



# ITT

## ROBOT PUMPS

### Turbotex Pump

### RT6050LI

### 50 Hz

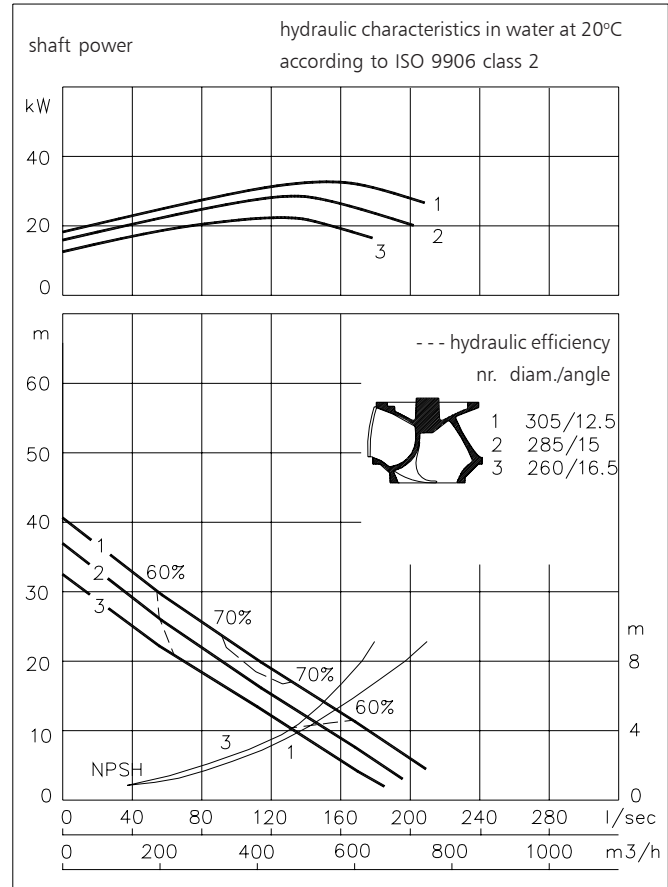
Turbotex pumps are auto cleaning solids handling pumps. The impeller leading edge is almost parallel with the direction of the flow and leads into the impeller passage. Turbotex pumps are first choice for raw unscreened sewage as well as for lightly contaminated liquids.

#### Pump

solids passage : 125 mm  
 suction diameter : 200 mm  
 discharge diameter : 200 mm  
 impeller diameter : 305- 260 mm  
 recommended minimum flow : 23 l/s (84 m<sup>3</sup>/h)

#### Motor

rated shaft power : 34.0 kW  
 rated electrical power : 39.5 kW  
 mains : 50 Hz - 3 phase  
 nominal speed : 1450 rpm  
 motor efficiency : 86%  
 rated power factor (cos phi) : 0.86  
 degree of protection : IP 68  
 isolation class : H (180 °C)  
 max. water temperature : 40 °C  
 (higher temp. on request)  
 standard cable length : 10 m



#### Materials

motor housing : 1  
 seal housing : 1  
 volute : 1 5  
 impeller : 2 5 7  
 shaft : 3 5  
 bolts : 4 5  
 cooling jacket : 4 5  
 elastomers : 8+9 10  
 electrical cable : 9  
 seal lubrication : oil  
 pump seal : silicon carbide-silicon carbide - viton  
 motor seal : carbon - ceramic  
 primer : Alkyd primer  
 top coating : Two component high-build polyurethane coating

1	cast iron	EN-GJL-250
2	sg cast iron	EN-GJS-400-15
3	stainless steel 431	X20 CrNi 17 2
4	stainless steel 304	X5 CrNi 18 10
5	stainless steel 316	X5 CrNiMo 17 12 2
6	stainless steel 329	X4 CrNiMoN 27 5 2
7	wear resistant sg iron	HB 500
8	nitrile	(NBR)
9	neoprene	(CR)
10	viton	(FPM)

