



Mixers

Submersible mixers are energy efficient suitable for a wide range of applications in industry and municipal treatment plants. They provide the right solution to match mixing tasks for agitating, blending, mixing, dissolving and suspension of solids in industry and municipal treatment plants. FTP series are incorporated with gear box.

Operating parameters

	FMD Series	FTP Series
Flow	upto 1558m ³ /hr	upto 6702m ³ /hr
No.of Blades	2 & 3	3
Impeller Type	Propeller	Propeller
Axial Force	upto 912 N	upto 3725 N
Maximum Liquid Temperature	upto 40°C	upto 40°C
Service	S1 Duty	S1 Duty
No. of Starts / Per Hour	20	20
Max. immersion depth	20m	20m
pH range	6 to 12	6 to 12
Liquid Viscosity	1 mm ² /s	1 mm ² /s
Liquid Density	1kg/dm ³	1kg/dm ³
Max. Noise level	≤ 70dB	≤ 70dB

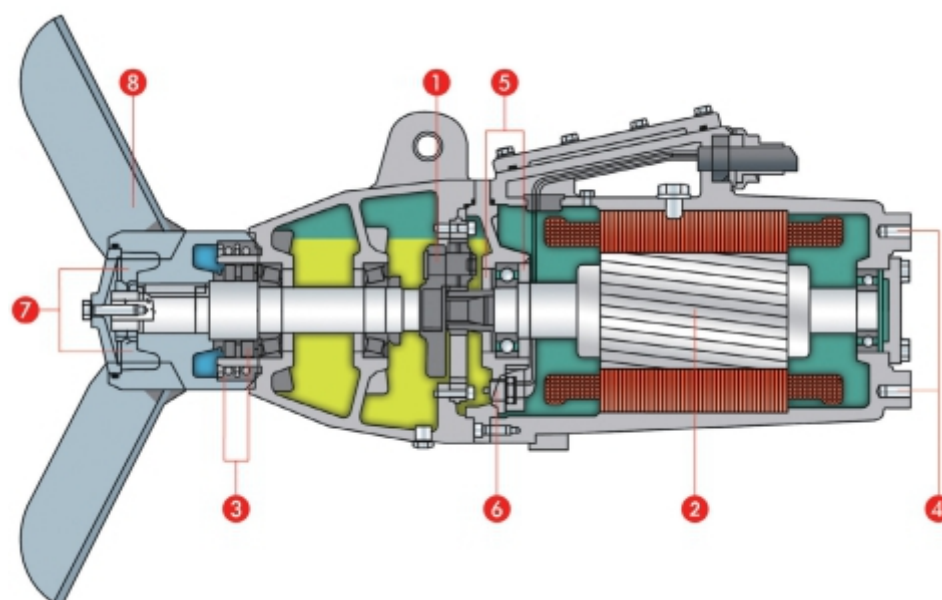
Technical specification

	FMD Series	FTP Series
Power Range	0.8 to 3.4 kW	3 to 18.5kW
Power Supply	380-415V - Three Phase, 50Hz, AC.	380-415V - Three Phase, 50Hz, AC.
Ingress Protection	IP68	IP68
Motor	Dry Type Induction motor	Dry Type Induction motor
Speed	1450 / 960 rpm	250 / 200 rpm
Class of Insulation	H	H
Moisture sensor	# Available	# Available
Thermal Overload Protector	* Available	* Available
Starting Method	Three Phase - DOL & SD	Three Phase - DOL & SD
Shaft Seal	Single / Double Mechanical seal	Single Mechanical seal
Mechanical Seal Face Combination	Silicon Carbide / Silicon Carbide Lip seal	Silicon Carbide / Silicon Carbide Lip seal
Bearing Type	Shielded prelubricated bearing	Shielded prelubricated bearing
Cable Type	HO7RNF	HO7RNF
Standard Cable Length	10m	10m

Material of Construction

	FMD Series	FTP Series
Propeller	Stainless Steel 316L	Stainless Steel 316L
Motor Housing	Cast iron EN-GJL-260	Cast iron EN-GJL-260
Shaft	Stainless Steel X30 Cr13 (AISI 420)	Stainless Steel X30 Cr13 (AISI 420)
Fasteners	Stainless Steel A2 (AISI 304)	Stainless Steel A2 (AISI 304)

Cross Section Drawing



1. Long-life planetary transmission in big-volume oil chamber with inspection screw
2. Pressure tight sealed motor.
3. Bearing
4. Galvanic separation of motor housing and motor bracket prevents galvanic corrosion
5. Shaft seal motor housing: lip seal protection with mechanical seal
6. Moisture sensor
7. Propeller shaft seals.
Two level sealing system for optimum protection:
- 2 lip seals in the propeller hub
- silicon carbide mechanical seal on propeller shaft.
Provides optimum protection against seeping liquid
8. Hydraulically optimized self-cleaning propeller

