

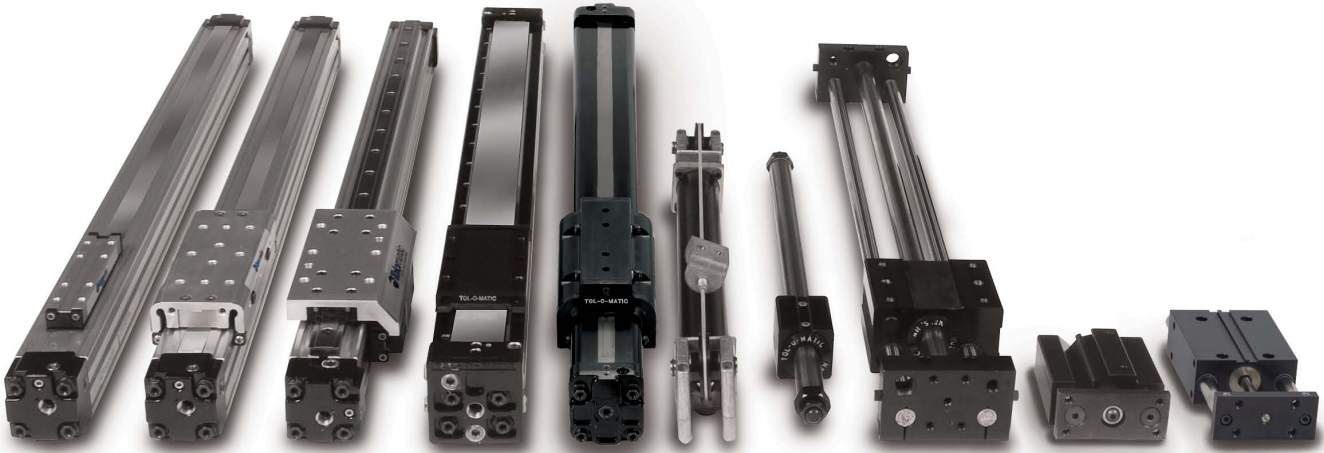
PNEUMATIC ACTUATORS

ENDURANCE TECHNOLOGYSM



THE RODLESS CYLINDER LEADER

WHAT YOU EXPECT FROM THE RODLESS LEADER



Tolomatic offers a complete line of linear motion products. We offer more rodless cylinder styles than any other company. Guided rod style actuators compliment our broad line of rodless pneumatic products.

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ACTUATORS

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SPECIFICATIONS 20-22

● INNOVATIVE RODLESS PRODUCTS

Tolomatic created the rodless cylinder industry when we manufactured the original cable cylinder. For over 50 years, Tolomatic has been recognized as the rodless cylinder market leader. We earn that distinction daily by satisfying customers like you.

● ENDURANCE TECHNOLOGYSM

Every Tolomatic pneumatic product is designed and built with Endurance TechnologySM. Material selection, from seals to finish, and every other design element is optimized for long life and excellent performance. The result is the best value and best performing pneumatic product in the market today. As one customer told us, “Your cylinders are built like a tank and run like a deer.” Thank you!

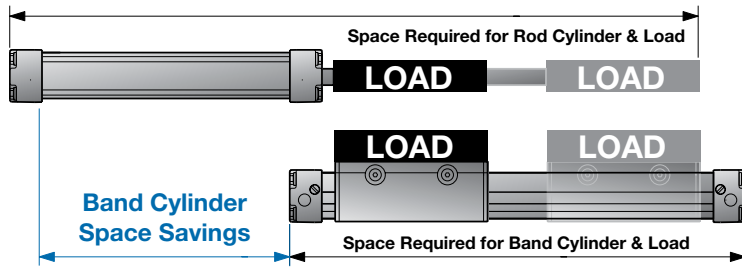
● TRUST YOUR APPLICATION TO THE RODLESS LEADER

When you want the job done right, go with the experts. Long life. Durability. Ruggedness. Built to your specifications in 5 days or less. Only one company specializes in rodless technology. Tolomatic. The rodless leader.

Be sure to visit www.tolomatic.com for up-to-date product specifications, free sizing and selection software, and 3D CAD solid files.

THE RODLESS ADVANTAGE

TOLOMATIC RODLESS BAND CYLINDERS GET THE JOB DONE IN LESS SPACE THAN ROD STYLE CYLINDERS



Consider this: A rodless band cylinder contains its stroke within the cylinder itself. A 2" bore cylinder with a 24" stroke can provide a 43% space savings when compared to an equivalently sized rod cylinder. In addition, the load is supported throughout the entire stroke so there is minimal load deflection when compared to rod style cylinders.

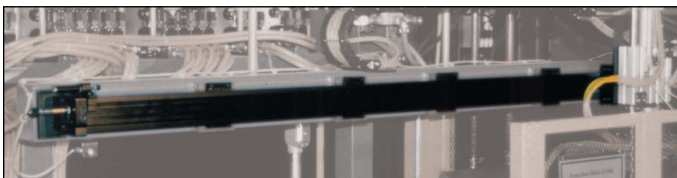
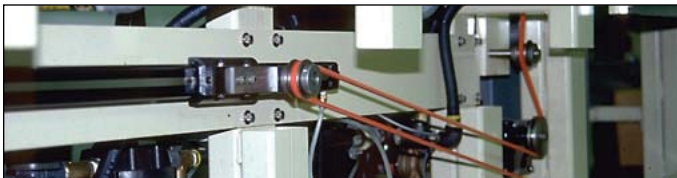
With a Tolomatic Band Cylinder, there is no concern about rod rotation. Also, because rodless cylinders have equal piston areas in both directions, the cylinder experiences zero load variation in either direction.

GO RODLESS AND SAVE SPACE!

ROD STYLE vs RODLESS FEATURE COMPARISON

Feature	Tolomatic Rodless	Rod Style
Integrated Load Support	✓	—
Space Saving Design	✓	—
Piston Seals Isolated from Load	✓	—
Internal Air Cushioning	✓	✓

APPLICATIONS



With over 50 years of application proven experience, Tolomatic pneumatic products are key components in the following industries and applications:

INDUSTRY INSTALLATIONS

- Packaging
- Automotive
- Food and Beverage
- Material Handling & Conveying
- Plastic Injection Molding
- Metal Processing
- Paper and Textiles
- Medical
- Electronics
- Printing
- and More ...

APPLICATIONS

- Material Handling
- Part Transfer
- Part Advancement
- Part Sorting
- Cutting
- Elevators
- Palletizing
- Door Closure
- Conveyors
- Robotics
- Machine Tools
- General Automation
- and More ...

