



APxtreme Dynamometer Specifications

Pound Capacities

5" (125mm) Dial Size		10" (250 mm) Dial Size		
	<u>Part number</u>	<u>Cap x division size</u>		
LOW	51695-0011	500 x 5	51700-0014	500 x 2
	51695-0029	1,000 x 10	51700-0022	1,000 x 5
	51695-0037	2,000 x 20	51700-0030	2,000 x 10
	51695-0045	4,000 x 25	51700-0048	4,000 x 20
	51695-0052	5,000 x 50	51700-0055	5,000 x 20
	51695-0060	6,000 x 50	51700-0063	6,000 x 25
	51695-0078	8,000 x 50	51700-0071	8,000 x 50
	51695-0086	10,000 x 100	51700-0089	10,000 x 50
MED	51695-094	15,000 x 100	51700-0097	15,000 x 100
	51695-0102	20,000 x 200	51700-0105	20,000 x 100
HIGH			52160-0015	30,000 x 200
			52160-0023	40,000 x 200
			52160-0031	50,000 x 200
			52170-0013	100,000 x 500



Kilogram Capacities

5" (125mm) Dial size		10" (250mm) Dial size		
	<u>Part number</u>	<u>Cap x division size</u>		
LOW	51695-0144	200 x 2	51700-0147	200 x 1
	51695-0136	500 x 5	51700-0139	500 x 2
	51695-0151	1000 x 10	51700-0154	1000 x 5
	51695-0128	2000 x 20	51700-0121	2000 x 10
	51695-0169	4000 x 25	51700-0162	4000 x 20
	51695-0177	5000 x 50	51700-0170	5000 x 20
	MED	51695-0110	10,000 x 100	51700-0113
HIGH			52160-0049	15,000 x 100
			52160-0056	20,000 x 100

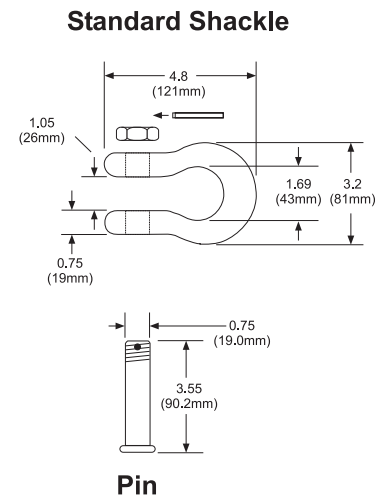
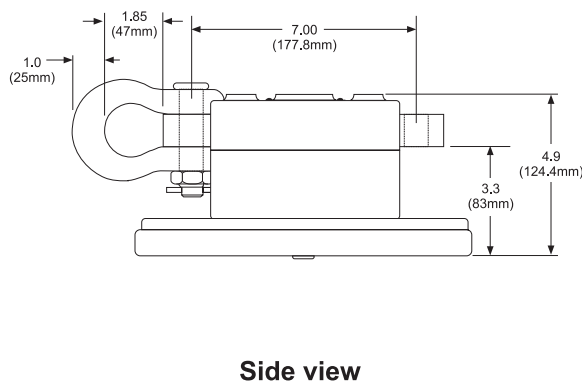
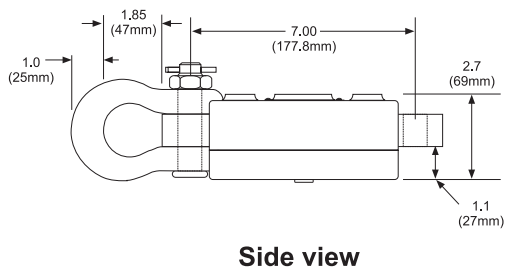
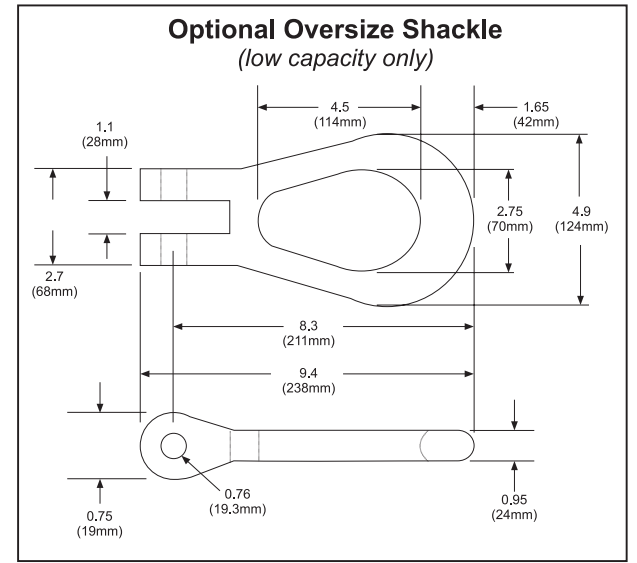
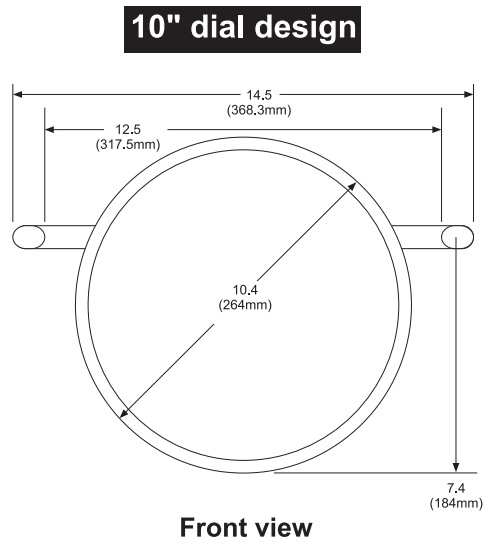
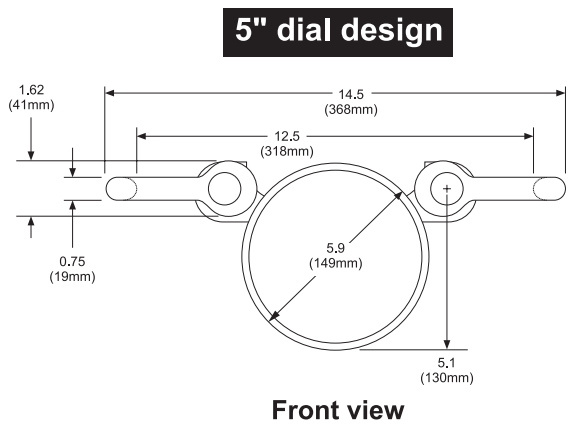
Newton Capacities

