

Axi dyne® B3B/M3B10 Series

BELT LOAD AND SPEED

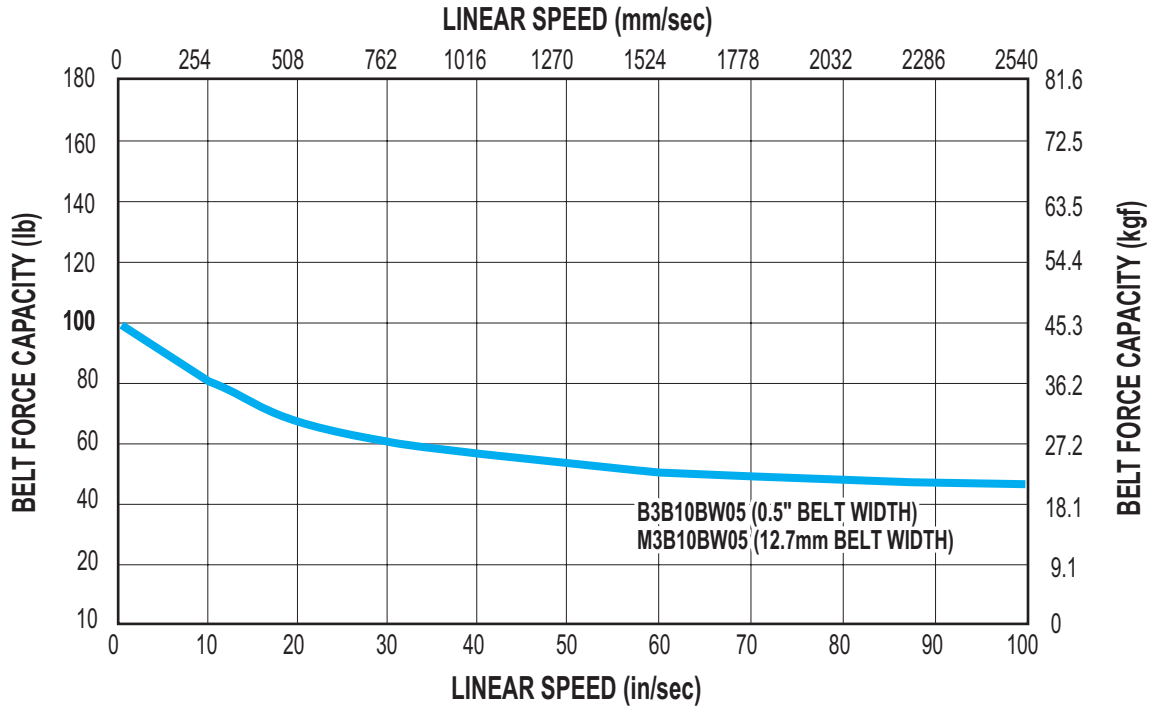
B3B/M3B10 BELT LOAD



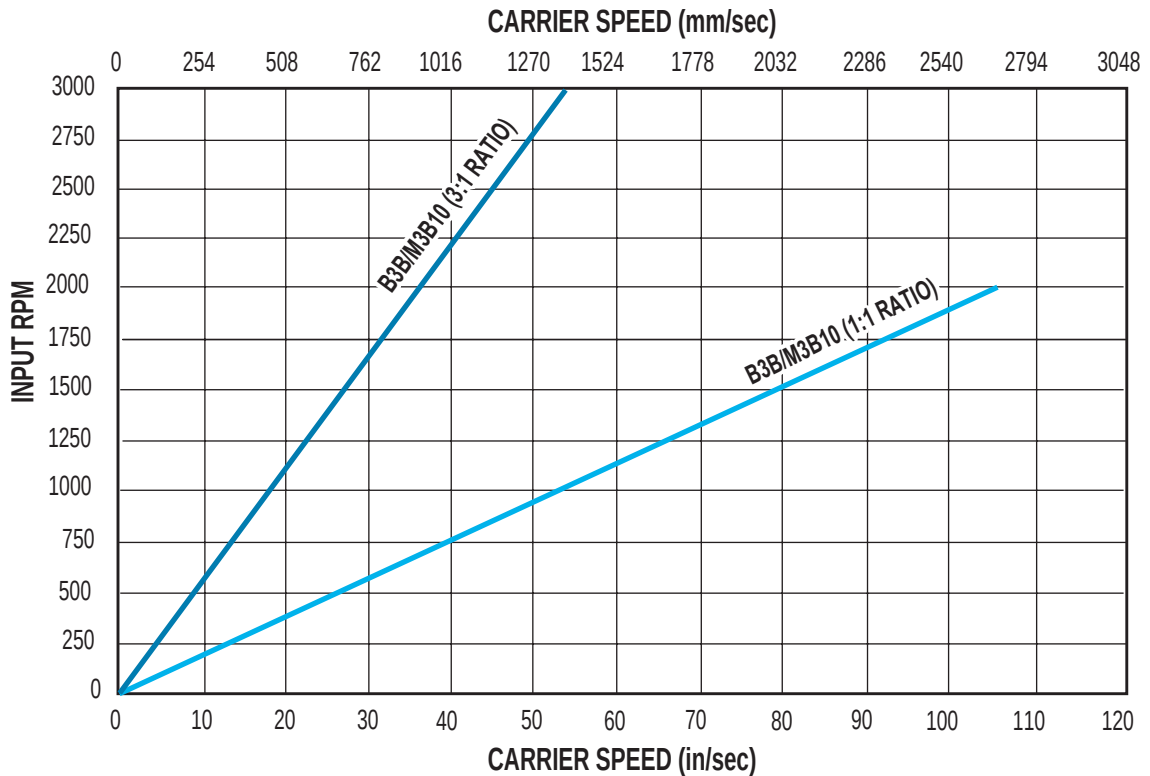
