ED Series Crane Scales Specifications

EDxtreme & EDjunior Crane Scales

EDxtreme – Capacity x Resolution

Unit Capacity Ib.	(kg) Capa	Capacity x Resolution (normal/enhanced)				
2,500 (1000)	2500 lb x 2/0.5	1000 kg x 1/0.2	10000 N x 10/2	700 %		
5,000 (2000)	5000 lb x 5/1	2000 kg x 2/0.5	20000 N x 20/5	700 %		
10,000 (5000)	10000 lb x 10/2	5000 kg x 5/1	50000 N x 50/10	700 %		
25,000 (10000)	25000 lb x 20/5	10000 kg x 10/2	100000 N x 100/20	500 %		
50,000 (20000)	50000 lb x 50/10	20000 kg x 20/5	200000 N x 200/50	500 %		

EDxtreme Crane Scale Specifications

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

Accuracy: 0.1% of capacity.*

Repeatability: 0.1% of capacity.* * Normal resolution mode.

Ultimate overload: See table above

Safe overload: 200% of capacity

- **Body protection:** Aluminum capacities are anodized. Alloy steel capacities are electroless-nickel plated.
- Bearings: Unmatched repeatability attained by needle bearings in shackle pin holes up to EDx-10K. Precision machined shackles act as inner race.
- Shackles: Forged industry standard anchor shackle bows, galvanized finish. Models up to EDx-10K use precision machined shackle pin. Higher capacities use forged 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 (7mm) thick for unmatched readability.
- Display update rate: 2 times per second.
- **Connector:** Recessed sealed connector may be used for direct serial communications or connection to a Communicator remote.
- RS-232 / RS-485 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:** 320 hours typical use with two C-cell alkaline batteries. 40 hours typical with Radio Link system.
- **Operating temperature:** -4° F to 140° F (-20° to 60° C)
- Included with instrument: Shipping/storage crate(s), batteries, manual and certificate of calibration.
- Options: 2.4 GHz radio board. Display backlight.

Communicator Specifications

Enclosure: Designed to NEMA 3 / IP44 with optional sleeve. Suitable for protected outdoor use.

Instrument size: 9.0 x 4.6 x 1.8 inch (228 x 117 x 45mm).

- 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:** 40 hours radio or 45 wireline using four AA alkaline batteries under typical use.
- **Operating temperature:** -4° F to 140° F (-20° to 60° C)
- **Connectors:** Sealed connectors may be used for serial communications and wired connection to an EDxtreme crane scale.
- **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.

Update rate from scale: 2 times per second.

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: 2.4 GHz spread-spectrum operates between 2.402 – 2.478 GHz. Continuously and automatically changes frequencies many times per second for consistent, reliable communications.

Output level: 10 mW (20 dBm)

- Display update rate: 2 times per second with single dynamometer. Multiinstrument networks result in reduced updates.
- Number of networks: 63 remotes can operate independently in the same airspace with unique channels.
- Number of links remote can control: Up to 15 addresses are available per network channel.
- Configuration: Address and Network channels are front-panel configurable.

Antenna: Integral antenna.

Range: Open-air – Up to 300 feet, line-of-sight. Indoors – Dependent upon installation site with 150 feet common.

Approval: FCC ID: KQL-PKLR2400. CAN ID: CAN2268391158A



Overload Protection and Overhead Weighing Equipment

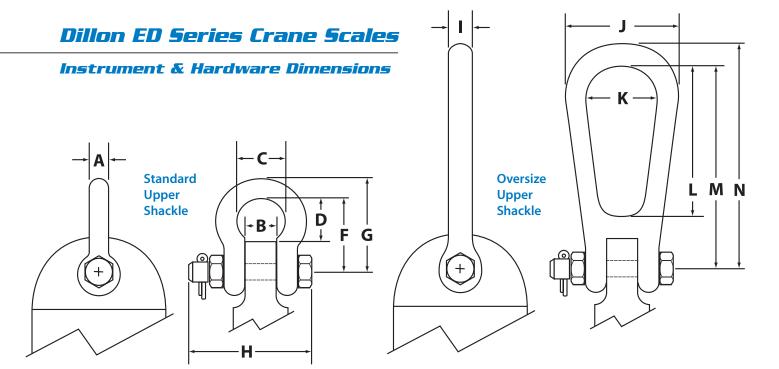
Body Construction 2024 Aircraft Aluminum

