MOTION

- Multi-Axis and Custom Electro-Mechanical Systems
- Servo/Step Motors, Drives and Controls
- Electric Cylinders
- Linear and Rotary Actuators and Precision Stages
- Precision Gears and Power Transmission
- Components and Motion Accessories
Multi-Axis and Custom Electro-Mechanical Systems

- Precision or rolled ball screw, lead screw, belt, and direct driven
- Guided by single or dual, plain, ball, or roller linear bearings
- PLC, PC, standalone, and/or networked controlled
- Servo, stepper, hybrid, or linear motor powered
- Off-the-shelf or customer specific solutions
- Clean to extreme environments

Servo/Step Motors, Drives and Controls

- Integrated motors or separate motors, drives and controls
- Standard or custom AC, DC, brushless motor controls
- Incremental, absolute, rotary, linear feedback
- Choice of industrial automation network
- Rotary, linear, and direct drive motors

2 to 2000 axes of motion
3 micron to 0.003" standard, sub-micron special
Envelopes 10" x 20" x 3" readily available, unlimited possible

12 mm to 12" frame sizes
200 to 2 million steps per revolution
100mA to 100Amps; 12V DC to 480V AC systems
Electric Cylinders
- ACME, ball screw and roller screw electric cylinders
- Dual axis Z-theta motors and mechanics
- Integrated motors, drives, and controls
- Miniature, telescopic, solar and OEM
- Integral lead screw motors

20mm to 2 meters long
100 oz to 100,000 lbs of force
Low cost OEM to extreme environment

PBC Linear
Tolomatic
SMC
MACRON

Linear and Rotary Actuators and Precision Stages
- Ball screw, lead screw, belt, rack, manual, and direct driven
- Single or dual rail, ball, plain, cross, and roller bearings
- Precision ground and standard accuracy
- Ultra-miniature credit card sized
- Servo or stepper powered

20 ounces to 2000 lbs. of force
3 microns to 0.003” standard, sub-micron special
25 mm to 2.5 meter lengths standard, 25 football fields long available
Precision ground to machined to standard aluminum extrusion tolerances
Precision Gears and Power Transmission
- Planetary, spur, worm, harmonic, OEM, and medical gears
- Inline, flanged, right angle, hollow, and dual shafts
- Linear and rotary roller rack and pinions
- Precision and heavy-duty industrial

Zero backlash
Arc-second precision
Speeds to 10 meters/sec

Components and Motion Accessories
- Linear rails and bearings
- Lead, ball and roller screws
- Roller rack and pinions
- Rail, rod, screw and motor brakes
- Two and three finger grippers
- Couplings and safety limiters
- Limit switches and sensors
- Cables, flexible conduit and track
- Power supplies
- Encoders
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