MXP-N INTERNAL BEARING BAND CYLINDER

ENDURANCE TECHNOLOGYSM

STAINLESS STEEL BANDS

- Both interior sealing band and exterior dust band made of fatigue resistant stainless steel



STAINLESS STEEL IS DURABLE, FLEXIBLE AND CORROSION RESISTANT



- Does not stretch like bands made of rubber or polymer materials
- Stainless steel sealing bands resist blow out during pressure spikes that may occur during high velocity cushioning

RETAINED DUST BAND

- Retained dust band keeps contaminants from entering the cylinder interior, protecting components for reduced maintenance and increased uptime

INTERNAL BEARINGS

- Design maximizes piston bearing surface area for less pressure on bearing surfaces, less pressure results in less wear
- Permanent lubrication for low friction and extended bearing life
- Internal location provides protection from external contaminants, extending life



POSITIVE POSITION SEALS

- Sturdy U-cup base section assures positive positioning of seal lip for better sealing and less wear
- Made of custom formulated polyurethane for pliable, wear resistant seal lip



PORTING CHOICES

- 4-ported heads are standard to allow air connections on sides, end or bottom
- Single-end porting allows convenient one end air connection
- NPT, Metric Parallel (ISO-G/BSP) & Metric Taper (Rc/BST) available on both metric and inch (US standard) mount actuators

DIRECT MOUNT

- Head bolts are tapped for direct mounting

MXP-N

SPECIFICATIONS: pg. 20

BORE SIZES



MAXIMUM

STROKE: 206"

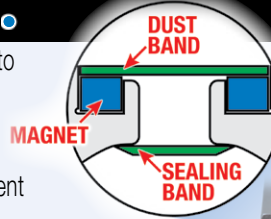
THRUST: 491 lbf

LOAD: 740 lb

COMPLETE INFORMATION:
www.tolomatic.com

NON-WEAR BAND RETENTION

- Magnetically retained bands are not subject to wear as are mechanically retained systems
- Immediate band engagement and release results in less drag on piston for lower breakaway force during initial carrier movement



DUST WIPER

- Formed end cap and side dust wipers keep contaminants from entering the cylinder's internal area

ADJUSTABLE CUSHIONS

- Easy screw adjustment for smooth deceleration protecting actuator from high stress at end-of-stroke
- Adjustable cushions with retained stainless steel needle screw for increased safety

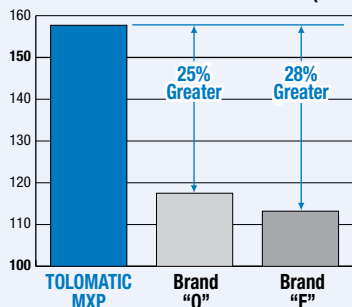
NOTE: Boxed letters indicate ordering codes

HIGH STRENGTH PISTON

- Single piece extrusion for piston bracket and carrier reduces failure points
- Piston bracket neck cross-sectional area is up to 28% greater than competitive designs, providing increased durability



25mm PISTON BRACKET
MINIMUM CROSS-SECTIONAL AREA (mm²)



INTERNAL MAGNETS

- Standard feature that allows sensor installation on left, right or bottom of the extrusion

OPTIONS



AUXILIARY CARRIER **D****W**

- 2X higher Fz (load) capacity
- High bending moment capacity



FLOATING MOUNT **F****L**

- Compensates for non-parallelism between MXP band cylinder and externally guided load



TUBE CLAMPS **T****C**

- Used for intermediate support
- Flush with bottom of actuator to retain low profile
- Drop-in, adjustable mounting locations



FOOT MOUNTS **F****M**

- For end mounting of MXP band cylinder
- Use to bottom or side mount actuator



SHOCK ABSORBERS **A****L** **S****L** **A****H** **S****H**

- Allows increased operating speed and load
- Self-compensates for load or speed changes
- Minimizes impact load to equipment
- Fixed or adjustable position shocks



SINGLE-END PORTING **S**

- Convenient single-end air connection (not available on MXP16)



SWITCHES

- Wide variety of sensing choices: Reed, Solid State PNP or NPN, all available normally open or normally closed
- Flush mount, drop-in installation, anytime
- Bright LEDs, power & signal indication
- CE rated, RoHS compliant

5 DAYS
BUILT-TO-ORDER

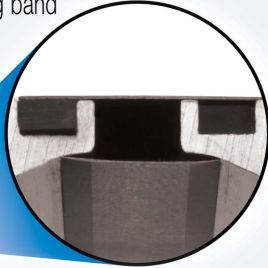
MXP-S SOLID BEARING BAND CYLINDER

ENDURANCE TECHNOLOGYSM

Endurance Technology features are designed for maximum durability to provide extended service life.

STAINLESS STEEL BANDS

- Both interior sealing band and exterior dust band made of fatigue resistant stainless steel



STAINLESS STEEL IS DURABLE, FLEXIBLE AND CORROSION RESISTANT



- Does not stretch like bands made of rubber or polymer materials
- Stainless steel sealing bands resist blow out during pressure spikes that may occur during high velocity cushioning

RETAINED DUST BAND

- Retained dust band keeps contaminants from entering the cylinder interior, protecting components for reduced maintenance and increased uptime

POSITIVE POSITION SEALS

- Sturdy U-cup base section assures positive positioning of seal lip for better sealing and less seal wear
- Made of custom formulated polyurethane for pliable, wear resistant seal lip

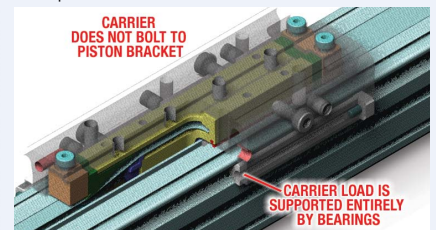


INTERNAL MAGNETS

- Standard feature that allows sensor installation on left, right or bottom of the extrusion

ISOLATED PISTON

- Unique design isolates the piston from the applied load, extending the service life of the piston seals



- Piston remains isolated even when the carrier is deflected under load
- Piston bracket and carrier feature single piece extrusions, reducing failure points

PORTING CHOICES

- 4-ported heads are standard to allow air connections on sides, end or bottom
- Single-end porting allows convenient one end air connection
- NPT, Metric Parallel (ISO-G/BSP) & Metric Taper (Rc/BST) available on both metric and inch (US standard) mount actuators

DIRECT MOUNT

- Head bolts are tapped for direct mounting

INCH OR METRIC MOUNTING

- Your choice of inch (US standard) or metric fasteners for carrier and head bolt mounting

MXP-S

SPECIFICATIONS: pg. 20

BORE SIZES



MAXIMUM

STROKE: 206"

