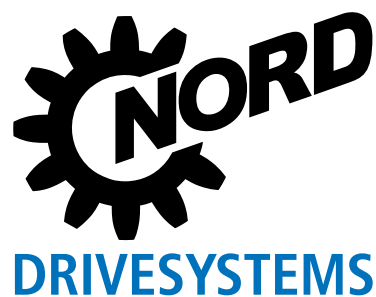


INTELLIGENT DRIVESYSTEMS, WORLDWIDE SERVICES



US

**DRIVE SOLUTIONS FOR
BAGGAGE HANDLING**



NORD DRIVESYSTEMS GROUP SERVING THE AIRPORT INDUSTRY





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.

Mechanical Products	Electrical Products	Electronic Products
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Gear units

Motors

Inverters & motor starters



Innovative drive solutions

- Products for many industries

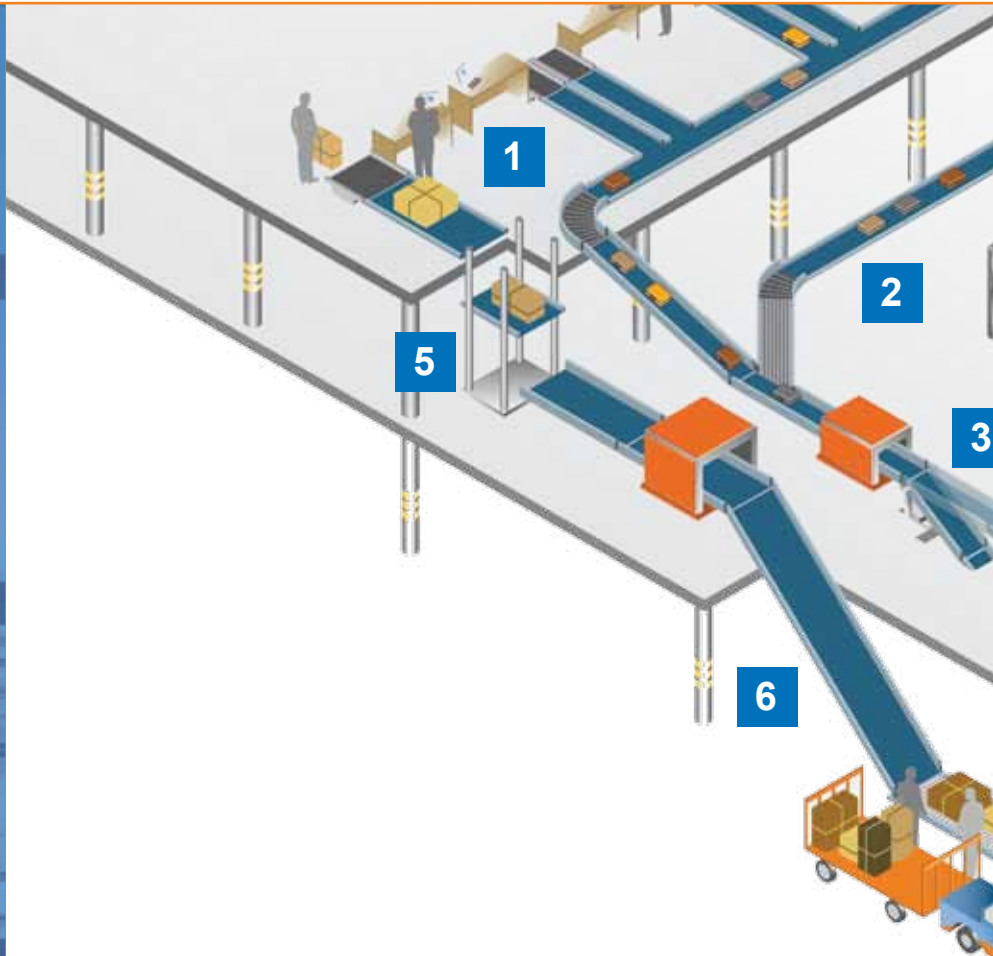
DRIVE SOLUTIONS FOR AUTOMATED BAGGAGE HANDLING SYSTEMS

Complete Drive Solutions

NORD Drivesystems is a global leader in drive solutions that are utilized throughout airports worldwide. NORD provides:

