

SEW
EURODRIVE



We have got something
against corrosion:
**Surface and Corrosion
Protection**

Our protection comes as a standard and can be customized to meet all your specific requirements

SEW-EURODRIVE gearmotors come equipped with a standard protection against all common corrosive elements found in an industrial environment, such as moisture, oil, dirt or chemicals. It is possible to operate these motors even in extreme weather conditions due to a number of specific, additional treatments and the use of special materials. The synergy of internal and external preventive measures offers reliable protection for SEW-EURODRIVE drives.

The perfect interaction of the internal and external provisions reliably prevents SEW-EURODRIVE drives from damage, e.g.

- Internal treatment and protection of the standard parts with anti-corrosion treatment
- Top coat with surface protection treatment OS1 to OS4

With a combination of the optional SEW-EURODRIVE protective measures, customized to meet your individual requirements, you lay the foundation for a durable drive when placing your order.

Driving the world – with innovative drive solutions for all branches of industry and for every application. Products and systems from SEW-EURODRIVE for any application – worldwide. SEW-EURODRIVE products can be found in a variety of industries, e.g. automotive, building materials, food and beverage as well as metal-processing. The decision to use drive technology “made by SEW-EURODRIVE” stands for safety regarding functionality and investment.



Solutions for internal and external provisions

Standard treatment for

All products	<ul style="list-style-type: none"> – Regular, detailed processing – Breather valves usually made of rustproof material – All processed flange and connection surfaces as well as shaft extensions coated with rust-preventing agent
--------------	--

Anti-corrosion treatment for

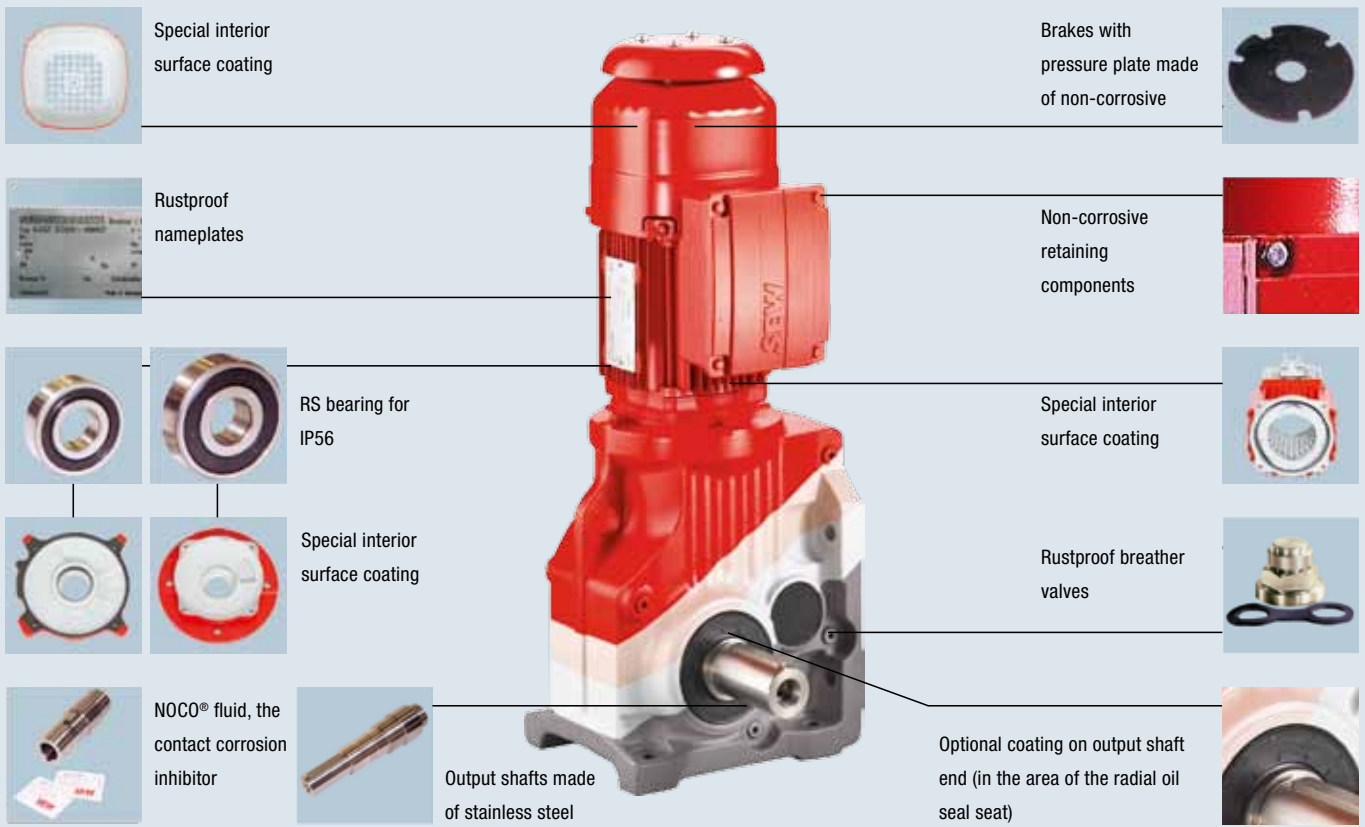
Motors	<p>In addition:</p> <ul style="list-style-type: none"> – Any fastening components regularly opened for operation made of rustproof material – Rustproof nameplates – Internal coating with special enamel
IP56 motors	<ul style="list-style-type: none"> – Special bearing design (RS on drive-end, 2 RS on non-drive end) – Additional condensation drain hole
Brakes and backstops	<ul style="list-style-type: none"> – Rubber sealing collars fastened with clamping straps. Pressure plates made of non-corrosive material – Explosion-proof BC and BD brakes, as well as backstops treated with special finishing varnish
Variable-speed gearmotors VARIMOT® VARIBLOC®	<p>In addition:</p> <ul style="list-style-type: none"> – All non-processed internal surfaces covered with special varnish – Gas-nitrided variable pulleys in VARIBLOC® – Hard chromium plated drive disk in VARIMOT® – Fastening components made of rustproof material