THRUST: 491 lbf

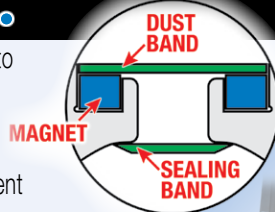
LOAD: 1,040 lb

COMPLETE INFORMATION:

www.tolomatic.com

NON-WEAR BAND RETENTION

- Magnetically retained bands are not subject to wear as are mechanically retained systems
- Immediate band engagement and release results in less drag on piston for lower breakaway force during initial carrier movement



DUST WIPER

- Formed end cap and side dust wipers keep contaminants from entering the cylinder's internal area

ADJUSTABLE CUSHIONS

- Easy screw adjustment for smooth deceleration protecting actuator from high stress at end-of-stroke
- Adjustable cushions with retained stainless steel needle screw for increased safety

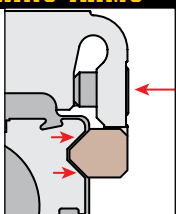
NOTE: Boxed letters indicate ordering codes

LARGE FLEXIBLE MOUNTING PATTERN

- Carrier gives more load stability
- Compatibility with existing BC2 applications
- More fastening options

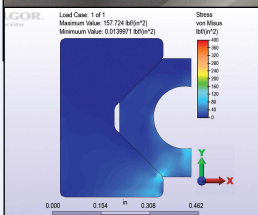
NON-BINDING BEARING ARMS

- Bearings are tensioned indirectly, providing bind free adjustment



TRAPEZOIDAL BEARINGS

- Trapezoidal design maximizes bearing surface area for less pressure on bearing surfaces; less pressure results in less wear
- Engineered bearing material has low static and dynamic friction with low wear properties for long lasting, smooth operation
- Bearings are field replaceable for extended service life



OPTIONS



AUXILIARY CARRIER **DW**

- 2X higher Fz (load) capacity
- High bending moment capacity



FLOATING MOUNT **FL**

- Compensates for non-parallelism between MXP band cylinder and externally guided load



TUBE CLAMPS **TC**

- Used for intermediate support
- Flush with bottom of actuator to retain low profile
- Drop-in, adjustable mounting locations



FOOT MOUNTS **FM**

- For end mounting of MXP band cylinder
- Use to bottom or side mount actuator



SHOCK ABSORBERS **AL SL AH SH**

- Allows increased operating speed and load
- Self-compensates for load or speed changes
- Minimizes impact load to equipment
- Fixed or adjustable position shocks



SINGLE-END PORTING **S**

- Convenient single-end air connection (not available on MXP16)



SWITCHES

- Wide variety of sensing choices: Reed, Solid State PNP or NPN, all available normally open or normally closed
- Flush mount, drop-in installation, anytime
- Bright LEDs, power & signal indication
- CE rated, RoHS compliant

5 DAYS
BUILT-TO-ORDER

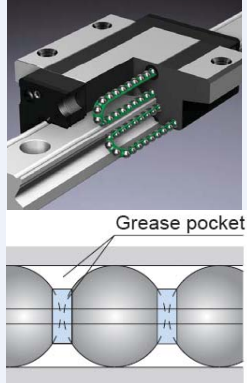
MXP-P PROFILED RAIL BAND CYLINDER

ENDURANCE TECHNOLOGYSM

Endurance Technology features are designed for maximum durability to provide extended service life.

RECIRCULATING BALL BEARINGS

- Recirculating ball bearings are used to reduce friction and extend actuator life
- Designed with a grease pocket between ball elements to reduce friction, noise and maintenance
- Large permissible moment loads
- High speed operation, low heat generation
- High precision, smooth, low friction motion



INTERNAL MAGNETS

- Standard feature that allows sensor installation on the open side or bottom of the extrusion

INCH OR METRIC MOUNTING

- Your choice of inch (*US standard*) or metric fasteners for carrier and head bolt mounting

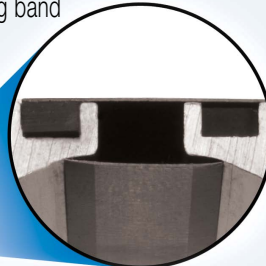
POSITIVE POSITION SEALS

- Sturdy U-cup base section assures positive positioning of seal lip for better sealing and less seal wear
- Made of custom formulated polyurethane for pliable, wear resistant seal lip



STAINLESS STEEL BANDS

- Both interior sealing band and exterior dust band made of fatigue resistant stainless steel



STAINLESS STEEL IS DURABLE, FLEXIBLE AND CORROSION RESISTANT

- Does not stretch like bands made of rubber or polymer materials
- Stainless steel sealing bands resist blow out during pressure spikes that may occur during high velocity cushioning



PORTING CHOICES

- 4-ported heads are standard to allow air connections on side, top, end or bottom
- Single-end porting allows convenient one end air connection
- NPT, Metric Parallel (ISO-G/BSP) & Metric Taper (Rc/BST) available on both metric and inch (*US standard*) mount actuators

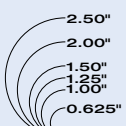
DIRECT MOUNT

- Head bolts are tapped for direct mounting

MXP-P

SPECIFICATIONS: pg. 20

BORE SIZES



MAXIMUM

STROKE: 206"
THRUST: 491 lbf
LOAD: 2,583 lb

COMPLETE INFORMATION:
www.tolomatic.com

5 DAYS BUILT-TO-ORDER

LOW CARRIER HEIGHT

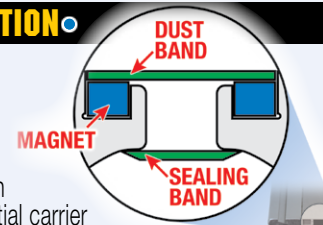
- Reduces overall cylinder envelope
- Large mounting pattern for high load stability

ADJUSTABLE CUSHIONS

- Easy screw adjustment for smooth deceleration protecting actuator from high stress at end-of-stroke
- Adjustable cushions with retained stainless steel needle screw for increased safety

NON-WEAR BAND RETENTION

- Magnetically retained bands are not subject to wear as are mechanically retained systems
- Immediate band engagement and release results in less drag on piston for lower breakaway force during initial carrier movement



