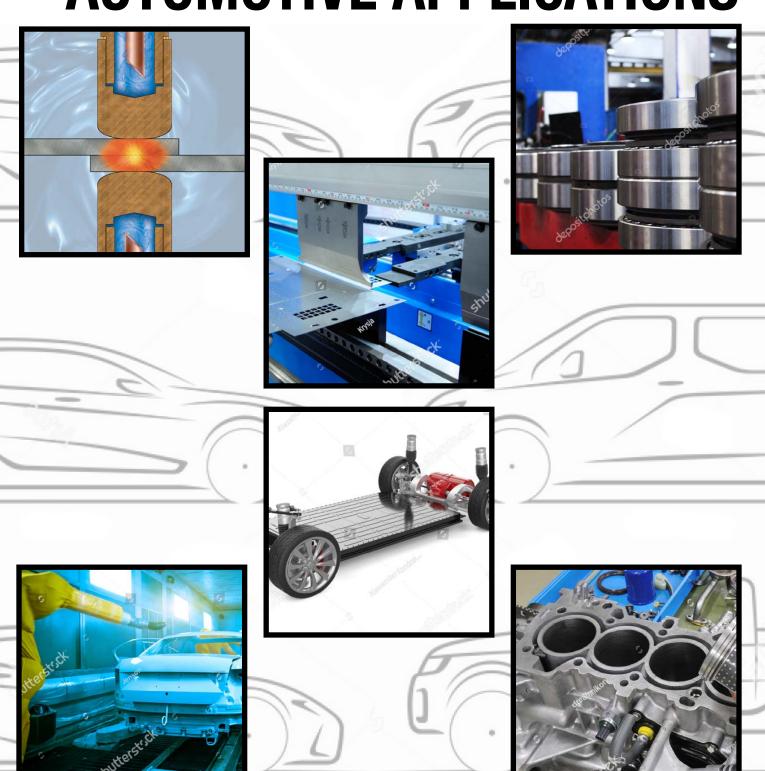


AUTOMOTIVE APPLICATIONS



Tolomatic a Legacy of Innovation in Automotive (Manufacturing/Resistance Spot Welding) Solutions



Tolomatic 1-800-328-2174

history of motion innovation inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

• Simplifies machine design by eliminating the need for

protective guards/enclosures

2000

1954

Founded in 1954 with a continuous

Design Partnership Capabilities

In 2002 a customer came to Tolomatic to shift from pneumatic to electric servo actuators. That partnership lead to the ServoWeld™ product line with over 40,000 units in automotive RSW globally.

Your challenge = Tolomatic's opportunity

Our broad array of products fix problems in all types of industrial automation. But if existing actuators don't exactly meet your unique automotive production challenge our engineering staff can design an actuator that does.

Our greatest successes happen when we engage closely with customers refining or creating entirely new actuators. Tolomatic experts are eager to help you with your next motion challenges.



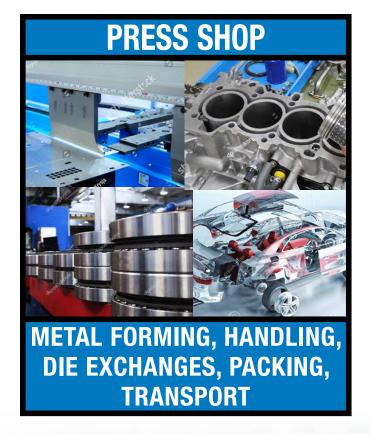




Refining product requirements per customer needs is in our DNA at Tolomatic. *What are your next motion challenges in automotive production?* Let's continue the journey together.

