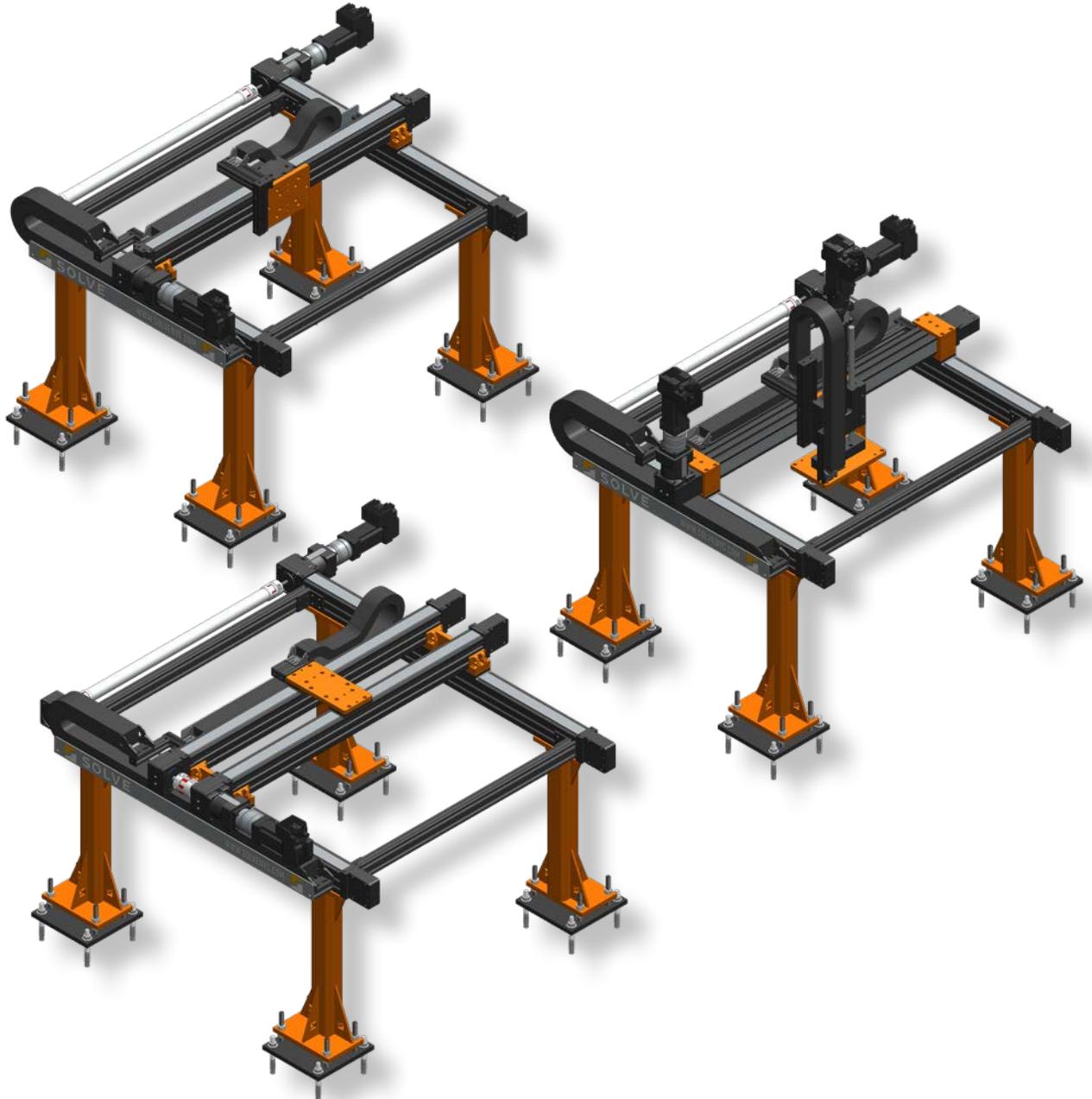


# GANTRY & MULTI-AXIS SOLUTIONS



## Robust multi-axis and gantry systems to handle:

- High duty cycle applications
- Moving loads of significant mass
- Flexibility in design with comprehensive product line of rodless and rod-style actuators

images courtesy of solvenyc.com

## Considerations for your system

### LONG STROKES & MULTIPLE CARRIERS

*Greater capacity, more choice*

Rodless belt-drive actuators can be modified to nearly double stroke length

Multiple carriers can increase the load carrying capacity and give higher bending moment control capability



