

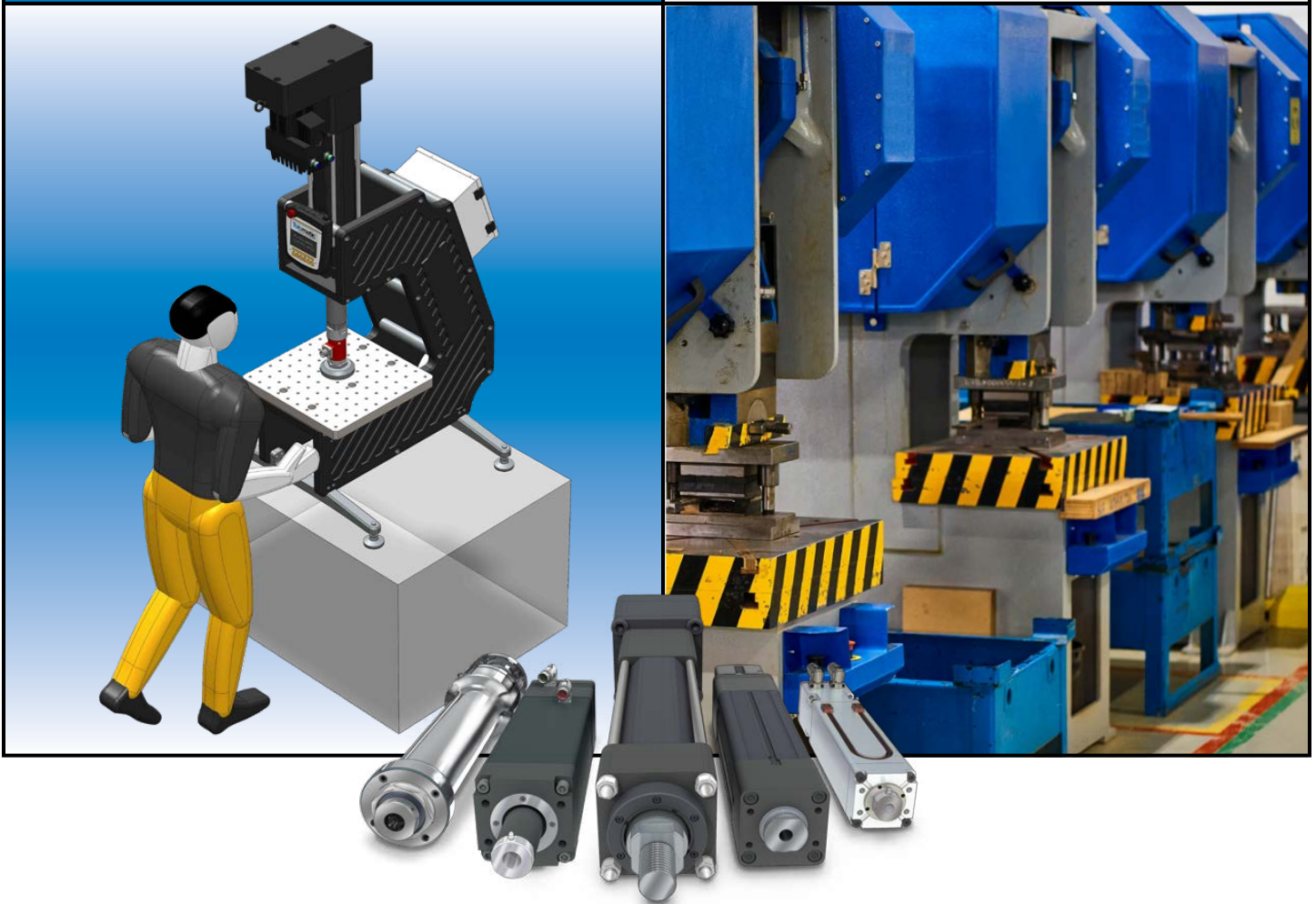
# ELECTRIC PRESSING SOLUTIONS

## Pre-engineered Systems

Stroke configurable

## Retrofit & Customized Systems

Designed for the application



### Force Capabilities That Equal or Surpass Hydraulic Systems

- Force Control
- Position Control
- Data Collection
- Longer Life
- Clean: no air, no oil, no leaks
- Continuous: 24x7 Reliability for high duty cycle
- Control: Improved efficiency, quality and yield
- Lower Maintenance

