ZENIT

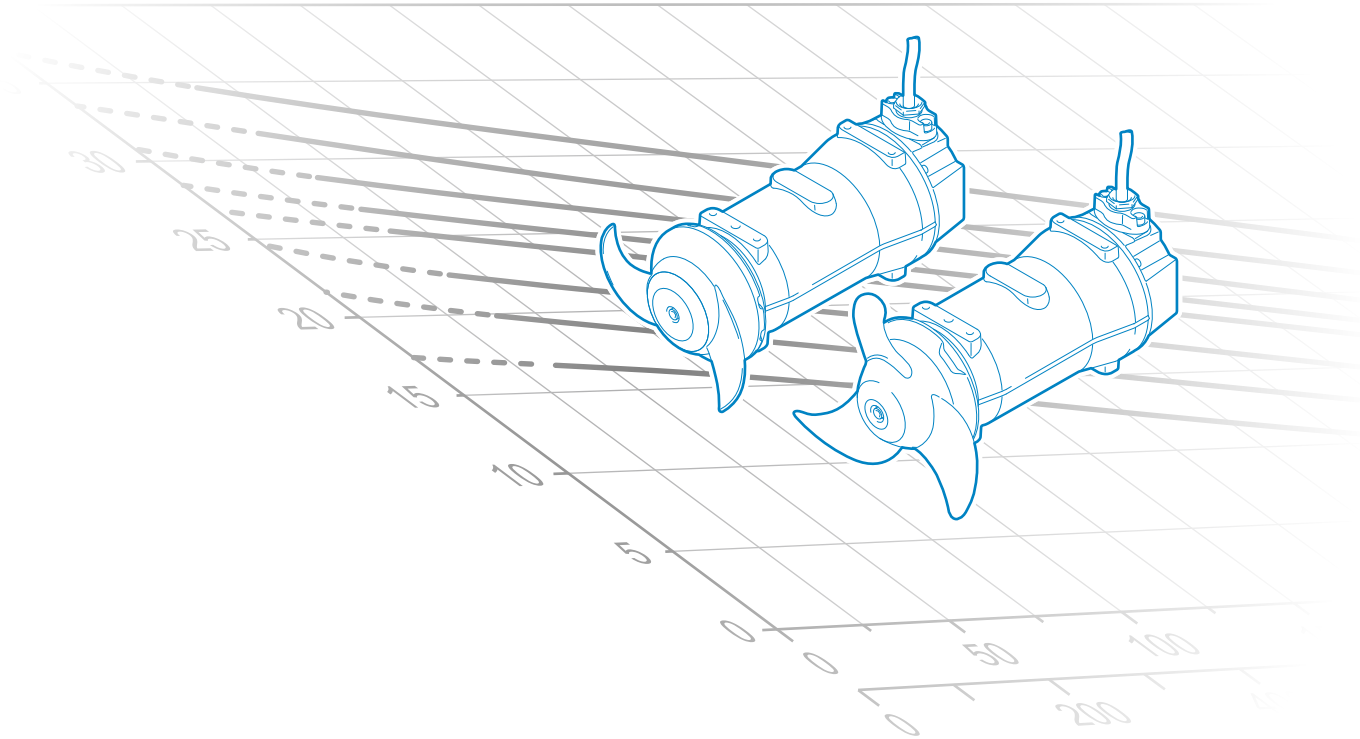
BEDU POMPEN

better together

50Hz

ZMX series

ZMXD



D A T A B O O K L E T

EN

BEDU POMPEN

ZENIT

better together

ZMX Series

ZMXD

50Hz

D A T A B O O K L E T

ZMX Series

General characteristics

- Innovative cable gland system with cable holder. The universal thread ring-nut can be removed to fix a rigid or flexible duct to the cable gland to protect the cable from physical and mechanical stresses.
- Two silicon carbide (SiC) mechanical seals protected inside a large, inspectable oil chamber
- Cast AISI 316 stainless steel propeller, designed with specially shaped blades to ensure high hydraulic efficiency and prevent fouling with filaments and solids. Extra thick for ruggedness and reliability even in heavy-duty conditions.
- Ball bearings with lifetime lubrication designed to guarantee 100,000 working hours.
- Wide range of rugged stainless steel accessories for optimal installation in relation to the system layout and when replacing existing devices.
- Cast stainless steel AISI 316 motor body.