NOTE: Boxed letters indicate ordering codes

RETAINED DUST BAND

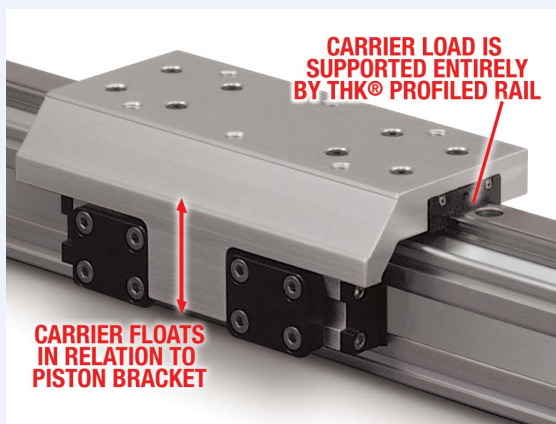
- Retained dust band keeps contaminants from entering the cylinder interior, protecting components for reduced maintenance and increased uptime

DUST WIPER

- Formed end cap and side dust wipers keep contaminants from entering the cylinder's internal area

ISOLATED PISTON

- Unique design isolates the piston from the applied load, extending the service life of the piston seals



- Piston remains isolated even when the carrier is deflected under load
- Piston bracket and carrier feature single piece extrusions, reducing failure points

OPTIONS



- AUXILIARY CARRIER** **D** **W**
- 2X higher Fz (load) capacity
 - High bending moment capacity



- TUBE CLAMPS** **T** **C**
- Used for intermediate support
 - Flush with bottom of actuator to retain low profile
 - Drop-in, adjustable mounting locations



- FOOT MOUNTS** **F** **M**
- For end mounting of MXP band cylinder
 - Use to bottom or side mount actuator



- SHOCK ABSORBERS** **A** **L** **S** **L**
A **H** **S** **H**
- Allows increased operating speed and load
 - Self-compensates for load or speed changes
 - Minimizes impact load to equipment
 - Fixed or adjustable position shocks



- SINGLE-END PORTING** **S**
- Convenient single-end air connection (not available on MXP16)



- SWITCHES**
- Wide variety of sensing choices: Reed, Solid State PNP or NPN, all available normally open or normally closed
 - Flush mount, drop-in installation, anytime
 - Bright LEDs, power & signal indication
 - CE rated, RoHS compliant

BC3 BAND CYLINDER

ENDURANCE TECHNOLOGYSM

Endurance Technology features are designed for maximum durability to provide extended service life.

FORMED END CAP WIPER SEAL

- Keeps contaminants from entering the sealing area
- Protects internal components
- Reduces maintenance while increasing productivity

SEALED BALL BEARING SYSTEM

- All bearing components covered by seal strip
- Bearing components are sealed and lubricated at the factory
- Assures maximum resistance to contamination

STAINLESS STEEL SEALING BAND SYSTEM

- Fatigue resistant stainless steel bands are specifically made to provide longer life and will not elongate, like elastomers
- Outer band keeps out contaminants for extended performance
- Inner band provides a smooth surface for less seal wear

FORMED STEEL PISTON BRACKET

- Provides maximum strength at major stress points
- Heat treated carbon steel withstands the toughest dynamic forces
- Strongest bracket design in the industry assures long life with less maintenance



BC3

SPECIFICATIONS: pg. 21

BORE SIZES



MAXIMUM

STROKE: 206"

THRUST: 310 lbf

LOAD: 8,032 lb

COMPLETE INFORMATION:

www.tolomatic.com



TOLOMATIC...THE RODLESS CYLINDER LEADER

LOAD-BEARING CARRIER DESIGN

- Load and piston are independent - piston floats, resulting in less friction and longer seal life
- Recirculating ball bearing system guides and supports load for consistent long term performance
- Constant level of friction is maintained even when load orientation changes

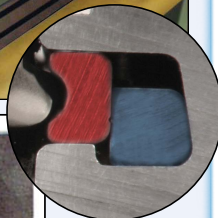
ADJUSTABLE CUSHIONS

- Adjustable cushions are standard
- Easy screw adjustment for end-of-stroke deceleration
- Protects actuator and load from damage

NOTE: Boxed letters indicate ordering codes

PATENTED WEDGE BEARING SYSTEM

- Bearing surfaces adjusted at the factory for optimum pre-load
- Bearing surfaces adjusted by and supported by a steel wedge assuring long term stability



OPTIONS



AUXILIARY CARRIER **D** **W**

- 2X higher load capacity
- High bending moment capacity



DUAL 180° CARRIER **D**

- Higher Fz load capacity
- High bending moment capacity



TUBE SUPPORT MOUNTS **T** **S**

- Used for intermediate support
- Flush with bottom of actuator to retain low profile
- Drop-in, adjustable mounting locations



FOOT MOUNTS **F** **M**

- For end mounting of BC3 band cylinder



SHOCK ABSORBERS **A** **L** **A** **H**

- Allows increased operating speed and load
- Self-compensates for load or speed changes
- Minimizes impact load to equipment
- Adjustable position shocks



SWITCHES

- Available in Reed, Hall-effect and Triac
- 15ft. cable with flying leads; available with quick-disconnect couplers



ABSOLUTE POSITION FEEDBACK

- Linear displacement transducer, embedded within the actuator, is used to determine the carrier position with high accuracy