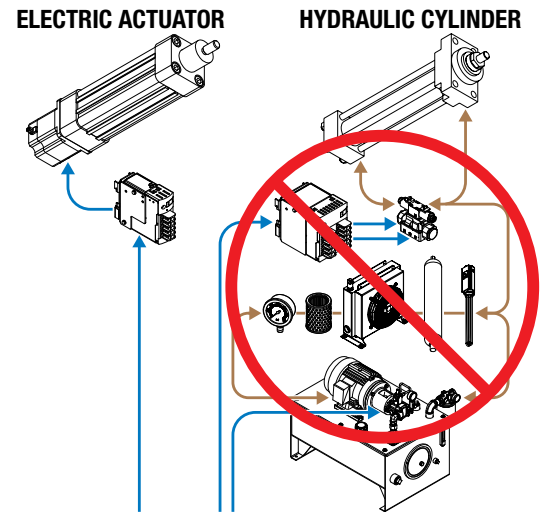


**SOLVE**

**LINEAR SOLUTIONS MADE EASY**

## Benefits of Electric Linear Motion Systems over Hydraulic Systems

- **Control, Feedback & Data Collection:** An actuator's servo motor/drive system provides precise measurement and control of position, speed, acceleration, and force (torque). This information is available on a continuous basis for tracking and auditing purposes.
- **Life and Maintenance:** Properly sized and applied electric actuators have a long service life and require minimal maintenance.
- **Safety:** Light curtain, 2 hand control, guarding configurations available.
- **Environmental Concerns:** Electric actuators do not contain fluids and therefore do not pose the contamination hazard of hydraulic systems. In addition, temperature fluctuations have less impact on electric actuators.



*Hydraulic cylinders and required components are more complex than electric actuators.*

## The Tolomatic Difference

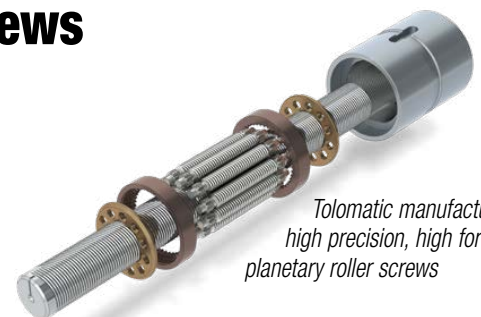
- **Built to Last:** All Tolomatic actuators are designed and built to optimize for durability, long life, and serviceability.
- **Broad Offering:** A wide range of rod style electric options with force ranges up to 60,000 lbf (267 kN).
- **Online Tools:** Select the right actuator optimized for your application with Tolomatic Size It software. Build and download CAD models to ensure design fit.
- **Tailor-Made:** Actuators are built to your stroke length. A large variety of motor and motor mounting choices with the Your Motor Here® program, including reverse-parallel, in-line, or integrated motor actuators.



*RSX Extreme Force Electric Actuators*

## Roller Screws Advantages vs Ball Screws

- High precision, high force, compact design; more contact points compared to ball screws.
- Manufactured and validated to produce the longest life in pressing applications.
- Proven in demanding applications using Tolomatic actuator platforms.



*Tolomatic manufactures high precision, high force planetary roller screws*

## Designing and Building a Complete Solution

### Design and model the correct Tolomatic actuator into your press.

- Sizing and selection: <https://sizeit.tolomatic.com>
- Design and technical assistance: [tolomatic.com/ask](https://tolomatic.com/ask)
- Validation and modeling: [tolomatic.com/CAD](https://tolomatic.com/CAD)

### Select an E-Press from proven pre-engineered designs

- Includes electric motor, actuator and fixture
- Pre-engineered designs, stroke configurable
- Specify the motor of your choice with Tolomatic's Your Motor Here program

Tolomatic has partnered with Solve to design these capable and versatile electric press products



E-PRESS	FORCE		TOLOMATIC ACTUATOR
	lbf	kN	
SLV-5	5,000 lbf	22 kN	IMA
SLV-10	10,000 lbf	44 kN	RSA
SLV-15	15,000 lbf	67 kN	RSA
SLV-30	30,000 lbf	133 kN	RSX
SLV-60	60,000 lbf	267 kN	RSX



RSX Rod Screw Actuator

SLV-60 with Tolomatic RSX actuator

### Easy three step process to a custom solution – work with experts at Tolomatic and Solve.

- Tolomatic can collaborate through our local distributor or work with your systems integrator
- Use this service for new systems or difficult retrofit challenges

