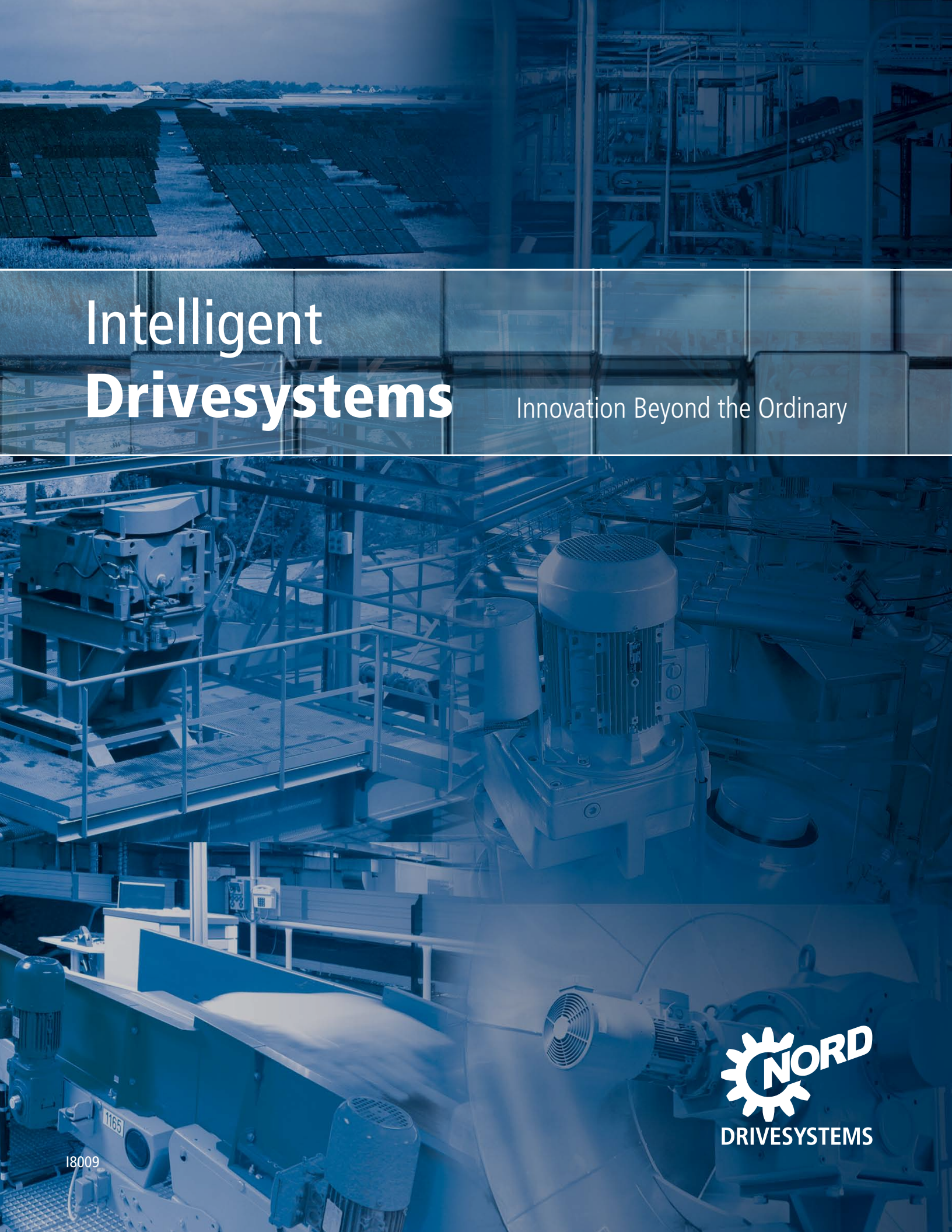


Intelligent **Drivesystems**

Innovation Beyond the Ordinary

NORD DRIVESYSTEMS

I8009

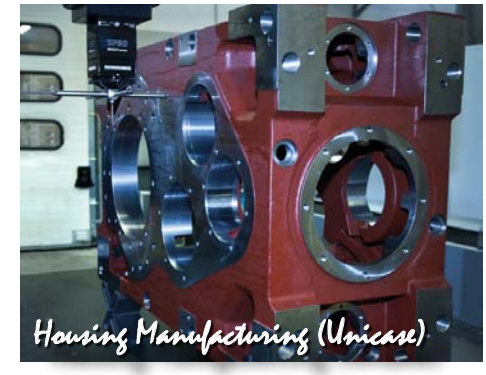
Our development engineers design products with years of proven expertise. Careful planning, innovative designs, verification testing and ongoing research over the entire development process ensures that NORD delivers the most reliable and high quality products available in today's market.