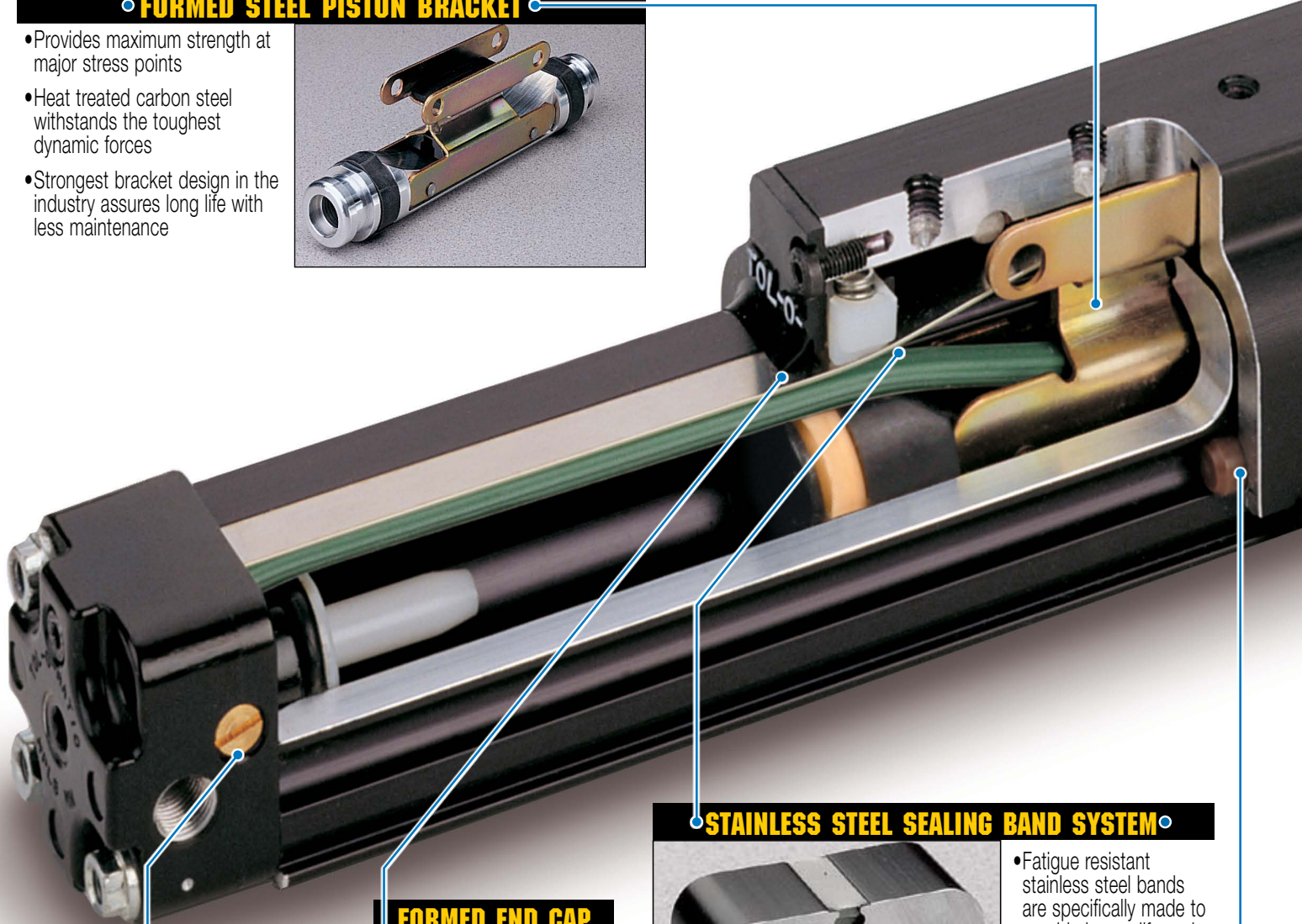
BC2 BAND CYLINDER

ENDURANCE TECHNOLOGYSM

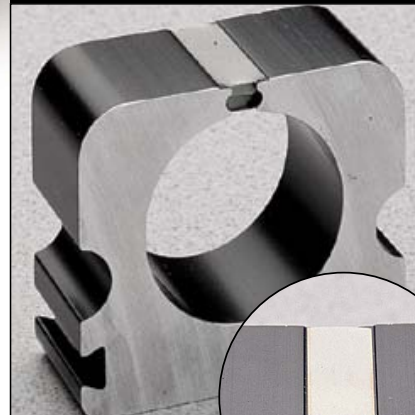
Endurance Technology features are designed for maximum durability to provide extended service life.

FORMED STEEL PISTON BRACKET

- Provides maximum strength at major stress points
- Heat treated carbon steel withstands the toughest dynamic forces
- Strongest bracket design in the industry assures long life with less maintenance



STAINLESS STEEL SEALING BAND SYSTEM



- Fatigue resistant stainless steel bands are specifically made to provide longer life and will not elongate, like elastomers
- Outer band keeps out contaminants for extended performance
- Inner band provides a smooth surface for less seal wear

FORMED END CAP WIPER SEAL

- Keeps contaminants from entering the sealing area
- Protects internal components
- Reduces maintenance while increasing productivity

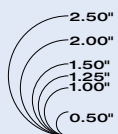
ADJUSTABLE CUSHIONS

- Adjustable cushions are standard, not optional
- Easy screw adjustment for end-of-stroke deceleration
- Protects actuator and load from damage

BC2

SPECIFICATIONS: pg. 21

BORE SIZES



MAXIMUM

STROKE: 206"

THRUST: 310 lbf

LOAD: 800 lb

COMPLETE INFORMATION:

www.tolomatic.com

TOLOMATIC... THE RODLESS CYLINDER LEADER



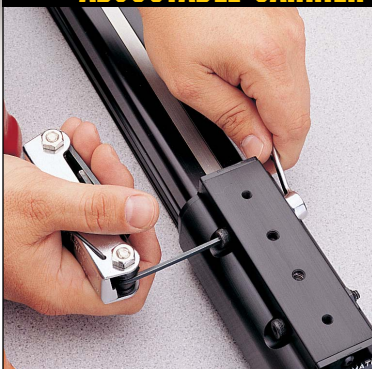
3-PORTED HEADS

- Standard feature
- Simplifies air connections

RIGID BLACK-ANODIZED EXTRUDED ALUMINUM TUBE

- Stronger, stiffer tube retains tolerance specs when chamber is pressurized
- Keeps sealing band in place for maximized air efficiency
- Tube supports are minimized
- Solid structural support provides durability and long life performance

ADJUSTABLE CARRIER BRACKET



- 2-bolt adjustment instead of a series of set screws
- Easy to set tension for freer running or stiffer systems
- Minimizes free play while maintaining a higher level of load guidance

LOAD-BEARING CARRIER DESIGN

- Load and piston are independent - piston floats, resulting in less friction and longer seal life
- Engineered resin load bearings offer consistently low friction and long wear



OPTIONS



AUXILIARY CARRIER

- Substantially higher load capacity
- Substantially higher bending moment capacity



FLOATING MOUNT

- Compensates for non-parallelism between band cylinder and externally guided load



TUBE SUPPORT MOUNTS

- Used for intermediate support



FOOT MOUNTS

- For end mounting of band cylinder



SHOCK ABSORBERS

- Smooth deceleration
- Allows increased operating speed
- Self-compensates for load or speed changes
- Minimizes impact load to equipment
- Higher equipment productivity
- Adjustable position shocks available



SWITCHES

- Available in Reed, Hall-effect and Triac
- 15ft. cable with flying leads; available with quick-disconnect couplers



MAG COUPLED CYLINDER

ENDURANCE TECHNOLOGYSM

Endurance Technology features are designed for maximum durability to provide extended service life.

