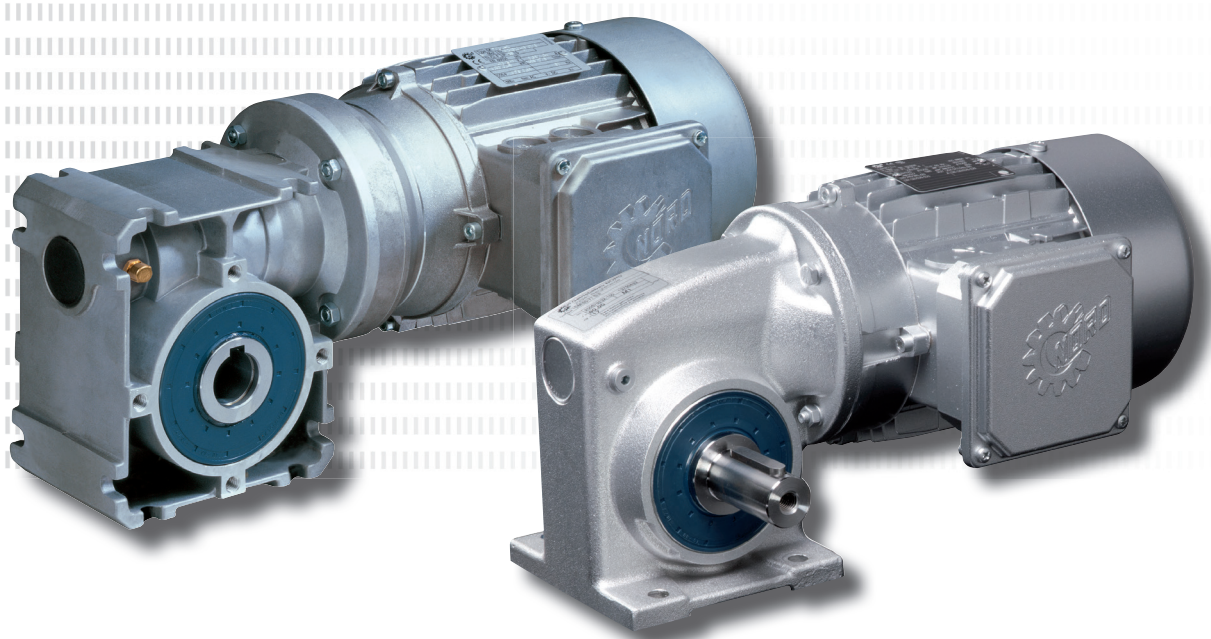




EN

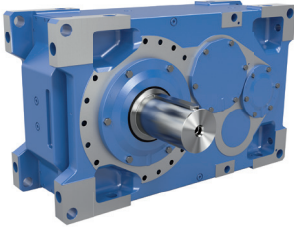
UNIVERSAL

WORM GEAR UNITS SI and SMI

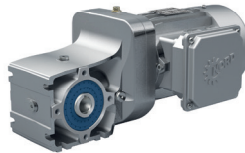
G1035



NORD DRIVESYSTEMS Group



Industrial gear units



Geared motors



Frequency inverters and motor starters

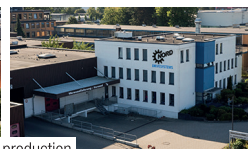
- ▶ Headquarters and technology centre in Bargteheide near Hamburg.
- ▶ Innovative drive solutions for more than 100 branches of industry.
- ▶ 7 production locations with cutting edge technology produce gear units, motors and drive electronics for complete drive systems from a single source.
- ▶ NORD has 51 subsidiaries in 36 countries and further sales partners in more than 50 countries, providing local stocks, assembly centres, technical support and customer service.
- ▶ More than 4,000 employees throughout the world create customised solutions.



