## Parallel shaft gear units

- Shaft, foot or flange mounted Hollow or solid shaft
- Compact design

		9
1	UNICASE	housing

<b>&gt;</b>	UNICASE housing	
	Sizes	15
	kW	0.12 – 200
	Nm	65 – 90,000
	i	4.03:1 – 6,616.79:1

### NORDBLOC, 1 gear unit

- Foot or flange mounted
- Die-cast aluminium housing
- UNICASE housing
- Dimensions compliant with industrial standards

Sizes	8
kW	0.12 – 37
Nm	55 – 3,300
i	2.10:1 – 456.77:1

## **Helical worm gear units**

- Shaft, foot or flange
- Hollow or solid shaft
- UNICASE housing

•	
Sizes	6
kW	0.12 – 15
Nm	46 – 3,090
i	4.40:1 – 7,095.12:1



### 2-stage bevel gear units

- Up to 97% efficiency
- Shaft, foot or flange mounted
- Hollow or solid shaft Alternative to worm gear motors
- UNICASE housing
- 0.12 9.245 – 650 3.85:1 - 72.31:1

## 3-stage bevel gear units

- Up to 95 % efficiency Shaft, foot or flange mounted
- Hollow or solid shaft
- UNICASE housing

Sizes	11
kW	0.12 – 200
Nm	180 – 50,000
i	8.04:1 – 13,432.68:1

### SI worm gear units

- Universal mounting
- Lifetime lubrification
- IEC versions

Sizes	5
kW	0.12 – 4.0
Nm	21 – 427
i	5.00:1 – 3,000.00:1

## SMI worm gear unit

- Smooth surfaces
- Lifetime lubrification
- IEC versions

_	ILC VEISIONS	
	Sizes	5
	kW	0.12 – 4.0
	Nm	21 – 427
	i	5.00:1 – 3,000.0:1

## NORD DRIVESYSTEMS | Partners in motion

# **Everything from a single source**

The perfectly matched individual components form the basis for a wide range of versions, greater flexibility with short planning and installation times.

gear units combined with energy-efficient motors and decentralised or solutions, including all documentation, as a complete logistics package.

The modular structure of our product building blocks guarantees centralised frequency inverters provide a wide range of system solutions maximum variability and flexibility for the configuration of a wide with great efficiency and economy. If required, we can provide our range of individual drive solutions from a single source. High efficiency customers with completely functional, pre-programmed industrial

## 2-stage NORDBLOC.1 bevel gear unit (Catalogue G1014)

- Up to 97% efficiency
- Shaft, foot or flange mounted Hollow or solid shaft

Up to 242,000 Nm

NORD is the only manufacturer

UNICASE housing.

that produces modular industrial gear units

with an output torque of 242,000 Nm in a one-piece

UNICASE housing

Sizes	5
kW	0.12 - 9.2
Nm	90 - 660
i	3.58:1 - 70:1

## **Industrial gear units**

machined in one operation

Sizes	8
kW	2.2 – 1,000
kNm	25/30/40/50/74/101/141/242
i	5.54:1 – 1,600.00:1

- All bearing points and sealing surfaces are
- No separating joints in the housing, no sealing surfaces subject to torque
- High-precision axis alignment, quiet running Long life, low maintenance service
- Short, compact design
- Gear ratios from 5.54 to 400: 1 with the same foot
- Parallel axis and right-angled gear units

Sizes	8
kW	2.2 – 1,000
kNm	25/30/40/50/74/101/141/242
i	5.54:1 – 1,600.00:1









Motors and components for decentralised drive control (Catalogue M7000/M7010)

Single and 3-phase electric motors up to 200 kW. Smooth Surface Motor in sizes 80, 90 and 100. Further range of starters and components for decentralised

## **Sealed Surface Conversion System**

### The alternative to stainless steel

NORD DRIVESYSTEMS now has an answer for the requirements of drive technology for extreme environment conditions in the variety of products with which you are familiar for standard geared motors – however, with the resistance of stainless steel and an outstanding price/

Resistant to acids and alkalis (wide pH range) performance ratio. Sealed Surface Conversion Sytem. The aluminium surface is

No flaking coated with a special process to make it ex
Cost effective alternative to stainless steel tremely durable. Together with a special sealing

Lighter than stainless steel process, this layer is up to 7 times harder than the basic aluminium material and up to 1000 times for extreme operating and harder than paints and lacguers - and so has very **ambient conditions** low-wear characteristics. It therefore provides High ambient humidity unique protection against corrosion, as it is not a 

Offshore and coastal areas

paint layer which can detach or flake off.

### **TSC** for food applications

■ Complies with FDA Title 21 CFR 175.300 ■ Extensive tests have been performed with a ■ Water and sewage plants wide range of detergents

- Corrosion-resistant and prevents contact
- No penetration of corrosion, even if damaged ASTM D3170 Gravometer test

- Food and beverage industry Car wash equipment

- Pharmaceutical industry
  - **Tests performed on surface-treated**

## aluminium housing components:

- ASTM D714 Blistering ■ ASTM D610-08 Corrosion
- ASTM D1654-08 Scratches
- ASTM B117-09 Salt spray test
- DIN EN ISO 9227 Salt mist spray test ■ DIN EN ISO 2409 Cross cut test
- Products available with
- SMI worm gear units 2-stage bevel gear units series
- (SK 92x71.1 / SK 93x72.1) ■ NORDBLOC.1 helical gear units (up to size 6)
- NORD smooth surface motors

Products treated with □与□■ are ideal for extreme ambient conditions and hygiene requirements.