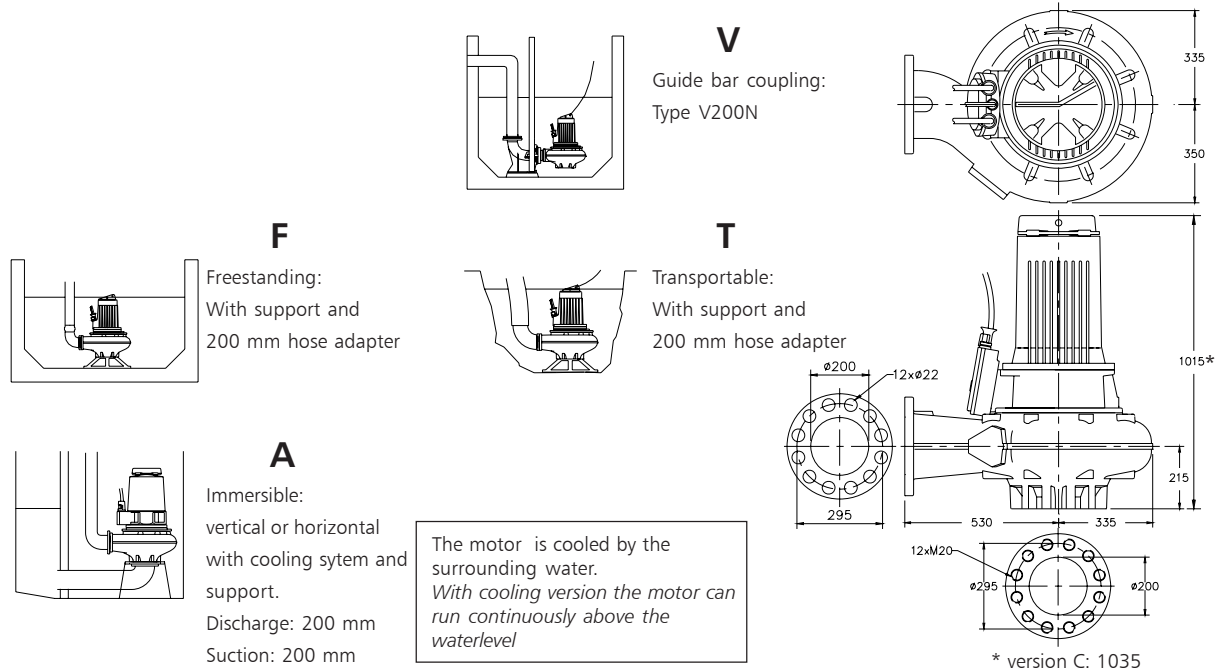
[www.robotpumps.com](http://www.robotpumps.com)

*Engineered for life*



### Installation options

### RT6050LI



### Versions

#### B Basic

Standard with thermostats

### Weight:

400 kg

#### E Explosion proof version

Certified according to: II 2 G Ex de IIB c T4  
Standard with 2 sets of thermostats.

400 kg

#### C Version with cooling system

Standard with thermostats  
Internal or external circulation  
(external cooling water min. flow 0.4 l/s)

405 kg

#### EC Explosion proof version with cooling system

Certified according to: II 2 G Ex de IIB c T4

405 kg

### Optional:

**Flexible protective sheathing for cable**  
(AISI 316)

**Water detector in motor and oil housing**  
(for explosion proof version only in oil housing with external cable)

### Motor connection details

voltage [V]*	rated current[A]	number of cables x number of cores x cross section [mm <sup>2</sup> ]			
		DOL-start		explosion proof version	
		DOL-start	YD-start	DOL-start	YD-start
380	69.8	-	2x4x16 + 1x4x2.5	-	2x4x16 + 1x4x2.5
400	66.4	1x4x16 + 1x4x2.5	2x4x16 + 1x4x2.5	1x4x16 + 1x4x2.5	2x4x16 + 1x4x2.5
415	64.0	1x4x16 + 1x4x2.5	2x4x16 + 1x4x2.5	1x4x16 + 1x4x2.5	2x4x16 + 1x4x2.5
500	53.1	1x4x16 + 1x4x2.5	2x4x6 + 1x4x2.5	1x4x16 + 1x4x2.5	2x4x6 + 1x4x2.5

starting current DOL start

: 4.5 x rated current

\*other voltages on request

starting current YD-start

: 1.5 x rated current

We reserve the right to alter specifications without prior notice.