### DUAL DRIVE FOR JACK-SHAFT

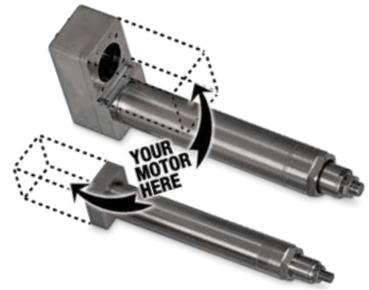
*Lower cost, easier set-up*

Keeps actuators synchronized

No need for 2 motors



**YOUR MOTOR HERE®**  
*Easily fit into your current system*



Integrates perfectly with your motor of choice

Choose a Tolomatic stepper or servo motor, OR Specify and ship your motors/gearheads to Tolomatic for factory installation, OR Specify each motor to be installed and each actuator ships with proper mounting hardware

### FLEXIBLE MOUNTING OPTIONS

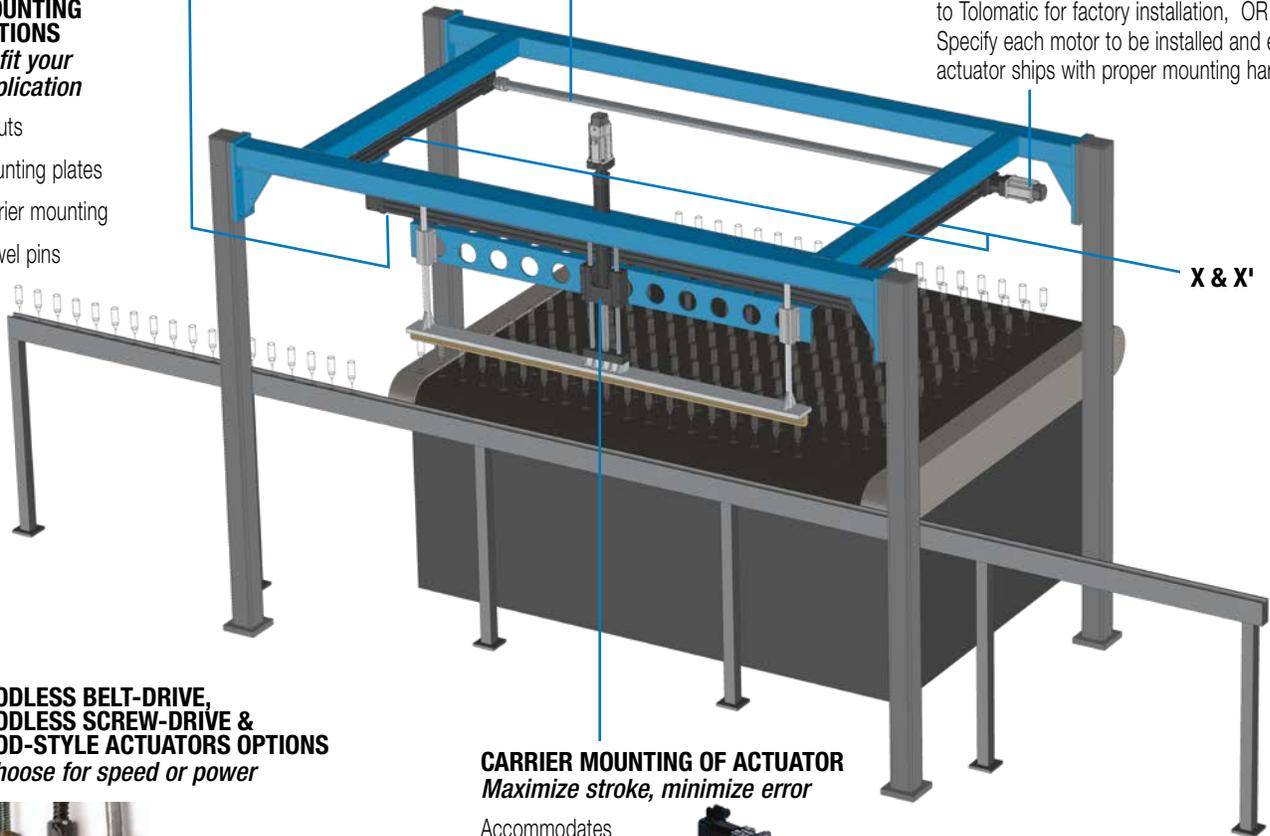
*To fit your application*

T-Nuts

Mounting plates

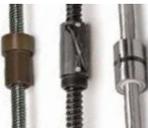
Carrier mounting

Dowel pins



### RODLESS BELT-DRIVE, RODLESS SCREW-DRIVE & ROD-STYLE ACTUATORS OPTIONS

*Choose for speed or power*



SCREW-DRIVE: Bronze, Acme, Ball, or Roller

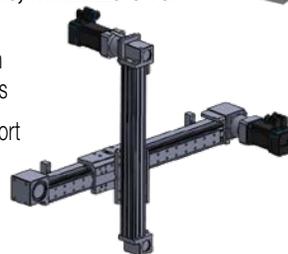
BELT-DRIVE: Poly, Steel-belted

### CARRIER MOUNTING OF ACTUATOR

*Maximize stroke, minimize error*

Accommodates longer stroke than rod-style actuators

Built-in load support and bending moment control



## 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:



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

## Building a solution for your challenge

### Begin with:

#### CONCEPT:

- Concept sketch
- Budget
- Loads
- Speeds

### Key Design Considerations

#### MOVEMENT:

- Speeds
- Cycle time
- Accuracy
- Repeatability
- Dwells

#### SPACE:

- Working envelope
- Stroke length
- Environment Concerns

#### LOAD:

- Weights
- Load dimensions
- Forces
- Center of gravity