- Strong application knowledge and technical support
- Complete drive solutions from a single source
- Strong global presence and support
- Thousands of installed units in the airport industry
- Large product portfolio with high quality standards
- High reliability, efficiency and durability
- Recognized production quality according to global standards

NORD's innovative drive solutions are specified and utilized for a range of baggage handling applications. With an airport's reputation in the balance, we fully understand your requirements. We believe in building long term business relationships based on reliability and trust.



1 Check-In



The check-in conveyor is ideal for transferring outbound baggage efficiently and effectively from the ticket-counter area to airside operations.

2 Belt Conveyor

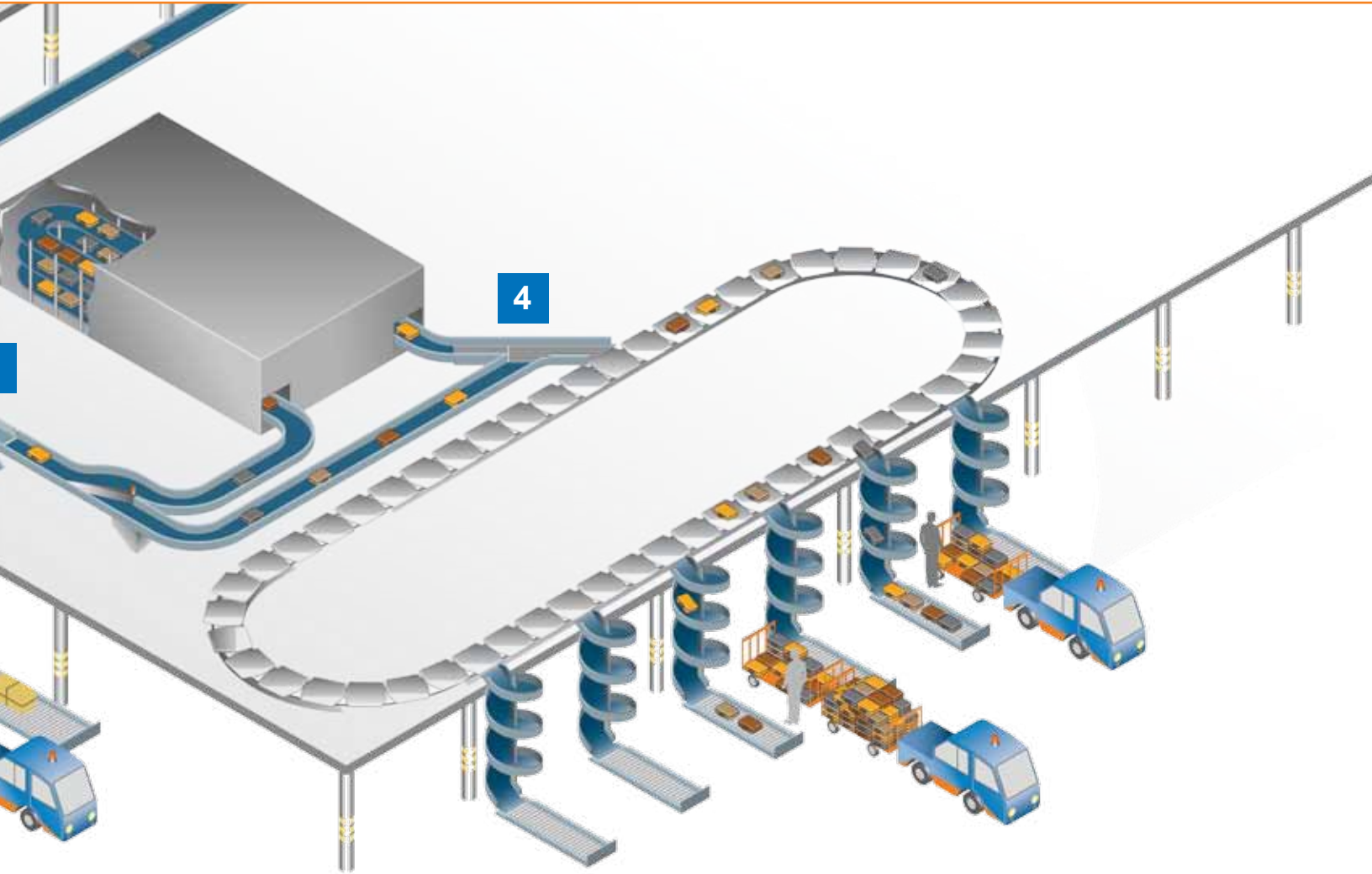


Belt conveyors transfer luggage, of varied shapes, to and around a corner in either a clockwise or counter-clockwise operation

3 Vertical



Vertical conveyors are efficient to provide volume to a pre-



Vertical Switch



Vertical sorting is the more efficient & economical method to provide performance for high volumes where floor space is at a premium.

4 Merge Conveyor



Merging, or diverting, onto another conveyor line allows for the indexing of luggage. Great for lowered energy costs, and less maintenance.

5 Elevator



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

6 Incline Conveyor



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.

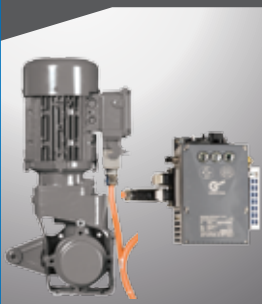
Local Controls



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.



EFFICIENT, RELIABLE & PROVEN DRIVE SOLUTIONS FOR AIRPORTS