#### Begin with:

##### CONCEPT:

- "Napkin" sketch
- Budget
- Force
- Speeds

#### Key Design Considerations

##### MOVEMENT: *End Customer*

- Speeds
- Cycle time
- Accuracy
- Repeatability
- Dwells

##### *Tolomatic & Partner*

- Motor/drive
- Gearboxes

##### SPACE: *End Customer*

- Working envelope
- Stroke length
- Environment Concerns

##### *Tolomatic & Partner*

- Required installation envelope
- Cable management
- Mounting considerations

##### FORCE: *End Customer*

- Force
- Verticle
- Horizontal
- Alignment

##### *Tolomatic & Partner*

- Tooling

#### Final Design

##### Design details:

- CAD layout
- Approval drawing sign-off
- Total cost of ownership
- Life

##### Final Assembly:

- Factory
- Integrator
- Field





MADE IN U.S.A.

# Tolomatic™

EXCELLENCE IN MOTION

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

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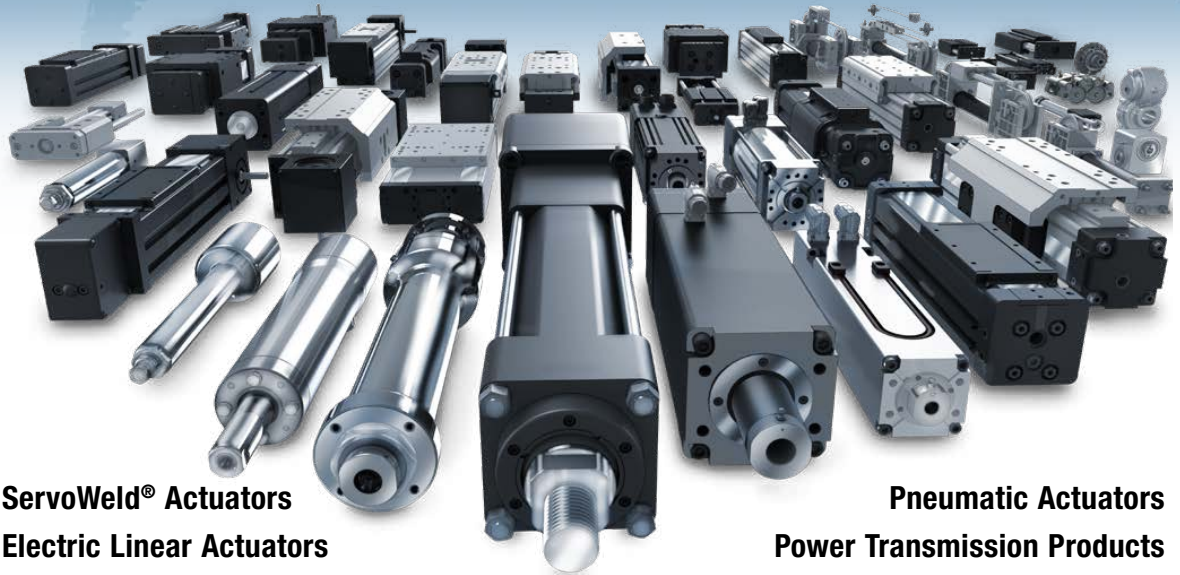
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Visit [www.tolomatic.com](http://www.tolomatic.com) for the most up-to-date technical information

## More Tolomatic Products:



ServoWeld® Actuators  
Electric Linear Actuators

Pneumatic Actuators  
Power Transmission Products

## Online Tools:



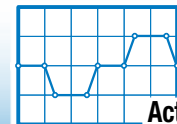
Ask an Engineer  
[tolomatic.com/ask](http://tolomatic.com/ask)



Your Motor Here  
[tolomatic.com/ymh](http://tolomatic.com/ymh)



CAD Library  
[tolomatic.com/CAD](http://tolomatic.com/CAD)



Actuator Sizing  
[sizeit.tolomatic.com](http://sizeit.tolomatic.com)

## Proven partner for development of multi-axis systems:



# SOLVE

- Engineering Design
- Component Kits
- Full Service Fabrication

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Solve consists of a team of engineers, designers and creatives based in NYC. We're problem solvers and solution specialists committed to creating change through design. We treat each project with purpose and stand behind everything that leaves our doors. Our mission is simple - empower innovation without limitation.