### Final Design

#### Design details:

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

- Screw/Belt per axis

- Motor/drive

- Gearboxes

- X, Y, Z interaction

- Stroke over travel

- Required installation envelope

- Cable management

- Mounting considerations

- Moment loads

- Tooling

#### Final Assembly:

- Factory
- Integrator
- Field

## Linear Motion Systems

Innovative, high quality, industrial-grade linear motion control products, devices and systems. Serving industries worldwide with customer-focused, fast, flexible service.

### Electric Linear Actuators

**Electric linear motion solutions made easy and affordable.**

- Rodless Electro-Mechanical Actuators
- Electric Rod Actuators
- ServoWeld® Resistance Spot Welding Actuators
- Motors & Drives
- Roller Screws
- Gantry & Multi-Axis Solutions
- Custom & Modified Products

### Pneumatic Linear Actuators

**Broadest line of pneumatic linear actuators built with maximum durability.**

- Rodless Pneumatic Actuators
  - Band-type Rodless Pneumatic Actuators
  - Magnetic Linear Actuators
  - Cable Cylinders
- Rod-style Pneumatic Linear Thrusters
- Custom & Modified Products

### Power Transmission

**Products with over 60 years of proven performance.**

- Roller Screws
- Industrial Caliper Brakes
  - Pneumatic
  - Hydraulic
  - Mechanical
  - Spring Applied
- Industrial Gearboxes
- Industrial Cone Clutches



# The Tolomatic Difference Expect More From the Industry Leader:



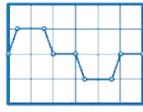
## INNOVATIVE PRODUCTS

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.



