

PNEUMATIC ACTUATOR OVERVIEW



THE RODLESS CYLINDER LEADER

RODLESS CYLINDERS

BAND CYLINDERS

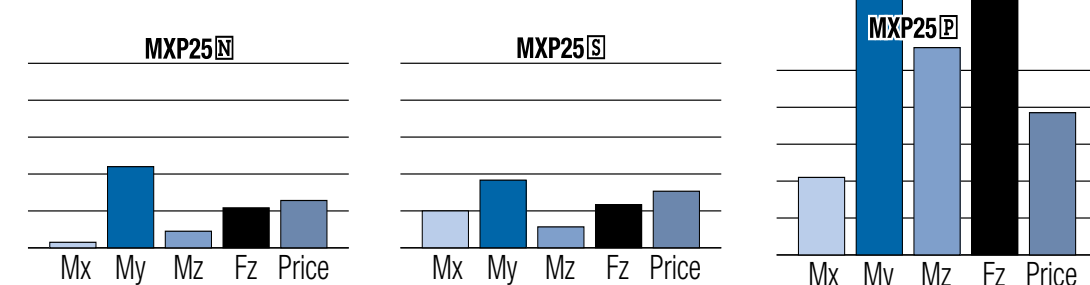


- APPLICATIONS:**
- Guiding and supporting light loads
 - Good for vertical applications or with externally guided loads
- FEATURES:**
- Durable self-lubricating internal bearing performance tested for millions of cycles
- COMMON FEATURES:**
- Non-wear stainless steel bands
 - Adjustable internal end-of-stroke cushion
 - Single piece high strength piston up to 28% stronger than competition
- COMMON OPTIONS:**
- Tube clamps
 - Auxiliary carrier
 - Adjustable and fixed shock absorbers
 - Single end porting
 - Reed or solid state position sensors
 - Foot mount
 - Inch or metric mounting
 - Floating mount (N & S bearings only)

SPECIFICATIONS:

	16	25	32	40	50	63												
BORE in	0.63	1.00	1.25	1.50	2.00	2.50												
SIZE mm	16	25	32	38	50	64												
MAX. in	206	206	205	203	203	103												
STROKE mm	5232	5207	5156	5156	2616													
MAX. lbf	30.7	78.5	123	177	305	491												
THRUST N	136	349	546	786	1356	2184												
	16N	16S	16P	25N	25S	25P	32N	32S	32P	40N	40S	40P	50N	50S	50P	63N	63S	63P
*MAX. LOAD lb	30	35	217	65	70	449	115	150	569	195	225	736	270	315	1014	370	520	1292
*MAX. LOAD N	133	156	965	289	311	1997	512	667	2531	867	1001	3274	1201	1401	4511	1646	2313	5747

*Auxiliary carrier doubles the load capacity and also increases My and Mz bending moment capacity.

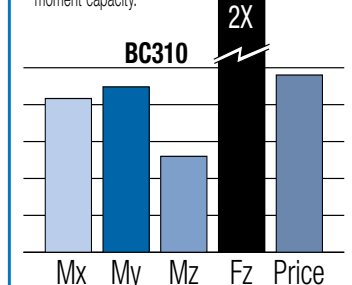


- APPLICATIONS:**
- Guiding and supporting heavy loads
- FEATURES:**
- Reliable, maintenance free bearing system
 - Bearing components are sealed and lubricated at the factory
 - Hardened steel rail guides for high performance and repeatable accuracy
 - Stainless steel sealing band system
 - Adjustable internal end-of-stroke cushion
 - Integral mounting system
 - Isolated piston extends service life of the piston seals
- OPTIONS:**
- Auxiliary carrier
 - Dual 180° carrier
 - Adjustable shock absorbers
 - Foot mount
 - Single end porting
 - Tube supports
 - Reed or solid state position sensors
 - Inch or metric mounting

SPECIFICATIONS:

	10	15	20
BORE in	1.00	1.50	2.00
SIZE mm	25	32	50
MAX. in	205	202	142
STROKE mm	5207	5130	3606
MAX. lbf	78	176	310
THRUST N	347	783	1379
*MAX. LOAD lb	591	1454	2008
*MAX. LOAD N	2629	6468	8932

*Auxiliary and dual 180° carrier doubles the load capacity and also increases My and Mz bending moment capacity.