Special protection design for output shafts

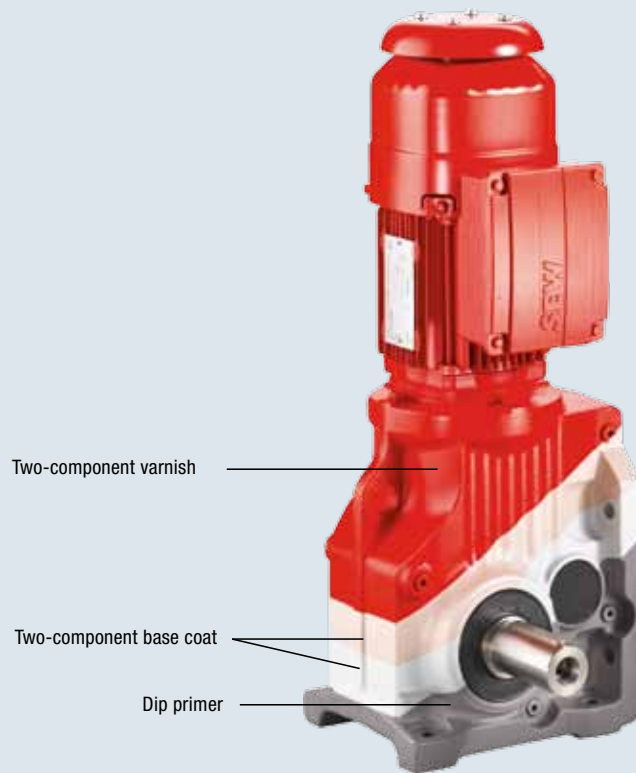
NOCO® fluid, food grade quality according to NSF-H1	<ul style="list-style-type: none"> – Fretting corrosion protection gel <p>Suitable for</p> <ul style="list-style-type: none"> – Hollow shaft designs to prevent contact corrosion – Belt pulleys, chain sprockets or coupling halves for easier assembly and to prevent friction corrosion – To protect free machined surfaces that are not or no longer protected from corrosion (shaft ends, flange ...)
Coating on output shaft extension	<ul style="list-style-type: none"> – Oil seal coated with silicone – Particularly demanding applications
Output shaft made of stainless steel	<ul style="list-style-type: none"> – Premium quality material – Particularly demanding applications



Corrosion protection: Treatment packages for internal treatment and standard parts


