

EDXtreme Dynamometer Specifications

DILLON

Capacity & Resolution

Model*	Capacity x Resolution (normal/enhanced)			Overload†	Construction
EDx-1T (EDx-2.5K)	2,500 lbf x 2/0.5	1,000 kgf x 1/0.2	10,000 N x 10/2	700%	Aircraft-quality 2024 aluminum
EDx-2T (EDx-5K)	5,000 lbf x 5/1	2,000 kgf x 2/0.5	20,000 N x 20/5		
EDx-5T (EDx-10K)	10,000 lbf x 10/2	5,000 kgf x 5/1	50,000 N x 50/10		
EDx-10T (EDx-25K)	25,000 lbf x 20/5	10,000 kgf x 10/2	100,000 N x 100/20	500%	Aircraft-quality E4340 alloy steel
EDx-25T (EDx-55K)	55,000 lbf x 50/10	25,000 kgf x 20/5	250,000 N x 200/50		
EDx-50T (EDx-100K)	100,000 lbf x 100/20	50,000 kgf x 50/10	500,000 N x 500/100		
EDx-75T (EDx-160K)	160,000 lbf x 100/50	75,000 kgf x 50/20	—	400%	Aircraft-quality E4340 alloy steel
EDx-100T (EDx-220K)	220,000 lbf x 200/50	100,000 kgf x 100/20	—		
EDx-150T (EDx-330K)	330,000 lbf x 200/100	150,000 kgf x 100/50	—		
EDx-250T (EDx-550K)	550,000 lbf x 500/200	250,000 kgf x 200/50	—		

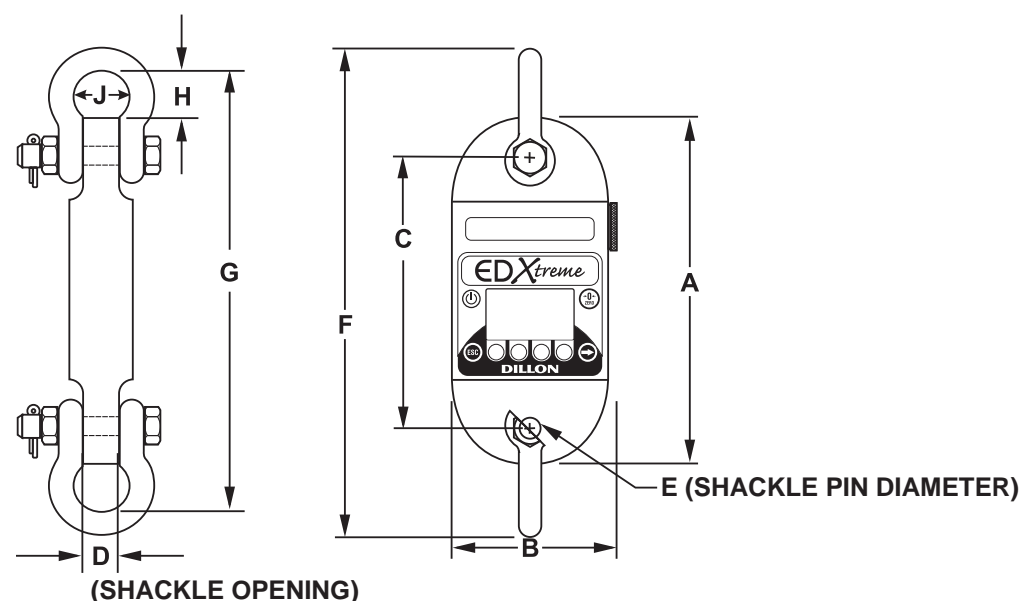
* Model number in parenthesis shows U.S. convention for describing capacities. † Ultimate overload protection rating.

