

PROCESS ENGINEERING

Technical information:

Agitator drives ZR and DR series in 8 sizes

Torque range:
from 800 Nm to 20.000 Nm

Power range:
from 0,37 kW to 200 kW

Speed range:
from 0,1 1/min to 1.000 1/min

Transmission range:
from 3,07 to 71.317

Cooling tower drives EK and ZK series

Torque range:
from 280 Nm to 19.000 Nm

Power range:
from 2,2 kW to 90 kW

Speed range:
from 50 1/min to 880 1/min

Transmission range:
from 1,36 to 880

Mixer drives FZM, FDM and KM series

Torque range:
from 800 Nm to 20.000 Nm

Power range:
from 0,37 kW to 200 kW

Speed range:
from 0,1 1/min to 300 1/min

Transmission range:
from 3,8 to 67.119

Output flange in dry-well design

Located in the lowest part of the gear unit is a safety oil chamber which prevents oil from entering the agitator. Optionally, an oil monitoring device can be added on.

With its MOTOX®-N gear motor range Flender Drives & Automation offers solutions for process engineering applications, which often have to comply with the guideline for explosion protection ATEX95. The gear units are equipped with reinforced bearings and a suitable flange design for long service life and to withstand high shaft loads.

The agitator gear units are designed as helical gear motors. All the transmission ratios of the basic series are available.

The gear units have a robustly dimensioned outer bearing to withstand high radial and axial loads. The outer bearing can be lubricated by means of a lubricating device.

Flender Drives & Automation equips MOTOX®-N shaft-mounted and bevel helical gear motors with a mixer flange for use in mixer technology. Both MOTOX®-N series are available in a solid-shaft and a hollow-shaft version. High shaft loads are a matter of course.



The MOTOX®-N cooling tower drives are designed for heavy use for the cooling of process water or for air-conditioning applications. They are characterized by a high operation reliability.

MOTOX®-N gear motors with agitator, mixer or cooling tower flange are a basic feature of the MOTOX®-N modular system. All the gear unit and motor options of the MOTOX®-N gear motor range, e.g. hollow-shaft cover, reinforced bearings, oil level monitoring, etc., are available.

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There have been MOTOX®-N gear motors, in helical, bevel helical, helical worm or shaft-mounted gear versions, including versions conforming to the 94/9/EG guideline, since January 1st, 2003.

Available motor versions

- pressure-resistant enclosure
- pressure-resistant enclosure and terminal box with high protection
- high-protection and non-sparking

Motors in the pressure-resistant enclosure version can also be operated with a frequency inverter.

Other combinations are available on request.

Gear units and motors, in many different versions and assembly options, are

approved for use in zone 1, 2 (gas) and zone 21 and 22 (dust).

Ex-atmosphere/Zone		Category	Frequency
G (Gases and vapours)	D (Dust)		
0	20	1	constant or long-term
1	21	2	occasional
2	22	3	infrequent or short-term

MOTOX®-N gear motors can be implemented for category 2 and 3

Use in an explosive gas atmosphere is intended for temperature classes T1 to T4. When using in an explosive dust atmosphere, the max. temperature of 120°C must be taken into consideration for the gear unit.

An oil level sensor can be fitted for monitoring in inaccessible areas.

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