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			
EDx-2T (EDx-5K)	5,000 lbf x 5/1	2,000 kgf x 2/0.5	20,000 N x 20/5	700%	Aircraft-quality 2024 aluminum	
EDx-5T (EDx-10K)	10,000 lbf x 10/2	5,000 kgf x 5/1	50,000 N x 50/10		2024 didillillidill	
EDx-10T (EDx-25K)	25,000 lbf x 20/5	10,000 kgf x 10/2	100,000 N x 100/20		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	500%		
EDx-50T (EDx-100K)	100,000 lbf x 100/20	50,000 kgf x 50/10	500,000 N x 500/100		L4540 diloy steel	
EDx-75T (EDx-160K)	160,000 lbf x 100/50	75,000 kgf x 50/20	_			
EDx-100T (EDx-220K)	220,000 lbf x 200/50	100,000 kgf x 100/20	_	4000/	Aircraft-quality	
EDx-150T (EDx-330K)	- 150T (EDx-330K) 330,000 lbf x 200/100		_	400%	E4340 alloy steel	
EDx-250T (EDx-550K)	550,000 lbf x 500/200	250,000 kgf x 200/50	_			

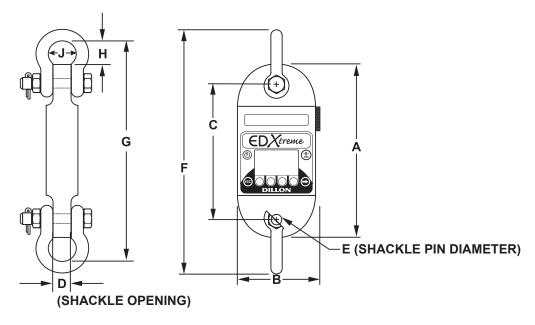
^{*} Model number in parenthesis shows U.S. convention for describing capacities. † Ultimate overload protection rating.

Dimensions inches (mm)

Model	Α	В	С	D	E	F	G	Н	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 on Load Link. 110% of capacity EDX-100T and above on Load Link. *Will proof load shackles upon request.*

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 EDX5T 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.

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 on all capacities excluding 550K.

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.

Optional audible alarm: Alarm sounds (105dB) when pre-defined load limit has been exceeded.

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 up to 300 feet common dependent on environment. Subject to CE marking. 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

Model Unit Weight Ib (kg) Weight Shackles Ib (kg) Unit Ship Weight Ib (kg) Unit Ship Dimension in (mm) EDx-1T 1.25 (0.6) — 5 (2) 13 x 9 x 19 (330 x 229 x 483) EDx-1T 4.3 (2.0) 8.6 (3.9) 18 (8) 16 x 7 x 19 (406 x 178 x 483) EDx-2T 4.4 (2.0) 8.7 (3.9) 18 (8) 16 x 7 x 19 (406 x 178 x 483) EDx-5T 5.6 (2.5) 14 (6) 23 (10) 16 x 7 x 19 (406 x 178 x 483) EDx-10T 16 (7.3) 38 (17) 53 (24) 21 x 11 x 23 (553 x 279 x 584) Model Unit Weight Ib (kg) Weight Weight/Dimension Ib (kg) / in (mm) Shackle Ship Weight/Dimension Ib (kg) / in (mm) EDx-25T 25 (11) 91 (41) 37 (17) 85 (39) EDx-50T 38 (17) 216 (98) 52 (24) 250 (113) 16 x 7 x 19 (406 x 178 x 483) 16 x 7 x 19 (406 x 178 x 483) (432 x 229 x 483) EDx-75T 54 (25) 229 (104) 82 (37) 250 (113) 12 x 10 x 32 (305 x 254 x 813) 17 x 9 x 23 (432 x 229 x 483) EDx-100T* 70 (32) 395 (179) 48					
EDx-1T	Model	Weight	with Shackles	Ship Weight	Ship Dimension
EDx-2T	Communicator	1.25 (0.6)	_	5 (2)	
EDx-5T 5.6 (2.5) 14 (6) 23 (10) 16 x 7 x 19 (406 x 178 x 483) EDx-10T 16 (7.3) 38 (17) 53 (24) 21 x 11 x 23 (553 x 279 x 584) Model	EDx-1T	4.3 (2.0)	8.6 (3.9)	18 (8)	
EDx-10T	EDx-2T	4.4 (2.0)	8.7 (3.9)	18 (8)	
$ \begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	EDx-5T	5.6 (2.5)	14 (6)	23 (10)	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	EDx-10T	16 (7.3)	38 (17)	53 (24)	
	Model	Weight	Weight	Weight/Dimension	Weight/Dimension
	EDx-25T	25 (11)	91 (41)	37 (17)	85 (39)
EDx-75T 54 (25) 229 (104) 82 (37) 250 (113) 12 x 10 x 32 (305 x 254 x 813) 17 x 9 x 23 (432 x 229 x 483) EDx-100T* 70 (32) 395 (179) 480 (218)	EDx-50T	38 (17)	216 (98)	52 (24)	250 (113)
12 x 10 x 32 17 x 9 x 23 (305 x 254 x 813) (432 x 229 x 483) EDx-100T* 70 (32) 395 (179) 480 (218)					
EDx-100T* 70 (32) 395 (179) 480 (218)	EDx-75T	54 (25)	229 (104)	82 (37)	250 (113)
ED: 150T* 120 (54) 650 (205) 750 (240)					
		70 (32)	395 (179)	(305 x 254 x 813)	(432 x 229 x 483)
EDx-250T* 250 (113) 1490 (675) 1600 (726)		70 (32) 120 (54)	395 (179) 650 (295)	(305 x 254 x 813) 480 ((432 x 229 x 483) 218)

^{*}Ships on palle

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DILLON USA

1000 Armstrong Drive Fairmont, MN 56031

Toll-Free: (800) 368-2031 **Phone:** (507) 238-8796 **Fax:** (507) 238-8258

 $\underline{www.dillonforce.com}$

DILLON UK

Foundry Lane, Smethwick, West Midlands B66 2LP

Phone: +44 (0) 845 246 6717 Fax: +44 (0) 845 246 6718 Email: sales@dillon-force.co.uk

www.dillon-force.co.uk

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