2024 Aircraft Aluminum

2024 Aircraft Aluminum

E4340 Aircraft Alloy Steel

E4340 Aircraft Alloy Steel 1. Ultimate overload protection



EDxtreme Standard Upper Shackle

Unit Capacity Ib. (kg)	A in. (mm)	B in. (mm)	C in. (mm)	D in. (mm)	F in. (mm)	G in. (mm)	H in. (mm)	Weight Ib. (kg)
2,500 (1000)	0.76 (19)	1.06 (26)	1.69 (42)	1.35 (34)	2.76 (70)	3.77 (96)	1.06 (26)	2.2 (1.0)
5,000 (2000)	0.76 (19)	1.06 (26)	1.69 (42)	1.35 (34)	2.76 (700)	3.77 (96)	1.06 (26)	2.2 (1.0)
10,000 (5000)	0.88 (23)	1.38 (35)	2.28 (57)	2.03 (51)	3.81 (97)	4.79 (122)	1.44 (36)	4.0 (1.8)
25,000 (10000)	1.25 (32)	1.97 (50)	3.25 (82)	3.60 (91)	5.38 (137)	6.77 (172)	2.03 (51)	12 (5.0)
50,000 (20000)	1.75 (45)	2.75 (70)	5.00 (127)	5.66 (143)	8.00 (203)	10.26 (261)	2.88 (73)	35 (16)
EDjunior Standard U	oper Shackle	2						
Unit Capacity lb. (kg)	A in. (mm)	B in. (mm)	C in. (mm)	D in. (mm)	F in. (mm)	G in. (mm)	H in. (mm)	Weight Ib. (kg)
2,500 (1000)	0.44 (12)	0.75 (19)	1.16 (29)	1.18 (30)	1.94 (49)	2.39 (61)	0.75 (19)	0.5 (0.2)
5,000 (2000)	0.63 (16)	1.06 (27)	1.69 (42)	1.35 (34)	2.76 (70)	3.45 (88)	1.06 (26)	1.7 (0.8)
10,000 (5000)	0.88 (23)	1.38 (35)	2.28 (57)	2.17 (55)	3.81 (97)	4.79 (122)	1.44 (36)	4.0 (1.8)
EDxtreme Oversize U	pper Shackl	e — not avai	lable on 25,0	000 lb and 50	,000 lb mode	els.		
Unit Capacity lb. (kg)	l in. (mm)	J in. (mm)	K in. (mm)	L in. (mm)	M in. (mm)	N in. (mm)		Weight Ib. (kg)
2,500 (1000)	0.94 (24)	4.88 (124)	2.76 (70)	4.49 (114)	6.98 (177)	8.64 (219)		6.4 (2.9)
5,000 (2000)	0.94 (24)	4.88 (124)	2.76 (70)	4.49 (114)	6.98 (177)	8.64 (219)		6.4 (2.9)
10,000 (5000)	0.94 (24)	4.88 (124)	2.76 (70)	4.49 (114)	6.73 (171)	8.39 (213)		6.4 (2.9)
Dxtreme Oversize Up	per Shackle	— not availe	able on 2500	lb model.				
Unit Capacity lb. (kg)	l in. (mm)	J in. (mm)	K in. (mm)	L in. (mm)	M in. (mm)	N in. (mm)		Weight Ib. (kg)
5,000 (2000)	0.94 (24)	4.88 (124)	2.76 (70)	4.49 (114)	6.98 (177)	8.64 (219)		6.4 (2.9)
10,000 (5000)	0.94 (24)	4.88 (124)	2.76 (70)	4.49 (114)	6.73 (171)	8.39 (213)		6.4 (2.9)

EDxtreme Instrument Body

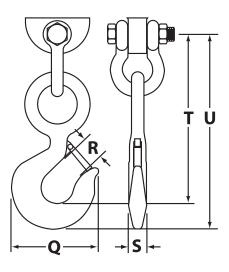
EDxtreme Instrumen	it Body				\sim
Unit Capacity lb. (kg)	O in. (mm)	P in. (mm)	Weight Ib. (kg)		
2,500 (1000)	7.79 (198)	5.01 (128)	4.3 (2.0)		
5,000 (2000)	7.79 (198)	5.01 (128)	4.4 (2.0)		
10,000 (5000)	8.10 (206)	5.34 (136)	5.6 (2.5)	\mathbf{A}	$\mathbf{\underline{\Theta}}$
25,000 (10000)	8.04 (204)	5.26 (134)	16 (7.3)		
50,000 (20000)	9.18 (233)	5.98 (152)	25 (11)		
EDjunior Instrument	Body				
Unit Capacity Ib. (kg)	O in. (mm)	P in. (mm)	Weight Ib. (kg)	o [
2,500 (1000)	6.89 (175)	4.98 (127)	2.9 (1.3)		Pret Mage Select
5,000 (2000)	7.85 (199)	4.98 (127)	4.5 (2.0)		
10,000 (5000)	8.17 (207)	5.34 (136)	6.4 (2.9)	$+ \lambda$	
					<u>8</u>
			ED	xtreme	11

