

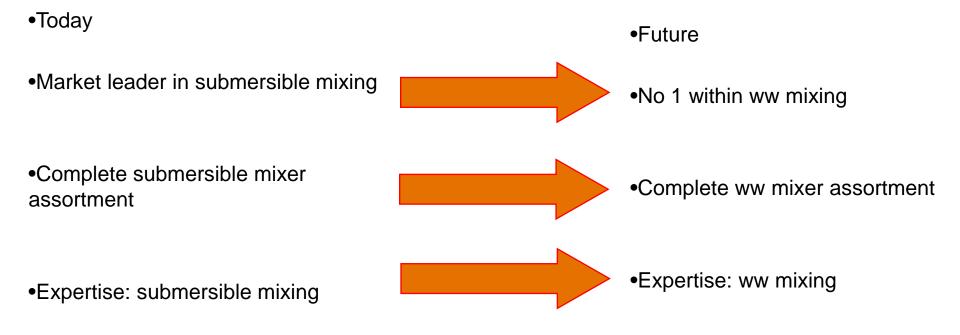
Flygt Top-Entry Agitators



SY4850 - SY4860 - SY4870 Flygt Top Entry Agitators

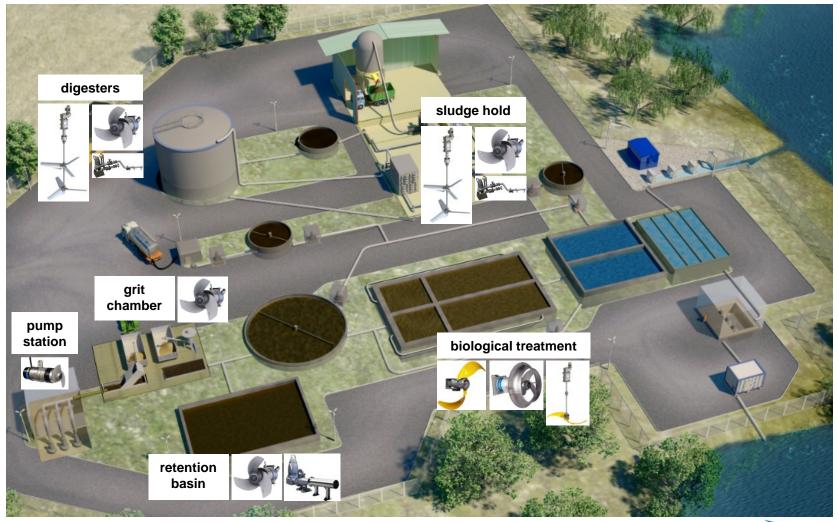


Position today vs the future



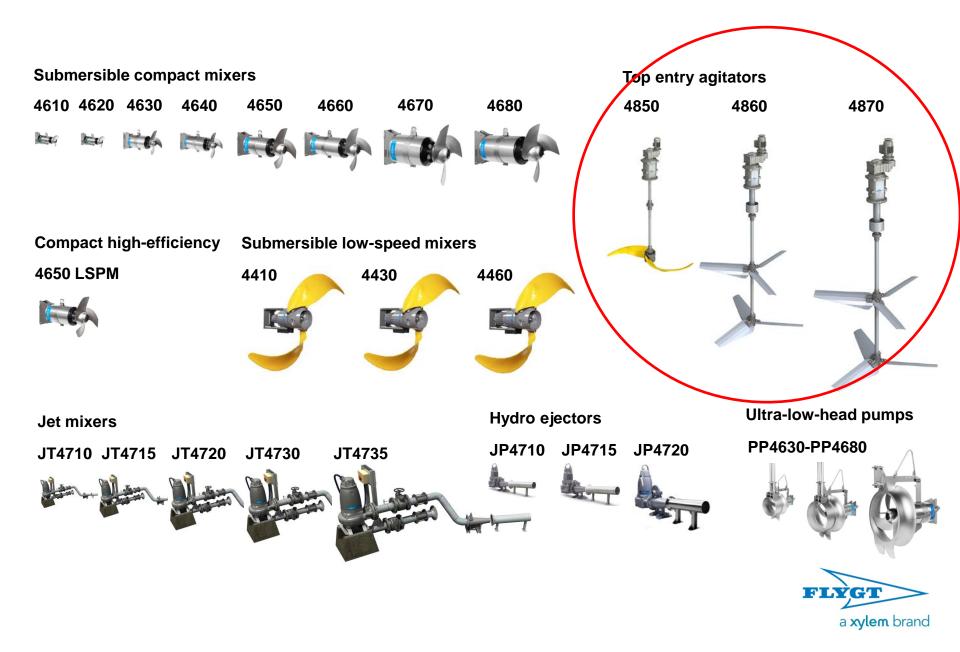


Mixers in wastewater treatment





www.motralec.com / service-commercial@motralec.com / 01.39.97.65.10 The Flygt mixer and agitator range



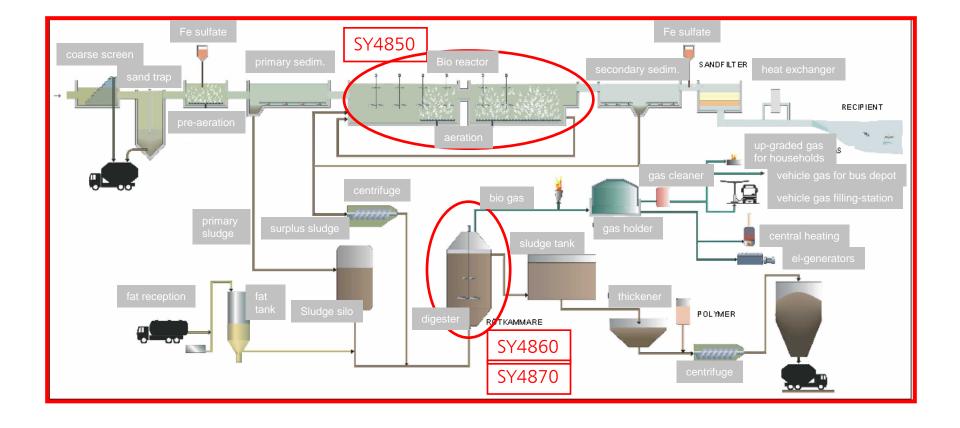
Why Top Entry Agitator

•Hygienical reason (HSE) Insignificant environmental impact •Very low power consumption (1-2W/m3) •Very long operational life span (20 years) •Maximum uptime •Very low Life Cycle Cost •Easy to maintain (once a year) •All service points above the water line •All wetted parts made of high alloy steel •Insignificant wear – Fewer spares •Huge agitated volume with one (1) agitator •Keeps the entire volume homogeneous •Good gas production Prevents or breaks surface crust Prevents sedimentation Prevents stratification





