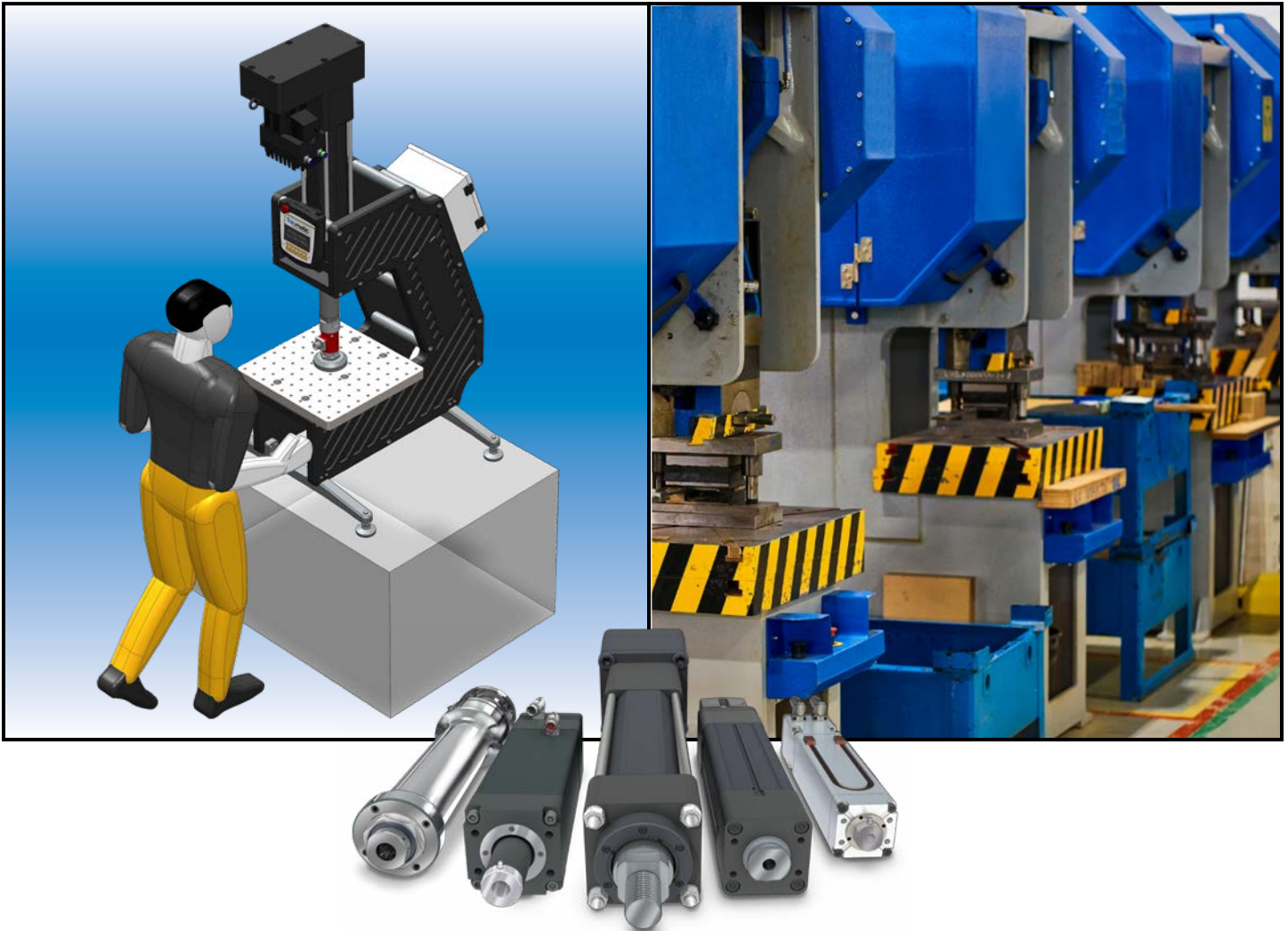


# ELECTRIC PRESSING SOLUTIONS



## **Force Capabilities That Equal or Surpass Hydraulic Systems**

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

## Linear Servo Press Applications and Capabilities

- Metal stamping
- Assembly and Joining
- Riveting and Fastening
- Material Forming
- Plastic and Composite Molding
- Testing and Quality Control
- Electronics and Microelectronics Assembly
- Medical Device Manufacturing
- Aerospace and Automotive Industries
- General Manufacturing

Versatility, precise force control and accurate motion control make Linear Servo Presses a vital solution for a wide range of industries and manufacturing processes.



