

LG Mechanical Force Gauge- ideal for tensile or compression force measurement applications up to 100 lbf, 50 kgf or 500 N. The LG Series has a force measurement accuracy of better than 0.5% full scale. An easy to use peak hold button that holds the pointer at the peak load is featured. It can be operated by hand-held or on the test stand. The gauge comes with a Certificate of Calibration.



Model	Capacity x Graduation	Model	Capacity x Graduation	Model	Capacity x Graduation
LG-002	2 x 0.01lbf	LG-1KG	1 x 0.005kgf	LG-10N	10 x 0.05N
LG-005	5 x 0.025lbf	LG-2KG	2 x 0.01kgf	LG-20N	20 x 0.1N
LG-010	10 x 0.05lbf	LG-3KG	3 x 0.015kgf	LG-30N	30 x 0.15N
LG-020	20 x 0.1lbf	LG-5KG	5 x 0.025kgf	LG-50N	50 x 0.25N
LG-030	30 x 0.15lbf	LG-10KG	10 x 0.05kgf	LG-100N	100 x 0.5N
LG-050	50 x 0.25lbf	LG-20KG	20 x 0.1kgf	LG-200N	200 x 1N
LG-075	75 x 0.375lbf	LG-30KG	30 x 0.15kgf	LG-300N	300 x 1.5N
LG-100	100 x 0.5lbf	LG-50KG	50 x 0.25kgf	LG-500N	500 x 2.5N

DG Mechanical Force Gauge- ideal for tensile or compression force measurement applications up to 500 lbf, 250 kgf or 2500 N. DG series not only has the feature of LG series, but also with a larger capacity. Accuracy of the gauge is $\pm 0.5\%$ for full scale. In addition, the gauge can be installed in the test stand to use, but also can be hand-held operation. The gauge equipped with removable metal handle that can be clenched during the test to ensure no tilt for higher accuracy. The gauge comes with a Certificate of Calibration.



Model	Capacity x Graduation	Model	Capacity x Graduation
Units: lbf		Unit: kgf	
DG-200	200 x 1.0lbf	DG-100KG	100 x 0.5kgf
DG-300	300 x 1.5lbf	DG-250KG	250 x 1.25kgf
DG-400	400 x 2.0lbf	Unit: N	
DG-500	500 x 2.5lbf	DG-1000N	1000 x 5.0N
		DG-2500N	2500 x 12.5N

DFE Series Digital Force Gauge- DFE series is a compact, easy-to-use force gauge designed for economy applications without compromising functionality. The DFE is available with maximum capacities 500lbf/ 250kgf/ 2.5KN. All DFE Series come with Certificate of Calibration.



- Accuracy: $\pm 0.25\%$ (for full scale)
- Can be used to test the tensile and compression
- Internal rechargeable battery
- Loads are displayed in ozf, gf, lbf, kgf and N units
- LCD displays supports a variety of standard gauge functions including normal and peak readings
- Statistic functions including mean, maximum, minimum, standard deviation, coefficient of variation
- Included overload protection
- 5000 data can be taken per second
- High and low set point limit (without output)

Model	Capacity x Graduation
DFE-002	32 x 0.01ozf, 1000 x 1gf, 2 x 0.001lbf, 1 x 0.001kgf, 10N x 0.01N
DFE-010	160x 0.1ozf, 5000 x 1gf, 10 x 0.01lbf, 5 x 0.001kgf, 50N x 0.01N
DFE-025	400 x 0.1ozf, 10000 x 10gf, 25 x 0.01lbf, 10 x 0.01kgf, 100N x 0.1N
DFE-050	800 x 0.1ozf, 25000 x 10gf, 50 x 0.01lbf, 25 x 0.01kgf, 250N x 0.1N
DFE-100	1600 x 1ozf, 50000 x 10gf, 100 x 0.1lbf, 50 x 0.01kgf, 500N x 0.1N
DFE-200	200 x 0.1lbf, 100 x 0.1kgf, 1000N x 1N
DFE-500	500 x 0.1lbf, 250 x 0.1kgf, 2500N x 1N



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E-DFE Digital Force Gauge- the E- DFE is available with maximum capacities of 500lbf/ 250kgf/ 2500N. it not only has the features of DFE series, but also with RS232 interface and $\pm 2V$ DC output. The gauge comes with calibration certificate (DFE with output)



- Accuracy: +/-0.25% (for full scale)
- Can be used to test the tensile and compression
- Internal rechargeable battery
- Loads are displayed in ozf, gf, lbf, kgf and N units
- LCD displays normal and peak reading
- Statistic functions including mean, maximum, minimum, standard deviation, coefficient of variation
- Overload protection (150% of capacity)
- RS232 & +/-2VDC output
- 5000 data can be taken per second
- High and low set point limit
- NEXYGEN DF software (optional)