MGS MAG SLIDE

BEARING CHOICE

- Precision linear ball bearing or
- Sintered bronze

FIELD REPAIRABLE DESIGN

- Unique in the industry
- Durable and reliable

ENGINEERED ELASTOMER WIPER

- No leak construction
- Durable, long lasting material

ANODIZED ALUMINUM CARRIER

- Durable and corrosion resistant
- Precision milled

MG MAG CYLINDER

ANODIZED ALUMINUM HEADS

- Durable and corrosion resistant

• MGS

SPECIFICATIONS: pg. 21

BORE SIZES

1.00"
0.625"
0.375"

• MG

SPECIFICATIONS: pg. 21

BORE SIZES

1.00"
0.625"
0.375"
0.25"

MAXIMUM

STROKE: 80"

THRUST: 72 lbf

LOAD: 90 lb

MAXIMUM

STROKE: 56"

THRUST: 72 lbf

LOAD: NA

COMPLETE INFORMATION:

www.tolomatic.com

TOLOMATIC... THE RODLESS CYLINDER LEADER

• DECELERATION •

- Built-in shock absorber mounting
- External bumpers standard
- End of stroke adjustment



• MULTIPLE-PORTED HEAD BLOCKS •

- Flexible air connection to suit your application

• HARDENED STEEL SHAFTS •

- Corrosion resistant, durable and stable support system

• STAINLESS STEEL TUBING •

- Precision milled interior on these long lasting, corrosion resistant tubes

• MAGNETIC FORCE CONNECTS PISTON TO CARRIER •

- Rare earth magnets create positive connection between piston and carrier
- 3 coupling strengths
- Decouples at known force (useful in a variety of applications)
- Wear bearing for long life



OPTIONS - CYLINDER



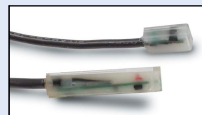
FLOATING MOUNT BRACKET **FL**

- Compensates for non-parallelism between cylinder and independently guided load
- Makes installation easier, increases actuator block bearing life



FOOT MOUNT **FM**

- Best mounting choice in most applications
- Made from plated stamped steel



SWITCHES

- Available in Reed, Hall-effect and Triac
- 15ft. cable with flying leads; available with quick-disconnect couplers



CORROSION RESISTANT

- Stainless steel components with seals for use in harsh environments

OPTIONS - SLIDE



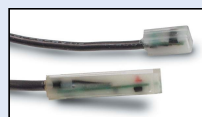
SHOCK ABSORBERS **SL SH**

- Smoother deceleration
- Self-compensates for load changes
- Reduces need for equipment maintenance



PROXIMITY SENSOR

- L.E.D. device senses end-of-stroke with one of two normally open inductive dc proximity sensors.



SWITCHES

- Available in Reed, Hall-effect and Triac
- 15ft. cable with flying leads; available with quick-disconnect couplers

• PNEUMATICALLY OR HYDRAULICALLY POWERED •

- No leak construction
- Up to 100 PSI



CABLE CYLINDER

ENDURANCE TECHNOLOGYSM

Endurance Technology features are designed for maximum durability to provide extended service life.

HIGH STRENGTH TUBE

- High-strength, lightweight 6063-T832 black anodized aluminum or steel
- Creates chamber for pneumatic or hydraulic pressure and protects piston



STEEL CLEVIS

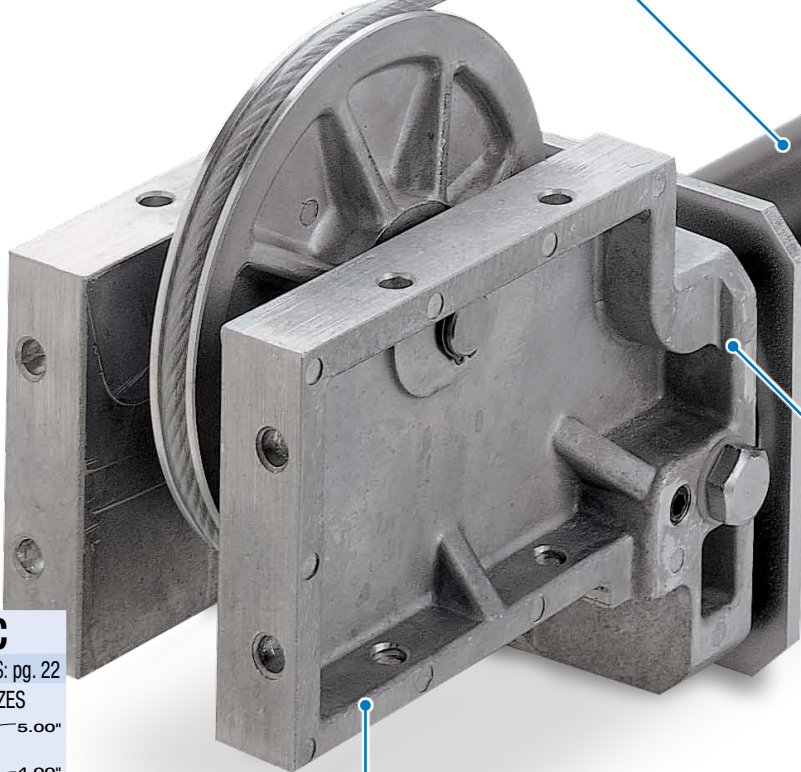
- High strength material resists deformation
- Cable adjustment points
- Threaded holes for load attachment



CC DOUBLE ACTING CABLE CYLINDER

PORTING CHOICES

- Choose from 2 or 3 port heads



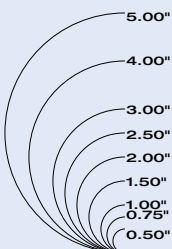
ALUMINUM PISTON

- High-strength, lightweight aluminum
- Pulls the cables when actuated by pneumatic or hydraulic pressure



CC

SPECIFICATIONS: pg. 22
BORE SIZES



DIE CAST HEAD ASSEMBLY

- High-strength, lightweight anodized aluminum
- Protects piston and creates chamber for pneumatic or hydraulic pressure

LOCATE REMOTELY

- Cylinder can be located away from work area. Useful in harsh environments and if space/weight are limited

UNIQUE GLAND SEALS

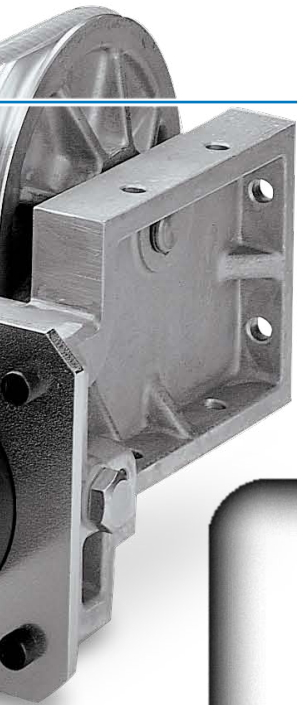
- Tight seal for cables to pass through
- Easy installation
- Snap In/Out cable seals or encapsulated gland seals depending on bore size