RODLESS

B3B/M3B10 Series

- Belt load
- Belt speed



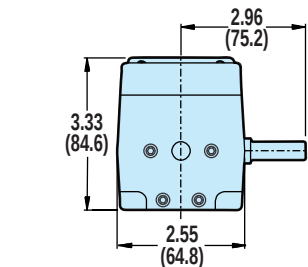
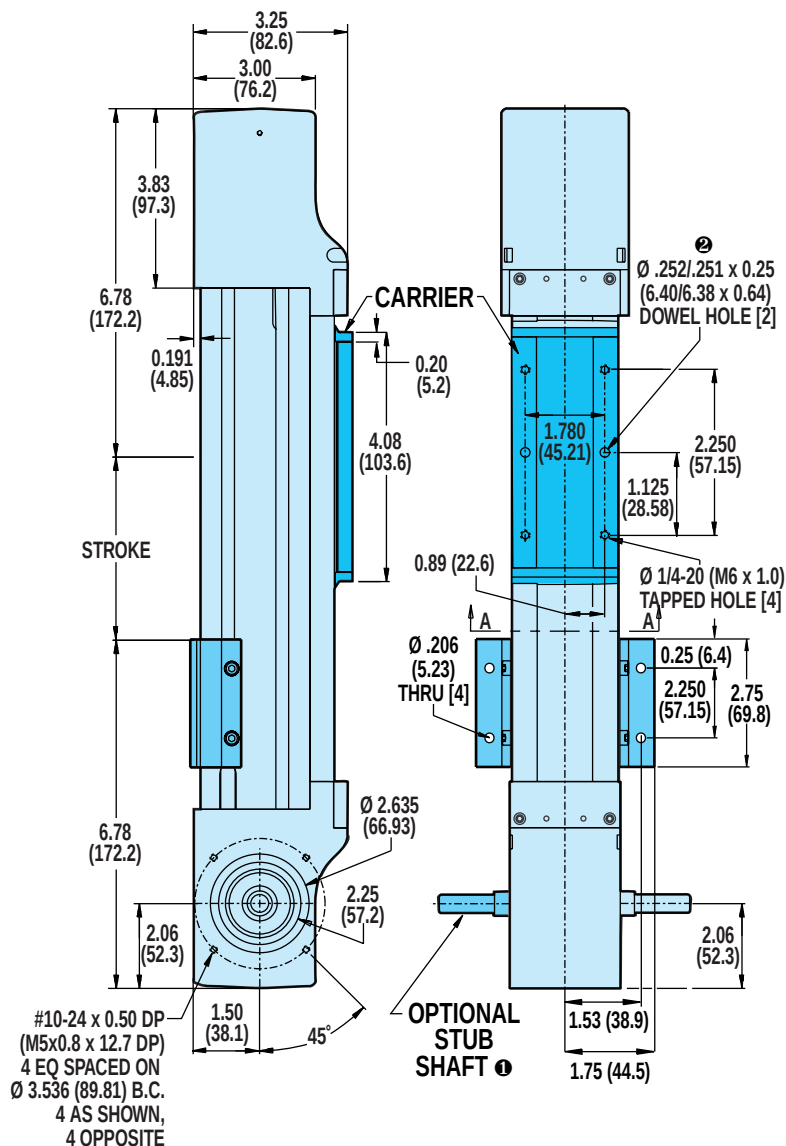
B3B/M3B10 BELT SPEED