Innovation
Beyond the Ordinary

At NORD Gear we are continually thinking of new practices to overcome common problems in the power transmission industry. Either with improved manufacturing and automation methods or simply well thought solutions to your everyday difficulties, we are always thinking beyond the ordinary.

UNICASE™ Design

- Improved sealing integrity
- Quiet operation
- High output torque capabilities
- Extended lubrication life
- Longer gear and bearing life
- Superior dependability/low maintenance/longer life



High-Strength Gear Cases

NORD gear housings are made for maximum torque delivery.

- Thick housing wall cross-sections
- Torsionally stiff
- Holds shaft centers
- Interior housing walls sealed – for long service life

Stainless Steel Paint

The standard NORD protective finish — not really a paint, but a resin with 316 stainless steel.

- 40% greater impact resistance
- Tough industrial primer
- Resistant to most solutions and cleaning solvents
- USDA approved for food processing (incidental contact)

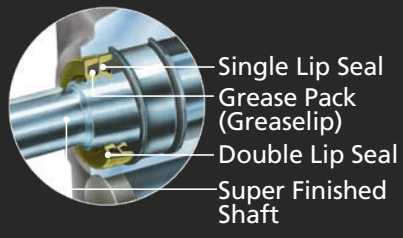
High Quality Gearing

Essential to low noise, low maintenance and high durability!

- Designed and manufactured up to AGMA CLASS 13 standards.
- 8620 case-hardened steel
- Exceptional hardness: 58 Rc minimum
- High-speed gears are ground; low-speed gears skive hobbed
- 275% momentary overload capacity

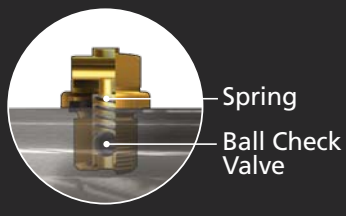
QUADRILIP™ Sealing

- Improved sealing integrity
- longer seal life
- Cleaner lubricating oil
- Super finished shaft
- Grease lip barrier



AUTOVENT™

- Cleaner gearbox oil
- Extended lubrication life
- Longer-lasting seals, gears, and bearings



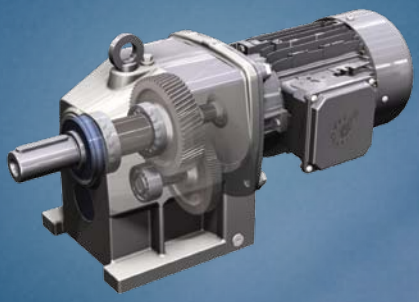
Energy Efficiency

Lowering your operating costs is one of our greatest goals! NORD research and development focuses on energy efficiency. With gearboxes, motors, and frequency inverters all designed for lower energy consumption, our fully diverse line of in-line or right-angle units and motors have been developed to suit your needs.

NORD DRIVESYSTEMS

Mechanical Products
Overview

By continuously introducing new practices in overcoming common problems, NORD sets the standards that the competition follows. The UNICASE™ designed gear case housing, along with protective features such as the AUTOVENT™ and QUADRILIP™ Sealing, are examples of the innovative solutions developed for the power transmission industry. This trend continues by offering a variety of surface protection methods which now includes the NSDtuph sealed surface conversion system. Exceptional product design and innovation beyond the ordinary are what you should continue to expect from NORD Drivesystems.