Dimensions inches (mm)

Model	A	B	C	D	E	F	G	H	J	Shackle
EDx-1T	10.6 (269)	5.0 (127)	7.8 (198)	1.06 (26)	0.75 (19)	15.3 (389)	13.4 (340)	1.36 (34)	1.69 (43)	Dillon
EDx-2T	10.6 (269)	5.0 (127)	7.8 (198)	1.06 (26)	0.75 (19)	15.3 (389)	13.4 (340)	1.36 (34)	1.69 (43)	Dillon
EDx-5T	11.4 (289)	5.3 (135)	8.1 (206)	1.46 (37)	1.00 (25)	17.5 (444)	15.7 (400)	2.17 (55)	2.28 (58)	Green Pin*
EDx-10T	11.5 (291)	5.3 (133)	7.9 (201)	2.01 (51)	1.38 (35)	21.0 (534)	18.5 (470)	3.50 (89)	3.25 (83)	Green Pin*
EDx-25T	13.7 (348)	6.0 (152)	9.0 (229)	2.91 (74)	1.97 (50)	28.7 (730)	25.2 (640)	5.70 (146)	4.96 (126)	Green Pin*
EDx-50T	15.8 (400)	6.8 (172)	10.3 (262)	4.13 (105)	2.75 (70)	38.8 (986)	33.7 (856)	8.98 (228)	7.09 (180)	Green Pin*
EDx-75T	16.5 (419)	7.8 (197)	10.3 (262)	4.13 (105)	2.75 (70)	39.3 (998)	33.7 (856)	8.58 (218)	7.09 (180)	Green Pin*
EDx-100T	18.0 (457)	7.8 (197)	11.0 (280)	5.00 (127)	3.25 (83)	46.9 (1191)	40.4 (1025)	11.14 (283)	7.48 (190)	Green Pin*
EDx-150T	21.0 (533)	8.8 (222)	12.6 (321)	5.25 (133)	3.75 (95)	53.9 (1368)	45.6 (1159)	12.3 (313)	9.0 (229)	Crosby
EDx-250T	27.0 (686)	9.8 (248)	17.5 (445)	8.5 (216)	5.00 (127)	75.8 (1925)	62.8 (1595)	17.9 (454)	13.0 (330)	Crosby

* Dimensions using Green Pin shackles. Crosby shackles available. Consult factory for dimensions.

Dimensions shown are nominal and subject to tolerances.



Dynamometer Specifications

Enclosure: Designed to NEMA4X/IP55. Suitable for continuous outdoor use.

Accuracy: 0.1% of capacity up to EDx-50T.*
0.3% of capacity for EDx-75T and above.*

Repeatability: 0.1% of capacity up to EDx-50T.*
0.3% of capacity for EDx-75T and above.*

* Normal resolution mode with Dillon provided shackles.

Proof Load: 150% of capacity up to EDx-75T.
110% of capacity up to EDx-100T and above.

Ultimate Overload: See table on reverse.

Safe Overload: 200% of capacity

Body Protection: Aluminum and alloy steel capacities are powder coated.

Bearings: Unmatched repeatability attained by needle bearings in shackle pin holes up to EDx-5T. Shackle pin acts as inner race.

Shackles: Forged industry standard anchor shackles. Models up to EDx-5T use precision machined shackle pin. Higher capacities use bar stock pin.

Display: 128 x 64 dot-graphic LCD display shows up to 6 digits 1.0" (26 mm) high plus annunciators and softkeys. Digits are .11 inches (3 mm) thick for unmatched readability.

Display Update Rate: 2 times per second.

Peak Capture Rate: 10/100/1,000 Hz

Connector: Recessed sealed connector may be used for serial communications or connection to a Communicator II remote.

RS-232 Communication: Print or extract data easily. Continuous output can drive a scoreboard. Configurable poll character.

Calibration: Traceable to the National Institute of Standards and Technology. Certificate included with curve of readings. Passes only with three consecutive confirming runs, with all points in specification.

Battery Life: Stand alone EDxtreme with no radio and no backlight lasts up to 400+ hours. 150 hours continuous with Radio Link System. Use with two C-Cell alkaline batteries. (When using backlight, battery life will be reduced, depending on intensity.)

