

RODLESS BELT-DRIVE ELECTRIC ACTUATOR B3W

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

RECIRCULATING BALL BEARING SYSTEM



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

YOUR MOTOR HERE

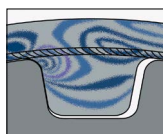
YOU CAN CHOOSE:

- 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)
- Polyurethane Kevlar reinforced HTD style belt



Available Options:

Carrier Options

Auxiliary Carrier; Dual 180° Carrier

Mounting Options

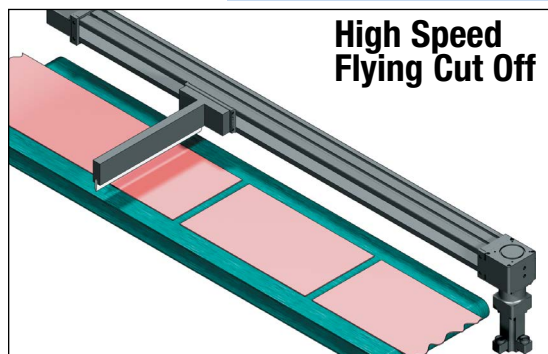
Surface Mount; Tube Supports; Mounting Plates

Metric Option

Provides metric tapped holes

Sensors

With integrated mounting bracket



High Speed Flying Cut Off

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

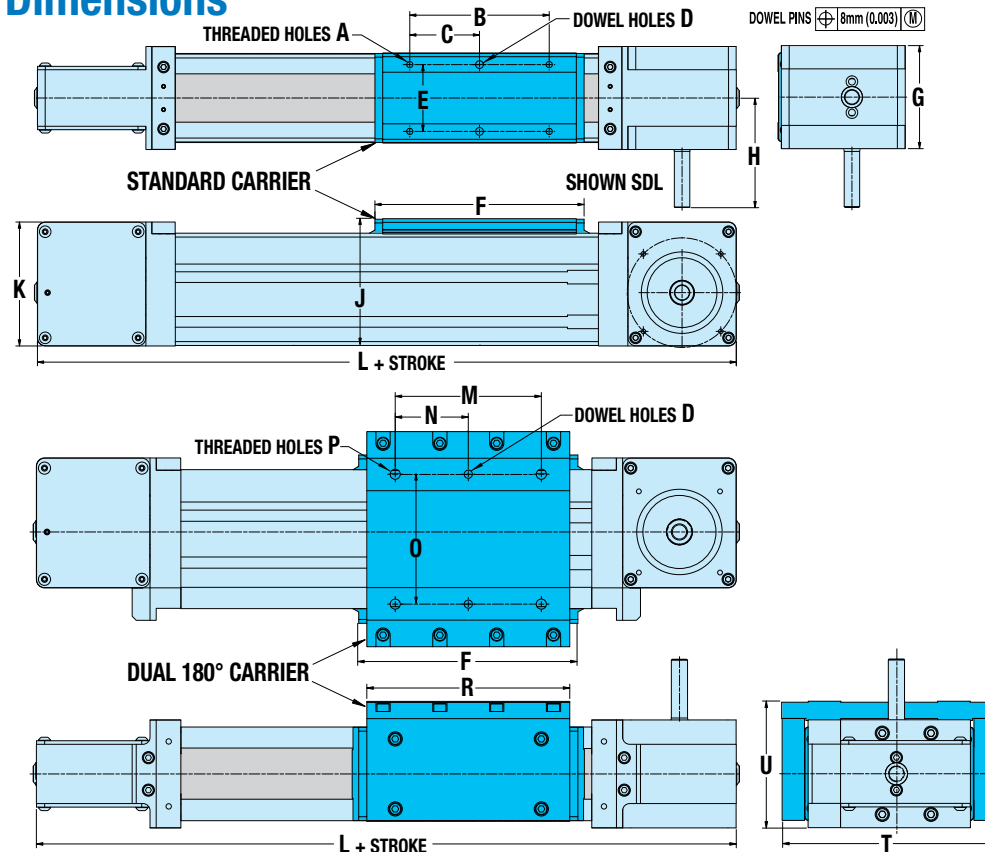
B3W

CARRIER	SIZE	MAXIMUM BENDING MOMENTS						MAX. LOAD				MAX. THRUST		MAX. STROKE*	
		MX		MY		MZ		FY		FZ					
		N-M	IN-LBS	N-M	IN-LBS	N-M	IN-LBS	N	LB	N	LB	N	LBF	MM	IN
Standard	10	28.2	250	30.4	269	17.6	156	1517	341	2629	591	667	150	5258	207
	15	97	859	117	1033	67	596	3737	840	6468	1454	1112	250	5182	204
	20	188	1662	166	1472	96	850	5155	1159	8932	2008	1440	325	3962	156
Dual 180°	10	74	657	35.3	312	61	538	5258	1182	3034	682	667	150	5258	207
	15	279	2468	135	1192	233	2066	12935	2908	7473	1680	1112	250	5182	204
	20	512	4527	192	1700	333	2944	17864	4016	10311	2318	1440	325	3962	156

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

*Max. extended length stroke, may require longer lead time, contact Tolomatic.

Dimensions



	10	15	20
A	M6-1.0 9.4 DP	M6-1.0 10.2 DP	M8-1.25 14.2 DP
B	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
E	45.24	54.76	79.30
F	103.6	171.5	184.1
G	57.2	73.0	107.9
H	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
O	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

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



MADE IN U.S.A.

TolomaticTM
EXCELLENCE IN MOTION

COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV
= ISO 9001 =
Certified site: Hamel, MN

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