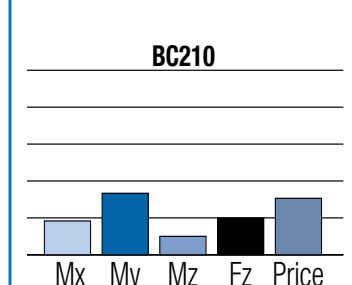


- APPLICATIONS:**
- Guiding and supporting medium loads
- FEATURES:**
- Increased moment capacity carrier design w/ self-lubricating bearings
 - Adjustable carrier for maintaining consistent bearing surfaces
 - Stainless steel sealing band system
 - Adjustable internal end-of-stroke cushion
 - Isolated piston extends service life of the piston seals
- OPTIONS:**
- Auxiliary carrier
 - Four ported head
 - Floating mount
 - Foot mount
 - Tube support
 - Adjustable shock absorbers
 - Reed or solid state position sensors
 - Inch or metric mounting

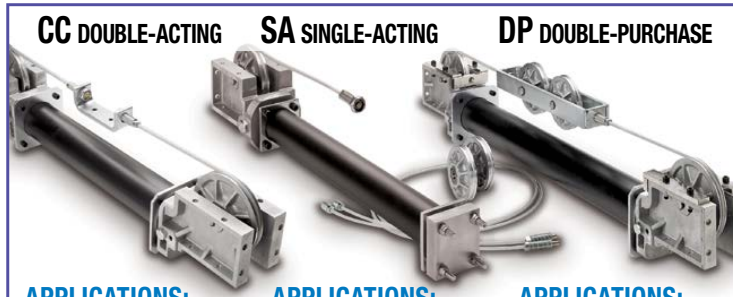
SPECIFICATIONS:

	05	10	12	15	20	25	30	40	50	52
BORE in	0.50	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	2.00
SIZE mm	12	25	32	40	50	63				
MAX. in	171	350	288	298	274	163				
STROKE mm	4343	8890	7315	7569	6959	4140				
MAX. lbf	16	78	120	176	310	495				
THRUST N	71	347	534	783	1379	2202				
*MAX. LOAD lb	5.0	60	120	180	300	400				
*MAX. LOAD N	22	267	534	801	1334	1779				

*Auxiliary carrier doubles the load capacity and also increases My and Mz bending moment capacity.



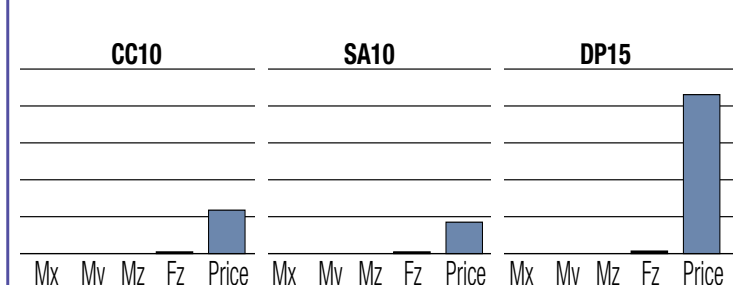
CABLE CYLINDERS



- APPLICATIONS:**
- Loads that are externally guided and supported
- FEATURES:**
- Nylon jacketed aircraft grade cables
 - Unique gland seals provide leak free seal for cables
 - Adjustable internal end-of-stroke cushions
 - Actuator may be located remotely from load and contamination
 - Stroke lengths up to 60 feet with optional tube couplers
- OPTIONS:**
- Pneumatic or hydraulic power
 - 3 ported head
 - Steel tube
 - Seals of Viton® material
 - Reed position sensors
 - Automatic tensioner***
 - Caliper disc brake***
 - Tube coupler***
 - ***Not available for SA

SPECIFICATIONS:

	CC	05	07	10	15	20	25	30	40	50	52
BORE in	0.50	0.75	1.00	1.50	2.00	2.50	3.00	4.00	5.00	2.00	
SIZE mm	13	19	25	38	51	64	76	102	127	51	
MAX. in	54	138	282	280	281	281	280	279	134	280	
STROKE mm	1372	3505	7163	7112	7137	7137	7112	7087	3404	7112	
MAX. lbf	19	43	78	174	618	972	1398	1249	1919	1532	
THRUST N	85	191	347	774	2749	4324	6219	5556	8536	6815	