TEA for WWTP

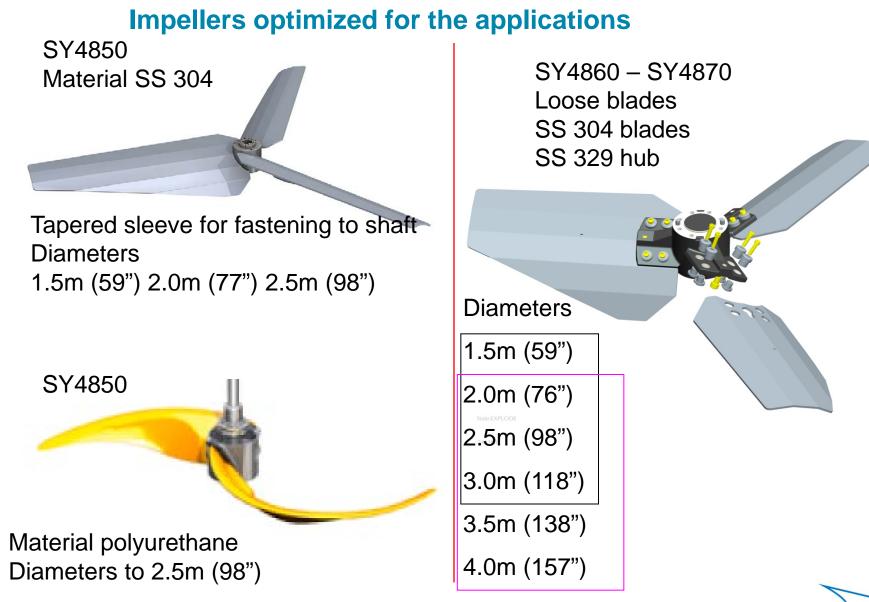




Technical range

Model	SY4850	SY4860	SY4870
Application	Secondary treatment	municipal digester	municipal digester
Installed Electric Power	2,2 to 7,5kW at 50Hz	1,5 to 4kW at 50Hz	5,5 to 15kW at 50Hz
	2,6 to 9kW at 60Hz	1,8 to 4,8kW at 60Hz	6,6 to 18kW at 60Hz
Speed	18 to 44 rpm at 50Hz	10 to 24 rpm at 50Hz	12 to 23 rpm at 50Hz
	22 to 59 rpm at 60Hz	12 to 29 rpm at 60Hz	14 to 28 rpm at 60Hz
Thrust	~6000N	~6000N	~13500N
Impellers	2,5m banana blade	3-bladed 1.5m to 3.0m	3-bladed 2.0m to 4.0m
	3-bladed steel 1.5m; 2.0m; 2.5m	loose steel blades	loose steel blades
Working volumes	ox/anox channels (denitrification)	ap. 2000m3	ap. 5000m3
ATEX approval	No	Yes	Yes
Accessories	Bottom support	Shaft stabilizer	Shaft stabilizer
		Leveling flange	Leveling flange

