

AP Dynamometer

A rugged, mechanical force-measurement instrument designed for accurate tension and load monitoring across demanding industrial applications, offering capacities from 500 lb to 50,000 lb with $\pm 0.5\%$ accuracy and durable construction.

Range

500 lb to 50,000 lb

Size

5" and 10" dial face

Proof Load

Carry case, batteries, manual and calibration card

Overload

500%

Units of Measure

lbf or kgf

Accuracy

$\pm 0.5\%$ of instrument capacity

Zero Control

Zero up to 20% capacity

Calibration

Traceable to NIST

Operating Range

-50°F to 140°F

Corrosion Protection

Powder coated pressure bar

Protection

Hard polymer storage case included along with calibration certificate

Recalibration

Every 12 months

Approvals

CE approved / ASME B30.26 up to 20,000lb capacity



The AP Dynamometer is used for such diverse jobs as:

- Aircraft engine removal as part of a boot strap assembly
- Line sagging and erecting
- On-board load testing cranes/davits/lifeboats
- Tensioning of flare stack guy wires
- Safe lifting and tension monitoring
- Erecting and monitoring stage rigging
- Installation and maintenance of overhead high voltage electrical lines (OHEL)
- Installation and tension monitoring of large glass installations, tension wires
- Many other applications: cable pulling, zip wire tensioning, logging, highway recovery vehicles, tug boats

Shipping and Packing (approximate weights):

Model	Net weight	Shipping weight	Shipping box
5" Low and Med Capacities	9 lb	15 lb	16" x 11" x 7"
10" Low and Med Capacities	10 lb	16 lb (26 lb)*	14" x 14" x 7"
30,000 – 50,000 lb (20,000 kg) High Capacity	64 lb	98 lb	37.5" x 13" x 10.5"

*with optional steel case

Pound Capacities

5" (125 mm) Dial Size			10" (250 mm) Dial Size		Ultimate Safety Factor	Pressure Bar Material
Part Number	Cap x Division Size		Part Number	Cap x Division Size		
LOW	30006-0019	500 x 5	N/A			
	30006-0027	1,000 x 10	30007-0026	1,000 x 5	5:1	Alumium
	30006-0035	2,000 x 20	30007-0034	2,000 x 10	5:1	Alumium
	30006-0043	4,000 x 25	N/A		5:1	Steel
	30006-0050	5,000 x 50	30007-0059	5,000 x 20	5:1	Steel
	30006-0076	8,000 x 50	N/A			
	30006-0084	10,000 x 100	30007-0083	10,000 x 50	30006-0019	Steel
MED	30006-0092	15,000 x 100	N/A			Steel
	30006-0100	20,000 x 200	30007-0109	20,000 x 100	5:1	Steel
HIGH	N/A		30784-0017	30,000 x 200	5:1	S
	N/A		30784-0033	50,000 x 200*	3:1	S

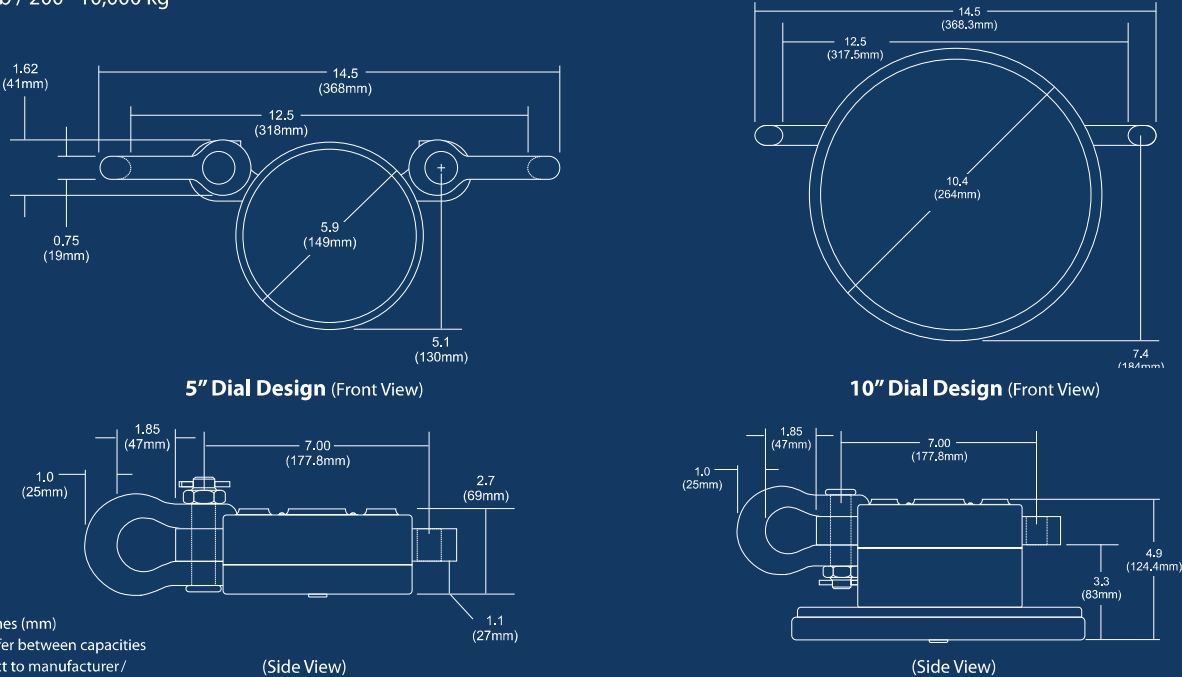
*Not CE approved.
ASME b30.26 compliant on 20,000 lb (10,000 kg) and below.