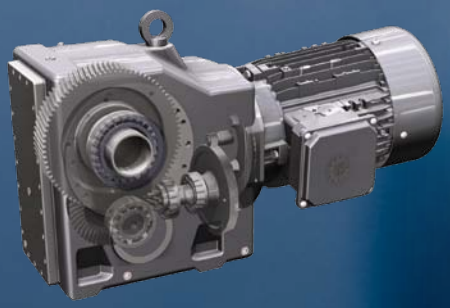


Helical In-Line

Power Range: 0.16 HP - 200 HP
Torque Capacity: Up to 205,000 lb-in
Ratio Range: 1.82:1 - 300,000:1
Output Speed: < 0.1 rpm - 960 rpm
Efficiency: Up to 98% Efficient

NORDBIOC.1®

Power Range: 0.16 HP - 50 HP
Torque Capacity: Up to 29,205 lb-in
Ratio Range: 2.10:1 - 456.77:1
Output Speed: 3.8 rpm - 830 rpm
Efficiency: Up to 97% Efficient



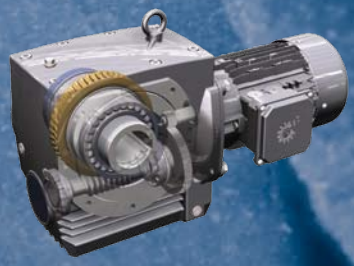
90.1 Helical-Bevel

Torque Capacity: Up to 442,500 lb-in
Power Range: 0.16 HP - 200 HP
Ratio Range: 8.04:1 - 300,000:1
Output Speed: 0.1 rpm - 218 rpm
Efficiency: Up to 95% Efficient

92.1 / 93.1 Helical-Bevel

Torque Capacity: 797-5,841 lb-in
Power Range: 0.16 HP - 12.0 HP
Ratio Range: 3.58:1 - 70:1
Output Speed: 25 rpm - 490 rpm
Efficiency: Up to 97% Efficient

NORD DRIVESYSTEMS

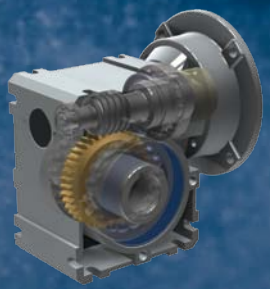


Helical-Worm

Torque Capacity: 407 lb-in-27,350 lb-in
Power Range: 0.16 HP - 20 HP
Ratio Range: 4.40:1 - 7095.12:1
Output Speed: 0.25 rpm - 400 rpm
Efficiency: Up to 94% Efficient

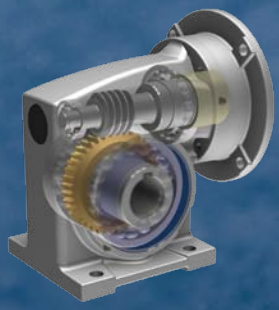
Parallel Helical CLINCHER™

Power Range: 0.16 HP - 200 HP
Torque Capacity: Up to 796,500 lb-in
Ratio Range: 4.03:1 - 300,000:1
Output Speed: 0.1 rpm - 430 rpm
Efficiency: Up to 97% Efficient



FLEXBLOC™ Worm

Torque Capacity: 186 lb-in - 4,683 lb-in
Power Range: 0.16 HP - 5.0 HP
Ratio Range: 5:1 - 10,000:1
Output Speed: 0.18 rpm - 350 rpm

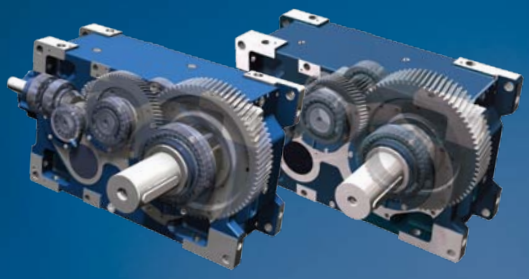


MINICASE™ Worm

Torque Capacity: 186 lb-in - 4,683 lb-in
Power Range: 0.16 HP - 5.0 HP
Ratio Range: 5:1 - 10,000:1
Output Speed: 0.18 rpm - 350 rpm

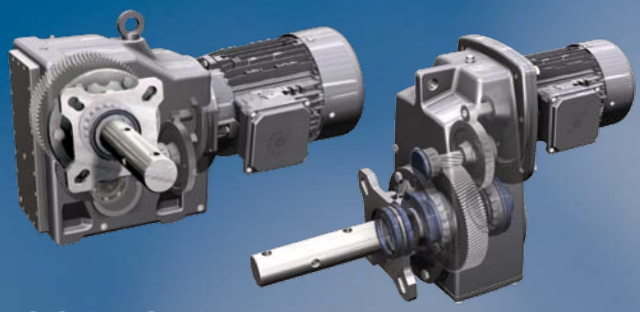
Specialty Products **Overview**

NORD's commitment to special applications is fully supported to serve your harsh, rugged environment. Our MAXXDRIVE™ large industrial gear unit now offers more gear case sizes and is available now; the efficient Screw Conveyor Package is offered in either helical-bevel or offset parallel and we won't keep you guessing whether we provide the mechanical variable speed product.



