



## RODLESS BELT-DRIVE ELECTRIC ACTUATOR

With large bending moment capacity, the B3W utilizes an integral recirculating ball bearing guidance system that provides durable performance and extremely long life.

#### **OVERSIZED** PULLEY BEARINGS

Drive shaft assembly incorporates sealed ball bearings for complete support of the increased belt tension at high speeds

#### **STAINLESS STEEL SEALING BAND**

IP44 protection prevents contaminants from entering the screw and nut area for extended performance

#### **LOAD-BEARING CARRIER DESIGN**

Load and moments are transmitted directly to the actuator bearing system

#### **BELT TENSIONING SYSTEM**

- Full access to the idle pulley allows ease of adjustment for alignment and tensioning
- Dual adjustment screws and field tensioning kit provide simple maintenance

#### **YOUR MOTOR** HERE

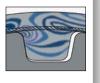
#### YOU CAN CHOOSE:

- Specify the motor to be installed and actuator ships with proper mounting hardware
- · Specify and ship your motor to Tolomatic for factory installation
- Motor or gearbox supplied and installed by Tolomatic
- Direct or reduction drive mounting

#### **MULTIPLE BELT TECHNOLOGIES**

#### YOU CAN CHOOSE:

- Polyurethane steel-cord reinforced HTD style belt (standard)
- Polvurethane Kevlar reinforced HTD style belt



#### **RECIRCULATING BALL BEARING SYSTEM**



- Unique design incorporates hardened steel raceways integral to the aluminum extrusion providing optimum preload and smooth
- Recirculating ball bearing system provides guidance, high efficiency and durability

### **Available Options:**

#### **Carrier Options**

Auxiliary Carrier; Dual 180° Carrier

#### **Mounting Options**

Surface Mount; Tube Supports; Mounting Plates

#### **Metric Option**

Provides metric tapped

#### Sensors

With integrated mounting



#### **Applications:**

- Adhesive dispensing
- Aligning
- Animation
- Assembly
- Automotive
- Camera positioning
- Conveyors
- Cutting
- Diverters
- Inspection
- Laser marking
- Material cutting
- Milling
- Packaging equipment
- Parts transfer
- Pick & place
- Positioning
- Product handling
- Slitting
- Sorting

- Spraying
- Stacking
- Table positioning
- Test stations
- · Wire winding
- X-Y Gantry/ Multi-Axis



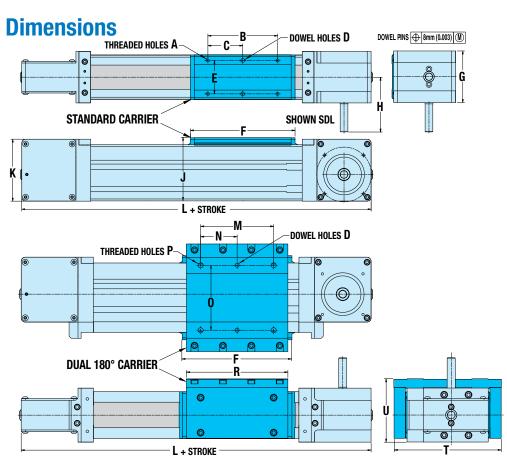
## **RODLESS BELT-DRIVE ELECTRIC ACTUATOR**

#### **SPECIFICATIONS**

# B3W

甾	SIZE	MAXIMUM BENDING MOMENTS						MAX. LOAD			MAX.		
CARRIER		Mx		My		Mz		Fy		Fz		THRUST	
		N-m	in-lbs	N-m	in-lbs	N-m	in-lbs	N	lb	N	lb	N	lbf
Standard	10	28.2	250	30.4	269	17.6	156	1517	341	2629	591	667	150
	15	97	859	117	1033	67	596	3737	840	6468	1454	1112	250
	20	188	1662	166	1472	96	850	5155	1159	8932	2008	1440	325
Dual 180°	10	74	657	35.3	312	61	538	5258	1182	3034	682	667	150
	15	279	2468	135	1192	233	2066	12935	2908	7473	1680	1112	250
	20	512	4527	192	1700	333	2944	17864	4016	10311	2318	1440	325

NOTE: Auxiliary Carrier option increases maximum bending moments and load, see B3 brochure 3600-4176 for complete details.



	10	15	20					
Α	M6-1.0 9.4 DP	M6-1.0 10.2 DP	M8-1.25 14.2 DP					
В	57.15	114.3	120.65					
C	28.58	57.15	60.33					
D	6.045/ 6.020 6.4 DP	6.045/ 6.020 6.4 DP	6.045/ 6.020 6.4 DP					
Ε	45.24	54.76	79.30					
F	103.6	171.5	184.1					
G	57.2	73.0	107.9					
Н	76.1	89.7	98.3					
J	82.0	104.3	117.9					
K	79.4	101.6	114.3					
L	316.2	420.2	431.6					
M	77.77	114.30	152.40					
N	38.89	57.15	76.20					
0	82.55	101.60	136.53					
P	M6-1.0 6.4 DP	M8-1.25 15.0 DP	M10-1.5 16.8 DP					
R	93.3	158.8	171.5					
T	131.1	168.3	192.8					
U	72.6	99.0	119.5					
	Dimonoiono in millimotoro							

Dimensions in millimeters
For reference only. Use CAD files for any critical dimensions

## Toomatic EXCELLENCE IN MOTION

COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV GL
= 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

#### **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

#### **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 TolomaticChina@tolomatic.com

All brand and product names are trademarks or registered trademarks of their respective owners. Information in this document is believed accurate at time of printing. However, Tolomatic assumes no responsibility for its use or for any errors

that may appear in this document. Tolomatic reserves the right to change the design or operation of the equipment described herein and any associated motion products without notice. Information in this document is subject to change without notice.

Visit www.tolomatic.com for the most up-to-date technical information

LITERATURE NUMBER: 3600-4206\_01