PRODUCTS IDENTIFICATION CODE

F	XX	08	-	4	/	230.2
• FIPS PRODUCTION	• SERIES NAME MD - DIRECT TRANSMISSION MIXER TP - MIXER WITH GEAR BOX	• P2 MOTOR NOMINAL POWER		• NO. OF POLES (MOTOR SPEED)		• IMPELLER DIAMETER

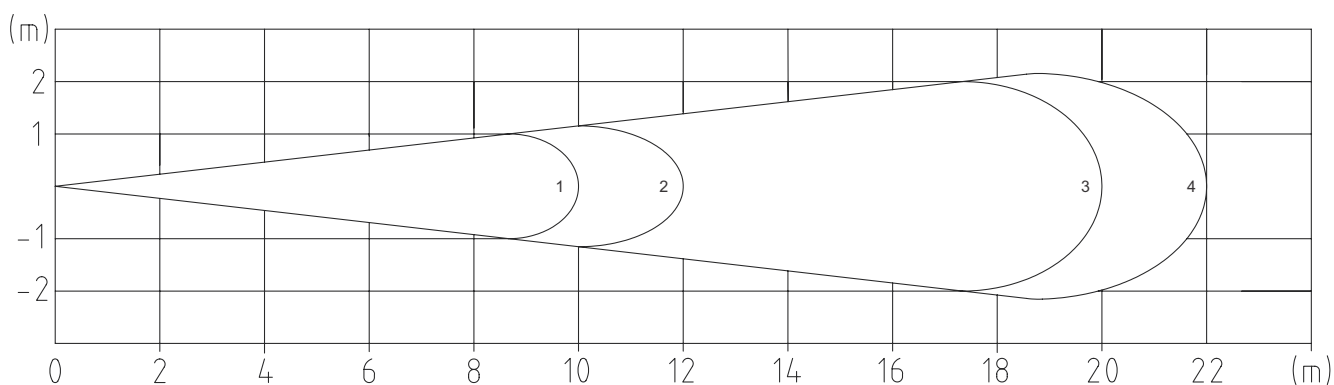
Performance curve tolerances are as per HI : 14.6 / ISO : 9906, Grade - 2B.
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.



FMD series - Mixer with Direct Transmission



PERFORMANCE CURVES



PERFORMANCE TABLE									
No	Model - Type	P1 kW	P2 kW	Volt	Amp	Giri rpm	Pale - Blades	Spinta assiale - Axial force N	Portata - Flow m³/h
1	FMD 08-4/230.2*#	1.1	0.8	400	2.8	1450	3	152	320
2	FMD 12-4/231.2*#	1.7	1.2	400	3.6	1450	3	210	372
3	FMD 26-4/243.2*#	3.4	2.6	400	6.2	1450	2	404	1275
4	FMD 30-4/254.2*#	4.3	3.4	400	7.6	1450	2	912	1558