AUTOMOTIVE INDUSTRY SOLUTIONS











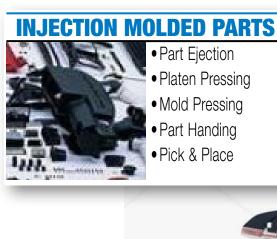


FINAL ASSEMBLY



CONVEYING, LIFTING
STATIONS, PART
POSITIONING, DISPENSING,
PRESSING

COMPONENT MANUFACTURING BY



- Part Ejection
- Platen Pressing
- Mold Pressing
- Part Handing
- Pick & Place

POWERTRAIN

- Honing
- Conveying
- Part Positioning
- Pressing
- Forming & Bending

BATTERIES & TRAYS



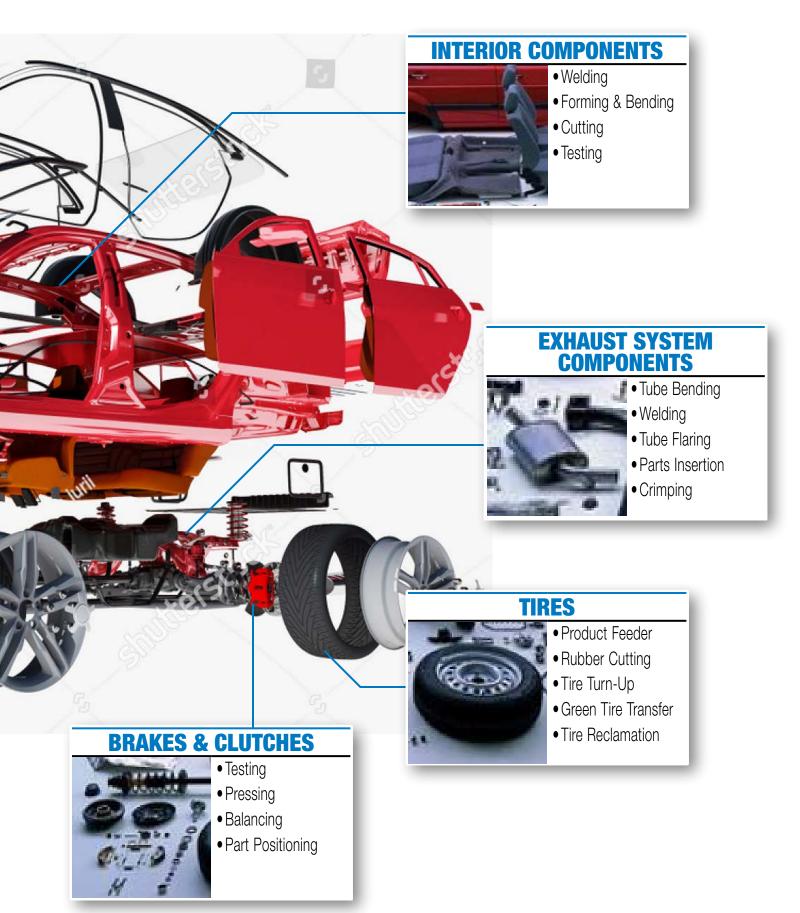
- Micro & Projection Welding
- Crimping
- Pressing
- Tray Welding

ELECTRONIC COMPONENTS



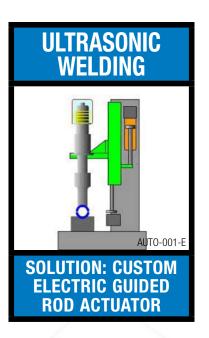
- Pick and Place
- Pogo Pin Testing
- Sorting
- Camera, Parts Inspection

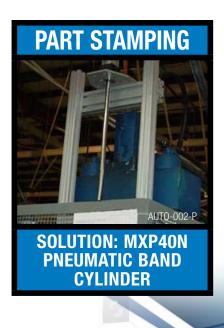
TIER 1 & TIER 2 SUPPLIERS



Tolomatic: AUTOMOTIVE APPLICA

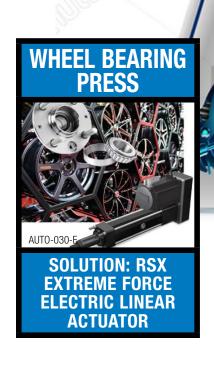


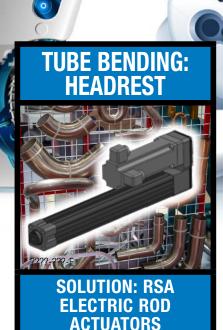






8





ATION SOLUTIONS







Tolomatic SOLUTIONS WITH PROVEN

ROD STYLE SCREW DRIVE



SOLUTION FOR:

- Pneumatic cylinder replacement
- General automation

Models: ERD10, ERD15, ERD20

SPECIFICATIONS (UP TO):

