Motors & gearboxes. Product range Stainless steel

Stainless steel Gearboxes.

Stainless steel Hygienic parts

Stainless steel Electric Motors



Stainless steel Electric Motors.

which simplifies cleaning and prevents bacterial growth. IP69K IE3. IE4 and IE5 efficiency. ႞ႄ Seals & O-rings made of special Engineered Foodgrade Material. Laser engraved tag plates. Duplex

A round, smooth housing,

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



FP3SS Standard AC motor IEC56 - 90 0,06 - 1,5 kW

2,4,6 Pole

Asynchronous & Synchronous



FP3ENSS
AC Encoder motorIEC71 - 800,18 - 0,75 kW2,4,6 PoleAsynchronous & Synchronous

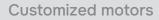


FP3EJSS
AC Brake motorIEC63 - 900,12 - 1,5 kW2,4,6 PoleAsynchronous & Synchronous

Totally enclosed fan cooled



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





FP3SS Water Cooled

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



FP3ENSS AC Encoder motor IEC80 - 100 0,75 - 3 kW 2,4,6 Pole Asynchronous & Synchronous



FP3EJSS
AC Brake motorIEC90 - 1001,1 - 3 kW2,4,6 PoleAsynchronous & Synchronous



Motor for vertical use

IEC63 - 90 0,12 - 1,5 kW 2,4,6 Pole 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.



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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



FS(A) Serie

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



FVS Serie

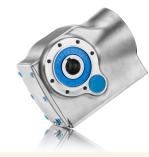
Worm gearbox 7 Frame Sizes Shaft Ø: 14, 18, 25, 28, 35 & 42mm Ratio's: 7,5:1 > 100:1 Max Torque: 660 Nm Max Power: 7,5 kW

Accessories



Open/Closed cover

Offers extra safety and water ingress protection.



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



FH Serie

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



Torque arm

Gives you a perfect flexible mounting.



Shrink disc

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

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

Stainless steel Gearboxes.

A round, smooth housing, which simplifies cleaning and prevents bacterial growth. Stainless Steel AISI316 housing



Up to 94% efficiency



IP69K



Laser engraved

tag plates.

Duplex



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

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



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.



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



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



Solid secondary shaft

We supply insert shafts or fixed shafts to all hollow shaft gearboxes.



Foot plate

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

Stainless steel Hygienic parts.

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

Stainless Steel AISI316 housing

Laser engraved 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 FL

2 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.

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.



Dutch design

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.

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.

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.



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Dertec Italia BV

Section Secti

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