ROTARY ACTUATORS AND ROTARY MODULES

AR SERIES (ROTARY ACTUATOR)
The torque rack produces the rotary output torque while the control rack determines rotary stroke. The output shaft is supported by two angular contact bearings. The NuMate™ mounting feature provides a convenient method of mounting the AR-Rotaries to the SH-Series linear slide.

RW SERIES (90 DEGREE ROTARY ACTUATORS)
Utilizes two independent piston cylinders. Each piston has a crank arm attached to a crankshaft. As the piston strokes in its bore, the crankshaft rotates. Pressurizing the opposite bore reverses rotation.

LR SERIES (LOW PROFILE ROTARY ACTUATOR)
A low profile rack and pinion design. Two independent pistons drive their corresponding racks against the pinion thereby rotating the platform.

RM SERIES (ROTARY MODULES)
Utilizes a unique concept in transferring air pressure through fixed parts to rotating parts on the rotary platform. The rotary manifold and gripper is a clean compact assembly which allows the gripper to rotate freely without rotating air lines.

R SERIES (RACK AND PINION STYLE ROTARY ACTUATOR LINE)
A heavy-duty rack and pinion style rotary actuator designed to excel in the most rigid applications. The R Series includes a high torque-to-size ratio as well as accurate positioning.

Numatics, Inc., leader of pneumatic and motion control product manufacturing, carries a broad spectrum of standard, custom developed products and application components including an extensive line of high precision actuators. These actuators are specifically designed for high technology machines requiring longer lasting, fully functional components that excel under the most demanding applications.

NFPA INTERCHANGEABLE CYLINDERS
A SERIES & EQ SERIES
Aluminum NFPA Interchangeable cylinders that encompass many value-added features such as an extra long graphite filled cast iron rod bushing.

ISO STANDARD CYLINDERS
452 SERIES
Aluminum Body Air Cylinder line designed to meet all international cylinder requirements. Meets the following international standards: ISO/DIS 15552 & AFNOR.

KG SERIES
Specifically designed for automated valve operation. This design is widely used throughout the valve / knife gate industry, and can also be utilized in an assortment of applications that requires light duty pneumatic actuation.

CST SERIES
The CST Series is designed to excel in both light and medium duty stopper applications. Pneumatic stopper cylinders are designed to stop objects and enable them to remain in control at various conveyor processes such as machining, processing stations, etc.
PNEUMATIC GRIPPERS

NRG SERIES (PARALLEL GRIPPER)
The NRG series gripper offers both synchronized and compliant (non-synchronized) movement. Synchronized Motion: Two opposing pistons share a common bore.

E SERIES (PARALLEL, ANGULAR, RADIAL AND 3 JAW GRIPPERS)
The E Series offers quality solutions for robotic gripping applications. The “EPG” (two jaw) and “ETG” (three jaw) parallel gripper lines utilize a double acting piston and rocker arm design. The piston has a radial groove to which the rocker arm engages.

PG SERIES (LOW PROFILE GRIPPERS)
The PG series is low profile with true parallel motion that is generated by a pinion mechanism powered by a double acting piston.

RPG SERIES (PARALLEL GRIPPERS)
Has true parallel motion generated by a double acting piston attached to the pinion mechanism with a linkage guided in the body for precise centering.

TJ SERIES
The TJ Series grippers provide high grip force in a compact design. Shielded design make the TJ series ideal for machine loading and unloading. Compact design, to grip force ratio are ideal for confined work areas.

AG SERIES (ANGULAR GRIPPERS)
Utilizes a double acting piston with dual pivot system. The piston has a single center pivot that drives each gripper jaw. The pistons are connected to a stationary pivot which each jaw arcs about. The cartridge design offers the greatest grip force to size ratio over other conventional designs.

GR SERIES
The GR-Series has a double acting piston attached to a cross bar by a connecting rod. The linear movement of the piston is transformed into angular movement of the jaws through a double toggle link mechanism.

WG SERIES (DOUBLE GUIDED WEDGE GRIPPERS)
Synchronous motion is achieved with a double acting piston attached via the piston shaft to a double sided wedge. The double sided angles of the wedge convert vertical motion to synchronous horizontal motion of the jaws.

WBG SERIES (WIDE BODY GRIPPERS)
The WBG series utilizes independent pistons to power the jaws open and closed. Jaws utilize a rack & pinion for synchronization which are independent from force rods and support rods.

PG6J80 SERIES (SIX JAW GRIPPER WITH EJECTORS)
The PG6J80 Series 6 finger gripper design utilizes a dual acting piston to open and close gripper jaws. All six jaws are synchronized for accurate positioning. The included ejectors operate independent of the gripper jaws, providing a convenient method to strip parts from the jaws.
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PNEUMATIC LINEAR SLIDES

SH SERIES (LINEAR SLIDES)
The SH Series guided linear motion device is capable of heavy loads and moderately long strokes.

LC SERIES (LIGHT DUTY SLIDE)
Provides guided linear motion at a lower cost. External cylinder is mounted rigidly to the cross body which drives the tool plate. The tool plate motion is guided by two hardened linear rods.

LCX SERIES (LINEAR SLIDE)
Combines cost-effectiveness with proven dependability. An economical alternative with greater load carrying capabilities.

PST SERIES (PRECISION SLIDE TABLE)
Provides smooth precise linear motion with high accuracy at twice the thrust of a single bore cylinder. The precision linear rail system supports the load through the entire stroke length.

ULTRA SERIES (SLIDE TABLE)
The Ultra Series Slide is available in 8 bore sizes ranging from 5/16 to 1-1/16 imperial and 8mm to 25mm ISO/VDMA. The Ultra Series slide offers the longest stroke of any competitive slide of its type.

SPS SERIES (SMALL POWER SLIDE)
Small size makes it the ideal slide for getting into those tight spaces.

B SERIES (COMPACT LINEAR SLIDE)
Designed to be compact and self-contained. Cylinder pistons are attached directly to each guide rod, conserving size without sacrificing output force. Guide rods are supported by specially designed guide bushings providing optimum support of dynamic loads.

CGT SERIES (COMPACT GUIDE SLIDE)
The CGT series Compact Guide Slide is ideal where high load and force are required and minimum space is available. The piston and rod assembly being machined directly into the extruded body achieves space savings.

CGS SERIES (COMPACT GUIDE SLIDE)
The CGS series Compact Guide Slide is even more compact than the CGT-Series. This series is ideal where high load and force are required and minimum space is available. The piston and rod assembly machined directly into the extruded body achieves space savings.

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