Available models

ZMXD

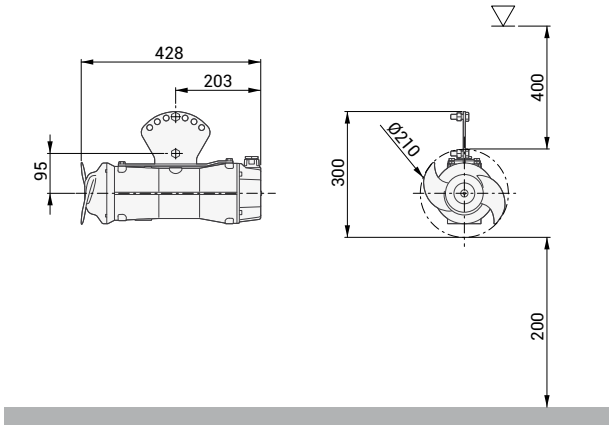
- 4 poles motor with DIRECT TRANSMISSION
- Motor power 0.75 - 1.1 kW
- Propeller Ø 200 mm

Key to product code

ZM	XD	020A	A	1.1/4	H	A	010
①	②	③	④	⑤	⑥	⑦	⑧	⑨

① Designation
② Transmission type
D = Direct
③ R = With reduction gear
④ Type of propeller
Flow ring version
⑤ Motor power (kW)
⑥ Poles
⑦ Motor efficiency and version
⑧ Dimensions of electromechanical assembly
⑨ Reduction ratio

ZMXD 020A A 0.75/4 HA 010



kg 23 Kg (stand and guiding system excluded)

Product

Type	MIXER
Name	ZMXD 020A A 0.75/4 HA 010
Configured	-
Standard	CE
ATEX marking	-

Motor

Rated Voltage	400 V
Frequency	50 Hz
Motor phases	3
Number of poles	4
Incoming power P2	0.75 kW
Electric power P1	1.0kW
Rated current	2.0 A
rpm	1396 rpm
Efficiency	76%
Cos φ	0.719
Rated torque	5.1 Nm
Start	DOL
Starting current	8.7 A
Starting torque	11.9 Nm
Degree of protection	IP 68
Insulation class	H
Motor efficiency class ref.	

Gear unit

Type	-
Gear ratio	1

Propeller

Name	020A
Rated diameter	200 mm
Number of blades	2
rpm	1396 rpm
Pp2	0.48 kW
Propeller thrust	155 N
Jet ring	-

Cable

Type	4G1.5
Length	10 m

Monitoring

Thermal protector	-
Leakage sensor	-

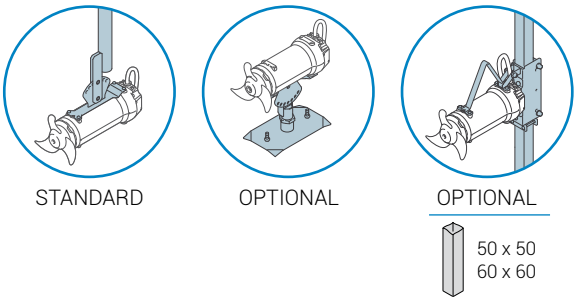
Operating limits

Ambient temperature	0 ÷ 40°C
Max. density treated liquid	1100 Kg/m^3
pH treated liquid	3-14
Max. start per hour	20 /h (equally distributed)
Max. acoustic pressure level	Max 70 dB (A)
Operating mode	S1 – Continuous use

Construction materials

Case	AISI 316
Gear box	-
Propeller	AISI 316 (optional AISI 329)
Jet ring	-
Shaft	AISI 431
Mechanical seal (motor side)	Silicon carbide
Mechanical seal (propeller side)	Silicon carbide
Painting	Bi-epoxy 200 µm (optional 400 µm)
Screws	Stainless steel A2-70 (optional A4)
Gaskets	NBR
Fixing system	AISI 304 stainless steel (optional AISI 316)