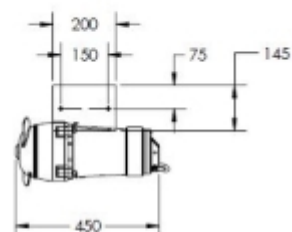
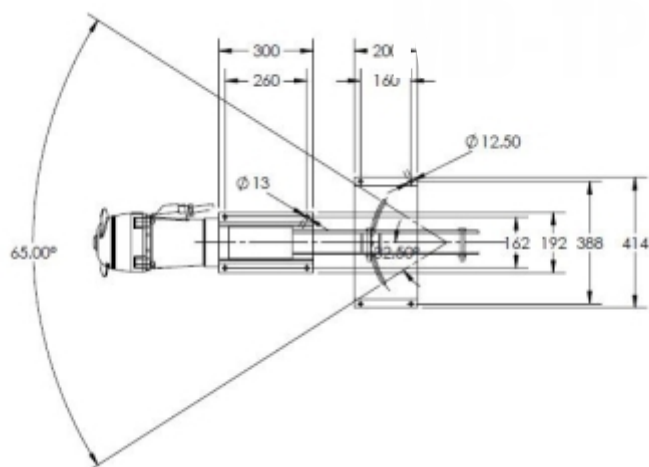
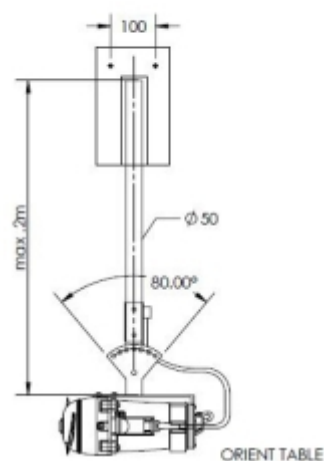
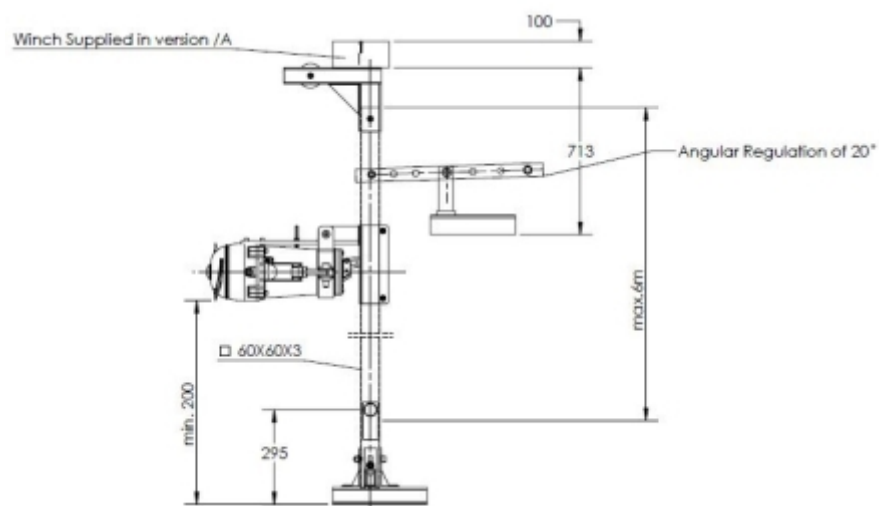
* Inbuilt with TOP / # Moisture sensor available

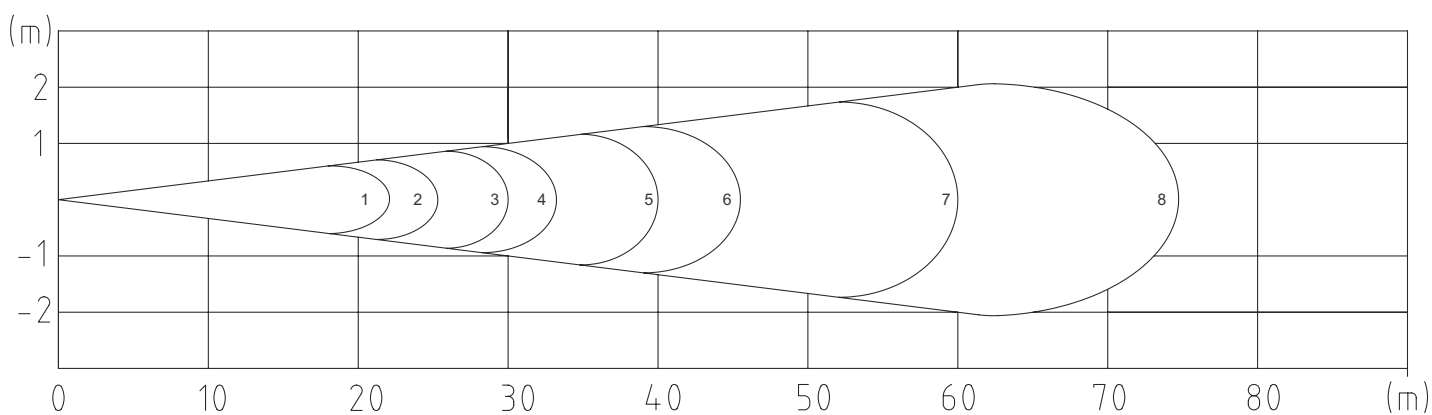
ACCESSORIES DETAILS & IDENTIFICATION CODE			
No	Model - Type	Power Cable	
		No. of Core	Size in Sq.mm
1	FMD 08-4/230.2*#	4C	25
2	FMD 12-4/231.2*#	4C	25
3	FMD 26-4/243.2*#	4C	25
4	FMD 30-4/254.2*#	4C	25

