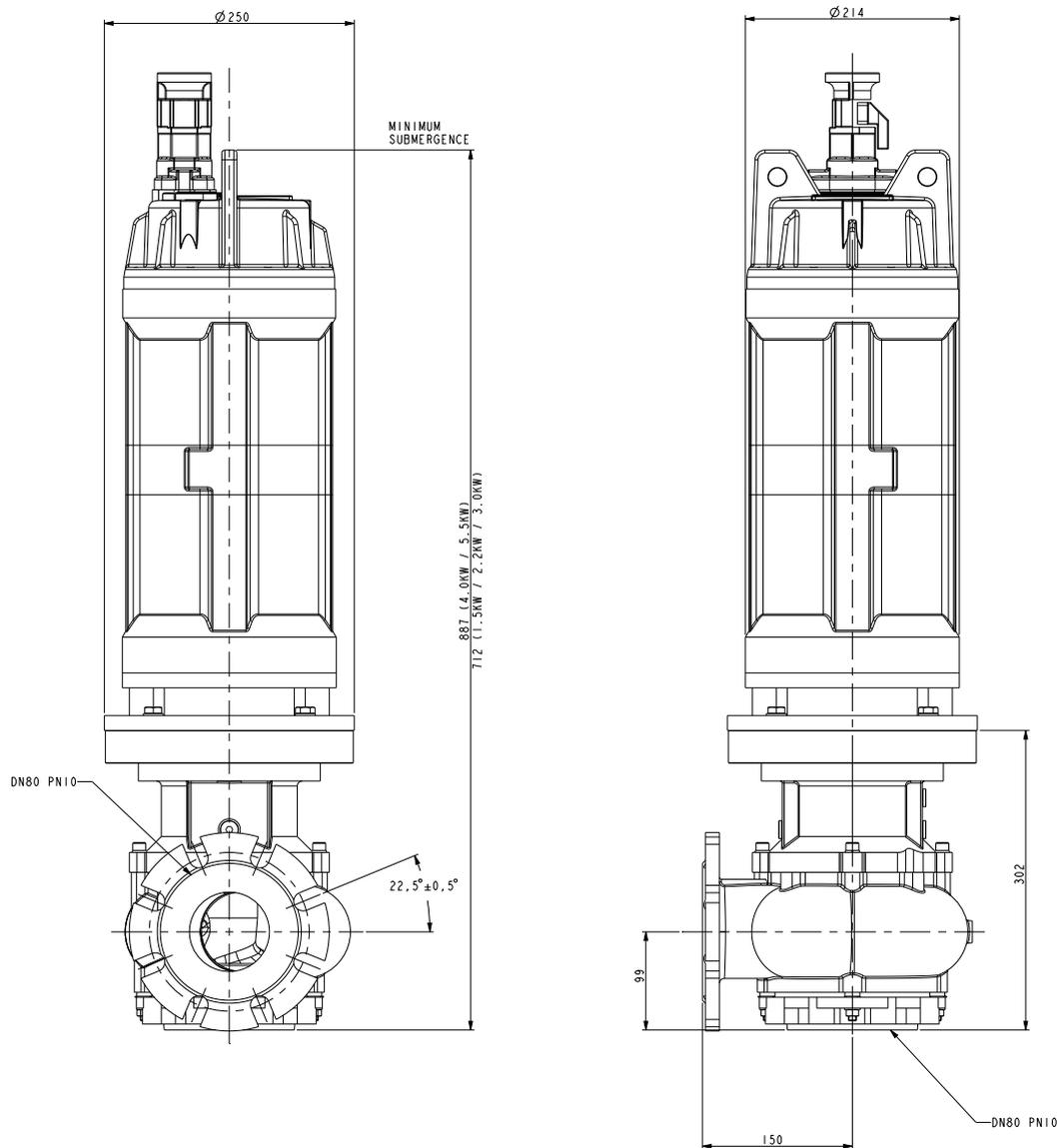
# Verderhus

## HSTA-80-80 A submersible screw channel pump



VERDERHUS®

### Dimensions



All dimensions are in mm.

All dimensions and weights are for guidance only.

Find your local supplier at [www.verderhus.com](http://www.verderhus.com)

For construction, installation and floor mounting drawings please contact your local authorised Verderhus® distributor.

**VERDER**  
passion for pumps

