

### 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.

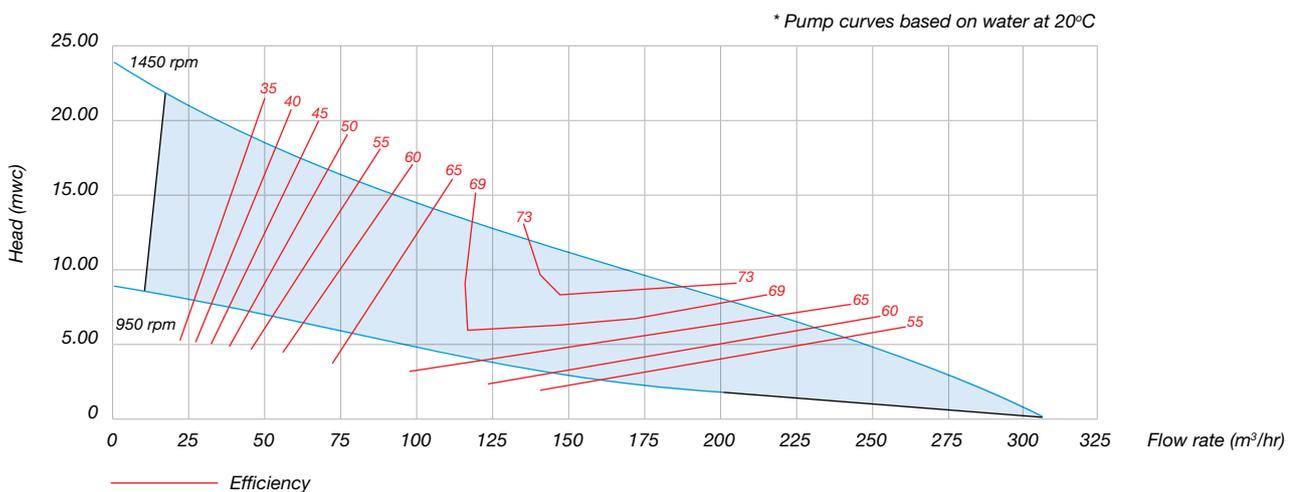
### Features and benefits

- 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	Max viscosity	3000 cP
Maximum pump noise	up to 75 dB	Maximum solid size	80 mm
Maximum flow	300 m <sup>3</sup> /h	Solid content percentage	Sludge: 10% - Slurry: 30%
Motor - 4 pole option	7.5 kW	Max. head	22 mwc
		Minimum submergence	952 mm

### 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	DN150 PN10
Discharge flange	DN110 PN10
O-rings material	Nitrile (NBR)
Motor options and overall pump weight	123 Kg
Paint (pump-motor)	Two Pack Epoxy Paint Blue RAL 5012

### Spares



Standard impeller kit



Standard Seal kit

### Accessories



Standard suction stand



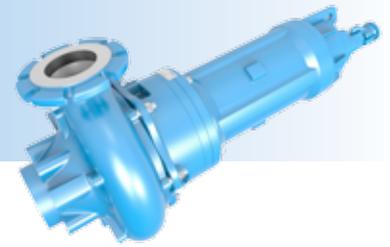
Standard auto-coupling

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

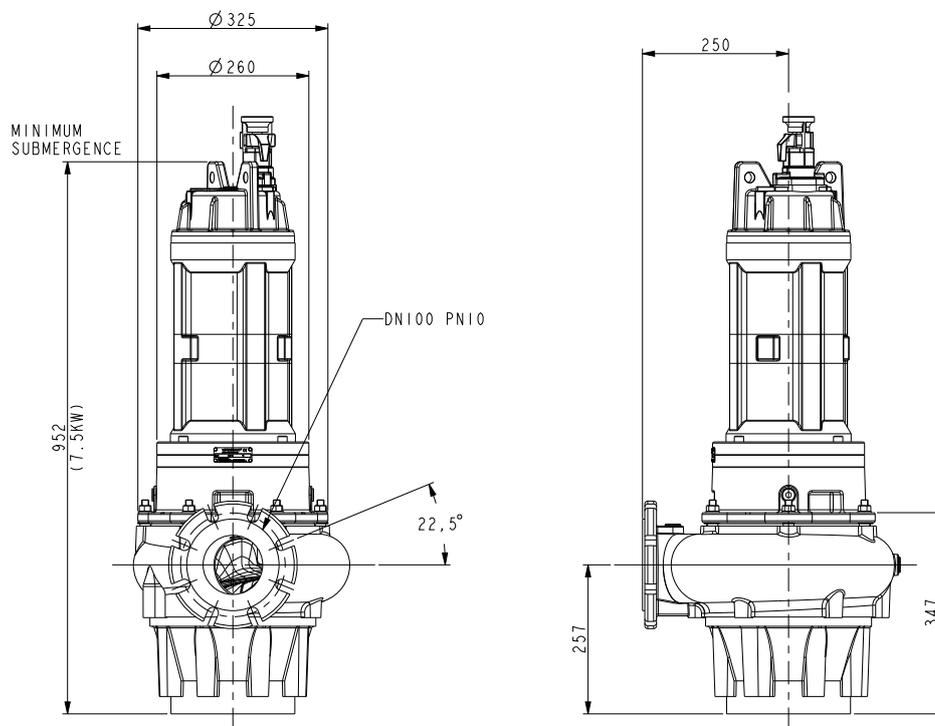
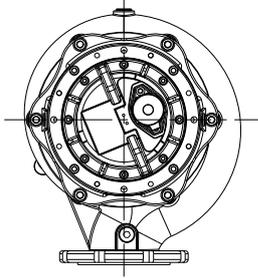
### Ordering Spares and Accessories

Pump model	Part number			
	Standard impeller kit	Standard seal kit	Standard suction stand	Standard auto-coupling
HSTA 150-100 A for 3.0 kW motor	381.000057	381.000049	381.000061	381.000064



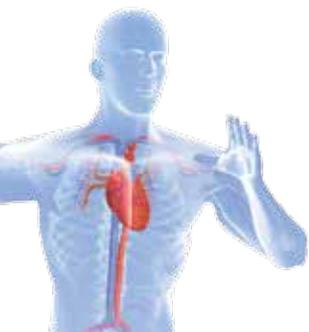


### Dimensions



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.