INTELLIGENT DRIVESYSTEMS, WORLDWIDE SERVICES

-drive solutions for baggage handling
NORD Drivesystems - A Global Leader

Producing over 1 million reducers annually and employing 3000 people globally, NORD is constantly improving and expanding its products to meet a never ending variety of industrial challenges.

Our successful rise to the elite list of gearmotor manufacturer's has been accomplished by listening and working closely with our clients. With the help of our customers we have created optimal drive solutions and together we continue solid growth.

North American Facilities
(sales, assembly & service)
• Waunakee, WI (Madison)
• Charlotte, NC
• Corona, CA (Los Angeles)
• Brampton, ON Canada (Toronto)
• Guadalupe, Mexico
• Over 40 District offices
• Over 500 Distributor branches

Global Facilities
• Operations in 35 Countries

NORD Product Portfolio

NORD Drivesystems’ product portfolio is extensive and continuously evolving in order to meet the needs of today’s fast-changing markets. NORD’s range of drive equipment includes: helical in-line, helical shaft-mount, helical-bevel, helical-worm and worm gear units with torques from 90 lb-in to 2,200,000 lb-in, readily available AC motors and from 1/6 HP to 250 HP, variable frequency drives up to 250 HP, and mechanical variable speed drives.

Innovative drive solutions
• Products for many industries
The check-in conveyor is ideal for transferring outbound baggage efficiently and effectively from the ticket-counter area to airside operations.

Belt conveyors transfer luggage, of varied shapes, to and around a corner in either a clockwise or counter-clockwise operation.

Vertical sorting is the more efficient & economical method to provide performance for high volumes where floor space is at a premium.
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Merging, or diverting, onto another conveyor line allows for the indexing of luggage. Great for lowered energy costs, and less maintenance.

Elevators, which dynamically lift or lower the baggage, are designed to optimize travel time between check-in and delivery to the airlines.

To overcome height differences, powerful drive units with high overload capability, brake management and positioning control features are required.
# FLEXIBLE COMBINATIONS FOR THE AIRPORT INDUSTRY

## Gearboxes

- Durable gears in UNICASE™ single-piece housings shoulder every load
- High efficiency
  - 2-stage bevel design
- High power density
- Long service life

## Motors

- Powerful motors keep drivesystems in motion under all conditions.
- Designed to global standards
- High overload capacity
- Wide voltage range

## AC Vector Drives

- Intelligent drive electronics provide exactly the control you need
- Scalable functionality
- Full fieldbus connectivity
- Wide power range
Quick Setup Tools / Bus Systems

Comprehensive communication options enable access to the drives from any level to allow for versatile means of parameterization.

- All common bus systems
- Quick and easy commissioning with a plug in operating box or NORDCON software.
- Convenient handheld ParameterBox for local operation.

Local Controls

Switches and buttons are available directly at the drive units to immediately initiate starts, stops, mode adjustments or resets.

- Mains isolator switch
- Selector switch remote or local.
- Switch for start/stop and forward/reverse.
- Fault indicator and reset button.

Quick Connectors

All interfaces are designed for easy handling to ensure that drive systems can be easily configured and installed.

- Easy plug & play solution with all common quick connectors.
- Supply cable & motor output.
- Pluggable sensors & encoders.
- Ready-made cables.
NORD’s commitment to the Airport Industry provides the solutions required for today’s demand while meeting tomorrow’s needs. Every passenger, every bag, moving efficiently on time, every time.

NORD DRIVESYSTEMS is approved by global consultants & operators.

Efficient
NORD drive solutions demonstrate a commitment to eco-friendly designs that reduce overall carbon emissions harmful to our environment.

- Premium-efficient helical and helical-bevel gear solutions with 95-97% efficiency.
- NORD’s low-inertia, inverter-rated motors are designed to meet the latest global energy requirements.
- NORD frequency inverters help to guarantee efficient operation, improved process control and optimized motor performance.
- Choosing NORD’s energy efficient drive solutions leads to longer equipment service life and lowers the total cost of ownership.

Reliable
Downtime. It’s the last word you can afford to hear when you work in the Airport Industry. Reliability is a direct result of NORD’s unique design and our components work in unison to keep key operations safe and profitable.

- Unicase gear housings provide accurate positioning of bearings and shafts.
- Autovent helps ensure a leak-free design.
- Infinite-life, high quality gearing, up to AGMA Class 13.
- Exceptional durability, quiet operation and long service life.

Proven
Heightened security measures demand faster baggage transport that require sophisticated conveyor systems. NORD’s electronics provide a manageable, flexible system with graduated functionality. Proven at airports around the world, the baggage handling industry relies on the dependable and economical products from NORD Drivesystems.

- NORD’s mechatronic drive systems are based on efficient 2-stage bevel geared motors which are light weight, easy to handle and energy efficient.
- NORD’s range of electronics include power connectors, Bus systems, and software tools in either wall mount or motor mounted frequency inverters.
Gear Unit
- High efficiency
- 2-stage bevel design
- High power density
- Long service life

Motor
- Designed to global standards
- High overload capacity
- Wired voltage range

AC Vector Drive
- Scalable functionality
- Full fieldbus connectivity
- Wide power range
NORD DRIVE SOLUTIONS FOR THE BAGGAGE HANDLING INDUSTRY

Motor Starter (Catalog F3015)
- Integrated electronic brake rectifier
- Consistent parameter structure
- Reversing starter with gentle start function

| U[V] | 3~200 ... 500 |
| P[hp] | 0.33 - 10 hp |

AC Vector Drive SK 180E (Catalog F3018)
- Stand alone operation
- 4 parameter sets (switch over online)
- Sensorless current vector control (ISD control)

| U[V] | 1~110 ... 120±10% |
| P[hp] | 0.33 - 3.0 hp |

AC Vector Drive SK 200E (Catalog F3020)
- Energy saving function
- Integrated “Posicon” position control

| U[V] | 1~110 ... 120±10% |
| P[hp] | 0.33 - 30 hp |

AC Vector Drive SK 500E (Catalog F3050)
- Energy saving function
- “Posicon” positioning control
- Plug-in modules, for communication (field bus)

| U[V] | 1~110 ... 120±10% |
| P[hp] | 0.33 - 175 hp |
Helical In-Line Gear Units (Catalog G1000)
- Foot or flange mounted
- Long life, low maintenance
- High quality sealing
- UNICASE™ housing

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<tr>
<td>lb-in</td>
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Parallel Shaft Gear Units (Catalog G1000)
- Foot, flange or shaft mounted
- Hollow or solid shaft
- Compact design
- UNICASE™ housing

<table>
<thead>
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Helical-Bevel Gear Units (Catalog G1000)
- Up to 97% efficiency
- Foot, flange or shaft mounted
- Hollow or solid shaft
- UNICASE™ housing

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<td>lb-in</td>
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FLEXBLOC™ Gear Units (Catalog G1035)
- Modular
- Universal mounting
- Lifetime lubrication
- IEC or NEMA versions

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<tr>
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<tr>
<td>lb-in</td>
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<td>i</td>
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Whether for baggage handling, jetways, walkways or moving large hangar doors, NORD DRIVESYSTEMS provides the optimum drive solution for every application.