



ITT

ROBOT PUMPS

Turbotex Pump

RT6040FR

50 Hz

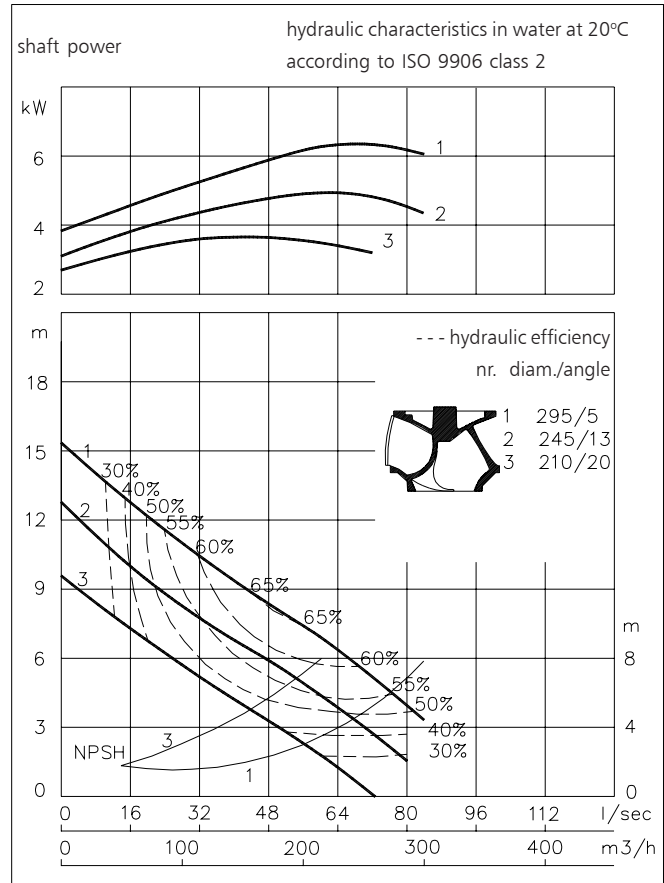
Turbotex pumps are auto cleaning solids handling pumps. The impeller leading edge is almost parallel with the direction of the flow and leads into the impeller passage. Turbotex pumps are first choice for raw unscreened sewage as well as for lightly contaminated liquids.

Pump

solids passage : 110 mm
 suction diameter : 200 mm
 discharge diameter : 150 mm
 impeller diameter : 295 - 210 mm
 recommended minimum flow : 13 l/s (47 m³/h)

Motor

rated shaft power : 9.0 kW
 rated electrical power : 10.7 kW
 mains : 50 Hz - 3 phase
 nominal speed : 960 rpm
 motor efficiency : 84%
 rated power factor (cos phi) : 0.87
 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
 impeller : 2 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)

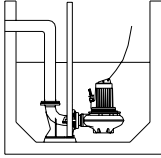
www.robotpumps.com

Engineered for life

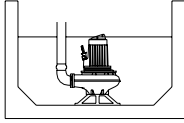


Installation options

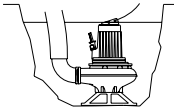
RT6040FR



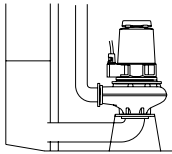
V
Guide bar coupling:
Type V150N



F
Freestanding:
With support and
150 mm hose adapter

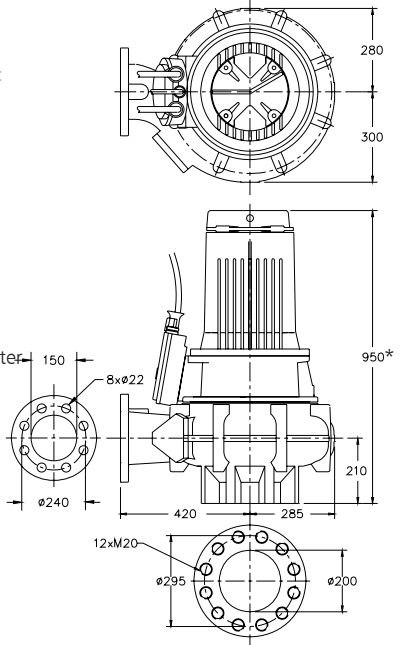


T
Transportable:
With support and
150 mm hose adapter



A
Immersible:
vertical or horizontal
with cooling system and
support.
Discharge: 150 mm
Suction: 200 mm

The motor is cooled by the surrounding water.
With cooling version the motor can run continuously above the waterlevel



* version C: 970

Versions

Weight:

Optional:

B Basic

Standard with thermostats

330 kg

Flexible protective sheathing for cable
(AISI 316)

E Explosion proof version

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

330 kg

Water detector in motor and oil housing

(for explosion proof version only in oil housing with external cable)

C Version with cooling system

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

336 kg

EC Explosion proof version with cooling system

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

336 kg

Motor connection details

		number of cables x number of cores x cross section [mm ²]					
voltage [V]*	rated current[A]			explosion proof version			
		DOL-start	YD-start	DOL- start	YD-start		
220	32.3	1x4x6 + 1x4x2.5	1x7x2.5 + 1x4x2.5	1x4x6 + 1x4x2.5	1x7x2.5 + 1x4x2.5		
380	18.7	1x7x2.5	1x7x1.5 + 1x4x2.5	1x7x2.5	1x7x2.5 + 1x4x2.5		
400	17.8	1x7x2.5	1x7x1.5 + 1x4x2.5	1x7x2.5	1x7x2.5 + 1x4x2.5		
415	17.1	1x7x2.5	1x7x1.5 + 1x4x2.5	1x7x2.5	1x7x2.5 + 1x4x2.5		
500	14.2	1x7x2.5	1x7x1.5 + 1x4x2.5	1x7x2.5	1x7x2.5 + 1x4x2.5		

starting current DOL start

: 5.1 x rated current

*other voltages on request

starting current YD-start

: 1.7 x rated current

We reserve the right to alter specifications without prior notice.