Headquarters in Bargteheide



Gear unit production



Inverter production



Motor production



Production and assembly



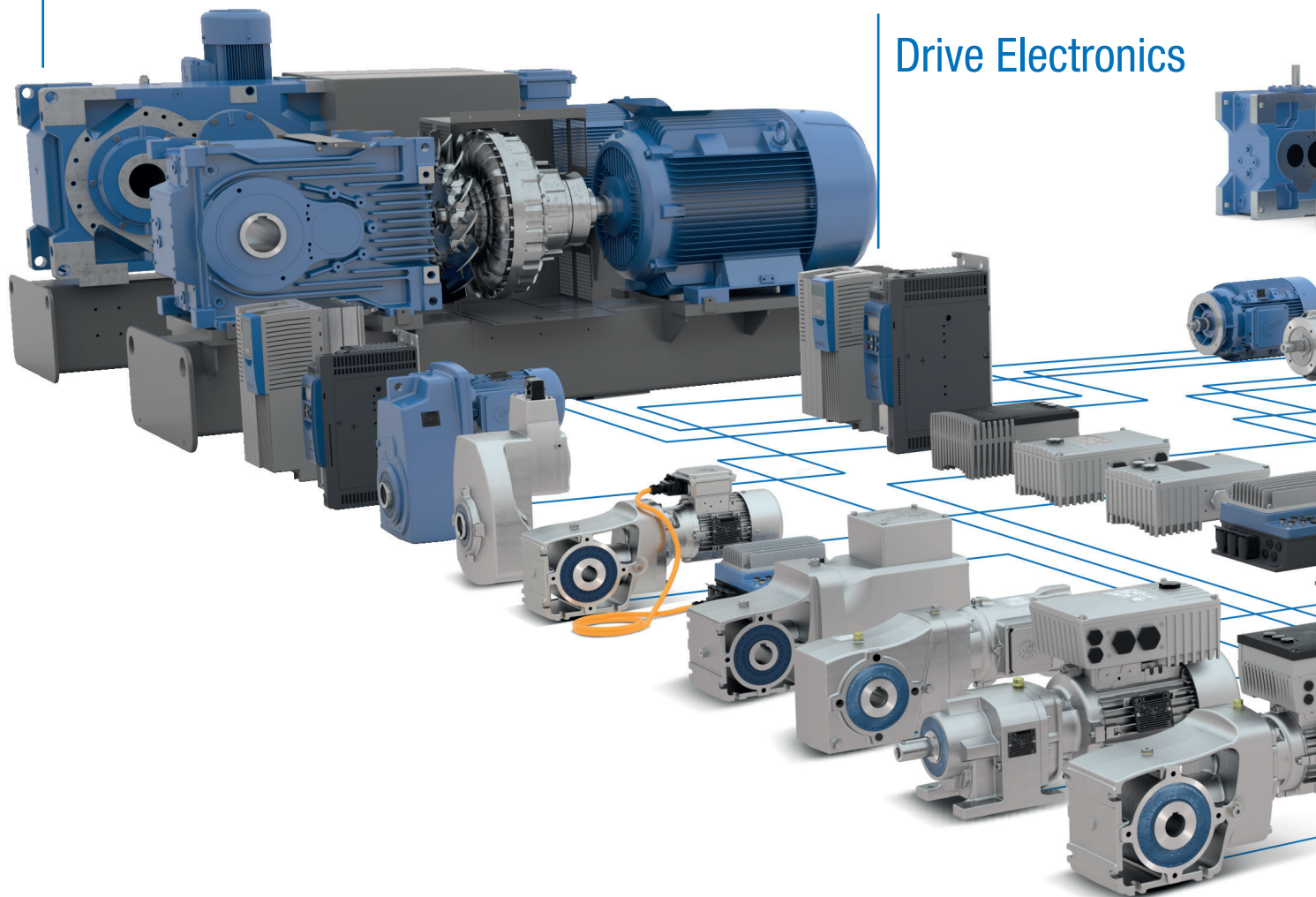
Motor mounting