a xylem brand





Biest-Houtakker

The Netherlands Secondary treatment Anaerobe zone







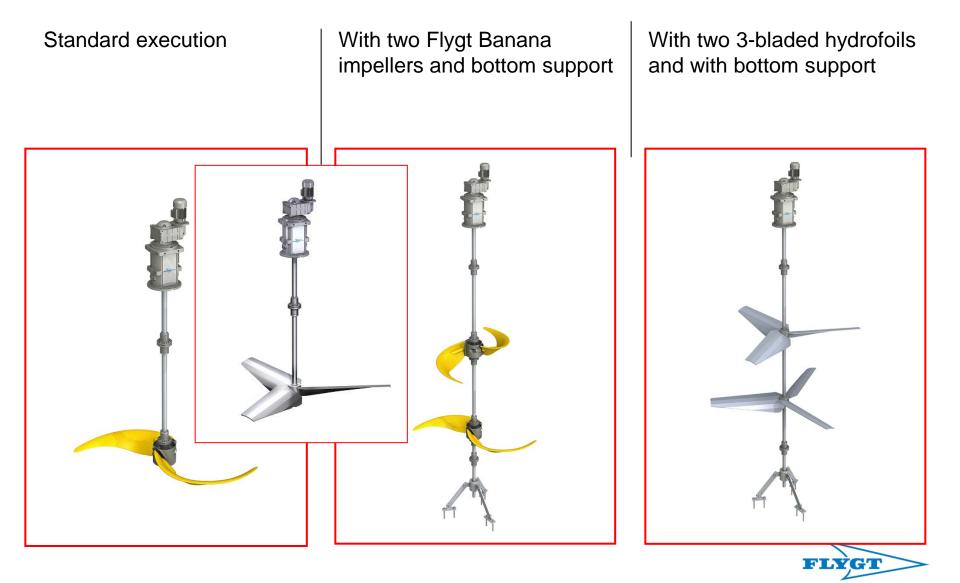




Flygt top entry agitators

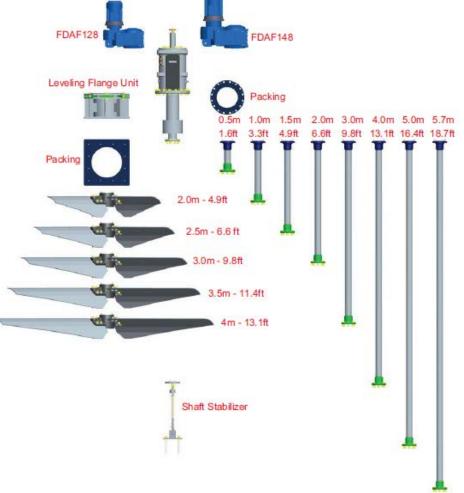


SY4850 Agitators

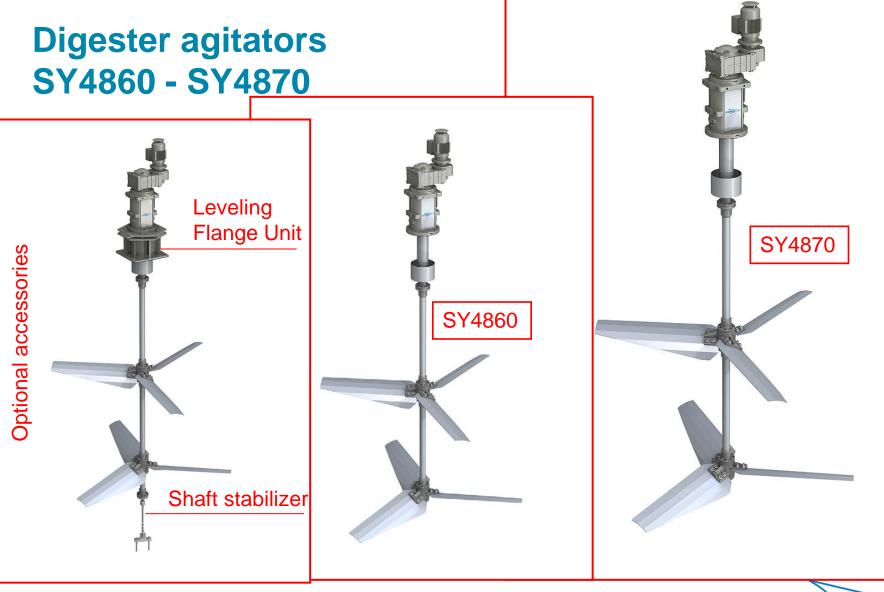


a xylem brand

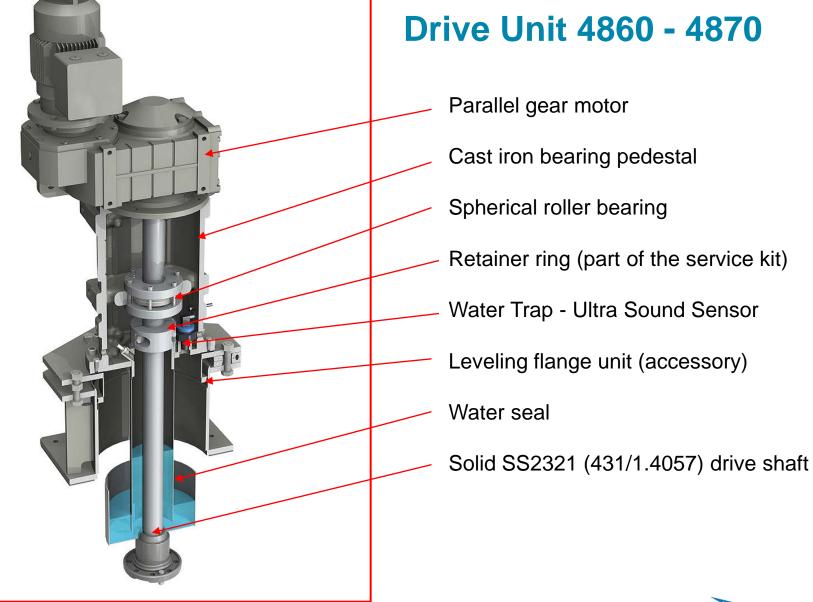
www.motralec.com / service-commercial@motralec.com / 01.39.97.65.10 4870 Modular details





