

**OVER 70,000  
UNITS SOLD IN THE  
AIRPORT INDUSTRY**

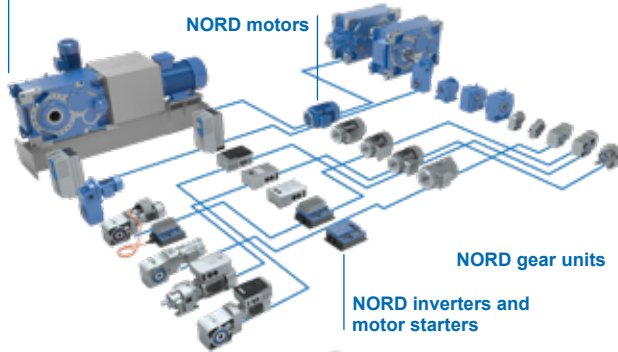


Intelligent Drivesystems | Worldwide Services

# LogiDrive®

## THE IDEAL SOLUTION FOR INTRALOGISTICS AND AIRPORT APPLICATIONS

NORD drive solutions



### ENERGY EFFICIENT **IE4**

- Meets or exceeds global efficiency standards
- Considerable reduction of total cost of ownership
- Efficient operation even at partial load and low speed applications common in airport industry

### VARIANT REDUCTION

- Standardization of gearmotors for intralogistics and airport applications
- Easy Engineering
- Easy Selection
- Large speed range through inverter technology

### SERVICE AND MAINTENANCE FRIENDLY

- Reduced spare part inventory
- Quick commissioning with plug-and-play technology
- Compact, space-saving design
- 25% weight reduction with lightweight aluminium housing
- Efficient component replacement thanks to modular design

### GLOBAL PRESENCE

- NORD DRIVESYSTEMS® is represented in 98 countries throughout the world.
- Global production, assembly, service and sales network

### NORD DRIVESYSTEMS® Group

**Headquarters and technology center**  
in Bargteheide, near Hamburg

#### Innovative drive solutions

for countless applications in more than 100 industries

#### Mechanical gear products

Parallel shaft, helical in-line, bevel and worm gear units

#### Electrical products

High-performance motors (IE1, IE3 & IE4)

#### Electronic products

Centralized and decentralized frequency inverters and motor starters

**7 production locations with cutting edge technology**  
for all drive components

**Subsidiaries and sales partners**  
in 98 countries on 5 continents

provide local inventory, assembly, technical support and industry-leading customer service.

**More than 3,900 employees throughout the world**  
create customized, engineered solutions.

Locate your NORD sales representative or authorized product distributor: [www.nord.com/locator](http://www.nord.com/locator)

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Members of the NORD DRIVESYSTEMS® Group