Installation

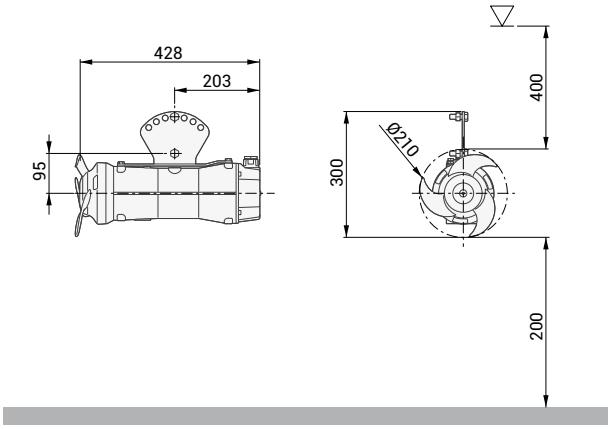


STANDARD | OPTIONAL | OPTIONAL

50 x 50
60 x 60

ZMXD

ZMXD 020B A 1.1/4 HA 010



23 Kg (stand and guiding system excluded)

Product

Type	MIXER
Name	ZMXD 020B A 1.1/4 HA 010
Configured	-
Standard	CE
ATEX marking	-

Motor

Rated Voltage	400 V
Frequency	50 Hz
Motor phases	3
Number of poles	4
Incoming power P2	1.1 kW
Electric power P1	1.5 kW
Rated current	3.0 A
rpm	1380 rpm
Efficiency	75.0%
Cos φ	0.701
Rated torque	7.6 Nm
Start	DOL
Starting current	12.4 A
Starting torque	17.8 Nm
Degree of protection	IP 68
Insulation class	H

Gear unit

Type	-
Gear ratio	1

Propeller

Name	020B
Rated diameter	200 mm
Number of blades	3
rpm	1380 rpm
Pp2	0.95 kW
Propeller thrust	210 N
Jet ring	-

Cable

Type	4G1.5
Length	10 m

Monitoring

Thermal protector	-
Leakage sensor	-

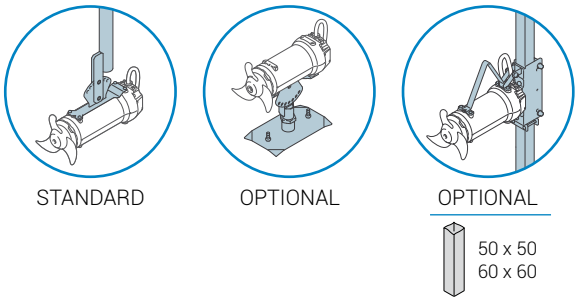
Operating limits

Ambient temperature	0 ÷ 40°C
Max. density treated liquid	1100 Kg/m^3
pH treated liquid	3-14
Max. start per hour	20 /h (equally distributed)
Max. acoustic pressure level	Max 70 dB (A)
Operating mode	S1 – Continuous use

Construction materials

Case	AISI 316
Gear box	-
Propeller	AISI 316 (optional AISI 329)
Jet ring	-
Shaft	AISI 431
Mechanical seal (motor side)	Silicon carbide
Mechanical seal (propeller side)	Silicon carbide
Painting	Bi-epoxy 200 µm (optional 400 µm)
Screws	Stainless steel A2-70 (optional A4)
Gaskets	NBR
Fixing system	AISI 304 stainless steel (optional AISI 316)