MAX. STROKE	MAX. FORCE	MAX. SPEED
24 in	500 lbf	40 in/sec
609 mm	2224 N	1016 mm/sec



- Pneumatic & hydraulic replacement
- General automation

Models: ST: RSA12, RSA16, RSA24, RSA32, RSA50, RSA64;

HT: RSA24, RSA32, RSA50, RSA64;

SPECIFICATIONS (UP TO):

MAX. STROKE	MAX. FORCE	MAX. SPEED
60 in	13039 lbf	58 in/sec
1524 mm	58 kN	1473 mm/sec



SOLUTION FOR:

- Hydraulic replacement
- Heavy duty applications

Models: RSX080, RSX096, RSX128

SPECIFICATIONS (UP TO):

, ,			
MAX. STROKE	MAX. FORCE	MAX. SPEED	
35 in	50000 lbf	29.9 in/sec	
891 mm	222 kN	759 mm/sec	



SOLUTION FOR:

- Pneumatic & hydraulic replacement
- High performance applications

Models: IMA22, IMA33, IMA44, IMA55

SPECIFICATIONS (UP TO):

MAX. STROKE	MAX. FORCE	MAX. SPEED
18 in	6875 lbf	52.5 in/sec
457 mm	31 kN	1334 mm/sec

RODLESS BELT DRIVE ACTUATORS



SOLUTION FOR:

• Externally guided, supported loads Models: MXB16N, MXB25N, MXB32N,

MXB40N, MXB50N, MXB63N

SPECIFICATIONS (UP TO):

MAX. Stroke	MAX. Force	MAX. Speed	MAX. Load
200 in	418 lbf	200 in/sec	NA
5080 mm	1859 N	5080 mm/sec	NA





SOLUTION FOR:

Light to moderate loads & moments

Models: MXB16S, MXB25S, MXB32S, MXB40S, MXB50S, MXB63S

SPECIFICATIONS (UP TO):

MAX. Stroke	MAX. Force	MAX. Speed	*MAX. Load
200 in	418 lbf	100 in/sec	520 lb
5080 mm	1859 N	2540 mm/sec	2313 N

^{*}Auxiliary carrier option offers increased load and bending moment capacity

MXB-P PROFILED RAIL BEARING



SOLUTION FOR:

Moderate to high loads and moments

Models: MXB16P, MXB25P, MXB32P, MXB40P, MXB50P, MXB63P

SPECIFICATIONS (UP TO):

MAX. Stroke	MAX. Force	MAX. Speed	*MAX. Load
200 in	418 lbf	150 in/sec	1292 lb
5080 mm	1859 N	3810 mm/sec	5745 N
± 4		"	

^{*}Auxiliary carrier option offers increased load and bending moment capacity

B3W INTERNAL V-WEDGE BEARING



SOLUTION FOR:

- Moderate to high loads and moments
- Stable, precision load guidance

Models: B3W10. B3W15. B3W20. B3W10D, B3W15D, B3W20D

SPECIFICATIONS (UP TO):

MAX. Stroke	MAX. Force	MAX. Speed	*MAX. Load
207 in	325 lbf	200 in/sec	2008 lb
5258 mm	1446 N	5080 mm/sec	8932 N

*Dual 180° & auxiliary carrier options offer increased load and bending moment capacity

AUTOMOTIVE INDUSTRY PERFORMANCE

ACTUATORS



SOLUTION FOR:

- •7th axis robotic resistance spot
- Pedestal / projection welding

Models: SWA, SWB, GSWA

SPECIFICATIONS (UP TO):

MAX. STROKE	MAX. FORCE	MAX. SPEED
18 in	5500 lbf	24 in/sec
457 mm	24500 N	610 mm/sec



SOLUTION FOR:

- •7th axis robotic resistance spot welding
- Pedestal / projection welding

Models: SWA, SWB, GSWA

SPECIFICATIONS (UP TO):

MAX. STROKE	MAX. FORCE	MAX. SPEED
18 in	5500 lbf	24 in/sec
457 mm	24500 N	610 mm/sec



SOLUTION FOR:

- 7th axis robotic resistance spot welding
- Pedestal / projection welding

Models: CSW, CSWX

SPECIFICATIONS (UP TO):

MAX. STROKE	MAX. FORCE	MAX. Speed
11.8 in	4047 lbf	27.5 in/sec
300 mm	18 kN	700 mm/sec



