

DER ANTRIEB INDUSTRY 4.0 READY!



■ Autonomous

Enables decentralised sequence and movement control, independent of the central control system. Thanks to the integrated PLC, process data can be intelligently pre-processed.

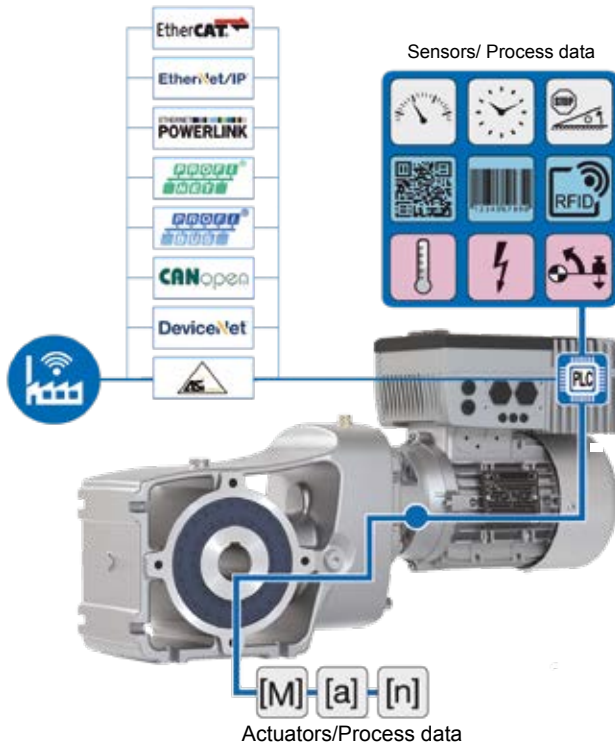
■ Networked

Interfaces to all common field buses and industrial Ethernets.

■ Scalable

The drive equipment can be optionally extended depending on the automation task.

Field bus/Industrial Ethernet



THE NORD CLOUD SOLUTION BENEFITS FOR USERS



Smart networking and collection of relevant drive data enables:

■ Predictive maintenance

Enables increased system availability and improved service planning.

■ Recording of power consumption

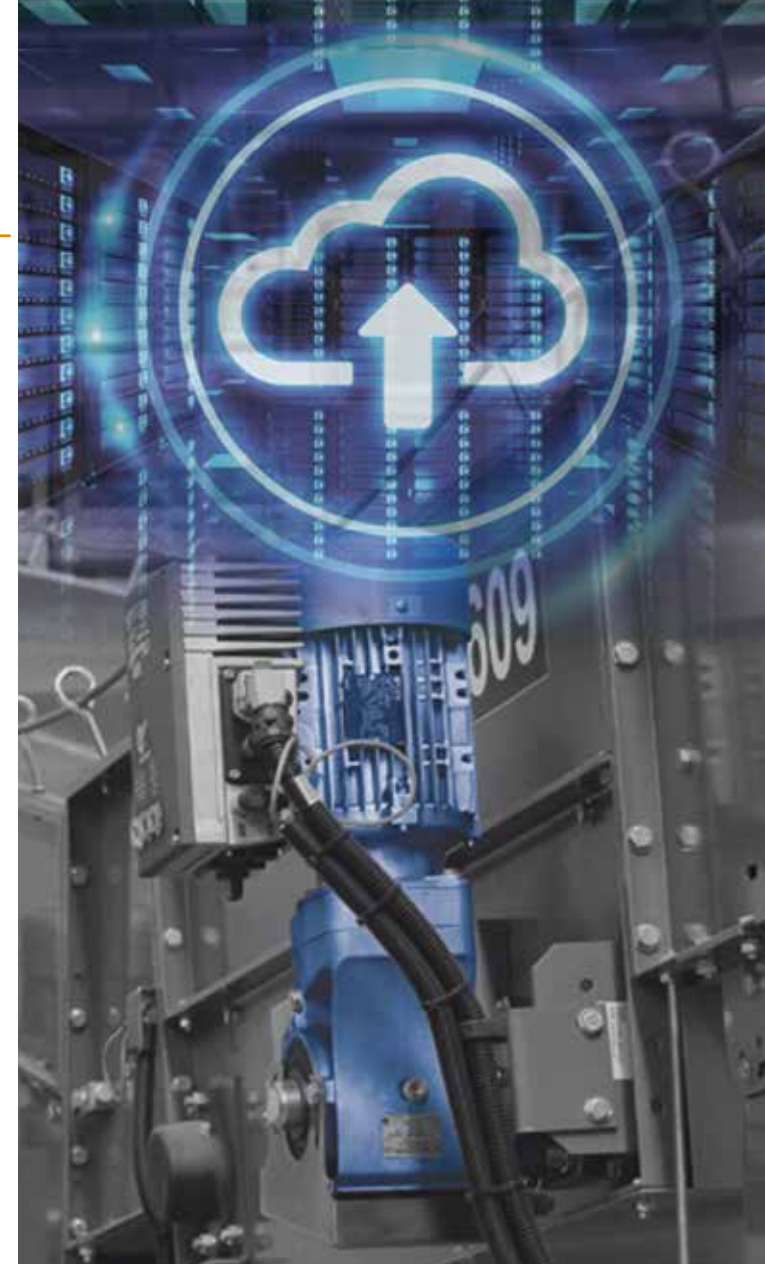
The NORD Cloud solution enables optimisation of power consumption.