Installation



STANDARD | OPTIONAL | OPTIONAL

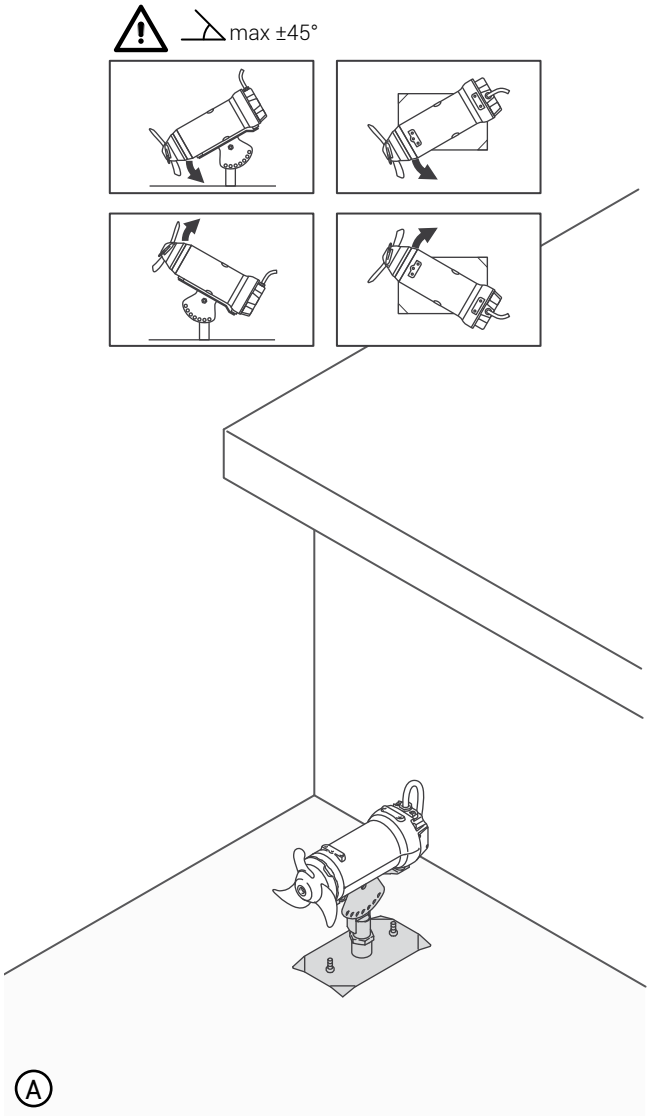
50 x 50
60 x 60

Installations and accessories

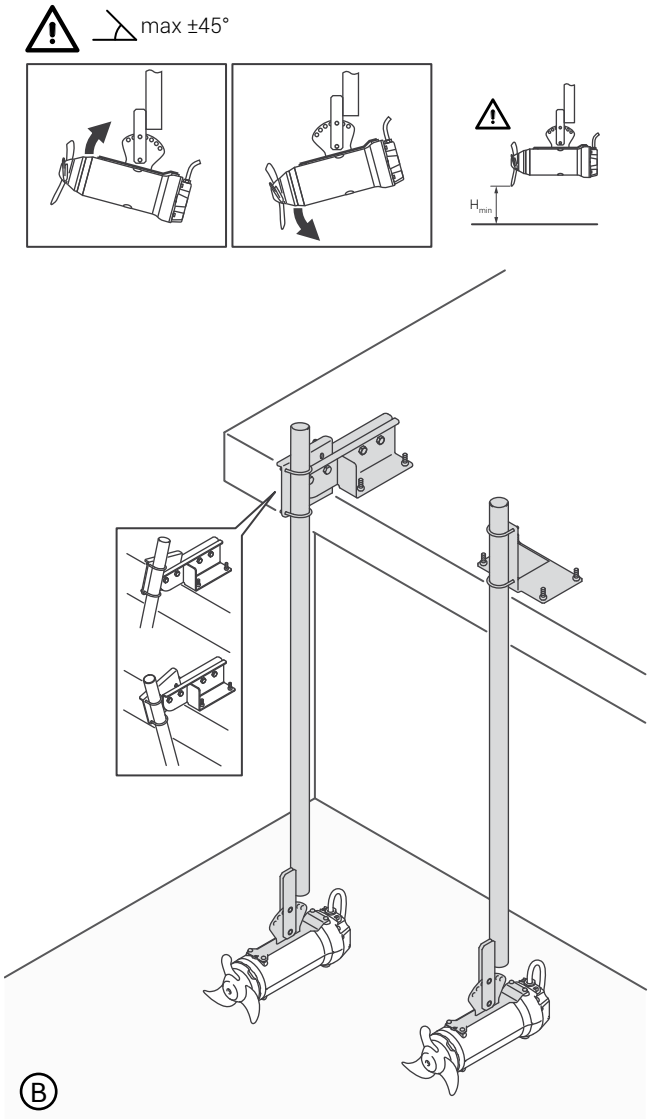
To guarantee top mixer performance, ZENIT has developed a wide range of accessories for adjusting devices' positions in the tank and lifting and removing them without having to drain the system.
Designed for easy installation and generously sized to guarantee durability, accessories are available in galvanised or stainless steel.

The recommended installation modes are:

Bottom installation (fig. A) and pendular installation (fig. B)