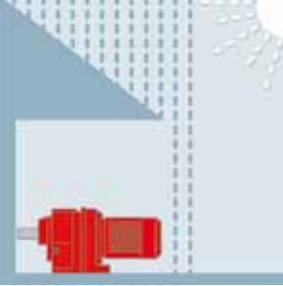
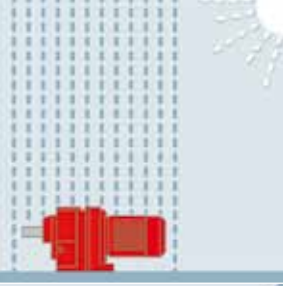




Surface protection:
Treatment packages for top coating



Different layers of varnish on
a helical-bevel gear unit with OS2 coating

Perfect surface protection for every application

Surface protection		Ambient conditions/sample applications
Standard		<p>Suitable for machines and systems in buildings and rooms indoors with neutral atmospheres. Similar to corrosion category*: C1 (negligible)</p> <p>Sample applications</p> <ul style="list-style-type: none"> – Machines and systems in the automobile industry – Conveyor systems in logistics areas – Conveyor belts at airports
OS1		<p>Suitable for environments with condensation, and atmospheres with low humidity or contamination level, such as outdoors applications under roof or with protection. Similar to corrosion category*: C2 (low)</p> <p>Sample applications</p> <ul style="list-style-type: none"> – Systems in saw mills – Hall gates – Agitators and mixers
OS2		<p>Suitable for environments with high humidity or mean atmospheric contamination, such as outdoors applications subject to direct weathering. Similar to corrosion category*: C3 (moderate)</p> <p>Sample applications</p> <ul style="list-style-type: none"> – Applications in amusement parks – Funiculars and chair-lifts – Applications in gravel plants – Systems in nuclear power plants
OS3		<p>Suitable for environments with high humidity and occasionally severe atmospheric and chemical contamination. Occasionally acidic or caustic wet cleaning. Also for applications in coastal areas with moderate salt load. Similar to corrosion category*: C4 (high)</p> <p>Sample applications</p> <ul style="list-style-type: none"> – Sewage treatment plants – Port cranes – Mining applications
OS4		<p>Suitable for environments with permanent humidity and severe atmospheric or chemical contamination. Regular acidic or caustic wet cleaning also with chemical cleaning agents. Similar to corrosion category*: C5-I (very high)</p> <p>Sample applications</p> <ul style="list-style-type: none"> – Drives in malting plants – Wet areas in the beverage industry – Conveyor belts in the food industry

Aseptic gearmotor with OS4
surface protection



Perfect surface protection for every application

Surface protection		Ambient conditions/sample applications
DAS series aseptic motors OS2-OS4 as option		<p>Suitable for dry or humid hygienic areas with mean atmospheric contamination. Also suitable for particularly dusty environments. Similar to corrosion category*: C3 (moderate)</p> <p>Sample applications</p> <ul style="list-style-type: none"> – Applications in clean rooms – Machines in the cosmetic and pharmaceutical industry – Systems for processing cereal and flour (without Ex protection) – Conveyor belts in cement plants
DAS series aseptic motors with ASEPTIC^{plus} drive package OS4		<p>Suitable for hygienic areas in the food and beverage industry with permanent humidity and regular acidic and wet cleaning with chemical cleaning agents. Cleaning with compressive stress. Similar to corrosion category*: C5-I (very high)</p> <p>Sample applications</p> <ul style="list-style-type: none"> – Hygienic and aseptic conveyors in the beverage industry – Systems in cheese dairies and butcher shops – “Splash zones” in the food industry

* According to DIN EN ISO 12944-2
 Classification of ambient conditions

How we're driving the world



SEW-EURODRIVE
Driving the world

SEW-EURODRIVE is right there for you:

