Since its beginning in 1883, Duff-Norton®, a Columbus McKinnon brand, has earned a reputation for manufacturing reliable, high-quality products that meet the industrial lifting, positioning, and transfer needs of customers worldwide. Getting the most from a motion system requires finding the right solution — one that offers efficiency, durability, and safety at the desired speed. Our advanced linear motion solutions from Duff-Norton include linear actuators, screw jacks, and rotary unions, and we offer precision lifting and positioning capabilities for everything from aerospace to metals production. And with new automation capabilities, we can meet the most challenging lifting, positioning, and transfer demands while maximizing efficiency.



SCREW JACKS
(MECHANICAL ACTUATORS)

PRODUCT RANGE

- Imperial Machine Screw and Ball Screw Actuators (Screw Jacks) ranging in size from 1/4 to 350 ton, Metric Trapezoidal Screw Actuators ranging in size from 5 kN to 500 kN
- **Specialty Actuators:** Stainless Steel, Anti-Backlash, Anode Jacks, Micro-miniature
- **Actuator controls:** control panels, rotary limit switches, potentiometer/transducers, encoders, rotary counters
- Power transmission components: mitre boxes, couplings, connecting shafts, pillow and flange blocks, gear reducers, c-motor adaptors, hand wheels

FEATURES AND BENEFITS

- Broadest range of actuator capacities and types in the industry
- Modular concept allows for unlimited configurations

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Aluminum and Steel • Paper • Communications • Entertainment
Food and Beverage • Plastics • Rubber • Packaging
Industrial Machinery • Transportation





Columbus McKinnon

Together we create intelligent motion solutions that move the world forward and improve lives



AUTOMATION

Operational efficiency and streamlined production processes are critical to businesses worldwide. Our Magnetek® digital power and motion control solutions leverage automation technology to improve our customers' safety, uptime, and productivity. We are offering these intelligent solutions from ceiling to floor across our entire product portfolio.



LIFTING SOLUTIONS

Whether a situation calls for a powered or manual hoist, or a complete overhead lifting system, our equipment gets the job done. With trusted brands like CM®, Yale®, STAHL CraneSystems, Unified Industries and Coffing Hoists, our manual and powered lifting solutions enable intelligent motion, creating smarter, safer and more productive operations.



CONVEYANCE

With one of the most comprehensive portfolios of high-precision specialty conveying and accumulation systems in the industry, we improve efficiency and productivity. Standard and highly engineered custom conveyor solutions from Dorner® and Garvey® are serving the needs of markets, including pharmaceuticals, life sciences, food and beverage, e-commerce and industrial automation.



LINEAR MOTION

Getting the most f… motion system re… finding the right s… — one that offers efficiency, durabili… and safety at the desired speed. Ou… advanced linear motion solutions from Duff-Norton® include linear actuators, screw jacks and rotary unions. We offer precision lifting and positioning capabilities for everything from aerospace to metals production. And with new automation capabilities, we can meet the most challenging lifting, positioning and transfer demands while maximizing efficiency.



CMCO
INTELLIGENT MOTION
LINEAR MOTION SOLUTIONS

Duff-Norton | PFAFF silberblau | MAGNETEK

USA
p: 800.477.5002
p: 704.588.4610
duffnorton@cmworks.com | www.cmco.com/duff-norton

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POSITIONING AND PROCESS SOLUTIONS









Duff-Norton®

Duff-Norton®



SUPER CYLINDERS

PRODUCT RANGE

- High speeds up to 379 in/min (160 mm/sec)
- High capacities up to 50,000 lbs (222.5 Kn)
- Stroke lengths up to 13 feet (3.96 Meters)
- Continuous duty ratings (SCN series)
- Low power requirements (SCN series)
- Aluminum bronze worm gears (SCW series)
- Helical and helical bevel gears (SCN series)
- Ball screw or acme screw
- Clevis mounting or trunnion mounting
- Controls

FEATURES AND BENEFITS

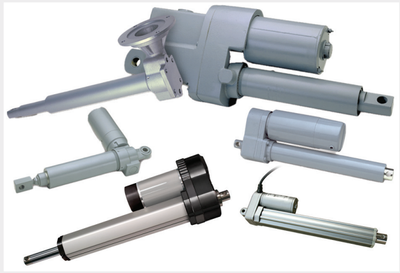
- Excellent replacement for hydraulic cylinders
- Broadest combination of speeds and capacities in the industry
- Durable construction means less maintenance and longer service life
- 2D/3D CAD models available