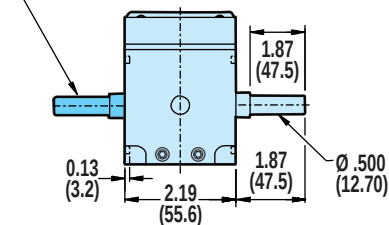
Axi-dyne® B3B/M3B10 Series

DIMENSIONS

B3B/M3B10 ACTUATOR AND OPTIONS



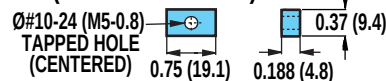
OPTIONAL STUB SHAFT ①



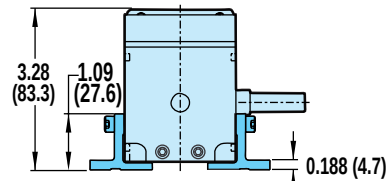
NUTS FOR SIDE SLOTS (Clear Zinc Finish)



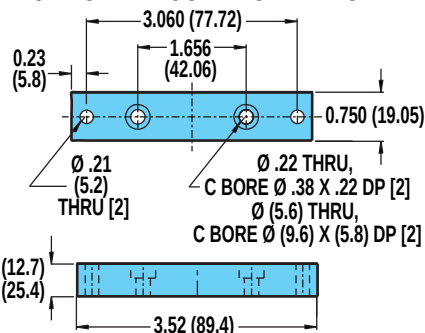
NUTS FOR BOTTOM SLOTS (Yellow Zinc Finish)



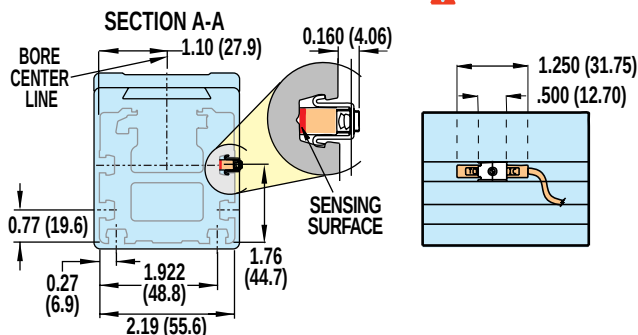
OPTIONAL TUBE SUPPORTS



OPTIONAL MOUNTING PLATES



OPTIONAL SWITCH MOUNTING ③ ④ ⑤



① ONE STUB SHAFT IS STANDARD ON ALL B3B ACTUATORS

② DOWEL PINS $\oplus$.003 (08mm) M

③ **CAUTION: DO NOT OVERTIGHTEN SWITCH HARDWARE WHEN INSTALLING**

④ NOTE: The scored face of the switch indicates the sensing surface and must face toward the magnet

⑤ NOTE: Some actuators require switch mounting on a specific side of the actuator. Call Tol-O-Matic 1-800-328-2174 for details

⑥ WHEN USED WITH 23-FRAME MOTORS

⑦ WHEN USED WITH 34-FRAME MOTORS

Unless otherwise noted, all dimensions shown are in inches (Dimensions in parenthesis are in millimeters)