## 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)

### Begin with:

#### CONCEPT:

- Concept sketch
- Budget
- Force
- Speeds

### Key Design Considerations

#### MOVEMENT:

- Speeds
- Cycle time
- Accuracy
- Repeatability
- Dwells

#### SPACE:

- Working envelope
- Stroke length
- Environment Concerns

#### FORCE:

- Force
- Vertical
- Horizontal
- Alignment

- Motor/drive
- Gearboxes

- Required installation envelope
- Cable management
- Mounting considerations

- Tooling

### Final Design

#### Design details:

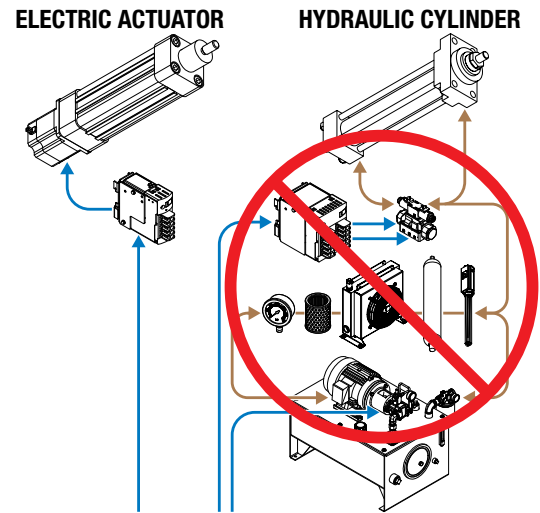
- CAD layout
- Approval drawing sign-off
- Total cost of ownership
- Life

#### Final Assembly:

- Factory
- Integrator
- Field

## Benefits of Electric Linear Motion Systems over Hydraulic Systems

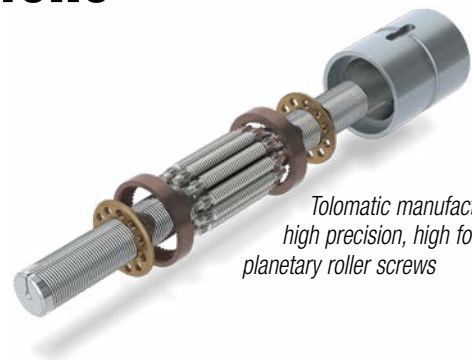
- **Control, Feedback & Data Collection:** An actuator's servo motor/drive system provides precise measurement and control of position, speed, acceleration, and force (torque). This information is available on a continuous basis for tracking and auditing purposes.
- **Life and Maintenance:** Properly 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.*

## 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*

## System Design

If you would like to be connected with one of our partners for system integration, please contact your local Tolomatic sales manager. <https://www.tolomatic.com/support/sales-team/>

You can also contact:



**SOLVE**

[www.solveinc.com](http://www.solveinc.com)

# The Tolomatic Difference Expect More From the Industry Leader:



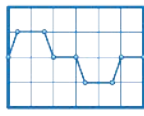
## INNOVATIVE PRODUCTS

Solutions with Endurance Technology<sup>SM</sup> for challenging applications.



## FAST DELIVERY

Built-to-order with configurable stroke lengths and flexible mounting options.



## ACTUATOR SIZING

Size and select electric actuators with our online software.



## YOUR MOTOR HERE<sup>®</sup>

Match your motor to compatible mounting plates with Tolomatic actuators.