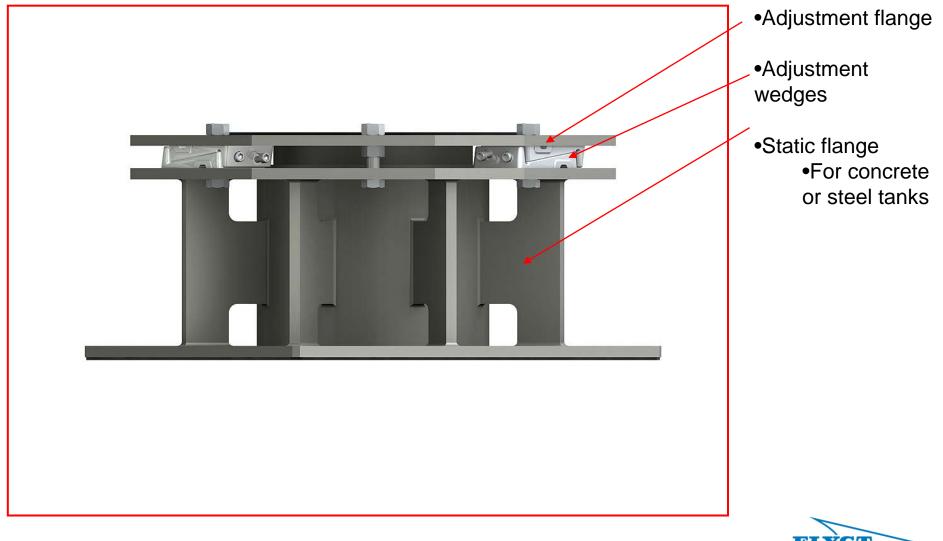






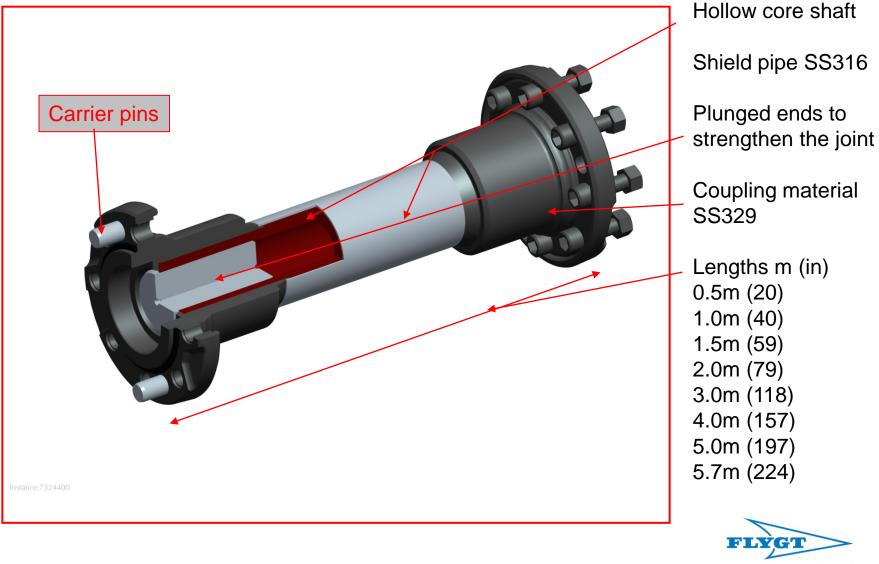


Leveling Flange Unit (4860 – 4870)





