Motors & gearboxes. Product range Stainless steel



Stainless steel **Electric Motors.**



Dertec stainless steel motors are designed according to the highest levels in terms of hygiene and cleanability, we have managed to design a product that can be used under the most demanding conditions.

The design is smooth and round to prevent dirt build-up and makes them easy to clean. Special attention was paid to the shape of the terminal box and bearing shields to minimize dirt accumulation.

All our products are built to order, according to our customers' demands.





Totally enclosed non ventilated







FP3EJSS

FP3SS Standard AC motor	FP3ENSS AC Encoder motor
IEC56 - 90	IEC71 - 80
0,06 - 1,5 kW	0,18 - 0,75 kW
2,4,6 Pole	2,4,6 Pole
Asynchronous & Synchronous	Asynchronous &

AC Brake motor IEC63 - 90 0,12 - 1,5 kW 2,4,6 Pole nchronous & Synchronous

Asynchronous & Synchronous

Totally enclosed fan cooled







FP3SS Standard AC motor IEC80 - 160 0,75 - 18,5 kW 2,4,6 Pole Asynchronous & Synchronous

AC Encoder motor IEC80 - 100 0,75 - 3 kW 2,4,6 Pole

FP3ENSS

Asynchronous & Synchronous

Motor for vertical use

IEC90 - 100 1,1 - 3 kW 2,4,6 Pole

Asynchronous & Synchronous

FP3EJSS

AC Brake motor

Customized motors



FP3SS Water Cooled

IEC63 - 90	IEC63 - 90
0,12 - 1,5 kW	0,12 - 1,5 kW
2,4,6 Pole	2,4,6 Pole
Asynchronous & Synchronous	Asynchronous & Synchronous



Custom Solutions

When a standard motor doesn't fit you to your needs, we offer customer specific solutions. Specials shafts, motorflanges, different mountings etc.

Stainless steel Gearboxes.

A round, smooth housing, which simplifies cleaning and prevents bacterial growth.

Up to 94% efficiency

Laser engraved tag plates.

Duplex

Dertec gearboxes are specifically developed with hygiene and cleanability in mind. With a design that aims to minimize build-up of dirt, the shape contributes to less accumulation and adhesion of contaminants.

The high efficiency (92-94%) of the drive reduces energy consumption and contributes to a low surface temperature.

Right Angle gearboxes





 \mathbf{X}

Stainless Steel AISI316 housing

IP69K

Seals & O-rings made

of special Engineered

Foodgrade Material.

Helical worm gearbox 4 Frame Sizes Shaft Ø: 20, 25, 30, 35, 40 & 45mm Ratio's: 6,8:1 > 217,41:1 Max Torque: 520 Nm Max Power: 3,0 kW



FKA Serie

FH Serie

4 Frame Sizes

Hypoid bevel gearbox

Ratio's: 7,5:1 > 300:1

Max Torque: 500 Nm

Max Power: 4,0 kW

Shaft Ø: 20, 25, 30 & 35mm

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



K-Serie Bevel gearbox 5 Frame Sizes Shaft Ø: 12, 15, 18, 20, 24, 25, 28, 32 & 35mm Ratio's: 1:1 > 6:1 Max Torque: 660 Nm Max Power: 15 kW



FVS Serie

Worm gearbox 7 Frame Sizes Shaft Ø: 14, 18, 25, 28, 35 & 42mm Ratio's: 7,5:1 > 100:1 Max Torque: 660 Nm Max Power: 7,5 kW

Accessories



Open/Closed cover

Offers extra safety and water ingress protection.





Gives you a perfect flexible mounting.



Shrink disc

Friction-locked connections are the more powerful and reliable alternative to conventional key mountings.

Stainless steel Gearboxes.



FR series helical gearboxes are being developed to achieve high torques, low energy consumption and thus a lower surface temperature. The case-hardened gears ensure a long lifetime and smooth running. The smart use of 2 stage or 3 stage gearing in the same housing offers a complete spectrum of ratio's.

The footprint and shaft sizes are similar to commonly used standards in the market.

Coaxial gearboxes



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

FRX Serie

Single stage gearbox 3 Frame Sizes Shaft Ø: 15, 20 & 25mm Ratio's: 1,4:1 > 6:1 Max Torque: 150 Nm Max Power: 7,5 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

Accessories



Secondary flange

Using flanges adds flexibility to your mounting.



Solid secondary shaft We supply insert shafts or

fixed shafts to all hollow shaft gearboxes.



FRC Serie

Helical gearbox 2 Frame Sizes Shaft Ø: 20 & 25mm Ratio's: 3,84:1 > 54,00:1 Max Torque: 200 Nm Max Power: 1,5 kW

Variators



KR Serie

Speed ball variator 4 Frame Sizes Shaft Ø: 11, 14, 19, 24mm Ratio's: 2:1 Max Torque: 16 Nm Max Power: 2,2 kW



Foot plate

Our external foot plate to transform the shaft mounted gears to foot mounting.

Stainless steel Hygienic parts.



tag plates.

Seals & O-rings made of special Engineered Foodgrade Material.

A complete range of stainless steel bearing units for the very challenging food and beverage industry. Regularly cleaning of the machinery means that the machines are frequently exposed to pressure washdowns with caustic, antibacterial cleaning agents. Dertec Signature line ball bearing units offer a range of bearing solutions for such demanding environments. Standard made in stainless steel 316, double sealed with O-rings and Hygienic seals.

The blue optical, detectable hygienic seals and stainless steel housing are made to EHEDGE hygienic guidelines.

Hygienic bearing systems





DHLASS F 4 Hole plain bearing Bore: 20-50mm Bearing Type: SA & SB **DHLASS FB** 3 Hole plain bearing Bore: 20-50mm Bearing Type: SA & SB



DHLASS P & PA Standing bearings Bore: 20-50mm Bearing Type: SA & SB

Hygienic parts



Hygienic star knobs and handles

Engineered according to the latest hygienic guidelines and produced in AISI316 with blue silicon seals.

Hygienic norm parts

Produced in AISI316 with silicon bonded seals these hygienic nuts, hygienic bolts and bonded seals are developed to reduce bacterial growth at maximum.





DHLASS FL

2 Hole plain bearing Bore: 20-50mm Bearing Type: SA & SB



Hygienic glands

These glands offer IP69 + EMC protection for your electric motor cable connection. For food safety the glands are being produced in AISI316 and blue silicon.



An independent company.

Dertec is a second generation family company, founded in 2002. The first in-house production of stainless steel motors and gears started in 2008. In 2022, Dertec moved to a new and built to purpose building, where we have the possibility for further growth and development of our product range and global market leadership.

Vision.

Innovative, hygienic solutions. Always one step ahead. Tailored to our customers. That's our goal. Years of experience, technical insight, focused on market demands, and great engagement with the customer. Qualities that have earned Dertec a leading position throughout the world. The company has developed strongly over the years and has grown into a global market player with a very clear defined expertise: innovative, hygienic, sustainable, and efficient.

Driven organization.

The unique position of Dertec is thanks to our continuous efforts in research and development. Our team of professionals constantly strives for the best solution. Our innovative stainless steel solutions are developed and built in-house. Continuous market changes demand swift adaptation. Our engineering department makes a significant contribution to fully supporting our relationships with the most efficient hygienic solutions possible.

Customer first.

Customer satisfaction is what matters most at Dertec. This also applies to partnership. No shortterm investments, but long-lasting relationships. We are proud to work for leading companies all over the world. Dertec is a Dutch family-owned company, founded in 2002. Agile, with a friendly atmosphere and informal culture.



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