Separator of gully emptier content - SOTV

Separator of gully emptier content (SOTV) is used to separate the solid phase from the delivered hydro-mixture. The gully emptiers remove the mixture containing grit, soil, stones and other ballast substances from sewage shafts or various sedimentation tanks. The mixture is transported to SOTV installed usually in waste water treatment plants to be separated.

The separator is located in a concrete pit to allow complete filling from the ground level. The mixture is poured to the separator either by tipping of the vehicle tank or by pumping.

ISO 9001

Specification	
Tank volume: V	8 or 10 m^3
Diameter of conveyor screw: øD	400 mm
Power input of screw drive:	5.5 kW; 400 V / 50 Hz
Power input of pump:	2.4 kW; 400 V / 50 Hz
Pump throughput:	10 $l.s^{-1}$ at 0.4 bar
Mesh size of protective grate:	100 × 100 mm
Wash water supply:	up to 10 $l.s^{-1}$ at 0.3 ÷ 0.6 MPa
Power input of heating:	2.94 kW; 230 V / 50 Hz
Unloading time of a gully emptier with a 7 m^3 tank volume:	5 ÷ 20 min
Other parameter ranges need to be consulted with the manufacturer.	

Product identification: **SOTV øD - V**

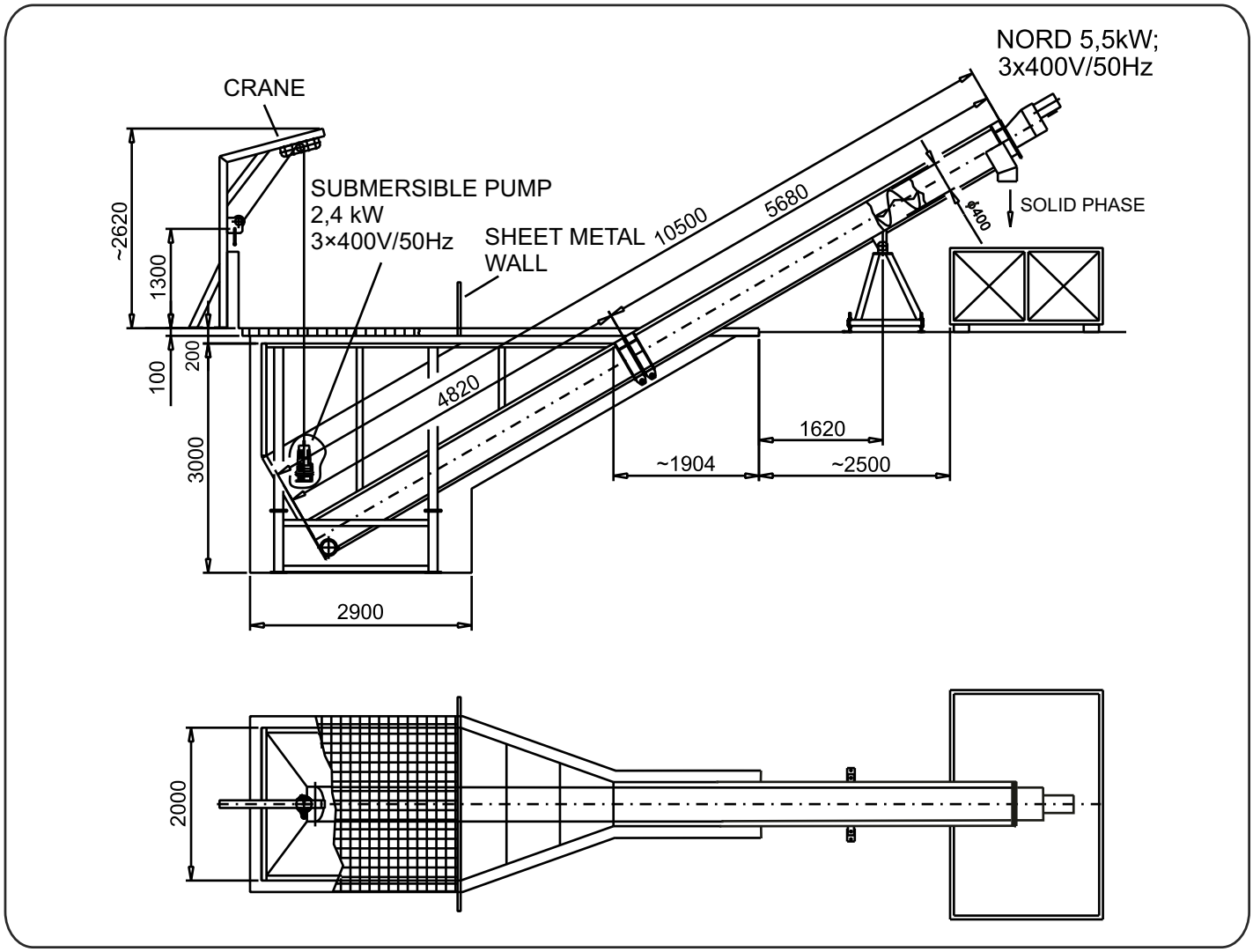
SOTV accessories include a submersible pump suspended on a manual crane, and a washing device. SOTV requires pressure water supply.

The top of the separator tank in functional shape is protected by a grate and is discharged by means of an inclined trough above the level of the grate. End of the trough is equipped by a discharge chute, which vertical position allows positioning and handling of the container. The trough accommodates massive shaftless conveyor screw driven by an electric drive controlled by a frequency converter.

The separation of water from solid substances is based on settling of the solid phase at the bottom of the separator tank. Rotation of the conveyor screw transfers the settled portion of the mixture up the trough to the discharge chute and to the container. Water from the hydro-mixture and light floating particles are discharged over a weir or pumped by a mobile submersible pump for further treatment at the WWTP.

Control panel is delivered to control the SOTV. It allows manual control of all functions (conveyor screw movement forward and backward, wash water supply) and switching to manual mode; it also ensures heating of the equipment in winter conditions. The automatic mode controls the conveyor screw operation, its reverse operation in the case of overloading and switching of the separator to washing mode. Washing of grit carried out by conveyor screw cycles at higher revolutions is a process that reduces the content of organic particles in the separated grit.

SEPARATOR OF GULLY EMPTIER CONTENT (SOTV)



The whole equipment including the protective grid is made of stainless steels with the exception of the conveyor screw and its guide bars which are made of high-strength wear resistant carbon steel. External surface is painted.

For outdoor use, the separator is equipped with heating, thermostat and a control panel on a support with a shed.

The manufacturer provides drawings of the concrete pit and wash water supply requirements for each particular business case.

To achieve an optimum incorporation of the equipment in the technological section of waste water treatment plants, *FONTANA R* offers consultations and technical support as a free customer service.

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