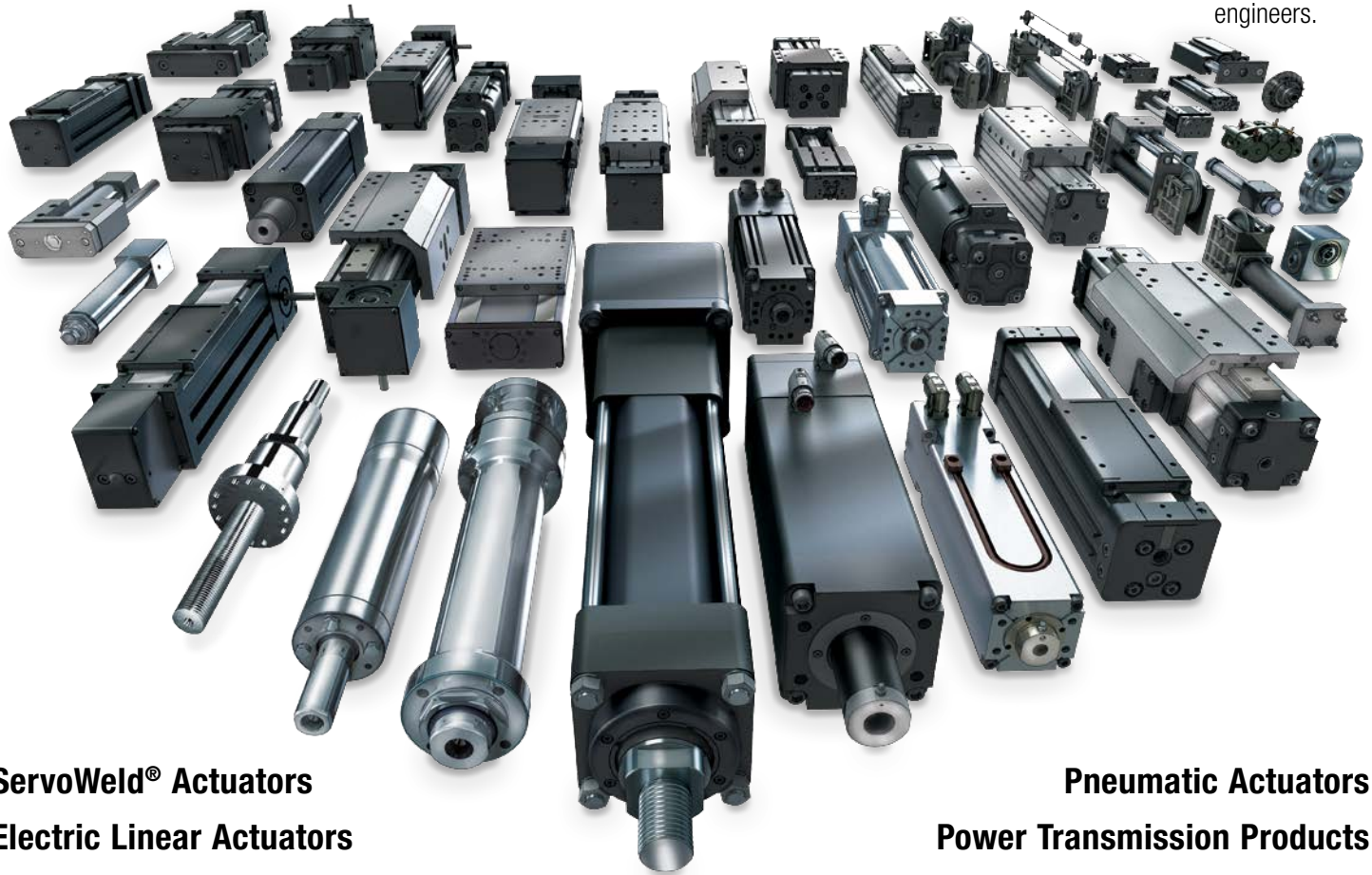
## CAD LIBRARY

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



## TECHNICAL SUPPORT

Get a question answered or request a virtual design consultation with one of our engineers.



## ServoWeld<sup>®</sup> Actuators

## Electric Linear Actuators

## Pneumatic Actuators

## Power Transmission Products



MADE IN U.S.A.

# Tolomatic<sup>TM</sup>

EXCELLENCE IN MOTION

COMPANY WITH  
QUALITY SYSTEM  
CERTIFIED BY DNV  
= 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](http://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

[www.tolomatic.com/de-de](http://www.tolomatic.com/de-de)

### 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

Tolomatic\_China@tolomatic.com

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