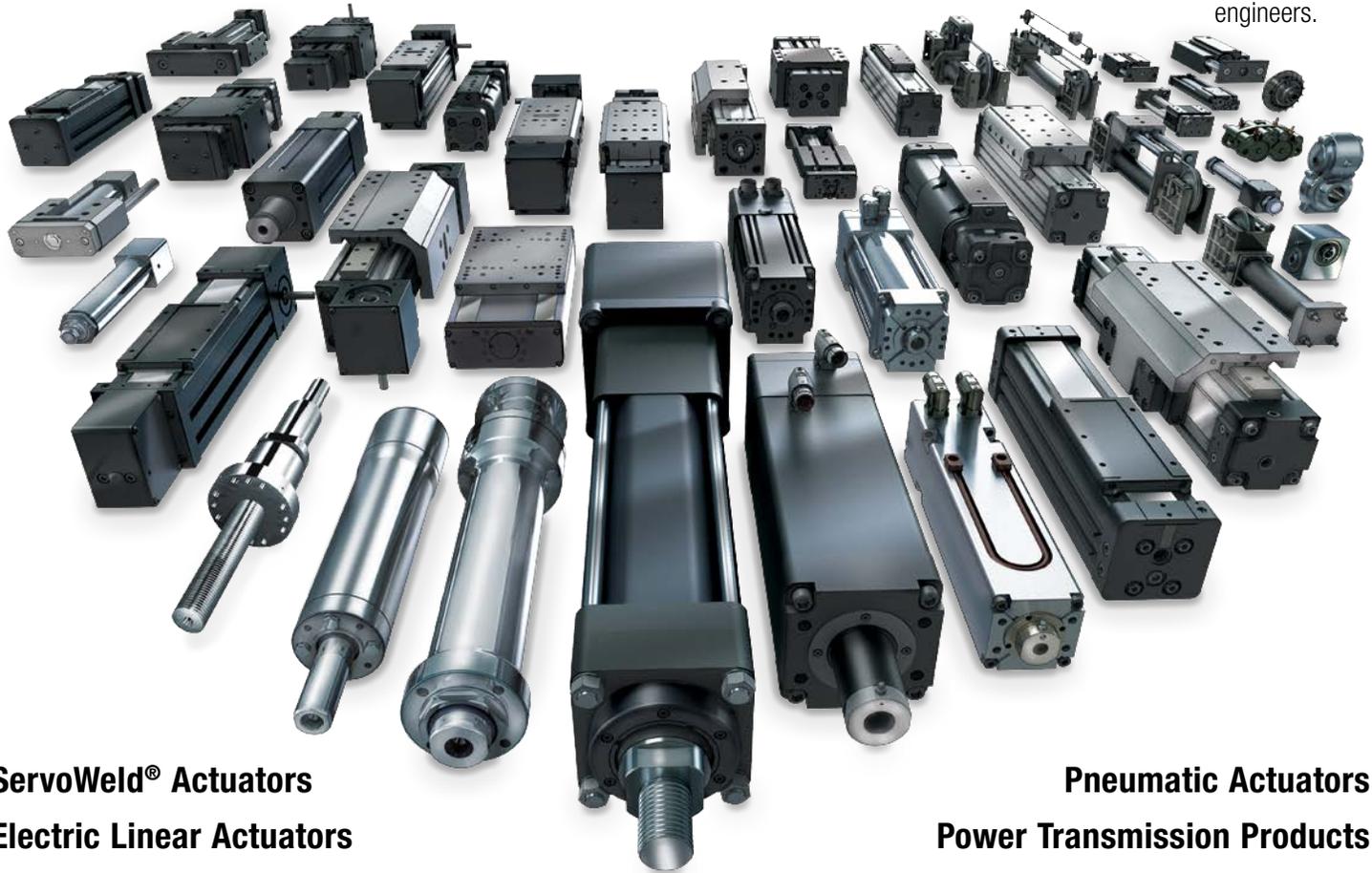
## CAD LIBRARY

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

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