Operating Temperature: -4° F to 158° F (-20° to 70° C)

Included with Instrument: All include certificate of calibration, manual and batteries. Plastic carry case included for EDx-1T to EDx-50T. Higher capacities include rugged plywood storage crate. Instruments with shackles include centering spacers (EDx-20T & up) and shackle storage crate (EDx-20T to EDx-75T). Display backlight.

Options: Shackles. Radio communications.

Approval: CE

Communicator II Specifications

Enclosure: Designed to NEMA 3 / IP54 with optional sleeve. Suitable for protected outdoor use.

Instrument Size: 9.5 x 5.0 x 2.5 inch (241 x 127 x 64 mm).

Accuracy: Not applicable. Only sends and receives digital information.

Display: 128 x 64 dot-graphic LCD display can show full readings up to 5 instruments.

Battery Life: Up to 80 hours continuous radio using (4) AA alkaline batteries.

Operating Temperature: -4° F to 158° F (-20° to 70° C)

Connectors: Sealed connectors may be used for serial communications and wired connection to an EDxtreme dynamometer.

RS-232 Communication: Print or extract data easily. Continuous output can drive a scoreboard. Configurable poll character.

Included with Remote: Carry case and batteries

Accessories: Rubberized case protector sleeve.

Remote wall mount bracket. Serial and remote cable assemblies.

Approval: CE

Radio Specifications

FCC Certified: For unlicensed low power devices. No radio licensing or permits required for normal operation.* (In the US and Canada. Check local ordinances in other countries.)

Frequency: ISM 2.4 GHz frequency band operates between 2.4 to 2.4835 GHz.

Output Level: 10 mW (10 dBm)

Display Update Rate: 1 time per second.

Number of Links Remote Can Control: Up to 15 addresses.

Configuration Address: Automatic and configurable.

Antenna: Integral antenna.

Range: Open-air range up to 600 feet, line-of-sight. Indoor range dependent upon environment with 300 feet common. Low power radio systems are dependent upon interference levels from other radio systems and environmental conditions. Radio devices are not suitable for all applications.

Weights pounds (kg)

Model	Unit Weight	Weight with Shackles	Unit Ship Weight	Unit/Shackle Ship Dimension
Communicator	1.25 (.6)	—	5 (2)	13 x 9 x 19 in (330 x 229 x 483 mm)
EDx-1T	4.3 (2.0)	8.6 (3.9)	18 (8)	16 x 7 x 19 inch (406 x 178 x 483 mm)
EDx-2T	4.4 (2.0)	8.7 (3.9)	18 (8)	16 x 7 x 19 inch (406 x 178 x 483 mm)
EDx-5T	5.6 (2.5)	14 (6)	23 (10)	16 x 7 x 19 inc (406 x 178 x 483 mm)
EDx-10T	16 (7.3)	38 (17)	53 (24)	21 x 11 x 23 (553 x 279 x 584)
Model	Unit Weight	Shackle Weight	Unit Ship Weight/Dimension	Shackle Ship Weight/Dimension
EDx-25T	25 (11)	91 (41)	37 (17)	85 (39)
			16 x 7 x 19 in (406 x 178 x 483 mm)	15 x 8 x 26 in (381 x 203 x 660 mm)
EDx-50T	38 (17)	216 (98)	52 (24)	250 (113)
			16 x 7 x 19 in (406 x 178 x 483 mm)	17 x 9 x 23in (432 x 229 x 483 mm)
EDx-75T	54 (25)	229 (104)	82 (37)	250 (113)
			12 x 10 x 32 in (305 x 254 x 813 mm)	17 x 9 x 23 in (432 x 229 x 483 mm)
EDx-100T*	70 (32)	395 (179)		480 (218)
EDx-150T*	120 (54)	650 (295)		750 (340)
EDx-250T*	250 (113)	1,490 (675)		1600 (726)

*Ships on pallet

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