MAXIMUM
STROKE: 280"
THRUST: 1,919 lbf
LOAD: NA

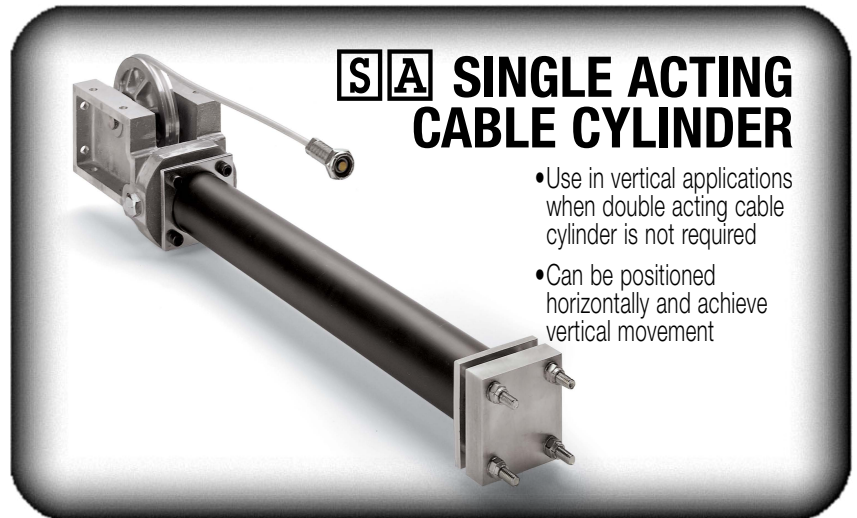
COMPLETE
INFORMATION:
www.tolomatic.com

TOLOMATIC... THE RODLESS CYLINDER LEADER



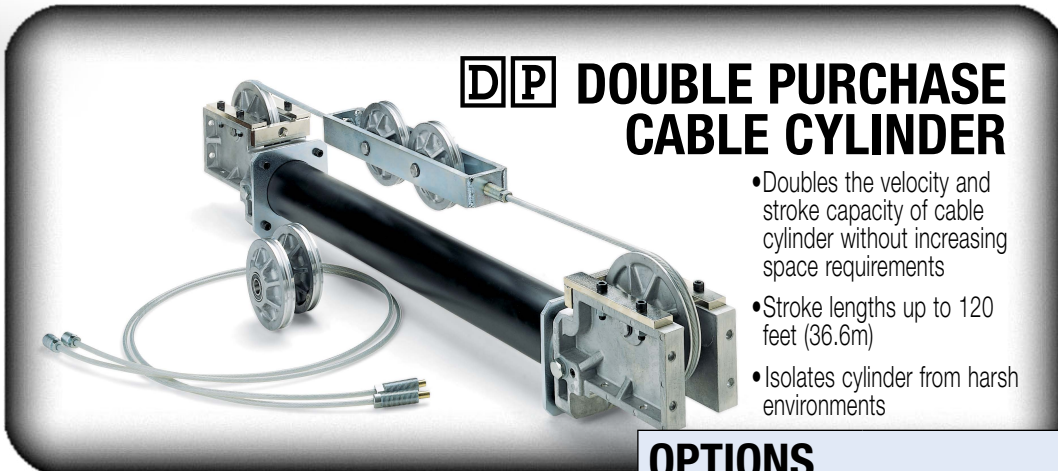
MIL SPEC CABLES

- Field proven to provide millions of cycles of uninterrupted service
- Nylon jacketed aircraft cables manufactured under Mil Spec. MIL-W-83420D



SA SINGLE ACTING CABLE CYLINDER

- Use in vertical applications when double acting cable cylinder is not required
- Can be positioned horizontally and achieve vertical movement



DP DOUBLE PURCHASE CABLE CYLINDER

- Doubles the velocity and stroke capacity of cable cylinder without increasing space requirements
- Stroke lengths up to 120 feet (36.6m)
- Isolates cylinder from harsh environments



TC TRACK CABLE CYLINDER

- Guides and supports load
- Precision linear ball bearings on hardened ground steel shafts

OPTIONS



AUTO TENSIONER

- Maintains proper cable tension
- Maximizes service life of both cable and seals



CALIPER DISC BRAKE **HM HN**

- Best mounting choice in most applications



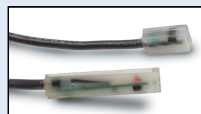
STEEL TUBE

- For extra strength & use in harsh environments



3 PORTED HEAD

- For convenient air connection



SWITCHES

- Available in Reed and Triac
- 15ft. cable with flying leads; available with quick-disconnect couplers



SEALS OF VITON® MATERIAL **V**

- Long lasting seal option
- High temperature applications



EXTRA CABLE **XA XB**

- To remotely locate cable cylinder



PB POWER-BLOCK

ENDURANCE TECHNOLOGYSM

Endurance Technology features are designed for maximum durability to provide extended service life.

DURABLE BEARING

COMPOSITE BEARINGS

- Thin profile allows use of oversize guide rods
- Best choice for impact use or high contaminant environments



DOVETAIL SLOTS

- For easy switch mounting

INTERNAL BUMPER

- Made of urethane composite to prolong cylinder life and reduce noise



NICKEL-PLATED SHAFTS

- Shafts up to 0.625" diameter

DURABLE DESIGN

- Tough, lightweight extruded aluminum in a low profile package

MOUNTING FLEXIBILITY

- Threaded holes for base or side mounting



PLATED STEEL TOOLING PLATE

- Threaded bolt thru holes for tooling plate mounting

PB

SPECIFICATIONS: pg. 22
BORE SIZES

1.25"
1.0625"
0.625"
0.375"

MAXIMUM

STROKE: 3"

THRUST: 123 lbf

LOAD: 25 lb

5 DAYS
BUILT-TO-ORDER

COMPLETE
INFORMATION:
www.tolomatic.com

OPTIONS



STOP COLLAR / BUMPER KIT

- Includes 2 stop collars and 1/4" thick polyurethane external bumpers to help absorb impact shock



DUAL TOOLING PLATE

- Added flexibility for many applications



SWITCHES

- Available in Reed, Hall-effect and Triac
- 15ft. cable with flying leads; available with quick-disconnect couplers

PB2 POWER-BLOCK 2

ENDURANCE TECHNOLOGYSM

Endurance Technology features are designed for maximum durability to provide extended service life.

