

Special execution for vertical use



Accesoires for gearboxes



Custom solutions



When using electric motors in a vertical position with shaft up, a so called pooling effect can appear. Regardless the IP class, type of oil seal or other solutions, a small quanti-ty of water could enter the motor over time. For these kind of situations Dertec has developped a special motor

execution.

This motor works with a tapered flange and a blue sling ring. The blue ring makes sure that no water will stay around the shaft seal and will get slinged away with by the blue sling ring.

The tapered flange makes sure the water can flow away easy, preventing the pooling effect.



For all the gearboxes Dertec produces we have developped a range of accessoires.

- Mounting flanges
- Torque arms for a perfect flexible mounting. Open and Closed covers for more waterproofing
- A standard motor is not the solution for everyone.

Sometimes a custom solution is needed for the specific position or use of the motor. Dertec is a flexible company and has many possibilities to produce a non

standard motor for your application. For example a special shaft execution like in the photo





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Stainless steel Motors & Gearboxes **Product range.**







Stainless steel Electric motors

Already in 2007 Dertec offered its first Dertec Stainless AC motor to the industry. Today we offer a complete line of Stainless steel AC IE3/4 Asynchronous motors, AC Permanent Magnet Synchronous motors and Servo motors. From start all these motors have been designed by Dertec with the food industry in mind.

FP3SS Motors

Stainless Steel AC Motors IEC56 - IEC180 (NEMA on demand) 0.06 - 18.5 kW 2, 4 & 6 pole versions UL & CSA Certified IP69K Efficiency class IE3 (IE4)



FP3EJSS Motors

Stainless Steel Brake Motors IEC71 - IEC100 (NEMA on demand) 2, 4 & 6 pole versions UL & CSA Certified IP69K Efficiency class IE3 (IE4)

FP3ENSS Motors

Stainless Steel Encoder Motors IEC71 - IEC100 (NEMA on demand) HTL+ (TTL possible on Request) 2, 4 & 6 pole versions UL & CSA Certified IP69K Efficiency class IE3 (IE4)

FPM4SS Motors

Synchronous Motors IEC71 - IEC90 (NEMA on demand) 6 pole UL & CSA Certified IP69K Efficiency class IE4

FPM4ENSS Motors

Synchronous Motors with Encoder IEC71 - IEC90 (NEMA on demand) HTL+ (TTL possible on Request) 6 pole UL & CSA Certified IP69K Efficiency class IE4







bacterial growth

()) Double sealing with 0-rings Blue hygienic rings

Laser engraved

tag plates

dertec

FKA Serie

Helical Bevel gearbox 5 Frame Sizes Shaft Ø: 30, 35, 40, 50 & 60mm Ratio's: 3,98:1 > 197.37:1 Max Torque: 2700 Nm Max Power: 7,5 kW

Helical Wormgearbox 4 Frame Sizes Shaft Ø: 20, 25, 30, 35 & 40mm Ratio's: 22,5:1 > 217,41:1 Max Torque: 520 Nm Max Power: 3,0 kW

FFA Serie

Parallel Shaft gearbox 4 Frame Sizes Shaft Ø: 30, 35, 40 & 50mm Ratio's: 3,77:1 > 281,71:1 Max Torque: 1500 Nm Max Power: 7,5 kW

FK Serie

Hypoid Bevel gearbox 4 Frame Sizes Shaft Ø: 20, 25, 30 & 35 mm Ratio's: 7,5:1 > 300:1 Max Torque: 500 Nm Max Power: 3,0 kW

FV Serie

Worm gearbox 7 Frame Sizes Shaft Ø: 14, 18, 25, 28, 35 & 42mm Ratio's: 7,5:1 > 100:1 Max Torque: 630 Nm Max Power: 7,5 kW

Optional

Shrink disc executions Solid shaft versions

Stainless steel gearboxes

All our designs are organic round, and the smooth design, makes the gearboxes extremely applicable in the food industry. The gearboxes are made of high quality carefully electro polished Stainless Steel AISI 316. All shafts are produced in Duplex Stainless Steel 2205.





DERTEC Hygienic parts

FSA Serie

FR Serie

Helical Gearbox 3 Frame Sizes Shaft Ø: 25, 30 & 35mm Ratio's: 3,41:1 > 199,81:1 Max Torque: 600 Nm Max Power: 7,5 kW

FH Serie

Hypoid Bevelgearbox 4 Frame Sizes Shaft Ø: 20, 25, 30 & 35 mm Ratio's: 7,5:1 > 300:1 Max Torque: 500 Nm Max Power: 3,0 kW

FRC Serie

Helical Gearbox 2 Frame Sizes Shaft Ø: 20 & 25 mm Ratio's: 3,66:1 > 54:1 Max Torque: 200 Nm Max Power: 1.5 kW









Hygienic engineering does not stop with the Dertec geared motors only. Around the production line there are many parts that can be changed into hygienic solutions. As a service we offer Stainless steel hygienic solutions such as Cable glands, Nuts & Bolts, Starknobs, Handles and hygienic bonded rings. These products follow the hygienic guidelines to reduce bacterial contamination.

DERTEC hygienic glands 316 STAINLESS STEEL

Hygienic norm parts



Hygienic starknobs & handles



Hygienic Bearings



Dertec Stainless steel Hygienic cable glands offer the best possible hygienic solution. If selected well (cable & insert match) these glands offer IP69K + EMC protection for your electric motor cable connection. For food safety the glands are being produced in SS316 and blue silicon

Hygienic design at its very best. Steel to steel contact is, according to the latest guidelines, not hygienic. The seem between the steel parts offer a high risk of bacterial growth. For this reason it is recommended to separate the two parts by using (bonded) seals. Produced in SS316 with Silicon bonded seals these Hygienic nuts, hygienic bolts and bonded seals are developed to reduce bacterial growth at a maximum.

In every construction doorhandles and starknobs are a part of the final construction. These Dertec parts have been engineered with the latest hygienic guidelines in sight and produced in SS316 and made with blue silicon seals.

Dertec bearing systems have been designed to optimize the hygienic use of flange and pillow block bearinghousings in the food industry. Our engineers have designed a line of full AISI-316 bearing housings which can be assembled with spherical inserts with grub screw (SB) or clamping ring (SA) bearings.

Typical design elements such as blue hygienic rings and blue seals supports the engineer to reach a high level of cleanability.

The DERTEC hygienic bearing housings can be equipped with spacers to obtain so-called 'Stand-Off' housings.