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.

- Unicast 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%
	1~200 ... 240 ± 10%
	3~200 ... 240 ± 10%
	3~380 ... 480 -20% / +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%
	1~200 ... 240 ± 10%
	3~200 ... 240 ± 10%
	3~380 ... 500 -20% / +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%
	1~200 ... 240 ± 10%
	3~200 ... 240 ± 10%
	3~380 ... 480 -20% / +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

hp	0.16 - 200
lb-in	23 - 204,983
i	1.24:1 - 14,340.31:1

Parallel Shaft Gear Units (Catalog G1000)



- Foot, flange or shaft mounted
- Hollow or solid shaft
- Compact design
- UNICASE™ housing

hp	0.16 - 250
lb-in	575 - 796,567
i	4.03:1 - 6,616.79:1

Helical-Bevel Gear Units (Catalog G1000)



- Up to 97% efficiency
- Foot, flange or shaft mounted
- Hollow or solid shaft
- UNICASE™ housing

hp	0.16 - 250
lb-in	796 - 442,537
i	3.58:1 - 13,432.68:1

FLEXBLOC™ Gear Units (Catalog G1035)



- Modular
- Universal mounting
- Lifetime lubrication
- IEC or NEMA versions

hp	0.33 - 5.0
lb-in	185 - 4,683
i	5.00:1 - 3,000:1



Whether for baggage handling, jetways,
walkways or moving large hangar doors

NORD DRIVESYSTEMS

provides the optimum drive solution
for every application.



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NORD Gear Corporation

MEMBER OF THE NORD DRIVESYSTEMS GROUP
info.us@nord.com

Waunakee, WI
800 NORD Drive
Waunakee, WI 53597
Tel. 608.849.7300

Corona, CA
1180 Railroad St.
Corona, CA 92882
Tel. 608.849.0190

Charlotte, NC
300 Forsyth Hall Dr.
Charlotte, NC 53597
Tel. 608.849.0140

NORD Gear Limited - Canada

MEMBER OF THE NORD DRIVESYSTEMS GROUP
info.ca@nord.com

Brampton, ON
41 West Drive
Brampton, ON L6T4A1
Tel. 800.668.4378