SOLUTION FOR:

- Merchant roller screws for installation in your actuators
- High performance applications

Models: 15.04, 15.05, 15.10, 20.04, 20.05, 20.10, 30.05, 30.10, 36.05, 36.10, 39.10, 48.12, 63.10

SPECIFICATIONS (UP TO):

MAX. STROKE	MAX. FORCE
40 in	50000 lbf
1036 mm	222 kN

RODLESS SCREW DRIVE ACTUATORS



SOLUTION FOR:

• Light to moderate loads & moments Models: MXE16S, MXE25S, MXE32S, MXE40S, MXE50S, MXE63S

SPECIFICATIONS (UP TO):

MAX. Stroke	MAX. Force	MAX. Speed	*MAX. Load
178 in	4300 lbf	60 in/sec	520 lb
4521 mm	19 kN	1524 mm/sec	2313 N

*Auxiliary carrier option offers increased load and bending moment capacity



SOLUTION FOR:

· Moderate to high loads & moments

Models: MXE16P, MXE25P, MXE32P, MXE40P, MXE50P, MXE63P

SPECIFICATIONS (UP TO):

MAX.	MAX.	MAX.	*MAX.
Stroke	Force	Speed	Load
178 in	4300 lbf	60 in/sec	1292 lb
4521	19127	1524	5745 N
mm	N	mm/sec	

*Auxiliary carrier option offers increased load and bending moment capacity



SOLUTION FOR:

- Moderate to high loads & moments
- Stable, precision load guidance

Models: B3S10, B3S15, B3S20, B3S10D, B3S15D, B3S20D

SPECIFICATIONS (UP TO):

MAX.	MAX.	MAX.	*MAX.
Stroke	Force	Speed	Load
178 in	4300 lbf	60 in/sec	1292 lb
4521	19127	1524	5745 N
mm	N	mm/sec	

*Dual 180° & auxiliary carrier options offer increased load and bending moment capacity

MODIFIED & CUSTOM





SOLUTION FOR:

· High accuracy applications

Models: 100, 165

The Tolomatic Difference Expect More From the Industry Leader:



Unique linear actuator solutions with Endurance TechnologySM to solve your challenging application requirements.



The fastest delivery of catalog products... Built-to-order with configurable stroke lengths and flexible mounting options.



Online sizing that is easy to use, accurate and always up-to-date. Find a Tolomatic electric actuator to meet your requirements.



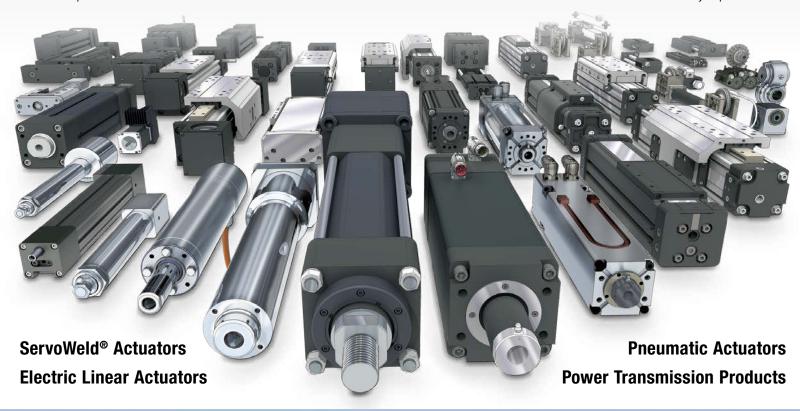
Match your motor with compatible mounting plates that ship with any Tolomatic electric actuator.



Easy to access CAD files available in the most popular formats to place directly into your assembly.



Extensive motion control knowledge:
Expect prompt, courteous replies to any application and product questions from Tolomatic's industry experts.



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

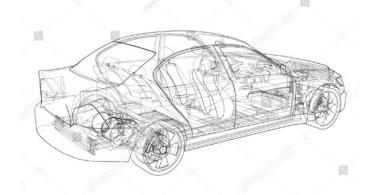
Tolomatic Automation Products (Suzhou) Co. Ltd.

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

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EXTRA IMAGES FOR CONSIDERATION







shutterstsck











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