Argentina

Phone +54 3327 4572-84
Fax +54 3327 4572-21
sewar@sew-eurodrive.com.ar

Australia

Phone +61 3 9933-1000
Fax +61 3 9933-1003
enquires@sew-eurodrive.com.au

Austria

Phone +43 1 617 55 00-0
Fax +43 1 617 55 00-30
sew@sew-eurodrive.at

Belarus

Phone +375 17 298 38 50
Fax +375 17 298 1898
sales@sew.by

Belgium

Phone +32 16 386-311
Fax +32 16 386-336
info@sew-eurodrive.be

Brazil

Phone +55 11 2489-9133
Fax +55 11 2480-3328
sew@sew.com.br

Canada

Phone +1 905 791-1553
Fax +1 905 791-2999
marketing@sew-eurodrive.ca

Chile

Phone +56 2 75770-00
Fax +56 2 75770-01
ventas@sew-eurodrive.cl

China

Phone +86 22 25322612
Fax +86 22 25323273
info@sew-eurodrive.cn

Colombia

Phone +57 1 54750-50
Fax +57 1 54750-44
sewcol@sew-eurodrive.com.co

Czech Republic

Phone +420 255709601
Fax +420 220121237
sew@sew-eurodrive.cz

Denmark

Phone +45 43 9585-00
Fax +45 43 9585-09
sew@sew-eurodrive.dk

Finland

Phone +358 201 589-300
Fax +358 3 7806-211
sew@sew.fi

France

Phone +33 3 88 73 67 00
Fax +33 3 88 73 66 00
sew@usocome.com

Great Britain

Phone +44 1924 893-855
Fax +44 1924 893-702
info@sew-eurodrive.co.uk

Hong Kong

Phone +852 36902200
Fax +852 36902211
contact@sew-eurodrive.hk

Hungary

Phone +36 1 437 06-58
Fax +36 1 437 06-50
office@sew-eurodrive.hu

India

Phone +91 265 2831086
Fax +91 265 2831087
mdoffice@seweurodriveindia.com

Italy

Phone +39 02 96 9801
Fax +39 02 96 799781
sewit@sew-eurodrive.it

Japan

Phone +81 538 373811
Fax +81 538 373814
sewjapan@sew-eurodrive.co.jp

Kazakhstan

Phone +7 727 334 1880
Fax +7 727 334 1881
sew@sew-eurodrive.kz

Malaysia

Phone +60 7 3549409
Fax +60 7 3541404
sales@sew-eurodrive.com.my

Mexico

Phone +52 442 1030-300
Fax +52 442 1030-301
scmexico@seweurodrive.com.mx

Netherlands

Phone +31 10 4463-700
Fax +31 10 4155-552
info@sew-eurodrive.nl

New Zealand

Phone +64 9 2745627
Fax +64 9 2740165
sales@sew-eurodrive.co.nz

Norway

Phone +47 69 241-020
Fax +47 69 241-040
sew@sew-eurodrive.no

Peru

Phone +51 1 3495280
Fax +51 1 3493002
sewperu@sew-eurodrive.com.pe

Poland

Phone +48 42 6765300
Fax +48 42 6765345
sew@sew-eurodrive.pl

Portugal

Phone +351 231 20 9670
Fax +351 231 20 3685
info@sew-eurodrive.pt

Russia

Phone +7 812 3332522
Fax +7 812 3332523
sew@sew-eurodrive.ru

Singapore

Phone +65 68621701
Fax +65 68612827
sewsingapore@sew-eurodrive.com

Slovakia

Phone +421 2 33595202
Fax +421 2 33595200
sew@sew-eurodrive.sk

South Africa

Phone +27 11 248-7000
Fax +27 11 494-3104
info@sew.co.za

South Korea

Phone +82 31 492-8051
Fax +82 31 492-8056
master.korea@sew-eurodrive.com

Spain

Phone +34 94 4318470
Fax +34 94 4318471
sew.spain@sew-eurodrive.es

Sweden

Phone +46 36 344200
Fax +46 36 344280
info@sew-eurodrive.se

Switzerland

Phone +41 61 41717-17
Fax +41 61 41717-00
info@imhof-sew.ch

Thailand

Phone +66 38 454281
Fax +66 38 454288
sewthailand@sew-eurodrive.com

Turkey

Phone +90 262 999 1000-04
Fax +90 262 999 1009
sew@sew-eurodrive.com.tr

Ukraine

Phone +380 56 370 3211
Fax +380 56 372 2078
sew@sew-eurodrive.ua

Uruguay

Phone +598 2 21181-89 +90
Fax +598 2 21181-89 +90
sewuy@sew-eurodrive.com.uy

USA

Phone +1 864 439-7537
Fax +1 864 439-7830
cslyman@seweurodrive.com

Venezuela

Phone +58 241 832-9804
Fax +58 241 838-6275
ventas@sew-eurodrive.com.ve