Product overview

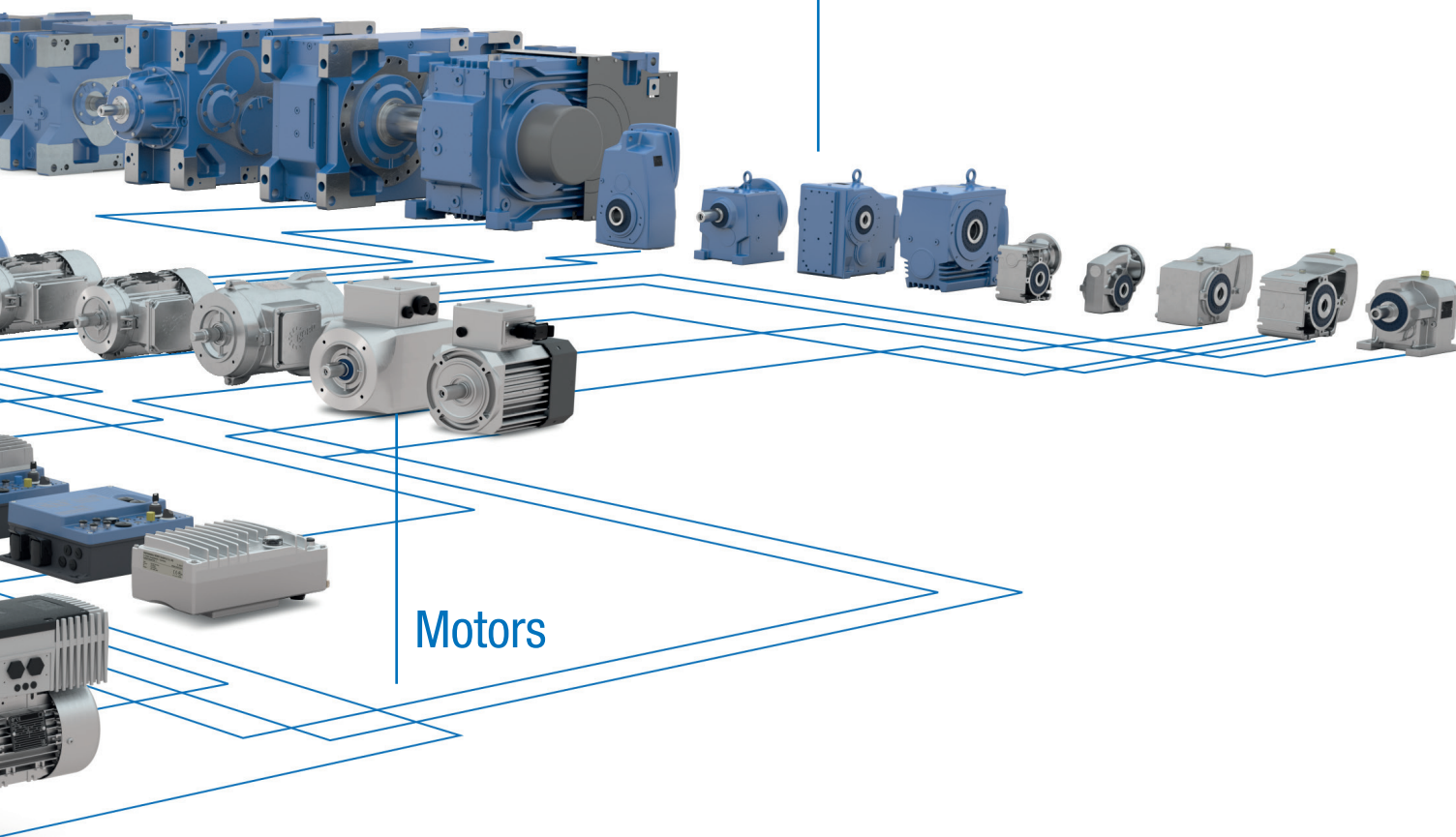
Information

Drive Solutions

Drive Electronics



Gear Units



Motors

ATEX

Our products are available in ATEX certified versions.