■ Optimised plant dimensioning

Load profiles can be generated, from which optimised system dimensions can be derived.

■ Status monitoring from normal workstations

With a clear visualisation of drive statuses, deviations from the normal state can be quickly detected.



Headquarters:

Getriebebau NORD GmbH & Co. KG

Getriebebau-Nord-Str. 1, 22941 Bargteheide, Germany

T +49 (0) 45 32 / 289 - 0, F +49 (0) 45 32 / 289 - 22 53

info@nord.com, www.nord.com

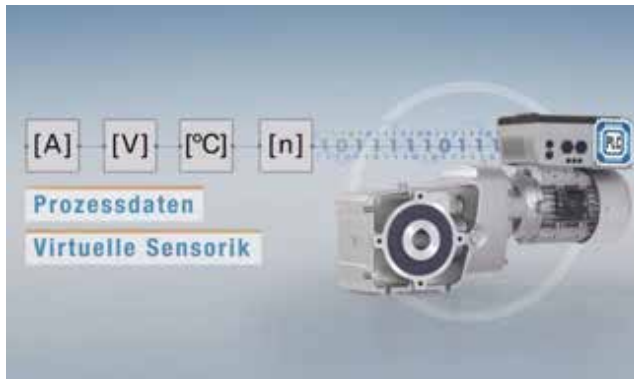
Member of the NORD DRIVESYSTEM Group

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**NORD CLOUD SOLUTION
INDUSTRY 4.0 READY!**



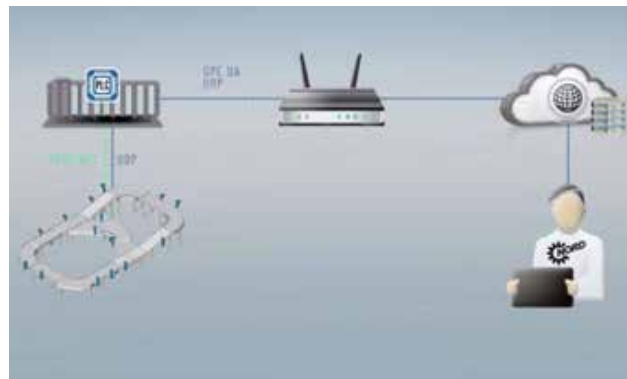


Der Antrieb – Industry 4.0 READY!

- Decentralised intelligence
- Internal PLC
- Reduces the load on the central control system
- Takes over control tasks autonomously

Advantage of pre-processed data

- Internal process data (e.g. current, voltage, status information, speed) and externally connected sensors (e.g. light barriers, vibration) are available in the frequency inverter.
- With intelligent algorithms, further measurements such as temperature can be calculated without sensors from the existing data (virtual sensors).
- Internal PLC enables pre-processing of status data.



Communication

- Parallel to the system control in a separate channel of the same bus structure
- Or decoupled from the central system control
 - Increased data security (only the drive data are read)
 - The load on the central control is reduced
- Only measurements which have changed compared with the previous ones are sent to the Cloud – this reduces the data volume and utilisation of the bus.

Intelligent drive units are a prerequisite for the digitalisation of production.

NORD provides:

- An optimally matched drive system consisting of the gear unit, motor and frequency inverter
- Decentralised intelligence
- Extensive communication facilities

See for yourself

- NORD DRIVESYSTEMS tests and implements the possibilities of cloud linkage in its own application test area and demonstrates these to its customers. For this, NORD has installed its own pilot plant.
- NORD also supplies its customers with intelligent drives for Industry 4.0 plant architecture as well as approaches for links to standard interfaces.
- NORD supports customers with the setup of their own Cloud solutions on the way to Industry 4.0.