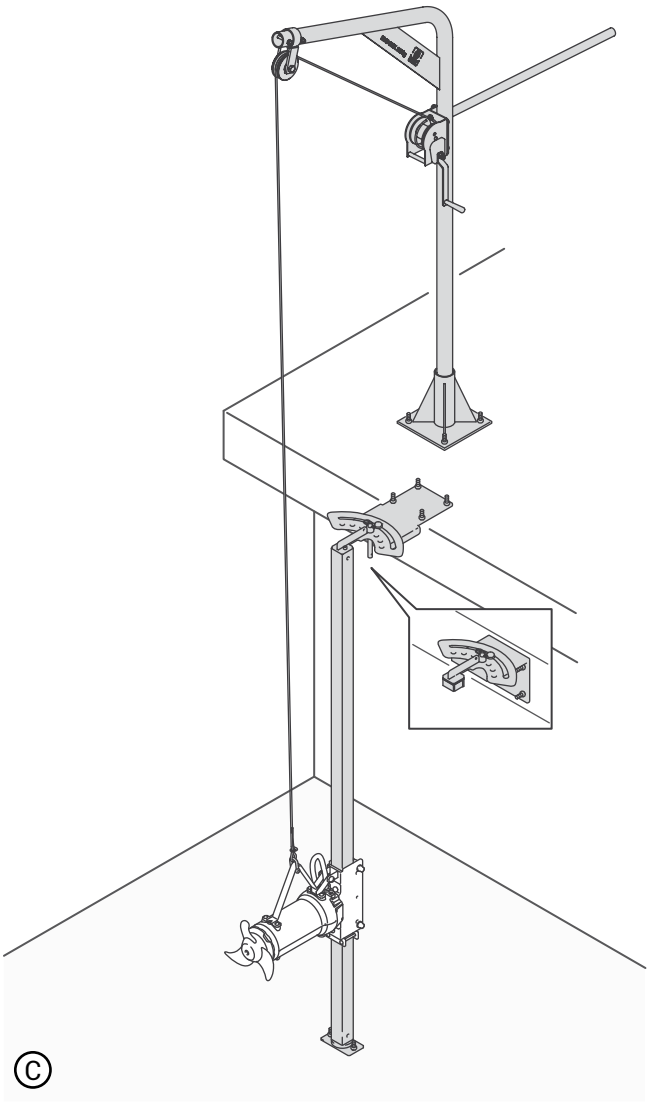


Permanent installation, with the mixer connected to a base anchored to the bottom of the tank.
A special adjustment plate allows the mixer's horizontal and vertical position to be set as specifically required by the system.



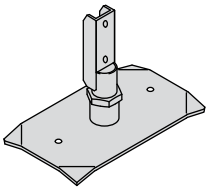
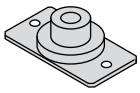
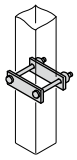
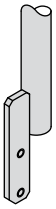
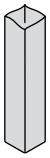
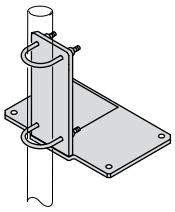
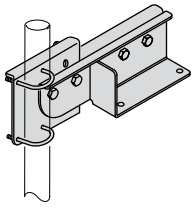
Mobile installation in which the mixer can be both installed and removed with the tank full.
The mixer is suspended from a suspension pipe and fixed to a mounting bracket; it can be adjusted both horizontally and vertically

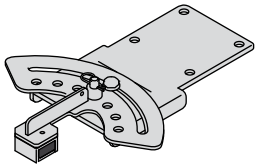
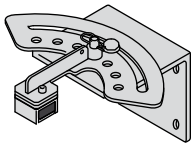
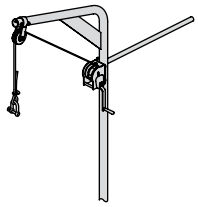
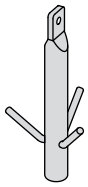
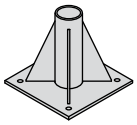
Mast installation (fig. C)



The most widely used installation mode, suitable for mixers of any shape and size.
The mixer, fitted with a runner which is also compatible with existing installations, slides along a square post and can be removed with no need to drain the tank, thanks to rugged lifting jib cranes.
The mixer can be horizontally adjusted for the best possible position, while vertical adjustment is possible with the aid of special optional runners.

Accessories

	Code	Description	Material
	27.986	Base for bottom mixer installation	AISI 304
	27.814	60x60 mm base pole mixer	AISI 304
	27.982	Stop fitting for 60x60 mm pole	AISI 304
	27.992	Guide for suspended installation	AISI 304
	27.821	60x60 mm pole Lenght = 3 m	AISI 304
	-	60x60 mm pole Lenght = 6 m	AISI 304
	27.996	Fixed upper bracket floor for Ø 2" pole	AISI 304
	28.032	Adjustable upper bracket a floor for Ø 2" pole	AISI 304

	28.018	Upper bracket floor for 60x60 mm pole	AISI 304
	28.017	Upper bracket wall for 60x60 mm pole	AISI 304
	28.067	Crane for Ø60 mm pole (max capacity 200 kg)	Acciaio zincato
	24.659	Lifting hook	Acciaio zincato
	28.074	Base for crane Ø60 mm pole	AISI 304

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