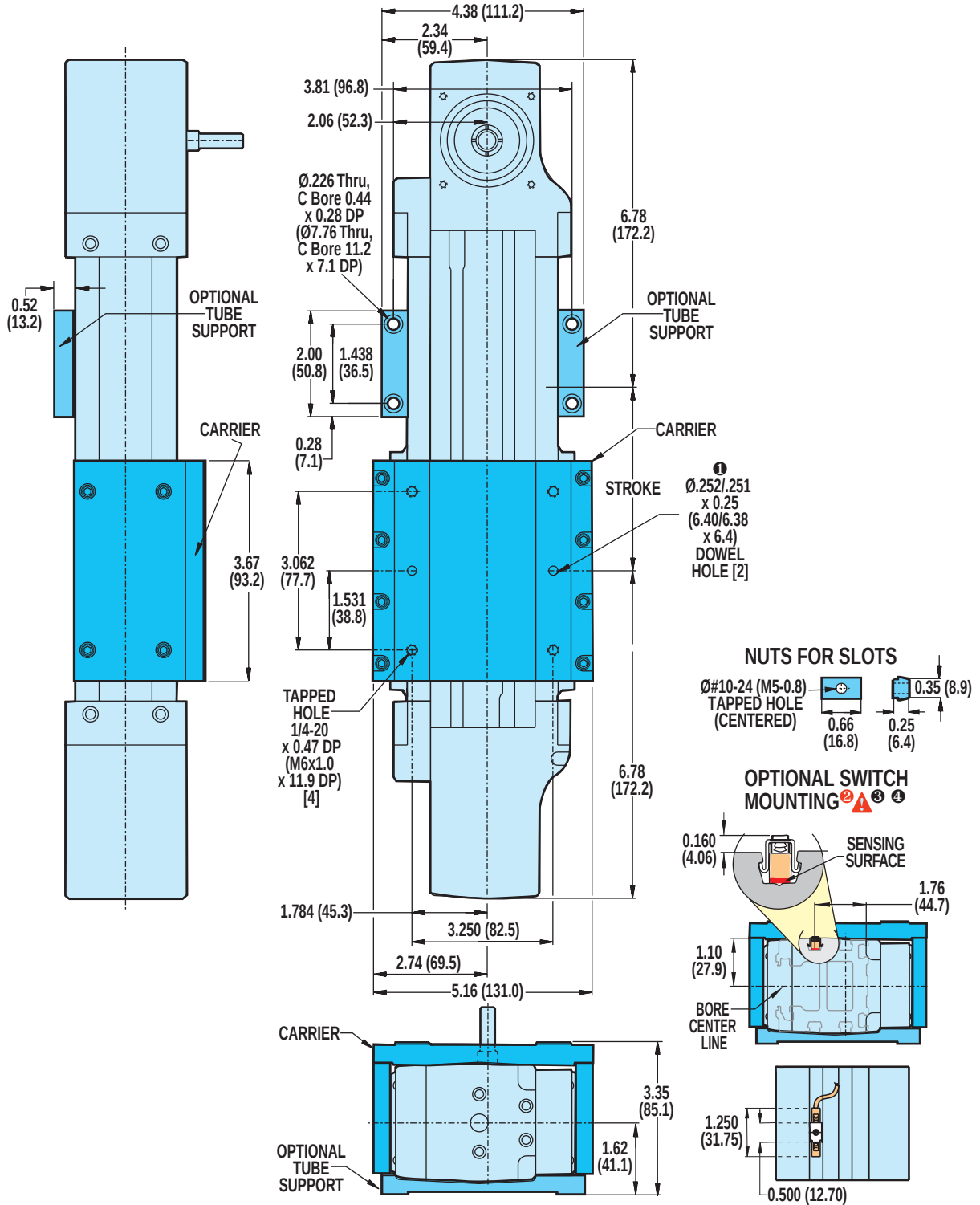
DIMENSIONS

B3BD/M3BD10 DUAL 180° OPTION



B3B/M3B10 Series

- Dual 180° carrier dimensions



- 1 DOWEL PINS** .003 (08mm)

- 2**  **CAUTION: DO NOT OVERTIGHTEN SWITCH HARDWARE WHEN INSTALLING**

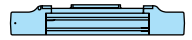
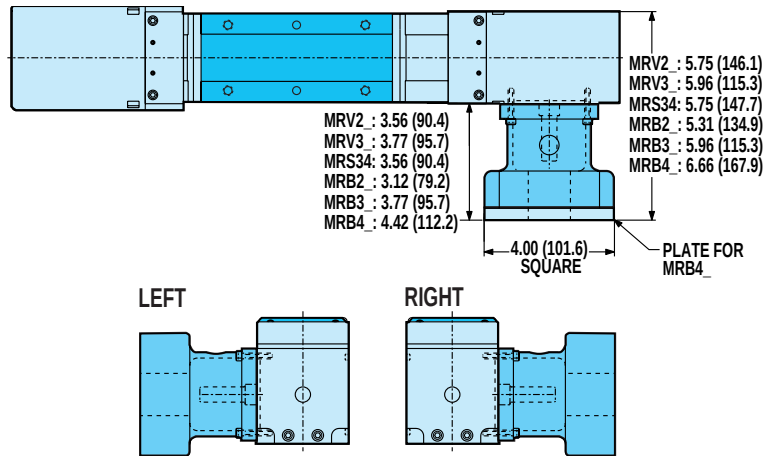
- ③ NOTE:** The scored face of the switch indicates the sensing surface and must face toward the magnet

- ④ NOTE:** Some actuators require switch mounting on a specific side of the actuator. Call Tol-O-Matic 1-800-328-2174 for details