5" (125mm) Dial Size		10" (250mm) Dial Size		
	<u>Part number</u>	<u>Cap x division size</u>		
LOW	51695-0185	2000 x 20	51700-0188	2000 x 10
	51695-0193	5000 x 50	51700-0196	5000 x 20
	51695-0201	10,000 x 100	51700-0204	10,000 x 50
	51695-0219	20,000 x 200	51700-0212	20,000 x 100
	51695-0227	40,000 x 250	51700-0220	40,000 x 200
	51695-0235	50,000 x 500	51700-0238	50,000 x 200
	MED	51695-0243	100,000 x 1000	51700-0246
HIGH			52160-0064	150,000 x 1000
			52160-0072	200,000 x 2000

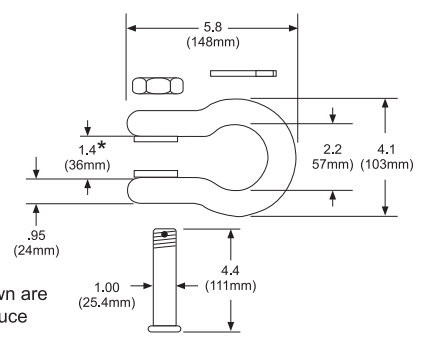
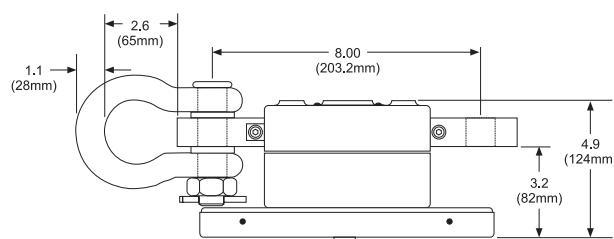
