

IMA INTEGRATED MOTOR ACTUATOR

The IMA is a compact, durable, high force rod-style actuator with an IP65 rating. The IMA integrates a servo motor into a ball or roller screw-driven actuator to provide efficient high force in a compact lightweight design envelope. Our patented design allows for easy re-lubrication without disassembly for extremely long service life. Built-to-order in stroke lengths up to 450 mm (18") with your choice of screw technology.

ENDURANCE TECHNOLOGYSM

A Tolomatic Design Principle

TolomaticTM... MAXIMUM DURABILITY
EXCELLENCE IN MOTION

HIGH POSITIONAL ACCURACY

MAX. SCREW ACCURACY

Roller Nut	± 0.0004"/ft.	± 0.0102mm/300mm
Ball Nut	± 0.0009"/ft.	± 0.023mm/300mm

REPLACEABLE ROD WIPER

- Prevents contaminants from entering the actuator for extended life

GREASE PORT

- Screw re-lubrication system provides extended screw service life
- Convenient lubrication without disassembly (IMA22 is lubed for life and does not include grease port)

INTEGRAL MOUNTING

- Four metric threaded holes on front face are available for direct mounting or addition of customized options

THREADED ROD END

- Zinc plated alloy steel construction for corrosion resistance
- Provides a common interface to multiple rod end options

THRUST TUBE

- Steel thrust tube supports extremely high force capabilities
- Salt bath nitride treatment provides excellent corrosion resistance, surface hardness and is very resistant to adherence of weld slag, water and other potential contaminant

MULTIPLE SCREW TECHNOLOGIES

YOU CAN CHOOSE:

- Ball screws offer efficiency at a cost effective price
- Roller screws provide the highest force and life ratings available



INTERNAL BUMPERS

- Bumpers protect the screw and nut assembly from damage at end of stroke

SMOOTH BODY DESIGN

- Eliminates potential contaminant collection points

LIGHTWEIGHT ALUMINUM DESIGN

- Black anodized extrusion design is optimized for rigidity and strength

ROBOT & DRIVE/CONTROLLER COMPATIBILITY

- Compatible feedback, connector(s) and wiring to match the following robot & drive/controller manufacturers:

• ABB Robot*	Techniques FM & NT	• Nachi Robot*
• Aerotech BM*	• Fanuc Robot*	• Omron*
• Allen Bradley MP & VP	• Kawasaki Robot*	• Parker MPP*
• B&R 8LS*	• Kollmorgen AKM*	• Schneider Electric SH*
• Baldor BSM	• Kuka Robot*	• SEW CMP*
• Beckhoff AM8*	• Lenze MCA	• Siemens 1F*
• Bosch Rexroth MSK	• Motoman / Yaskawa Robot*	• Stober*
• Nidec/Control		*Consult Tolomatic for lead time

- Tolomatic standard connector, wiring and flying lead cable can be used to integrate with servo drive manufacturers such as:

• AMC • Copley • Elmo • + Others

- STAGGERED CONNECTORS for convenient installation

HIGH RESOLUTION FEEDBACK

YOU CAN CHOOSE:

- Incremental encoder
- Multi-turn absolute encoder, Hiperface, Hiperface DSL, EnDat 2.2
- Resolver

HIGH FORCE ANGULAR CONTACT BEARINGS

- Provides complete support of screw and protects the feedback device from linear forces

MULTIPLE MOTOR WINDINGS

YOU CAN CHOOSE:

- 230V or 460V rated windings potted directly into actuator housing
- Skewed motor windings provide minimal torque ripple for smooth linear motion
- Integral thermal switch for over temperature protection
- 1 stack motor (MV21-230V & MV41-460V) available for the IMA22 & IMA33, allows strokes between 3 and 6" providing the force needed for many applications in a more compact, lighter weight packages

OPTIONS (SEE IMA EXTENDED CATALOG FOR MORE IMA OPTIONS)

MOUNTING

- Front Face - Standard
- Side Mounting Holes, 2 sides & bottom (no photo)



• Mounting Plates



• Rear Clevis



• Front Flange



• Trunnion, Rear or Front

ROD END

- Internal Thread - Standard



• External Threads



• Clevis



• Spherical Eye



• Alignment Coupler

BRAKE



- 24V Spring held / electronically released

CABLES



- Signal Cable (5 & 10m)
- Power Cable (5 & 10m)

ARO



- Anti-Rotate

DISCOVER
THE
IMA-S
STAINLESS STEEL
DESIGN

The best integrated
hygienic actuator
available!
CLICK HERE!