▼

Aggregate and Mining • Food • Incineration
Industrial Machinery • Packaging • Paper • Security • Steel
Transportation • Water Sewage







LINEAR ACTUATORS

PRODUCT RANGE

Industrial Actuators:

- Capacities from 25 to 2000 lbs (.11 to 8.89 kN)
- Speeds up to 2.8 in/sec (71 mm/sec)
- Stroke lengths up to 36 in (914.4 mm)
- Multiple AC and DC voltages
- Custom actuators available

Commercial Actuators:

- Capacities to 675 lbs (3 kN)
- Speeds up to 1.3 in/sec (33.02 mm/sec)
- Stroke lengths up to 24 in (609.6 mm)
- Multiple AC and DC voltages
- Synchronized controls available on some models

FEATURES AND BENEFITS

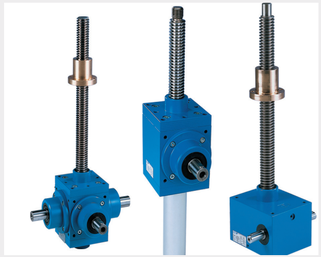
- Manufacturing actuators for over 40 years
- 2D/3D CAD models available
- Excellent replacement for hydraulic cylinders
- IP66 rated models MPB, SPA, LT, XT, and CMLA

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Automotive • Construction • Ergonomics • Food and Beverage
Health and Fitness • Industrial Machinery • Marine • Material Handling
Packaging • Transportation







CUBIC and BEVEL GEAR SCREW JACKS

PRODUCT RANGE

- **Cubic Screw Jacks:** Capacities from 2.5kN to 510kN (1/4 ton to 51 ton)
- **Bevel Gear Screw Jacks:** Capacities from 15kN to 90kN (1.5 ton to 9 ton)
- **Operating Temperature:** 0°C up to 40°C
- Acme and ball screw models are available
- Translating screw (type 1) and rotating screw (type 2) models available

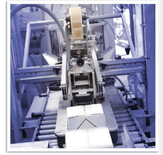
FEATURES AND BENEFITS

- **Versatile Mounting:** Unit can be mounted upright or inverted
- Bevel Gear Screw Jacks eliminate the need for mitre boxes
- Bevel Gear Screw Jacks are 4 times faster than “Classic Screw Jacks”

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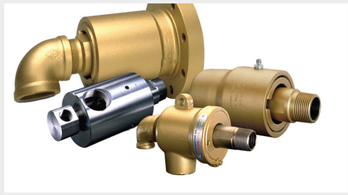
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Rubber • Transportation





PFAFF silberblau | ALLTEC antriebstechnik

Products manufactured by Pfaff-silberblau and Alltec Antriebstechnik of Germany, sister companies of Duff-Norton.



ROTARY UNIONS®

PRODUCT RANGE

Rotary Unions:

- Rotary Unions for water, steam, air, and hot oil applications
- Available in sizes from 1/8 in to 6 in inside diameter
- Mono flow and dual flow designs
- Various materials, speeds, pressures, and threads available

FEATURES AND BENEFITS

- Replaceable cartridge design
- Wide range of low maintenance, general purpose rotary unions
- Superior seal design

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CONTROL SYSTEMS

PRODUCT RANGE

- Speeds from fractional horsepower sizes up 200 HP
- Multiple axis of motion
- AC or DC controls
- Load sensing
- Servo applications
- A large majority of our controls can be made with UL or cUL certifications

FEATURES AND BENEFITS

- Stack lights
- HMI
- Pendants
- Programming ports
- Quick disconnects
- Enclosure heaters
- Explosion-proof enclosures
- Remote pushbutton stations
- Motor cables
- Feedback cables
- Console enclosures
- NEMA type 4/4x enclosures
- LED indicators

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Aluminum and Steel • Automation • Automotive • Communications
Construction • Entertainment • Food and Beverage • Industrial
Machinery Packaging • Plastics • Rubber • Transportation •And more