### "Safe stop" as per EN 954-1

- Commissioning via integrated DIP switches and potentiometer possible
- Energy-saving function
- Ethernet-based BUS systems
- Performance grading according to application Decentralised modules combined as a system
- Integrated "Posicon" positioning control
- On board AS interface versions

Sizes	4
U[V]	1~100 120 1~200 240 3~200 240

## SK 180E

P[kW]

Stand-alone" operation (integrated 24V power

0.25 – 22

- Configuration via software parameterisation
- 4 parameter sets which can be switched over online
- Ethernet-based BUS systems
- Sensorless current vector control (ISD control) Energy saving function: "Automatic flux

Sizes	2
U[V]	1~110 120 1/3~200 240 3~380 480 -20

0.25 - 2.2

## (Catalogue F3050)

Compact design

SK 500E

- Performance grading according to application
- Plug-in modules for control and communication
- Ethernet-based BUS systems

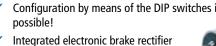
Sizes	11
U[V]	1~110 120 1/3~200 240 3~200 240 3~380 480 -20
DI 144	0.25 – 132

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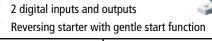
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Consistent parameter structure

SK 135E

(Catalogue F3015)



3~200 ... 500 U[V] 0.25 - 7.5





Energy-saving function

(e.g. "Posicon" positioning control)

(up to 160 kW in preparation)

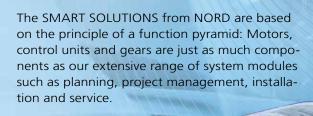


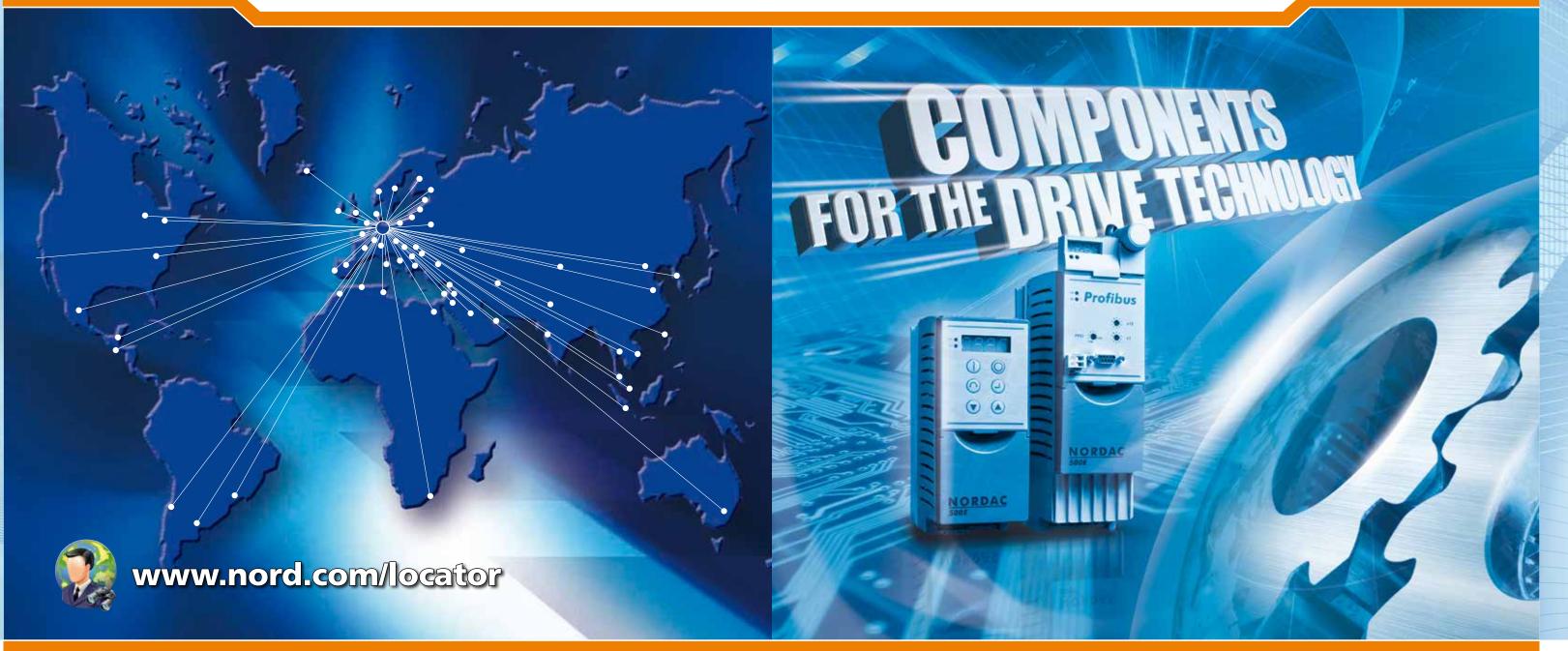






Intelligent Drivesystems, Worldwide Services







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Member of the NORD DRIVESYSTEMS Group







# **Consistent philosophy**

With NORD DRIVESYSTEMS, the whole is always more than the sum of its parts because users do not just need drive components, but rather complete solutions and functioning systems.

Because of this, our product development pursues a consistent system philosophy, which is reflected in the perfectly matched modules of our wide range of products. In turn, we are able to individually tailor the particular drive solution to our customers' requirements.

The perfectly matched individual components form the basis for a wide range of versions, great flexibility with short planning and installation times. Our customers also benefit from cost effective drive solutions and our ability to deliver them quickly.





NORDBLOC.1 - Geared motors



NORD IE2/IE3 motors