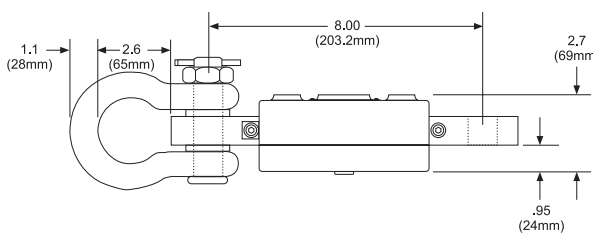
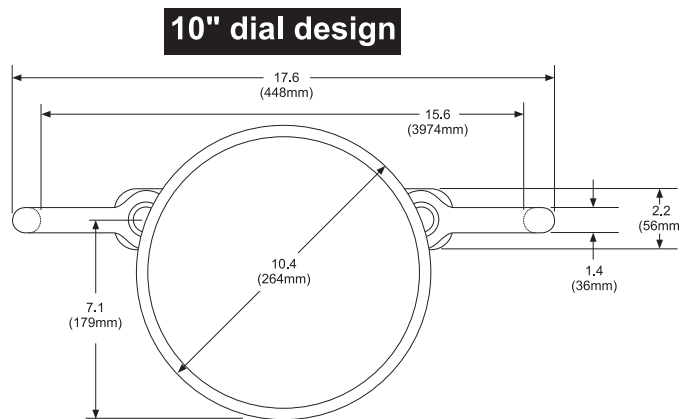
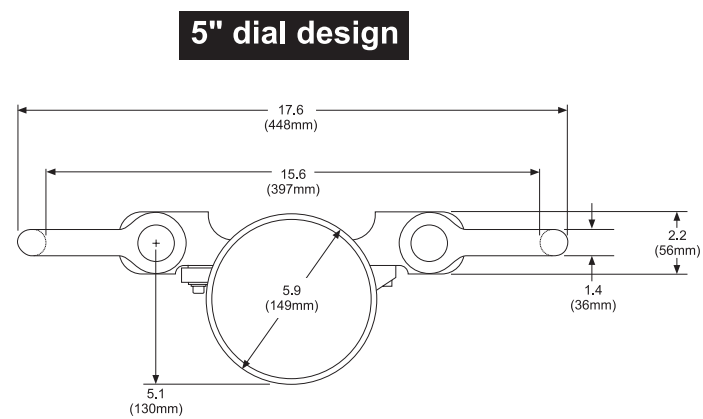
APxtreme Dimensions

Dimensions in inches (mm)
 Drawing scales differ between capacities
 Dimensions subject to manufacturer /supplier tolerances and
 are subject to change without notice.

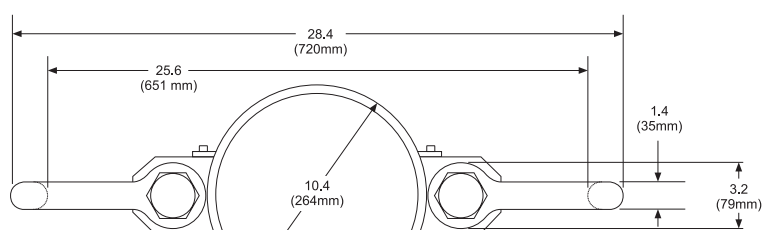
Low Capacities 500-10,000lb / 200-5000kg / 2-50kN



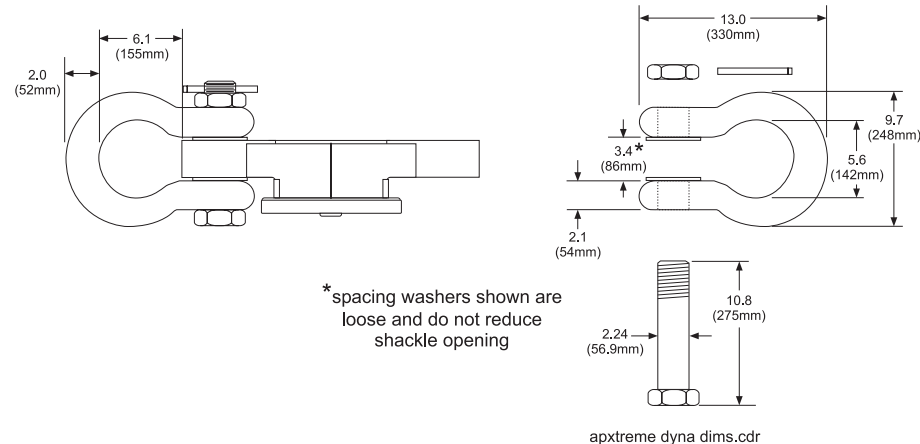
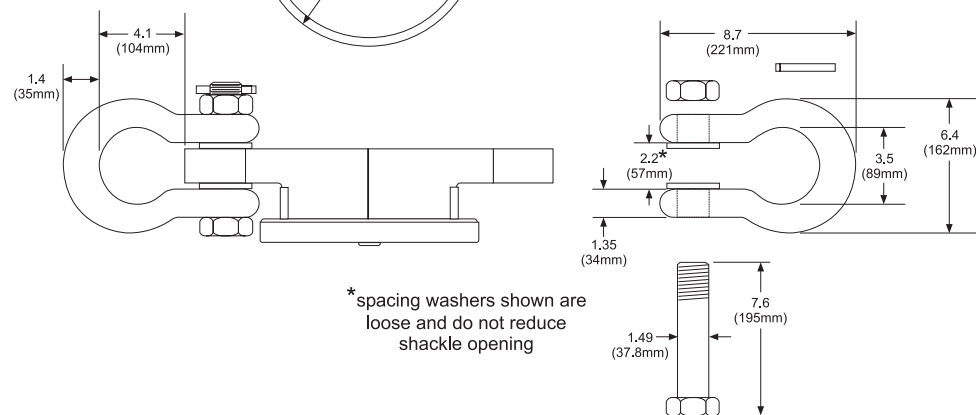
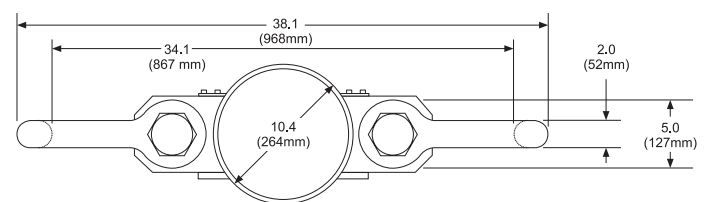
Medium Capacities 15,000-20,000lb / 10,000kg / 100kN