MAXXDRIVE™ - Large Industrial Gear Unit

Torque Capacity: 224,000 lb-in - 2,196,000 lb-in
Power Range: 3 HP - 1,300 HP
Ratio Range: 5.54:1 - 400:1 (Parallel Shaft)
12.5:1 - 630:1 (Right-Angle)
>1600:1 (Compound Assemblies)
Output Speed: 1.0 rpm - 316 rpm

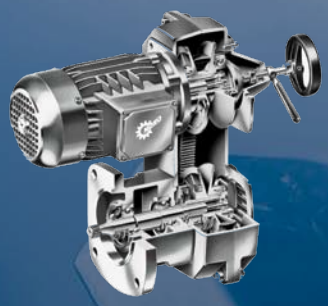


SCP - Screw Conveyor Package

Torque Capacity: Up to 53,100 lb-in
Power Range: 0.16 HP - 60 HP
Ratio Range: 4.32:1 - 4,246.38:1
Output Speed: 0.41 rpm - 405 rpm
Efficiency: Up to 97% Efficient
CEMA Drive Shaft Sizes: 1-1/2", 2", 2-7/16", 3", 3-7/16

NORDISC® - Variable Speed Friction Drive

Torque Capacity: Up to 442,500 lb-in
Power Range: 0.16 HP - 7.5 HP
Ratio Range: 7:1



TITAN™ - Variable Speed Belt Drive

Torque Capacity: 177,000 lb-in
Power Range: 0.16 HP - 150 HP
Ratio Range: 6:1 Max

Electronic Products
Overview

NORD offers high and premium efficient motors and brakemotors, wall mount AC Vector drives and motor mounted, decentralized inverters to provide a high quality, competitive, package. With our ever expanding line of products and large component inventory you can look to NORD for a clean, safe and reliable complete drive system solution.

SK 200E AC Vector Drives

Decentralized High Performance Ratings

380-480V: 3-phase to 30 HP

200-240V: 3 phase to 15 HP

200-240V: 1-phase to 1.5 HP

100-120V: 1-phase to 1HP (2X5E series Only)

SK 500E AC Vector Drives

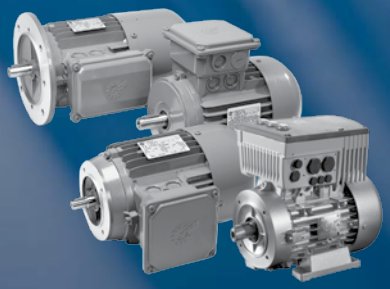
Compact High Performance Ratings

380-480V: 3-phase to 120 HP

200-240V: 3 phase to 15 HP

200-240V: 1-phase to 3 HP

100-120V: 1-phase to 1.5HP



High Performance Motors & Brakemotors

Inverter/Vector Duty

Power Range : 0.16 HP - 250 HP

Voltage : 115V, 200V, 230V, 380V, 400V, 415V, 460V, 575V

Frequency : 50Hz or 60Hz

Pole Configurations : 4 (standard), 2, 6, 4-2, and 8-2 (optional)

Efficiency : Standard, High or Premium efficiency options

Approvals :

NORD DRIVESYSTEMS

Corona (Los Angeles), CA Facility

Waunakee (Madison), WI Facility

Charlotte, NC Facility

Brampton (Toronto), Ontario Facility

NORD
DRIVESYSTEMS
www.nord.com

NORD Gear Corporation
MEMBER OF THE NORD DRIVESYSTEMS GROUP
National Customer Service Toll-Free: 888.314.6673
info.us@nord.com

NORD Gear Limited
MEMBER OF THE NORD DRIVESYSTEMS GROUP
Toll-Free in Canada: 800.668.4378
info.ca@nord.com

WEST	MIDWEST	EAST	CANADA
Corona, CA (Los Angeles) Phone: 608.849.0190	Waunakee, WI (Madison) Phone: 608.849.7300	Charlotte, NC Phone: 608.849.0140	Brampton, ON (Toronto) Phone: 905.796.3606

100200013/0913