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DIMENSION DRAWINGS



**FTP Series - Mixer with Planetary Gear Box****PERFORMANCE CURVES****PERFORMANCE TABLE**

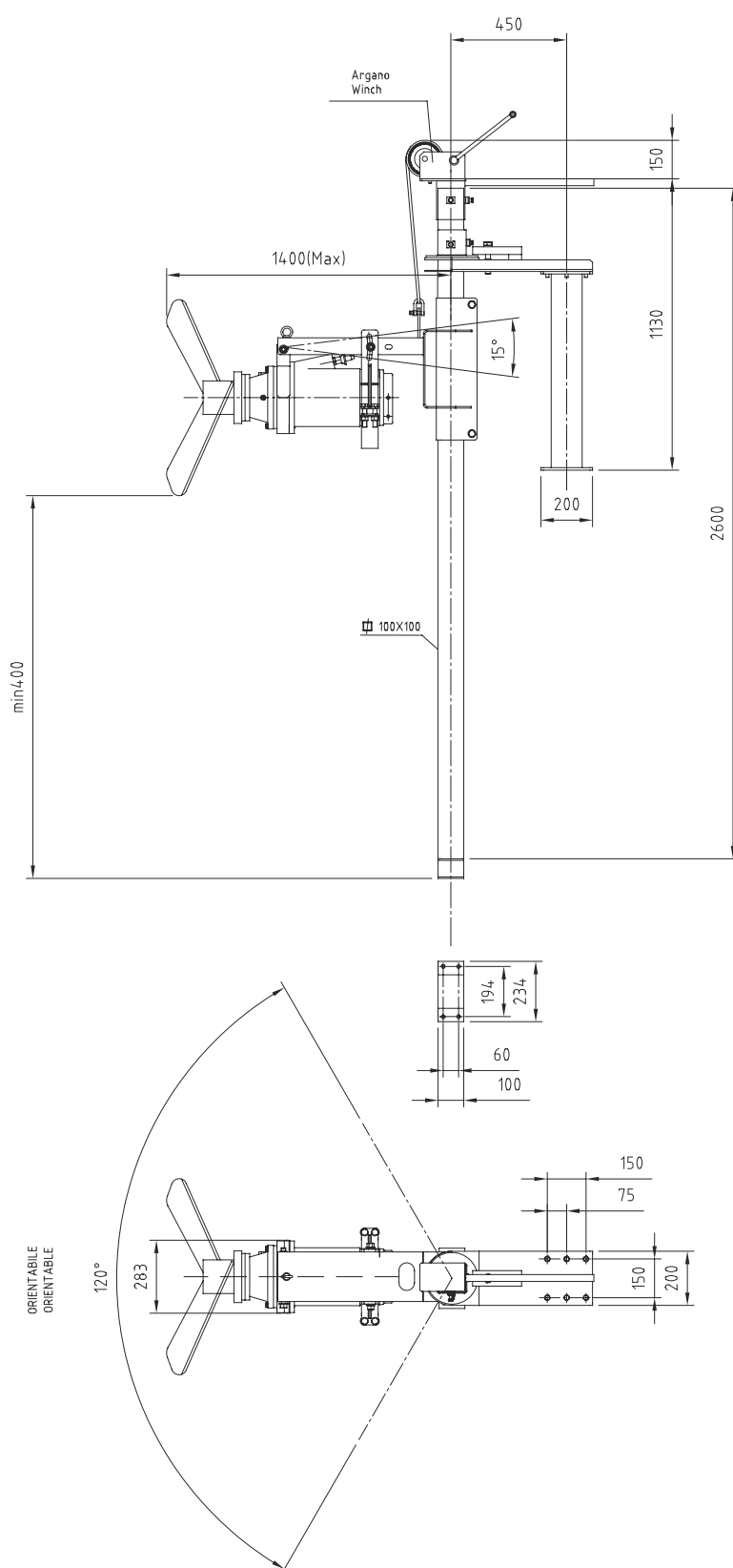
No	Model - Type	P1 kW	P2 kW	Volt	Amp	rpm	Blades	Axial force N	Flow m³/h
1	FTP 30-4/380.3*	3.5	3	400	7,2	250	3	498	1462
2	FTP 40-4/380.3*	4.7	4	400	7,5	250	3	742	2000
3	FTP 55-4/660.3*	6.4	5.5	400	10,8	250	3	800	2162
4	FTP 75-4/660.3*	8.7	7.5	400	15,6	250	3	1131	2821
5	FTP 90-4/660.3*	10.1	9	400	18	200	3	1265	3013
6	FTP 110-4/800.3*	12.5	11	400	23	200	3	1475	3286
7	FTP 150-4/800.3*	16.7	15	400	30	200	3	2859	5489
8	FTP 185-4/800.3*	21	18.5	400	36	200	3	3725	6702

* Inbuilt with TOP

Performance curve tolerances are as per HI : 14.6 / ISO : 9906, Grade - 2B.
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DIMENSION DRAWINGS



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