Axi dyne® B3B/M3B10 Series

DIMENSIONS

B3B(D)/M3B(D)10 DIRECT DRIVE MOTOR MOUNTING

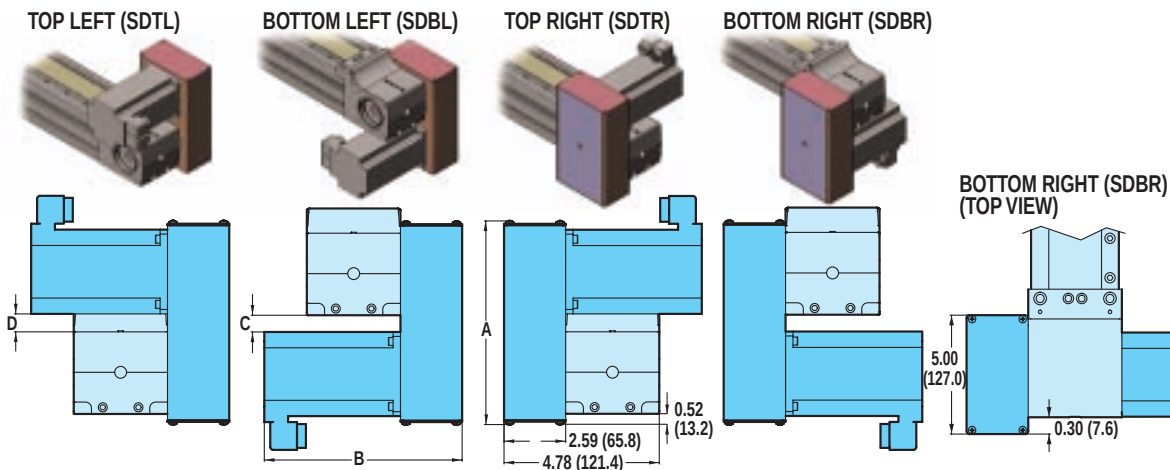


RODLESS

B3B/M3B10 Series

- Direct drive motor mounting
- Reduction drive motor mounting

B3B(D)/M3B(D)10 REDUCTION DRIVE MOTOR MOUNTING



DIMENSIONS

	MOTOR	A		B		C		D	
		in.	mm	in.	mm	in.	mm	in.	mm
BRUSHLESS	MRV21	7.98	202.6	7.34	186.4	1.60	40.6	1.60	40.6
	MRV22	7.98	202.6	8.34	211.8	1.60	40.6	1.60	40.6
	MRV23	7.98	202.6	9.34	237.2	1.60	40.6	1.60	40.6
	MRV24	7.98	202.6	10.34	262.6	1.60	40.6	1.60	40.6
	MRV31	8.49	215.6	8.70	221.0	0.95	24.1	0.95	24.1
	MRV32	8.49	215.6	9.95	252.7	0.95	24.1	0.95	24.1
STEPPER	MRV33	8.49	215.6	11.20	284.5	0.95	24.1	0.95	24.1
	MRS231	7.98	202.6	4.65	118.1	1.60	40.6	3.25	82.6
	MRS232	7.98	202.6	5.69	144.5	1.60	40.6	3.25	82.6
	MRS341	8.49	215.6	5.17	131.3	1.04	26.4	1.04	26.4
	MRS342	8.49	215.6	6.35	161.3	1.04	26.4	1.04	26.4
BRUSHED	MRS343	8.49	215.6	7.65	194.3	1.04	26.4	1.04	26.4
	MRB21	7.98	202.6	8.92	226.6	1.60	40.6	1.60	40.6
	MRB31	8.49	215.6	7.66	194.6	1.09	27.7	1.09	27.7
	MRB32	8.49	215.6	10.31	261.9	1.09	27.7	1.09	27.7
	MRB41	8.85	224.8	13.22	335.8	0.72	18.3	0.72	18.3
	MRB42	8.85	224.8	14.22	361.2	0.72	18.3	0.72	18.3

SPECIFICATIONS

	MOTOR	WEIGHT OF REDUCTION DRIVE		REDUCTION INERTIA AT MOTOR SHAFT	
		lb	kg	lb-in ²	kg-m ² x 10 ⁻⁴
BRUSHLESS	MRV21, 22, 23, 24	3.40	1.54	0.229	66.98
	MRV31, 32, 33	3.92	1.78	0.229	66.98
STEPPER	MRS231, 232	3.33	1.51	0.144	42.12
	MRS341, 342, 343	3.84	1.76	0.199	58.21
BRUSHED	MRB21	3.33	1.51	0.208	60.84
	MRB31, 32	3.92	1.78	0.229	66.98
	MRB41, 42	4.62	2.10	0.226	66.11

3:1 REDUCTION EFFICIENCY: 0.95