Kilogram Capacities

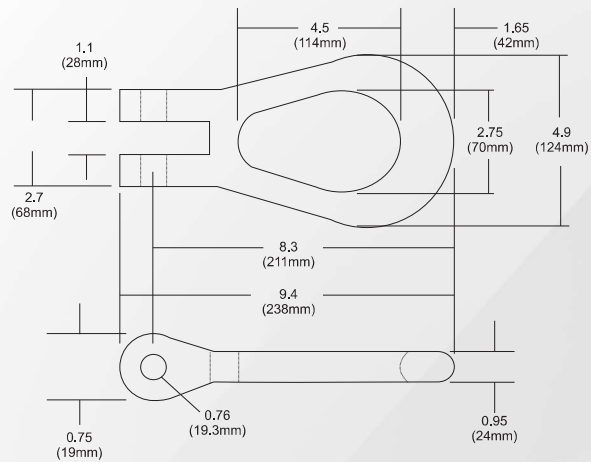
5" (125 mm) Dial Size			10" (250 mm) Dial Size		Ultimate Safety Factor	Pressure Bar Material
Part Number	Cap x Division Size		Part Number	Cap x Division Size		
LOW	30006-0134	500 x 5	N/A			
	30006-0159	1,000 x 10	30007-0158	1,000 x 5	5:1	Alumium
	30006-0126	2,000 x 20	30007-0125	2,000 x 10	5:1	Alumium
	30006-0167	4,000 x 25	N/A		5:1	Steel
	N/A		30007-0174	5,000 x 20	5:1	Steel
MED	30006-0092	15,000 x 100	N/A		5:1	Steel
HIGH	N/A		30784-0017	30,000 x 200	4:1	Steel

Low and Medium Capacities

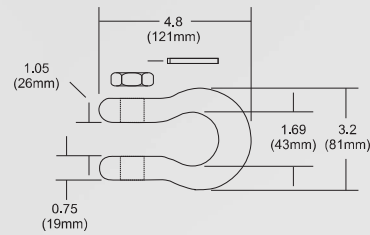
500–20,000 lb / 200–10,000 kg



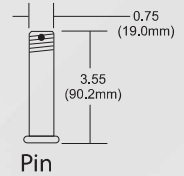
Dimensions in inches (mm)
Drawing scales differ between capacities
Dimensions subject to manufacturer/
supplier tolerances and are subject to
change without notice.



Optional Oversize Shackle

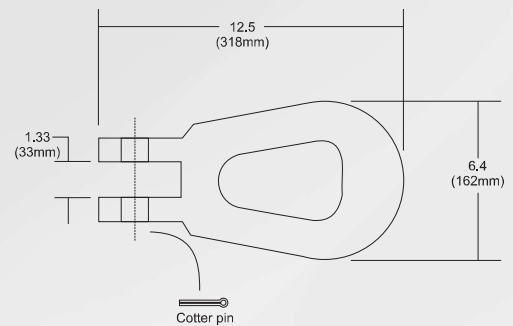
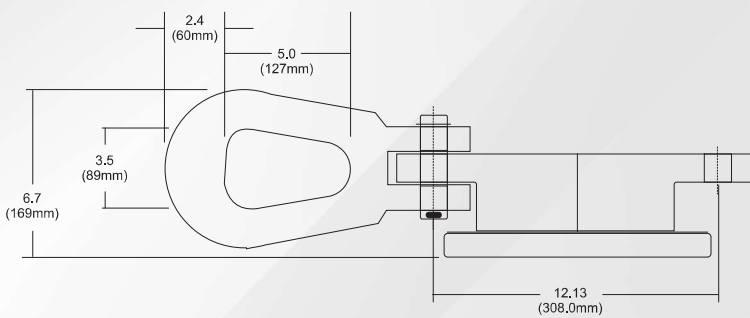
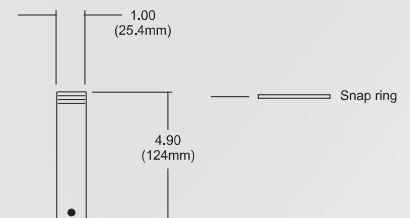
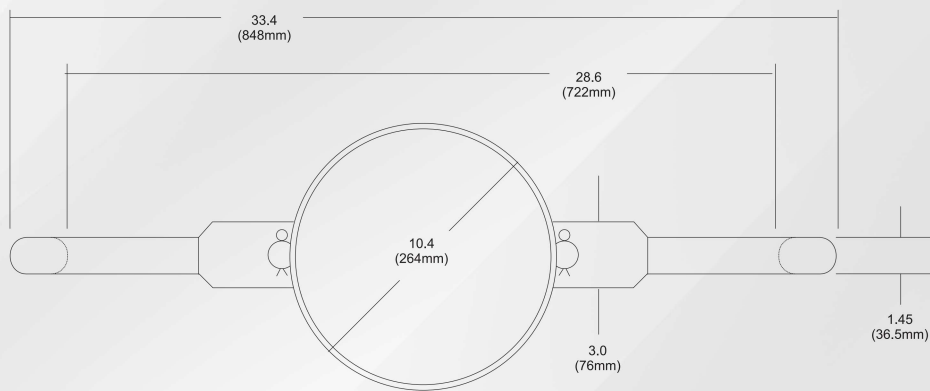


Standard Shackle



High Capacities

30,000–50,000 lb / 15,000–20,000 kg



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Force Measurement Equipment

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