Model	Capacity x Graduation
E-DFE-002	32 x 0.01ozf, 1000 x 1gf, 2 x 0.001lbf, 1 x 0.001kgf, 10N x 0.01N
E-DFE-010	160 x 0.1ozf, 5000 x 1gf, 10 x 0.01lbf, 5 x 0.001kgf, 50N x 0.01N
E-DFE-025	400 x 0.1ozf, 10000 x 10gf, 25 x 0.01lbf, 10 x 0.01kgf, 100N x 0.1N
E-DFE-050	800 x 0.1ozf, 25000 x 10gf, 50 x 0.01lbf, 25 x 0.01kgf, 250N x 0.1N
E-DFE-100	1600 x 1ozf, 50000 x 10gf, 100 x 0.1lbf, 50 x 0.01kgf, 500N x 0.1N
E-DFE-200	200 x 0.1lbf, 100 x 0.1kgf, 1000N x 1N
E-DFE-500	500 x 0.1lbf, 250 x 0.1kgf, 2500N x 1N

DFS Digital Force Gauge- the DFS is available with capacities up to 500lbf/250kgf/2500N with high accuracy, with calibration certificate



- Accuracy: +/-0.1% (for full scale)
- Can be used to test tensile and compression
- Battery adapter/charger
- Loads are displayed in ozf, gf, lbf, kgf and N units
- LCD display normal and peak readings
- High and low set point limit
- Statistic functions including mean, maximum, minimum, standard deviation, coefficient of variation
- Overload protection
- RS232 & +/-2VDC output
- 5000 data can be taken per second
- Supplied with NEXYGEN DF software

Model	Capacity x Graduation
DFS-250G	8 x 0.002ozf, 250 x 0.05gf, 0.5 x 0.0001lbf, 0.2 x 0.0001kgf, 2.5N x 0.0005N
DFS-002	32 x 0.005ozf, 1000 x 0.1gf, 2 x 0.0002lbf, 1 x 0.0001kgf, 10N x 0.001N
DFS-010	160 x 0.02ozf, 5000 x 0.5gf, 10 x 0.001lbf, 5 x 0.0005kgf, 50N x 0.005N
DFS-025	400 x 0.05ozf, 10000 x 1gf, 25 x 0.002lbf, 10 x 0.001kgf, 100N x 0.01N
DFS-050	800 x 0.1ozf, 25000 x 2gf, 50 x 0.005lbf, 25 x 0.002kgf, 250N x 0.02N
DFS-100	1600 x 0.2ozf, 50000 x 5gf, 100 x 0.01lbf, 50 x 0.005kgf, 500N x 0.05N
DFS-200	200 x 0.02lbf, 100 x 0.01kgf, 1000N x 0.1N
DFS-500	500 x 0.05lbf, 250 x 0.02kgf, 2500N x 0.2N

DFS-R Dedicated Digital Force Gauge- supplies accurate load measurement for capacities up to 1000 lbf/ 5 kN/ 5000N similar to DFS-R with external load cell sensor, for use in space limited environment, with calibration certificate



- Accuracy: +/-0.1%(for full scale)
- Can be used to test tensile and compression
- Internal rechargeable battery
- Loads are displayed in ozf, gf, lbf, kgf and N units
- LCD displays normal and peak reading
- High and low setpoint limit
- Statistic functions including mean, maximum, minimum, standard deviation, coefficient of variation
- RS232 & +/-2VDC output
- 5000 data can be taken per second
- Record for overloading
- NEXYGEN DF software (Optional)

Model	Capacity x Graduation
DFS-R-250G	8 x 0.002ozf, 250 x 0.05gf, 0.5 x 0.0001lbf, 0.2 x 0.0001kgf, 2.5N x 0.0005N
DFS-R-0002	32 x 0.005ozf, 1000 x 0.1gf, 2 x 0.0002lbf, 1 x 0.0001kgf, 10N x 0.001N
DFS-R-0010	160 x 0.02ozf, 5000 x 0.5gf, 10 x 0.001lbf, 5 x 0.0005kgf, 50N x 0.001N
DFS-R-0025	400 x 0.05ozf, 10000 x 1gf, 25 x 0.002lbf, 10 x 0.001kgf, 100N x 0.01N
DFS-R-0050	800 x 0.1ozf, 25000 x 2gf, 50 x 0.005lbf, 25 x 0.002kgf, 250N x 0.02N
DFS-R-0100	1600 x 0.2ozf, 50000 x 5gf, 100 x 0.01lbf, 50 x 0.005kgf, 500N x 0.1N
DFS-R-0200	200 x 0.02lbf, 100 x 0.01kgf, 1000N x 0.1 N
DFS-R-0500	500 x 0.05lbf, 250 x 0.02kgf, 2500N x 0.2N
DFS-R-1000	1000 x 0.1lbf, 500 x 0.05kgf, 5000N x 0.5N



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DFX Series Digital Force Gauge- is available in capacity up to 200lbf/ 100kgf/ 1000N
 DFX series is an economical digital force gauge with Chinese display language. The DFX Series is supplied with an optional Certificate of Calibration with NIST data.



