A GUIDE TO INTEGRATED LINEAR ACTUATOR SOLUTIONS

GANTRY & MULTI-AXIS SOLUTIONS

Concept

Design

Fabrication

Robust gantries designed to accommodate high duty cycle, large weight & size.

Infinite combinations can be created with our comprehensive product line of rodless and rod-style actuators

- Configurable, built-to-order solutions
- Maximize flexibility, speed, efficiency and throughput
- Integrates with existing systems with “Your Motor Here”, flexible mounting; including carrier mounting

A GUIDE TO INTEGRATED LINEAR ACTUATOR SOLUTIONS
TOLOMATIC GANTRY & MULTI-AXIS SOLUTIONS

NO COOKIE-CUTTER SYSTEMS HERE
(Unless, of course, you actually want to cut cookies)

More choices with professional guidance to create your gantry, your way.

Off the shelf gantry systems have their place. But if you have weight, force or size challenges that don’t fit within their limited offerings you do have a choice. Tolomatic has been creating flexible, robust, high duty cycle gantry systems for decades. We make gantry systems bigger, stronger and more configurable.

Fully integrated turnkey solutions.
- Single and multi-axis control using motion controllers
- Gantry pre-programming based on customer specifications
- Safety features (light curtains, safety mats, e-stop, etc.)
- Electrical control panels
- User interface (HMI, control pendant, etc.)

ENDURANCE TECHNOLOGY
A Tolomatic Design Principle

Endurance Technology features are designed for maximum durability to provide extended service life.
GANTRIES: ENDLESS CONFIGURATIONS
Designing and building the complete solution for your challenge

Begin with:
CONCEPT:
☐ “Napkin” sketch
☐ Budget
☐ Loads
☐ Speeds

Key Design Considerations

MOVEMENT: End Customer
☐ Speeds
☐ Cycle time
☐ Accuracy
☐ Repatibility
☐ Dwell

SPACE: End Customer
☐ Working envelope
☐ Stroke length
☐ Environment Concerns

LOAD: End Customer
☐ Weights
☐ Load dimensions
☐ Forces
☐ Center of gravity

Final Design

Design details:
☐ CAD layout
☐ Approval drawing sign-off
☐ Total cost of ownership
☐ Life

Final Assembly:
☐ Factory
☐ Integrator
☐ Field

Tolomatic & Partner
☐ Screw/Belt per axis
☐ Motor/drive
☐ Gearboxes
☐ X, Y, Z interaction

Tolomatic & Partner
☐ Stroke over travel
☐ Required installation envelope
☐ Cable management
☐ Mounting considerations

Tolomatic & Partner
☐ Moment loads
☐ Tooling

More than just actuators, these additional components & services make up a complete gantry system:

- Cable Track
- Cable Tray
- Transition plates
- Base plates

- Jack Shafts and Couplers
- Framing: Tubular – Steel – Extrusion
- EOAT design: End of Arm Tooling (vacuum, gripper, load cell)

- Customer run-off
- Units can be shipped in kit form or other depending on size
- On-site support
The Tolomatic Difference Expect More From the Industry Leader:

**INNOVATIVE PRODUCTS**
Unique linear actuator solutions with Endurance Technology™ to solve your challenging application requirements.

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

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

**YOUR MOTOR HERE**
Match your motor with compatible mounting plates that ship with any Tolomatic electric actuator.

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

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

---

Also Consider These Other Tolomatic Products:

**Electric Products**
Rod & Guided Rod Style Actuators, High Force Actuators, Screw & Belt Drive Rodless Actuators, Motors, Drives and Controllers
“Foldout” Brochure #9900-9074

**Pneumatic Products**
Rodless Cylinders: Band Cylinders, Cable Cylinders, Magnetically Coupled Cylinders/Slides; Guided Rod Cylinder Slides
“Foldout” Brochure #9900-9075

**Power Transmission Products**
Gearboxes: Float-A-Shaft®, Slide-Rite®, Caliper Disc Brakes; Planetary Roller Screws
“Foldout” Brochure #9900-9076

Sold & Serviced By:

**ELECTROMATE**
877-737-8698
sales@electromate.com
www.electromate.com

**SERVO2GO.com**
877-378-0240
sales@servo2go.com
www.servo2go.com

---

© 2020, Tolomatic, Inc.

202008111116

9900-4062_00