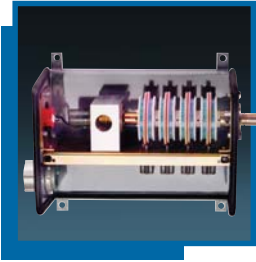


# Mill-Duty Products



## 1980 Rotating Cam Limit Switch

- Micro-adjust cams provide easy adjustment at any shaft position
- 2 to 40 Circuits
- Wide range of gear ratios available from stock
- Available in NEMA 1, 12, 4, 7, 9 (IP 23, 55, 66) and mill-duty plate steel enclosures
- Custom cam switch/encoder packages combine continuous position output with hard contact over-travel limits



## PLC Encoder Modules and Programmable Limit Switches (PLS)

- Provides monitoring of resolver or Linear Displacement Transducers (LDTs) from a remote, safe location
- Converts sensor signal to compatible digital, analog, or limit switch outputs
- High-speed output update times improve control resolution and repeatability
- A/B SLC-500 and PLC-5 Cards (Resolver and LDT)



## 1986 Standard Resolver Packages

- Packages are direct bolt-in replacements for most English and metric size encoders
- Internal precision gear reducers for multi-turn applications
- Numerous standard ratios stocked with customs available
- Special resolvers compatible with most competitors' electronic modules are in stock

## When All Others Fail!

AMETEK Automation and Process Technologies markets, engineers and manufacture sensors and controls for demanding and harsh industrial environments. Products include GEMCO linear and rotary position sensors and controls, industrial brakes systems, CATRAC™ cable and hose carriers, B/W™ liquid level controls. AMETEK APT has more than 50 years of application experience and markets its products globally.



## 925 Mill-Duty Cable Reel Sensor

- Converts linear machine motion to rotary motion to turn rotary position or velocity sensors
- Provides absolute, incremental, analog, or cam switch outputs
- Outputs are electrically compatible with all existing control circuitry
- Stainless steel cable, large dual spring motors, and 12 gauge steel housings survive the mill environment
- Stroke Length to 100 Ft



## 952 BlueOx Linear Displacement Transducer (LDT)

- Magnetostrictive LDT for high shock and vibration areas (toughest in the industry)
- Resolution to .001 inch
- Lengths up to 168" in 0.1" increments also available with:
  - Voltage, Current, Digital, PWM, Start/Stop & Quadrature Outputs
  - Quadrature output for direct interface to incremental input or counter cards
  - Resolutions up to 9999 pulses per inch
  - Burst mode makes sensor truly absolute



## GEMCO Industrial Brake Systems

- Hydraulic Brakes, AISE electric brakes
- Custom brakes engineered to requirement
- Self-adjustment feature available on electro-thrust brakes
- Competitive pricing and lead times



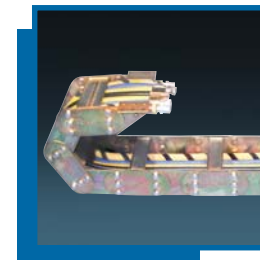
## 955 The Brik Low Profile Linear Displacement Transducer (LDT)

- Aluminum extruded channel provides easy mounting
- Low cost linear position sensor
- Lengths to 180 inches
- Green/red status LED indicator
- Analog, digital pulses & Quadrature outputs available



## 953 VMAX Linear Displacement Transducer

- Shock resistant to 1000Gs (lab tested)
- Vibration resistant to 30Gs (lab tested)
- SSI (Synchronous Serial Interface) 24, 25, or 26 Bit, Binary or Gray Code, Synchronous or Asynchronous Mode
- Analog outputs, 0-10 VDC, +/-10 VDC, 0-5 VDC, +/- 5 VDC, 4-20mA
- Digital output Start/Stop, Control Pulse, and Variable Pulse (PWM)
- Removable cartridge
- IP68 rating
- Stroke length to 300"
- Input power range is 7 to 30 VDC @ 1 watt typical
- Weather/contaminant resistant
- Programmable zero and span
- Diagnostic Tri-Color LED



## CATRAC™ Cable and Hose Carriers

- Double welded, box beam, bolted construction
- Full line of standard sizes
- Special materials of construction and coatings available
- Custom designs are a specialty
- Available in nylon



## 950 MD Mill-Duty Linear Displacement Transducer (LDT)

- All 316 stainless steel construction
- Adjustable Trunnion and swivel ball mount standard
- Air purge fittings are standard on all units with Vortex coolers available for high temperature applications
- Custom water-cooled versions available
- Repeatable to  $\pm 0.001"$  ( $\pm 0.025$  mm)



## Resolver/Encoder Packages for GEC Gem 80 Drive Systems

- Direct bolt-in replacement for OEM supplied sensor package
- Designed for improved input shaft load resistance
- 316 stainless steel housing, dual shaft seals, and mill-duty cable connectors for high moisture/corrosive environments
- Outputs compatible with most Gem 80 drive systems
- Custom variations available



## B/W Liquid Level Control

- Full line of point level controls — conductive and float
- State-of-the-art continuous level instruments and control
- EPA approved leak detection in below ground tanks



DeviceNet.