MAG CYLINDERS



- APPLICATIONS:**
- Environmentally sensitive applications that require low contamination
 - If magnetic coupling strength is exceeded the piston and carrier will decouple - a safety benefit in many applications
- FEATURES:**
- Field repairable to minimize downtime
 - Fully enclosed design keeps contaminants from entering or lubricants from exiting actuator body
 - Low profile rigid design
 - Stainless steel tubing
 - Hardened steel shafts
- OPTIONS:**
- Pneumatic or hydraulic power
 - Floating mount
 - Foot mount
 - Reed or solid state position sensors

SPECIFICATIONS:

	025	038	062	100
BORE in	0.25	0.38	0.62	1.00
SIZE mm	6	10	16	25
MAX. in	26	32	39	56
STROKE mm	660	813	991	1422
MAX. lbf	5	11	30	78
THRUST N	22	49	133	347
MAGNETIC STRENGTH lb	5	14	38	100
MAGNETIC STRENGTH N	22	62	169	445



ROD CYLINDER SLIDES

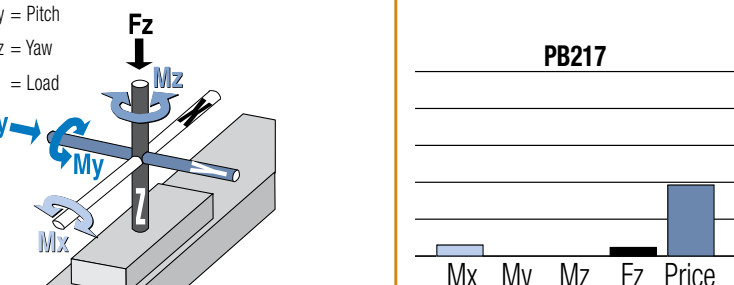


- APPLICATIONS:**
- Withstands heavy side loads
 - Great for conveyor line stops
 - Load lifting applications
- FEATURES:**
- Internal urethane bumpers
 - Composite bearings
 - Standard internal piston magnet for switch sensing
 - Lightweight aluminum design
- OPTIONS:**
- Stop collars and bumpers
 - Dual tooling plate option
 - Reed or solid state position sensors
- SPECIFICATIONS:**
- | | 17 | 20 |
|---------------------|------|------|
| BORE in | 1.06 | 1.25 |
| SIZE mm | 27 | 32 |
| MAX. in | 3 | 3 |
| STROKE mm | 76 | 76 |
| MAX. lbf | 88 | 123 |
| THRUST N | 391 | 547 |
| MAX. LOAD lb | 20 | 25 |
| MAX. LOAD N | 76 | 89 |

SPECIFICATIONS:

	10	17	20	32
BORE in	0.63	1.06	1.25	2.00
SIZE mm	16	27	32	51
MAX. in	4	6	6	6
STROKE mm	102	152	152	152
**MAX. lbf	46	132	184	471
THRUST N	205	587	818	2095
MAX. lb	16	38	48	70
MAX. LOAD N	71	169	214	311

** Maximum thrust at 150 PSI



THE Tolomatic™ DIFFERENCE

EXCELLENCE IN MOTION

SUPERIOR CUSTOMER SERVICE

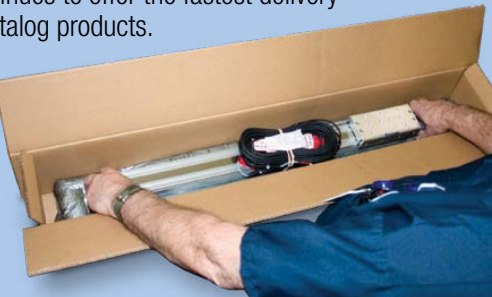


- JUST A PHONE CALL AWAY - Expect prompt, courteous replies to all of your application and product questions. Check us out at 1-800-328-2174

FAST DELIVERY; BUILT-TO-ORDER

- Tolomatic continues to offer the fastest delivery of standard catalog products.

