## Helical gear units

| (Catalogue GT000)  |                      | 2 |
|--|----------------------|---|
| <ul><li>Foot or flange mounted</li><li>UNICASE housing</li></ul> |                      |   |
| Sizes  | 11                   |   |
| kW   | 0.12 – 160           |   |
| Nm   | 23 – 23,160          |   |
| i  | 1.24:1 – 14,340.31:1 |   |

| Parallel shaft ge<br>(Catalogue G1000)  | ar units          |  |
|---|-------------------|--|
| <ul> <li>Shaft, foot or flange mod</li> <li>Hollow or solid shaft</li> <li>Compact design</li> <li>UNICASE housing</li> </ul> | unted             |  |
| Sizes   | 15                |  |
| kW  | 0.12 – 200        |  |
| Nm  | 65 – 90,000       |  |
| i   | 4.03:1-6,616.79:1 |  |

| NORDBLOC. 1 g<br>(Catalogue G1012)   | ear unit          | - |
|--|-------------------|---|
| <ul> <li>Foot or flange mounted</li> <li>Die-cast aluminium hous<br/>(5 sizes)</li> <li>UNICASE housing</li> <li>Dimensions compliant w</li> </ul> |                   |   |
| Sizes  | 8                 |   |
| kW   | 0.12 – 37         |   |
| Nm   | 55 – 3,300        |   |
| i  | 2.10:1 – 456.77:1 |   |

| _     | 202 3 8 8 M  |                     |
|-------|--|---------------------|
|       | Helical worm g<br>(Catalogue G1000)  | ear units           |
| > > > | Shaft, foot or flange<br>mounted<br>Hollow or solid shaft<br>UNICASE housing |                     |
|       | Sizes  | 6                   |
|       | kW   | 0.12 – 15           |
|       | Nm   | 46 - 3,090          |
|       | i  | 4.40:1 - 7,095.12:1 |



|             | 2-stage bevel g<br>(Catalogue G1000)  | ear units        | - |
|-------------|---|------------------|---|
| > > > > > > | Up to 97% efficiency<br>Shaft, foot or flange mo<br>Hollow or solid shaft<br>Alternative to worm gea<br>UNICASE housing | .0               |   |
|             | Sizes   | 5                |   |
|             | kW  | 0.12 – 9.2       |   |
|             | Nm  | 45 – 650         |   |
|             | i   | 3.85:1 – 72.31:1 |   |

|      | <b>3-stage bevel g</b><br>(Catalogue G1000)   | ear units            |   |
|------|---|----------------------|---|
| 5555 | Up to 95 % efficiency<br>Shaft, foot or flange mo<br>Hollow or solid shaft<br>UNICASE housing | unted                | 1 |
|      | Sizes   | 11                   |   |
|      | kW  | 0.12 – 200           |   |
|      | Nm  | 180 – 50,000         |   |
|      | i   | 8.04:1 - 13,432.68:1 |   |

|      | <b>SI worm gear u</b><br>(Catalogue G1035)                              | nits                | 1 |
|------|---|---------------------|---|
| シンシン | Modular<br>Universal mounting<br>Lifetime lubrification<br>IEC versions | Ø                   |   |
|      | Sizes   | 5                   |   |
|      | kW  | 0.12 – 4.0          |   |
|      | Nm  | 21 – 427            |   |
|      | i   | 5.00:1 - 3,000.00:1 |   |

|             | SMI worm gear<br>(Catalogue G1035)                        | unit               |
|-------------|---|--------------------|
| 1<br>1<br>1 | Smooth surfaces<br>Lifetime lubrification<br>IEC versions | 0                  |
|             | 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.

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

|      |  |               | and |
|------|--|---------------|---|
|      | 2-stage NORDB<br>bevel gear unit<br>(Catalogue G1014)  |               | 5                                       |
| シンシン | Up to 97% efficiency<br>Shaft, foot or flange mo<br>Hollow or solid shaft<br>UNICASE housing | unted         |   |
|      | Sizes  | 5             |   |
|      | kW   | 0.12 - 9.2    | (He                                     |
|      | Nm   | 90 - 660      |   |
|      | i  | 3.58:1 - 70:1 |   |

### Up to 242,000 Nm

NORD is the only manufacturer that produces modular industrial gear units with an output torque of 242,000 Nm in a one-piece UNICASE housing.

#### Industrial gear units (Catalogue G1050)

- All bearing points and sealing surfaces are machined in one operation
- 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 dimensions
- 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        |  |





#### 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 resist-Easy to clean surfaces ance of stainless steel and an outstanding price/ Resistant to acids and alkalis (wide pH range) performance ratio. 
Sealed Surface
No penetration of corrosion, even if damaged
ASTM D3170 Gravometer test Conversion Sytem. The aluminium surface is No flaking coated with a special process to make it extremely durable. Together with a special sealing process, this layer is up to 7 times harder than the basic aluminium material and up to 1000 times **Implementation 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.

## tupH Sealed Surface Conversion System

#### **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

#### Advantages of **TSC**

- Corrosion-resistant and prevents contact

- Food and beverage industry
- Car wash equipment

#### Dairy

- Pharmaceutical industry

#### Tests performed on surface-treated aluminium housing components:

- ASTM D714 Blistering
- ASTM D610-08 Corrosion
- ASTM D1654-08 Scratches

- 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 nscient are ideal for extreme ambient conditions** and hygiene requirements.

#### **SK 200E** (Catalogue F3020)

- "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<br>1~200 240<br>3~200 240<br>3~380 500 |
| P[kW] | 0.25 – 22  |

#### SK 180E (Catalogue F3018)

- Stand-alone" operation (integrated 24V power (ylqquz
- 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 optimisation"

| Sizes | 2   |
|-------|---|
| U[V]  | 1~110 120<br><b>1</b> /3~200 240<br>3~380 480 -20 |
| P[kW] | 0.25 – 2.2  |

#### SK 135E (Catalogue F3015)

- Configuration by means of the DIP switches possible!
- Integrated electronic brake rectifier
- Consistent parameter structure
- 2 digital inputs and outputs
- Reversing starter with gentle start function Sizes

| U[V]  | 3~200 500  |
|-------|------------|
| P[kW] | 0.25 – 7.5 |



#### SK 500E (Catalogue F3050) Compact design Energy-saving function Performance grading according to application (e.g. "Posicon" positioning control) Plug-in modules for control and communication (field bus)

Ethernet-based BUS systems

|  | ,     |  |
|--|-------|--|
|  | Sizes | 11   |
|  | U[V]  | 1~110 120<br><b>1</b> /3~200 240<br>3~200 240<br>3~380 480 -20 |
|  | P[kW] | 0.25 – 132<br>(up to 160 kW in preparation)                    |
|  |       |  |



Intelligent Drivesystems, Worldwide Services

Helical gear units

### NORD DRIVESYSTEMS GROUP



The SMART SOLUTIONS from NORD are based on the principle of a function pyramid: Motors, control units and gears are just as much components as our extensive range of system modules such as planning, project management, installation and service.



## www.nord.com/locator

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#### Member of the NORD DRIVESYSTEMS Group



Intelligent Drivesystems, Worldwide Services











# **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

Centralised and decentralised drive electronics

NORD IE2/IE3 motors