HIGH PRESSURE CAPABLE

- Designed for pressures up to 150 PSI (10.3 bar) with a 10,000,000 cycle rating

INTERNAL BUMPERS

- Made of urethane composite to prolong cylinder life and reduce noise



PISTON MAGNET

- Piston magnet is a standard feature allowing sensor mounting whenever required

LARGE SHAFTS

- Shafts up to 1.25" diameter

DURABLE DESIGN

- Tough, lightweight extruded aluminum in a low profile package

DURABLE BEARING OPTIONS

LINEAR BALL BEARINGS

- Low friction, long life
- Best tooling plate accuracy



COMPOSITE BEARINGS

- Thin profile allows use of oversize guide rods
- Best choice for impact use or high contaminant environments



PLATED STEEL TOOLING PLATE

- Threaded bolt thru holes for tooling plate mounting

MOUNTING FLEXIBILITY

- T-slots and threaded holes for base mounting



OPTIONS



SWITCHES

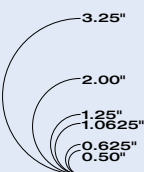
- Available in Reed, Hall-effect and Triac
- 15ft. cable with flying leads; available with quick-disconnect couplers

5 DAYS
BUILT-TO-ORDER

PB2

SPECIFICATIONS: pg. 22

BORE SIZES



MAXIMUM

STROKE: 6"

THRUST: 820 lbf

LOAD: 100 lb

COMPLETE INFORMATION:

www.tolomatic.com

INNOVATIVE PRODUCTS



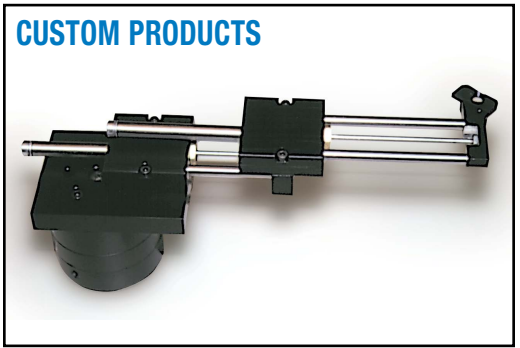
Tolomatic offers a complete product line of rodless and slide actuators, rod-style electric actuators, controllers and complete motion systems.

- Over 35 distinct product lines detailed in over 4,000 web pages.
- Actuators built to your specified stroke length – Five days or less.



Modified products, like this MXP with custom rail and carrier, extend the range of applications where Tolomatic products can be used.

- Modifications include user specified tapped holes, materials, lubricants, coatings, and mounting brackets.

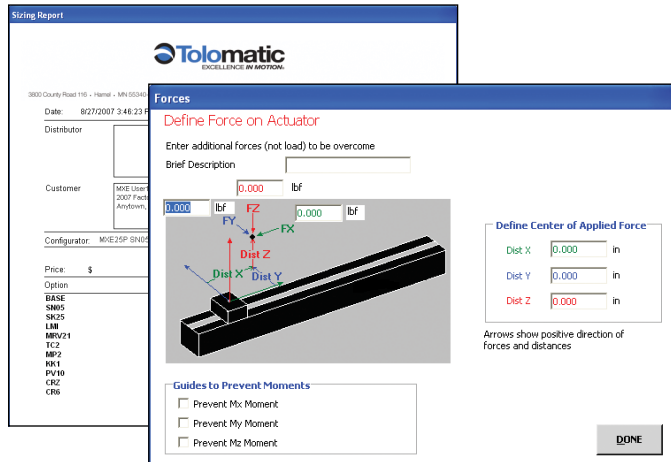


Challenges like this multi-axis actuator, built to fit a manufacturer's motion, space and accuracy requirements, are a regular part of our daily activities.

- Custom solutions for unique motion requirements.
- We will work with you to design a motion product within your space, budget, and time requirements.

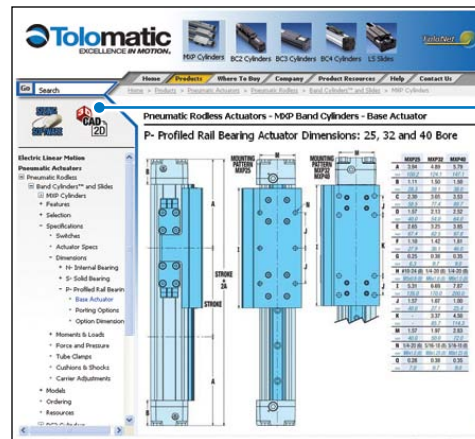
TECHNICAL AND APPLICATION SUPPORT

SIZING & SELECTION SOFTWARE



- SIZING AND SELECTION SOFTWARE - FREE, downloadable from our website. Supply your application information and the software will calculate the proper actuator for your application.

www.tolomatic.com



- 3D models and 2D drawings on the web
- Available in all common formats.

- COMPLETE INFORMATION AVAILABLE ONLINE - www.tolomatic.com - your definitive source for everything you need to know about Tolomatic and our products.

THE TOLOMATIC DIFFERENCE

What you expect from the industry leader:



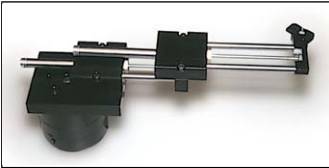
EXCELLENT CUSTOMER SERVICE & TECHNICAL SUPPORT

Our people make the difference! Expect prompt, courteous replies to all of your application and product questions.



INDUSTRY LEADING DELIVERIES

Standard catalog products are built to order and ready-to-ship in 5 days or less. Modified and custom products ship weeks ahead of the competition.



INNOVATIVE PRODUCTS

From standard catalog products... to modified products... to completely unique custom products, Tolomatic designs and builds the best solutions for your challenging applications.



ONLINE SIZING & SELECTION SOFTWARE

Online sizing that is easy to use, accurate and always up-to-date. Input your application data and the software will determine a Tolomatic electric actuator to meet your requirements.



3D MODELS & 2D DRAWINGS AVAILABLE ON THE WEB

Easy to access CAD files are available in many popular formats.

ALSO CONSIDER THESE OTHER TOLOMATIC PRODUCTS:

PNEUMATIC PRODUCTS



RODLESS CYLINDERS: Band Cylinders, Cable Cylinders, MAGNETICALLY COUPLED CYLINDERS/SLIDES; GUIDED ROD CYLINDER SLIDES

"FOLDOUT" BROCHURE #9900-9075
PRODUCTS BROCHURE #9900-4028

ELECTRIC PRODUCTS



ROD & GUIDED ROD STYLE ACTUATORS, HIGH THRUST ACTUATORS, SCREW & BELT DRIVE RODLESS ACTUATORS, MOTORS, DRIVES AND CONTROLLERS

"FOLDOUT" BROCHURE #9900-9074
PRODUCTS BROCHURE #9900-4016

POWER TRANSMISSION PRODUCTS



GEARBOXES: Float-A-Shaft®, Slide-Rite®; DISC CONE CLUTCH; CALIPER DISC BRAKES

"FOLDOUT" BROCHURE #9900-9076
PRODUCTS BROCHURE #9900-4029



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