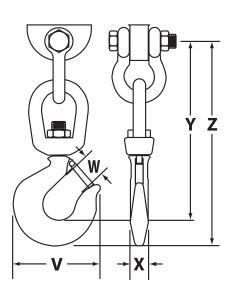
Instrument

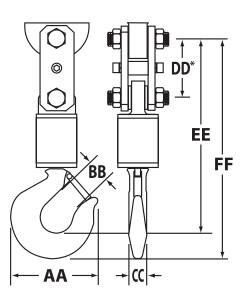
Body

EDjunior Instrument Body

Ρ







Non-Swivel Hook

Basic Swivel Hook

Bearing Swivel Hook

EDxtreme Non-Swivel Hook						
Unit Capacity Ib. (kg)	Q in. (mm)	R in. (mm)	S in. (mm)	T in. (mm)	U in. (mm)	Weight Ib. (kg)
2,500 (1000)	6.3 (160)	1.61 (40)	1.66 (43)	10.2 (258)	12.0 (304)	10 (4.7)
5,000 (2000)	6.3 (160)	1.61 (40)	1.66 (43)	10.2 (258)	12.0 (304)	10 (4.7)
10,000 (5000)	7.5 (190)	2.08 (52)	1.63 (42)	12.9 (328)	15.2 (385)	19 (9.0)
25,000 (10000)	10.4 (262)	3.02 (76)	2.38 (61)	18.0 (455)	21.0 (532)	51 (23)
50,000 (20000)	14.1 (358)	3.00 (76)	3.19 (82)	27.0 (686)	22.8 (578)	140 (63)
EDjunior Non-Swivel	Hook					
Unit Capacity Ib. (kg)	Q in. (mm)	R in. (mm)	S in. (mm)	T in. (mm)	U in. (mm)	Weight Ib. (kg)
2,500 (1000)	4.0 (101)	1.09 (27)	0.94 (24)	6.4 (163)	7.6 (191)	2.6 (1.2)
5,000 (2000)	6.3 (160)	1.61 (40)	1.66 (43)	10.2 (258)	11.6 (294)	10 (4.5)
10,000 (5000)	7.5 (190)	2.08 (52)	1.63 (42)	12.9 (328)	14.7 (372)	19 (9.0)
EDxtreme Basic Swive	el Hook — n	ot available o	on 50,000 lb i	model		
Unit Capacity Ib. (kg)	V in. (mm)	W in. (mm)	X in. (mm)	Y in. (mm)	Z in. (mm)	Weight Ib. (kg)
2,500 (1000)	4.8 (123)	1.14 (29)	1.36 (34)	10.3 (261)	11.8 (298)	7.1 (3.2)
5,000 (2000)	4.8 (123)	1.14 (29)	1.36 (34)	10.3 (261)	11.8 (298)	7.1 (3.2)
10,000 (5000)	6.3 (160)	1.39 (36)	1.61 (40)	13.5 (343)	15.3 (389)	14 (6.0)
25,000 (10000)	8.3 (212)	1.95 (50)	2.27 (57)	17.4 (442)	20.0 (508)	35 (16)
EDjunior Basic Swivel Hook						
Unit Capacity Ib. (kg) 2,500 (1000) 5,000 (2000) 10,000 (5000)	V in. (mm) 3.2 (81) 4.8 (123)	W in. (mm) 0.72 (19) 1.14 (29)	X in. (mm) 0.95 (24) 1.36 (34)	Y in. (mm) 7.4 (186) 10.3 (261)	Z in. (mm) 8.2 (208) 11.7 (298)	Weight lb. (kg) 1.7 (0.8) 6.6 (3.0)

EDxtreme Bearing Swivel Hook (swivel under load) — not available on EDjunior

J							
Unit Capacity Ib. (kg)	AA in. (mm)	BB in. (mm)	CC in. (mm)	DD* in. (mm) EE in. (mm)	FF in. (mm)	Weight Ib. (kg)
2,500 (1000)	4.9 (123)	1.14 (29)	1.41 (35)	4.01 (102)	12.7 (321)	14.1 (358)	11 (5.0)
5,000 (2000)	4.9 (123)	1.14 (29)	1.41 (35)	4.01 (102)	12.7 (321)	14.1 (358)	11 (5.0)
10,000 (5000)	6.3 (160)	1.45 (37)	1.69 (42)	4.51 (115)	15.3 (388)	17.1 (435)	21 (10)
25,000 (10000)	10.3 (263)	2.39 (61)	3.19 (81)	5.01 (128)	22.7 (576)	25.7 (652)	65 (30)
50,000 (20000)	13.6 (346)	3.01 (77)	3.25 (82)	not used	20.9 (531)	24.6 (623)	140 (64)

(Y) *May use clevis link or shackle depending upon capacity.