High Capacities 30,000-50,000lb / 15,000-20,000kg / 150-200kN



High Capacity 100,000lb



APxtreme Mechanical Dynamometer Specifications

Accuracy: $\pm 0.5\%$ of capacity

Temperature range: -50° to 140° F (-45° to 60° C)

Ultimate Safety Factor: 5:1 minimum USF

Construction:

Pressure bar—

Certified & traceable aircraft quality E4340 steel

Shackles and pins—

Low capacity range— A4140 forged steel (pins machined from AQ E4340 steel)

Med/High capacity ranges— Skookum Gold Standard or Crosby G-2140 Grade B alloy steel (Med capacity pins from AQ E4340 steel)

Heat treatment: Pressure bar—HRC 36-40

Low capacity standard shackles—HRC 34-40

Low capacity optional shackles—BR 235-270

Low/Med capacity shackle pins—HRC 46-50

Proof load: 150% proof load applied to pressure bar after machining and prior to nondestructive testing.

Nondestructive examinations: Magnetic particle inspection per ASTM E1444 conducted on:

-every pressure bar in all capacities

-every low capacity shackle and pin

Corrosion protection: Electroless nickel plating from 0.0002 to 0.0005 inch offers excellent corrosion resistance, typically permits future inspections and eliminates hydrogen embrittlement concerns. Applied to pressure bar, shackles and pins.

Zero control: Zero up to 20% of capacity. Zeroed load must be considered as part of ultimate load.

Calibration: Traceable to NIST with three confirmation runs.

Documentation: Includes User's Guide, certificate of conformance and signed calibration certificate with curve of readings.

Carry case/crate:

low capacity 5" dial – plastic carry case

low capacity 10" dial – steel carry case

all med and high capacity – reinforced plywood crate

Optional Klaxon signal alarm: Rated at 104 dB at 1 foot. Must be installed at time of manufacture. Uses two 'D' cell batteries.

Optional Auto control switch: Rated 250 VAC or 28 VDC, 5 amps, resistive. Must be installed at time of manufacture.

Periodic proof loads: Controlled 150% proof loads permitted annually.

Shipping and packing (approximate weights):

5" low capacity

Net weight	9 lb
Shipping weight	15 lb
Shipping box	16" x 11" x 7"

10" low capacity

Net weight	14 lb
Shipping weight	26 lb
Shipping box	14" x 14" x 7"

15,000 – 20,000 lb (10,000 kg) medium capacity

Net weight (5")	14 lb
Net weight (10")	19 lb
Shipping weight	45 lb
Shipping crate	22" x 13.5" x 10.5"

30,000 – 50,000 lb (15,000 – 20,000 kg) high capacity

Net weight	60 lb
Shipping weight	98 lb
Shipping crate	33.5" x 14" x 11.5"

100,000 lb high capacity

Net weight	165 lb
Shipping weight	215 lb
Shipping crates	26.5" x 14" x 10" 27" x 18.5" x 9"

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.

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