Our products will be there when you need them. **Depend on Tolomatic!**

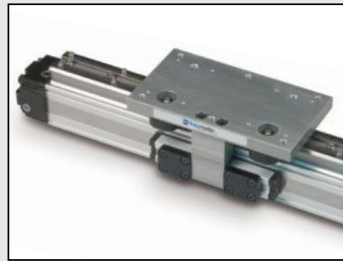


INNOVATIVE PRODUCTS



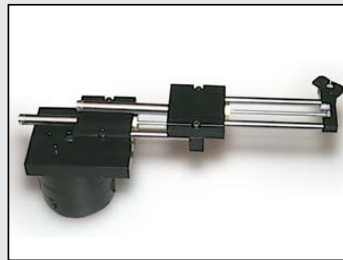
STANDARD PRODUCTS

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



MODIFIED PRODUCTS

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



CUSTOM PRODUCTS

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.

TECHNICAL AND APPLICATION SUPPORT

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



3D MODELS & 2D DRAWINGS

Available in all common formats.

Electric Linear Actuators
Electric linear actuators, servo and stepper motors, roller screws

Pneumatic Actuators
Rodless pneumatic actuators and rod linear thrusters

ServoWeld® Actuators
Servo actuators for robotic resistant spot welding

Power Transmission
Roller screws, clipper disc brakes, right-angle gearboxes

CONTACT AN ENGINEER
Have your technical questions answered quickly by one of our expert application engineers.

ACTUATOR SIZING
Size and select Tolomatic electric actuators with our easy-to-use online software.

CAD LIBRARY
Download 2D or 3D CAD files for Tolomatic products.

YOUR MOTOR HERE®
Select the motor of your choice and your actuator ships with the appropriate mounting plates and couplers for quick and easy install.

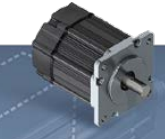
FIND A DISTRIBUTOR
Find the Tolomatic Distributor nearest you.

ELECTRIC ACTUATORS E-BOOK
Education and tips on how to best integrate electric actuators into your machine design.



SIZING & SELECTION

Step by step instructions, specifications and performance data for every electric product.



YOUR MOTOR HERE

Your Motor Here is a program to make mounting most standard motors to appropriately sized actuators easy and seamless.

ALSO CONSIDER THESE OTHER TOLOMATIC PRODUCTS:

ELECTRIC PRODUCTS



ROD & GUIDED ROD STYLE ACTUATORS,
HIGH THRUST ACTUATORS, SCREW &
BELT DRIVE RODLESS ACTUATORS,
MOTORS, DRIVES AND CONTROLLERS
"FOLDOUT" BROCHURE #9900-9074
www.tolomatic.com/electric

POWER TRANSMISSION PRODUCTS



GEARBOXES: *Float-A-Shaft, Slide-Rite*; DISC CONE CLUTCH; CALIPER DISC BRAKES
BROCHURE #9900-9076 CATALOG #9900-4009 www.tolomatic.com/pt

Tolomatic™

EXCELLENCE IN MOTION

COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV GL
= ISO 9001 =
Certified site: Hamel, MN

USA - Headquarters

Tolomatic Inc.
3800 County Road 116
Hamel, MN 55340, USA
Phone: (763) 478-8000
Toll-Free: **1-800-328-2174**
sales@tolomatic.com
www.tolomatic.com

MEXICO

Centro de Servicio
Parque Tecnológico Innovación
Int. 23, Lateral Estatal 431,
Santiago de Querétaro,
El Marqués, México, C.P. 76246
Phone: +1 (763) 478-8000
help@tolomatic.com

EUROPE

Tolomatic Europe GmbH
Elisabethenstr. 20
65428 Rüsselsheim
Germany
Phone: +49 6142 17604-0
help@tolomatic.eu

CHINA

**Tolomatic Automation Products
(Suzhou) Co. Ltd.**
No. 60 Chuangye Street, Building 2
Huqiu District, SND Suzhou
Jiangsu 215011 - P.R. China
Phone: +86 (512) 6750-8506
ServoWeldChina@tolomatic.com

All brand and product names are trademarks or registered trademarks of their respective owners. Information in this document is believed accurate at time of printing. However, Tolomatic assumes no responsibility for its use or for any errors

that may appear in this document. Tolomatic reserves the right to change the design or operation of the equipment described herein and any associated motion products without notice. Information in this document is subject to change without notice.

Visit www.tolomatic.com for the most up-to-date technical information