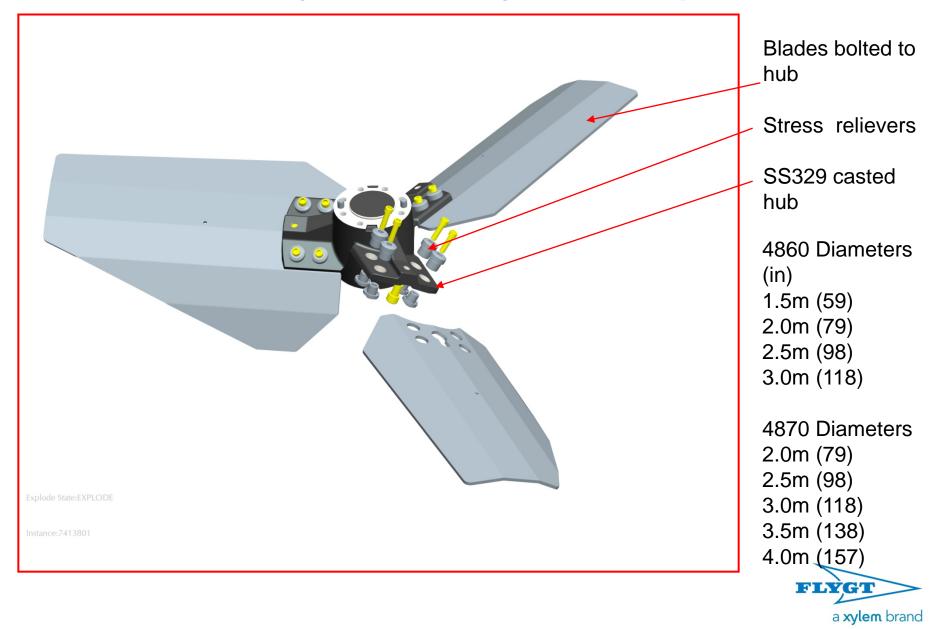
4860 – 4870 Agitator shaft



a xylem brand

www.motralec.com / service-commercial@motralec.com / 01.39.97.65.10

Bolted assembly 3-bladed hydrofoil impeller



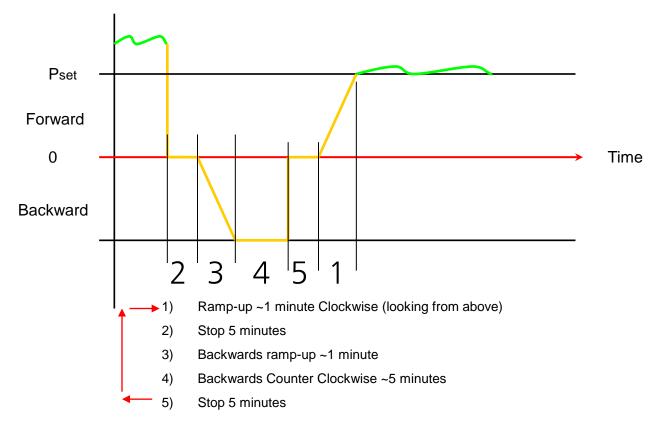


a xylem brand

TEA PS200 Ramp-up and Cleaning sequence

To smoothly ramp-up agitators in operation.

Integrated logic that monitors for increased power consumption (blockage of impeller) Agitator automatically stops, runs in reverse rotation to remove blockage

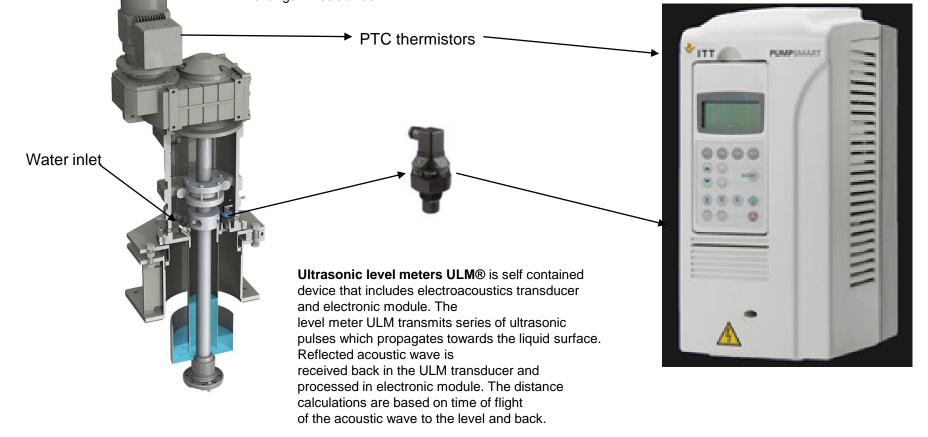






TEA VFD

PTC thermistors is the most comprehensive protection against overloading of the motor is provided by PTC thermistors installed in the motor winding. The temperature of the can be accurately monitored thanks to its low heating capacity and excellent heat contact with the winding. When limited temperature is reached (rated tripping temperature) the PTC thermistors undergo a step change in resistance





TEA PS200

The unique torque control makes the PS200 unique for controlling any mixer or agitator.

This algorithm sense the variation in load on the impeller, and makes it possible to monitor and smoothly control speed, and any cause of over and under load of impeller wings. In combination with level sensor, it will adapt needed speed/load to the application level in the tank.

With the PS 200 you can expect all the advantages of speed regulation and smoothly ramp-up the agitators in operation. It communicates with the PLC and interfaces with different SCADA systems.





- Intelligent agitator steering
 Saves money
 - •Less service calls



Service

Local service network - world-wide



From simply supplying machines, to full service and assistance



15-year spare parts availability guarantee



