

IMA INTEGRATED MOTOR ACTUATOR

The IMA is a 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").

Modifications:

Contact Tolomatic for stainless steel, manual override or food grade versions of the IMA (See #2700-4008 or 2700-4000 for white paint IMA information



 Screw re-lubrication system provides extended screw service life

 Convenient lubrication without disassembly

MULTIPLE SCREW TECHNOLOGIES YOU CAN CHOOSE:

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

• ROBOT DRIVE/CONTROLLER COMPATIBILITY• See reverse side for details

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

Available Options:

Mounting Multiple options available

IP67 For protection against water and dust ingress

Rod End Multiple options available

Brake 24V Spring held / electronically released

• Military

Molding

· Motion simulators

· Parts clamping

· Pick & place

Packaging equipment

Pneumatic replacement

• Riveting / fastening / joining

· Robot manipulator arms

· Press fitting systems

- · Sawmill equipment
- · Spot Welding
- Stamping
- Tension control
- Tube bending
- Volumetric pumps
- Web guidance
- · Wire winding
- Many more

Valve / Process Control Efficient

Accurate Positioning

Tolomatic



Applications:

Black anodized extrusion desig

optimized for rigidity and strength

• Smooth design eliminates potential contaminant collection points

- Animation
- · Automated assembly
- Automotive
- Clamping
- Cycle testing
- Fillers
- Fluid dispensing
- Formers
- Hydraulic replacement
- · Material handling systems

AR0 Anti-Rotate

- 1-800-328-2174 www.tolomatic.com

encoder: Hiperface DSL, EnDat 2.2





Resolver

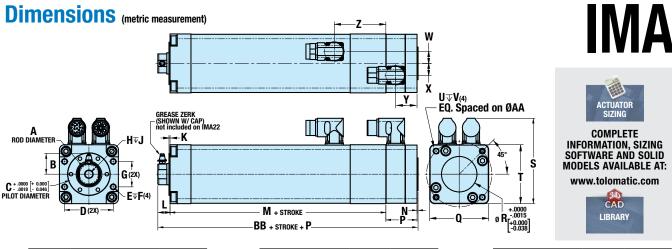
HIGH RESOLUTION FEEDBACK







IMA INTEGRATED MOTOR ACTUATOR



	IMA22	IMA33	IMA44	IMA55	
Α	25.38	30.13	38.08	57.13	
В	-	28.3	32.3	41.9	
C	48.000	60.000	72.000	100.000	
D	54.00	69.00	85.00	110.00	
E	M6 x 1.0	M8 x 1.25	M8 x 1.25	M12 x 1.75	
F	13.2	14.5	17.1	22.5	
G	20.00	36.00	55.00	65.00	
Н	M8 x 1.25	M12 x 1.25	M20 x 1.5	M27 x 2.0	
J	16.5	22.2	25.9	38.1	

	IMA22	IMA33	IMA44	IMA55
K	1.5	1.5	1.5	1.5
L	17.3	17.3	16.8	24.1
М	109.8	153.7	200.0	266.2
N	1.5	1.5	1.5	1.5
P min.	41.2	44.2	44.2	48.2
P max.	96.3	100.6	99.1	111.5
Q	63.5	83.6	110.5	143.6
R	40.000	50.000	75.000	100.000
S min.	102.0	122.2	149.0	181.9
Smax.	104.4	124.6	151.4	184.3

	IMA22	IMA33	IMA44	IMA55	
T	63.5	83.6	110.5	143.6	
U	M6 x 1.0	M8 x 1.25	M8 x 1.25	M12 x 1.75	
V	13.5	16.5	16.5	20.5	
W	9.5	16.8	22.2	22.2	
X	9.5	16.8	22.2	22.2	
Y	27.3	30.4	30.4	34.4	
Ζ	60.6	73.1	77.9	86.9	
AA	70.00	92.00	127.00	155.00	
BB	128.6	172.5	218.3	291.8	

Performance & Mechan	ical Specs:	IMA22 (1 Stack, MV21/41)	IMA22 (3 stack, MV23/43)	IMA33 (1 stack, MV21/41)	IMA33 (3 stack, MV23/43)	IMA44	IMA55
CONT. THRUST	kN	up to 0.89	up to 1.45	up to 2.0	up to 4.7	up to 9.3	up to 12.2
PEAK THRUST	kN	up to 1.45	up to 1.45	up to 6.0	up to 11.1	up to 17.8	up to 30.6
MAX. VELOCITY	mm/sec	up to 356	up to 356	up to 1219	up to 1168	up to 1334	up to 797
TEMP RANGE	°C Standard:10 to 40; Extended: -20 to 60 (Contact Tolomatic if operation in the Extended Range is required)						
IP RATING	Standard IP65, Optional IP67 (Static)						

(Motor/screw selection determines performance. Not all models deliver maximum values listed, i.e.; Maximum thrust may not be available with maximum speed)

• ROBOT & DRIVE/CONTROLLER COMPATIBILITY•

• B&R 8LS*

Baldor BSM

Beckhoff AM8*

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

- ABB Robot*
- Aerotech BM*
- Allen Bradlev MP & VP*
- Fanuc Robot*
- obot*
- AKM*
- Kuka Robot*
- Lenze MCA
- Motoman / Yaskawa Robot*
- Nachi Robot*
- Omron*
- Parker MPP*
- Schneider Electric SH*

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL

= ISO 9001 = Certified site: Hamel, MN

- SEW CMP*
- Siemens 1F*
- Stober*

*Consult Tolomatic for lead time

- Bosch Rexroth MSK Nidec FM & NT
 - Tolon EXCELLENCE IN MOTION CHINA

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201807251359

LITERATURE NUMBER: 2700-4007 04

 Kawasaki Ko
Kollmorgen