Selecting an ED Series Crane Scale is easy:

- 1. Choose EDxtreme or EDjunior unit.
- 2. Select required capacity.
- 3. Select upper shackle style.
- 4. Select hook style.
- 5. Obtain dimensional information from charts.
- 6. Add radio remote and/or backlight options, if desired.

Common Measurements:

- 1. Headroom: add dimensions
- 2. Total Length: add dimensions
- 3. Shackle Thickness: subtract dimensions
- 4. Hook Thickness: subtract dimensions
- (F or M) + O + (T or Y or EE) (G or N + O + (U or Z or FF) (G or N) - (F or M) (V or Z or FF) - (T or Y or EE)

Dillon ED Series Crane Scales

EDjunior – Capacity x Resolution

Unit Capacity lb. (kg)		Capacity x Resoluti	on	Overload ¹	Body Construction	
2,500 (1000)	2500 lbf x 2	1000 kgf x 1	10000 N x 10	700 %	2024 Aircraft Aluminum	
5,000 (2000)	5000 lbf x 5	2000 kgf x 2	20000 N x 20	700 %	2024 Aircraft Aluminum	
10,000 (5000)	10000 lbf x 10	5000 kgf x 5	50000 N x 50	700 %	2024 Aircraft Aluminum	
					1. Ultimate overload protection	

EDjunior Crane Scale Specifications

Enclosure: Designed to NEMA4X/IP55. Suitable for continuous outdoor use. **Accuracy:** 0.2% of capacity.

Repeatability: 0.2% of capacity.

Ultimate overload: 700%

Safe overload: 200%

Display: 128 x 64 dot-graphic LCD display shows all digits 1.0" (26 mm) high plus annunciators and softkeys.

Display update rate: 2 times per second.

RS-232 communication: Not available. See Dillon EDx Crane Scale.
Calibration: Traceable to the National Institute of Standards and Technology. Calibration card included.

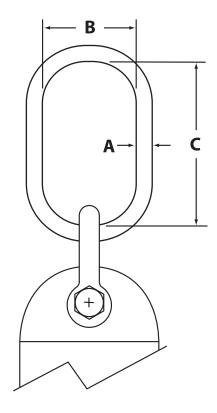
Battery life: 320 hours typical use with two C-cell alkaline batteries. **Operating temperature:** -4° F to 140° F (-20° to 60° C) **Included with instrument:** Batteries, manual and calibration card. **Optional accessories:** Shipping / storage crate.

Master-link Accessory

Master-link provides additional opening for oversize hooks when added to a standard anchor shackle. Headroom consumption will increase by dimension C.

Master-link

Unit Capacity Ib. (kg)	A in. (mm)	B in. (mm)	C in. (mm)	Weight Ib. (kg)
2,500 (1000)	0.50 (13)	2.50 (64)	5.00 (127)	0.9 (2.0)
5,000 (2000)	0.50 (13)	2.50 (64)	5.00 (127)	0.9 (2.0)
10,000 (5000)	0.75 (19)	2.75 (70)	5.50 (140)	2.3 (5.0)
25,000 (10000)	1.25 (32)	4.38 (111)	8.75 (222)	9.8 (21.5)
50,000 (20000)	1.50 (38)	5.25 (133)	10.50 (267)	17.1 (37.7)
50,000 (20000)	1.50 (56)	5.25 (155)	10.30 (207)	17.1 (57.7)



AUTHORIZED DISTRIBUTORS

Ask the experts. Dillon distributors offer complete service capabilities from application assistance to sales and product support. Their experienced representatives are the most knowledgeable experts that you will find in the force measurement industry. We recommend that you consult these capable specialists for all of your measuring needs. R.D. Jacobs Company 500 Southeast Thirteenth Street Fort Lauderdale, Florida 33316 Phone: 954.462.1932 Fax: 954.527.4466 email: info@dynamometers.com

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Overload Protection and Overhead Weighing Equipment