**IE4**

**(US)**

**ENERGY EFFICIENT  
STANDARDIZED  
SERVICE FRIENDLY**



# COMPLETE DRIVE SOLUTIONS FOR INTRALOGISTICS AND AIRPORTS

## LogiDrive®

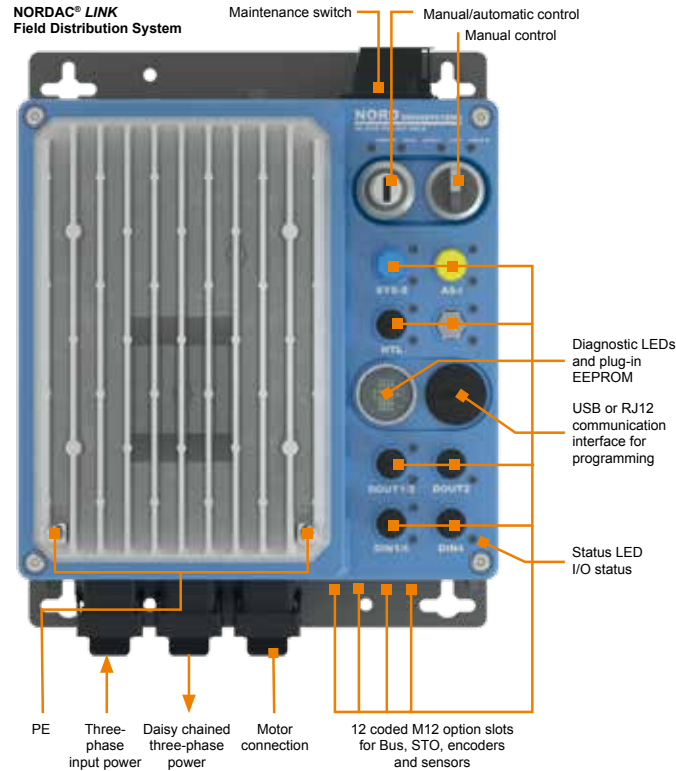


- Efficient two-stage bevel gearbox
- IE4 permanent magnet synchronous motor
- Power plug connector
- M12 connectors
- Incremental encoder
- Pre-assembled cables
- High overload capacity
- Standardized hollow shaft diameters

The LogiDrive® solution from NORD DRIVESYSTEMS® reduces engineering and commissioning effort:

- NORD inverters for intralogistics and airport applications control with synchronous and asynchronous motors.
- Easy engineering with the same housing dimensions on synchronous and asynchronous motors.

COMPARISON		
Motor frame size	IE3 asynchronous	IE4 synchronous
Size 80	1.0 hp (0.75 kW)	1.5 / 2.0 hp (1.1 / 1.5 kW)
Size 90	1.5 / 2.0 hp (1.1 / 1.5 kW)	2.0 / 3.0 / 4.0 hp (1.5 / 2.2 / 3.0 kW)
Size 100	3.0 / 4.0 hp (2.2 / 3.0 kW)	4.0 / 5.0 / 7.5 hp (3.0 / 4.0 / 5.5 kW)



### The field distributor NORDAC® LINK up to 10 hp (7.5 kW)

- Internal or external brake resistor
- External 24V DC power supply for the control board. This ensures the same potential for all drive units.
- The drive units can be accessed via the bus even without the 400V supply voltage, as the control board remains active due to the 24V DC supply.
- Decentralized installation close to the motor
- Plug-in EEPROM  
Data can be transferred if servicing is required.

# THE IE4 DRIVE ENERGY EFFICIENT

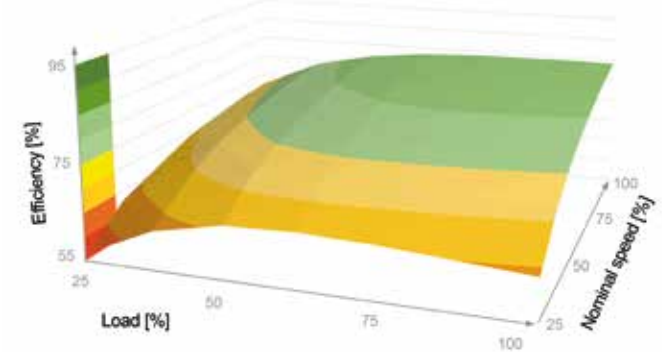
The use of IE4 synchronous motors minimizes overall life cycle costs. The NORD IE4 motor is considerably more efficient and has a shorter pay back period (ROI).



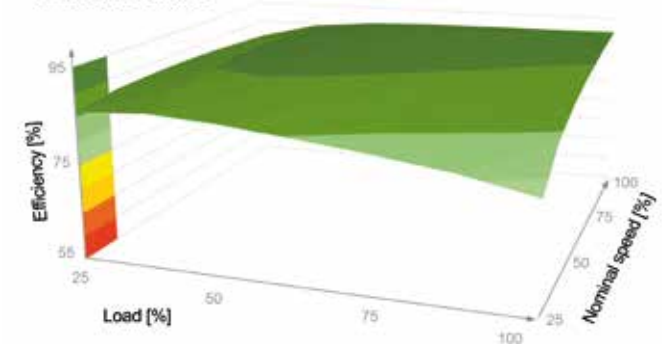
### Efficiency, load and speed of IE4 motors compared to IE3 motors

IE4 synchronous motors are considerably more efficient than IE3 asynchronous motors and reduce energy costs.

#### IE3 drive units



#### IE4 drive units



3D diagram: efficiency, load and speed