

**End-suction NORM type pumps:**

Turbo-Norm series range of pumps are manufactured fully complying to the international standard EN 733 and EN 22858. The standard covers both performance and dimensions. DIN 24256 standard pumps are also available.

The pump includes single and double stages as well as with heavy duty bearing constructions. Norm pumps are also available in vertical arrangement and back pull-out design for simple and quick maintenance.

Capacity (m <sup>3</sup> /h)	14 - 3100
Head (mWc)	5 - 90 (1500 rpm)
Discharge size (mm)	Ø32 - 500



**Split-case CEP type pumps:**

It is designed as axially split case, single stage, double suction. Available in horizontal and vertical configuration and direction of rotation to suit pump station layout.

Split-case pumps are installed in the pulp and paper mills, in water and sewage works, in the power plants, in the cooling water systems and Iron & steel works.

There are many versions of basic design.

Capacity (m <sup>3</sup> /h)	30 - 9500
Head (mWc)	10 - 180
Discharge size (mm)	Ø65 - 700



**Multi stage - KAT type pumps:**

KAT series pumps are for medium and high pressure applications. Horizontal centrifugal with impellers mounted on an extended shaft, side suction, top delivery with position interchangeability option.

KAT series pump are manufactured with soft packing as a standart, mechanical seal is available optionally.

Capacity (m <sup>3</sup> /h)	15 - 500
Head (mWc)	20 - 350
Discharge size (mm)	Ø50 - 200



**Mixed (K) and axial (E) flow EKS - DAC E/K type pumps:**

Vertical axial and mixed flow pumps with high flow rates and low delivery heads for drainage and irrigation systems c/w column pipe (EKS type) are also available in submersible version (DAC E/K type). Submersible pumps are installed by lowering into steel-tube enclosures or concrete cells thus ensuring low initial costs.

	EKS-E/K	DAC-E/K
Capacity (m <sup>3</sup> /h)	300 - 10000	300 - 2500
Head (mWc)	1 - 60	3 - 18
Tube size (mm)	200 - 1200	Ø700 - 1400



**CAP series sewage and waste water pumps:**

CAP series consist of centrifugal sewage and waste water pumps.

They are used for pumping muddy liquids like sewage and other solid-water mixture with high viscosity. They are available in different mounting arrangements;

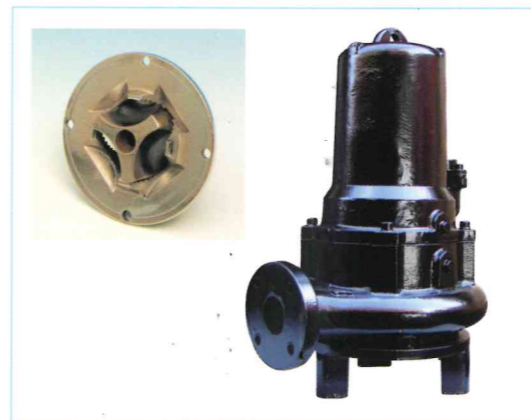
- Horizontal dry-pit (HK)
- Vertical dry-pit mono block (VM)
- Vertical wet-pit with suspension pipe (VY)
- Vertical dry-pit with universal shaft drive (VS)



**PARPO type, submersible pump with grinder blade:**

Turbosan grinder pumps are ideal for residential, commercial and resort applications offering significant pipe cost saving. 50 Hz 400V and single mechanical seal as standard. 60 Hz and different voltages available on request.

Capacity (m <sup>3</sup> /h)	3 - 40500
Head (mWc)	3 - 42
Power (kW)	1.5 - 4
Discharge size (mm)	Ø40 and 50



**DAS/DAC-S type submersible pumps:**

They are designed to operate under water. DAS series have single, DAC-S series double mechanical seals. DAS/DAC-S series pumps have 2 different installation form;

- Automatic coupling system (with duck foot bend)
- Vertical free standing hose connection

The standard electric specification is 50 Hz 400 V, 60 Hz and the different voltages are available upon request.

	DAS	DAC
Capacity (m <sup>3</sup> /h)	300	3000
Head (mWc)	4 - 40	5 - 60
Power (kW)	1.5 - 11	15 - 400
Discharge size (mm)	Ø50 - 150	Ø80 - 500
Solid size (mm)	Ø35 - 120	Ø40 - 200



**DAC-SC/Y type submersible pumps:**

Turbosan submersible waste water pumps have also two different types for dry pit and wet installations;

1. DAC-SC pumps: Around the motor of the submersible pump a cooling jacket is fitted.
2. DAC-Y pumps: Submersible pump motor cooled by oil which fill the motor casing and circulates in motor & stator windings.

The standard electric specification is 50 Hz 400 V, 60 Hz and the different voltages are available upon request.

Capacity (m <sup>3</sup> /h)	10 - 3000
Head (mWc)	5 - 85
Power (kW)	15 - 400
Discharge size (mm)	Ø50 - 500
Solid size (mm)	Ø40 - 200

