

Industrial Motors

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MAS[®]

AGITATOR GEARS



Driving efficiency and sustainability





MAS[®] AGITATOR GEARS

In times of ever growing energy costs and energy consumption, the constant efficiency increase of drive components has become a central leading issue. Highly efficient gear motors with reduced power losses, compact dimensions and various options for the environmental industry lower the accruing operating costs.

RELIABLE OPERATION FOR ROUGH INDUSTRIAL USE UNDER VARYING CLIMATIC CONDITIONS

Drives used as agitator gear units are exposed to extreme environmental influences such as chemicals, moisture and dirt when installed outdoors. There are countless options available to further increase the functionality and durability of the drives. Starting with special paint finishes through to low- and high-temperature versions, the geared motors are adapted to the respective application.

OUTPUT OPTION

- Output shaft
- Hollow shaft
- Hollow shaft with shrink disc

REINFORCED BEARING

In contrary to a standard bearing arrangements, taper roller bearings with wider bearing distances are used for agitator applications because of higher loads on the bearings. This is achieved by installing the bearing in the heavy duty agitator flange. The taper roller bearing in the flange is grease lubricated. As the drives are mostly designed for non-stop operation, very high lifespans can be expected.

SEALING

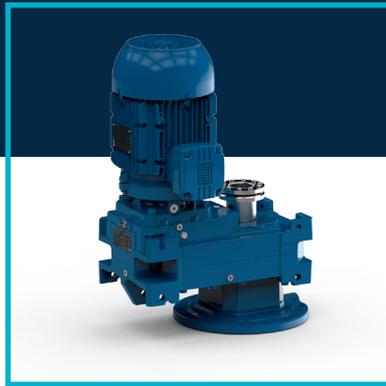
The seal system of the agitator gearboxes is protecting the agitating medium from contamination of gear oil. Basically it consists of 3 independent seal points. On possible leakage, caused by seal ring wearout, the oil runs over a drip plate into a reservoir which can be indicated by an oil-sight glass or an oil sensor (optional).

Shaft mounted geared motors AR.



Power: 0.12 - 30 kW
Torque: 400 - 2,800 Nm
Ratio: 4 - 4,000

Parallel shaft geared motors FR.



Power: 0.12 - 55 kW
Torque: 5,000 - 14,000 Nm
Ratio: 4 - 18,800

Helical bevel gear motors KR.



Power: 0.12 - 55 kW
Torque: 1,000 - 14,000 Nm
Ratio: 5.7 - 8,600

CUSTOMER ADVANTAGES

- Low life-cycle costs through high efficient drive technology (up to IE4)
- Geometry optimised gearings improve the energy balance of the gears
- Compact, versatile gear housings save installation spaces
- Long life span through robust designed system components
- Little system losses, thus smaller radiant heat
- Modular system for the solution of customer specific applications

CORROSION PREVENTION AND SURFACE PROTECTION

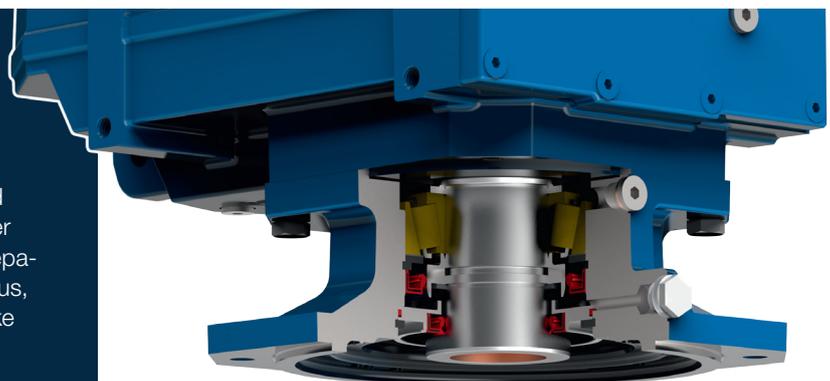
If agitator drives are to be installed outside or in humid locations, measures against corrosion should be taken. The motors can optionally be equipped with additional protective measures according to higher climatic requirements. The geared motors are protected by various varnish systems.

- Brakes in corrosion protected design
- Protection cap (SD)
- Stainless name plates
- Stainless vent plug
- Shafts out of stainless material
- Condensate water drainage hole
- Climatic protection
- Motors with anti-condensation heating
- Surface protection LA0 to LA6

AGITATOR DRIVES ACCORDING TO ATEX 2014/34/EU

The agitator gear units can as well be implemented in hazardous areas according to ATEX 2014/34/EU. The drives comply with all requirements for equipment used in explosive areas. Agitator gear units with system adapters can be equally used in the categories M2, 2 and 3 like the standard drives.

Large radial and axial forces are absorbed by external agitator bearings, which are very cost-effective. The agitator gear units with reinforced bearings at considerable wider bearing distance offer construction possibilities where, in many cases, a separate bearing of the agitator shafts can be left out. Thus, the high torque drives are suitable for applications like surface aerators, agitators, mixers, extruders, etc.



- Reinforced bearing
- Sealing

The scope of solutions of the WEG Group is not limited to the products and solutions presented in this brochure.

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