An optimum and individual drive solution can therefore be created using the modular NORD system consisting of the gear unit, motor and drive electronics. The modular products are perfectly matched and can be combined in many variants. In addition, we offer planning, project management, installation, and service from a single source. If required,

industry solutions can be configured as a complete logistics package, programmed and ready for use. Each modular NORD product combines: highest product quality, short planning and assembly times, high delivery availability, and a good price/ performance ratio. Our products are also available in ATEX certified versions.

Advantages of light metal gear units

Corrosion Resistant Aluminum Housing

Modern gear units need to be robust, compact, powerful, inexpensive - and above all, light: This is an advantage, because weight causes costs, especially if the gear unit has also to be transported during movement cycles. Because of this, aluminium alloy has become firmly established as a material for gear unit housings in many areas.

NORD DRIVESYSTEMS utilises many of the advantages provided by an optimised aluminum alloy for gear unit housings. In addition, the housing material has a certain corrosion protection and does not necessarily need to be painted. Last, not least, a housing made from aluminium conducts heat much better than a housing made from cast iron. This makes lower operating temperatures possible, which is good for the internal components of the gear unit and ensures a longer service life.

Advantages

- Often there is no need for painting
- Corrosion resistant for many applications
- Good thermal conductivity (lower temperature)
- Easy cleaning

Features

- Low weight
- Smooth surfaces
- Good thermal conductivity



The light and durable NORD aluminium UNICASE housings are produced in our Gadebusch factory in Mecklenburg-Vorpommern using the very latest production methods.



NORD UNICASE housings made from aluminium alloy

- Low weight
- Natural corrosion protection
- Good thermal conductivity



Helical gear units



2-stage bevel gear units
with NORD smooth surface



SMI worm gear units

Optimisation of the natural corrosion protection characteristics is possible with the use of **nsclupH** (see page 12-13).

nsclupH

Sealed Surface Conversion System



UNIVERSAL SI and SMI worm gear units

UNIVERSAL SI and SMI worm gear units from NORD DRIVESYSTEMS provide a high power density and are extremely compact. They feature quiet torque transfer.

Thanks to their simple and effective structure they take up considerably less space than other types of gear unit. The gear units are available in SI and SMI versions (with smooth closed surfaces).

Advantages

- A larger selection of shaft diameters provides greater flexibility for customers.
- On the drive side, IEC adapters provide several standard motor attachments for gear units of all sizes.
- Operation as a double gear unit is also possible for very high speed ratios.
- Thanks to fine casting, the improved surface structure with low levels of roughness gives dust less chance to adhere (washdown effect).
- Because of the large selection of components from the modular system, gear units can be optimally adapted to requirements.
- W-cylinder (free drive shaft)
- H10 first stage for larger gear ratios
- Torque support

Features

- SMI gear units made from cast aluminium with smooth surfaces are especially suitable for applications in the food and beverage industry.
- Gears and shafts from the tried-and-tested modular system
- SMI gear units available up to size 75 for up to 427 Nm



UNIVERSAL SI worm gear units (Catalogue G1035)

✓ Modular	
✓ Universal mounting	
✓ Life-long lubrication	
✓ IEC versions	
Sizes	5
kW	0.12 – 4.0
Nm	21 – 427
i	5.00:1 – 3,000.00:1

SMI worm gear units (Catalogue G1035)

✓ Smooth surfaces	
✓ Life-long lubrication	
✓ IEC versions	
Sizes	5
kW	0.12 – 4.0
Nm	21 – 427
i	5.00:1 – 3,000.0:1



Modular and flexible

- Use of various motors with IEC adapters
- The SMI flange housing can be combined with all SI series flanges
- Optimised NORD gear unit modules
- Standard IEC B5 / B14 interfaces for all sizes of gear unit

nsd **tuph**

Sealed Surface Conversion System

- Surface treatment
- No detachment possible
- Corrosion-resistant - just like stainless steel
- No flaking
- No corrosion penetration



Versatile application

- Aluminium housing with washdown
- Can be used in ATEX areas
- Many possible shaft diameters
- SMI up to size 75



SMI worm gear units
in foot-mounted version



SMI worm gear units
in flange-mounted version



UNIVERSAL SI worm gear units

DE

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