- Accuracy: $\pm 0.5\%$ for full scale
- Can be used to test tensile and compression
- With internal rechargeable battery
- Loads are displayed in ozf, lbf, kgf, and N units
- LCD displays normal and peak reading
- Overload protection (150% of the load)
- 1000 data can be taken per second
- Record for overloading

Model	Capacity x Graduation
DFX-010	160 x 0.2ozf, 5000 x 5gf, 10 x 0.01lbf, 5 x 0.005kgf, 50N x 0.05N
DFX-050	800 x 1ozf, 25000 x 20gf, 50 x 0.05lbf, 25 x 0.02kgf, 250N x 0.2N
DFX-100	1600 x 2ozf, 50000 x 50gf, 100 x 0.1lbf, 50 x 0.05kgf, 500N x 0.5N
DFX-200	200 x 0.2lbf, 100 x 1kgf, 1000N x 1N

LTCM Series- Motorized force tester with digital load limits 150lbf/ 500lbf

LTCM series is economical motorized tester. When combined with a Chatillon force gauge (DG, LG, DFE, E-DFE and DFS series), tensile, compression, peel and flexural testing can be tested. A large working area and throat is perfect for large sample testing. The platform features pre-drilled holes for custom fixturing or for use with Chatillon fixtures. Sample with 254mm to 430mm diameter can be tested. The working area can be removed and the tester can be equipped directly on the working table or other devices.

Specification:

- Independent return speed
- Mechanical deflection limits
- With emergency stop switch
- Force tester can be used with force gauge such as DFE, E-DFE, DFS and so on.

Model	Max. Capacity	Travel distance	Selectable
LTCM-100	110lb/ 50kg/ 500N	380mm	5-500mm/ min
LTCM-500	550lb/ 250kg/ 2500N	750mm	5-500mm/ min



MT series Mechanical Force Tester- ideal solution for tensile and compression testing up to 150lbf/ 500lbf
 MT series Mechanical force tester can combine with LG, DG, DFE, E-DFE, DFS or DFX series force gauge for testing the tensile and compression.



- Model: **MT150L** CHATILLON Series Mechanical Tester, 150lb (660N), Lever Actuated
MT150H CHATILLON Series Mechanical Tester, 150lb (660N), Handwheel Actuated
MT500L CHATILLON Series Mechanical Tester, 500lb (2.2kN), Lever Actuated
MT500H CHATILLON Series Mechanical Tester, 500lb (2.2kN), Handwheel Actuated

Selectable item:

- **S**: Standard column height, 750mm (29.5 inches), **E**: Extended column height, 1000mm (39.4inches), **U**: Ultra column height, 1500mm (60 inches)
- Force gauge mounting kit (Please specify the Series of force gauge e.g. LG, DG, DFE, E-DFE, DFS, DFX)
- Mounting style: **B**- Bench, Vertical Mounting; **H**: Bench, Horizontal Wall Mounting
- Options- 10th Character: 1. Digital travel indicator, 2. Ruler Assembly (imperial/ Metric Graduation)

Common combination:

MT500 MT150
 (Not included force gauge during order Force tester)

MT150HSIB2	Max. capacity: 150lb, 750mm column height, Vertical handwheel, Ruler assembly and LG series force gauge mounting kit
MT500HS2B2	Max. capacity: 500lb, 750mm column height, vertical handwheel, ruler assembly and DFE, E-DFE, DFS Force gauge mounting kit



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DFS-R-ND Digital Force Gauge



The CHATILLON DFS-R-ND Series supplies accurate load and torque measurement in a common gauge. Ideal for handheld or test stand applications, the DFS-R-ND may be equipped with smart loadcells or torque sensors. (sensor as optional accessory)

- Accuracy: $\pm 0.25\% \sim \pm 0.5\%$ (for full scale)
- Can equip with SLC series interchangeable load sensor and STS series torque sensor
- Include the feature of DFS-R, the gauge will auto-configure itself to the sensor type.
- With NEXYGEN software

SLC series	
Model	Max. capacity x graduation
SLC-250G	8 x 0.002ozf, 250 x 0.05gf, 0.5 x 0.0001lbf, 0.25 x 0.0001kgf, 0.25 x 0.0005N
SLC-002	32 x 0.005ozf, 1000 x 0.1gf, 2 x 0.002lbf, 1 x 0.0001kgf, 10 x 0.001N
SLC-0010	160 x 0.02ozf, 5000 x 0.5gf, 10 x 0.001lbf, 5 x 0.0005kgf, 50 x 0.005N
SLC-0025	400 x 0.05ozf, 10000 x 1gf, 25 x 0.002lbf, 10 x 0.001kgf, 100 x 0.01N
SLC-0050	800 x 0.1ozf, 25000 x 2gf, 50 x 0.005lbf, 25 x 0.002kgf, 250 x 0.02N
SLC-0100	1600 x 0.02ozf, 50000 x 5gf, 100 x 0.01lbf, 50 x 0.005kgf, 500 x 0.05N
SLC-200	200 x 0.02lbf, 100 x 0.01kgf, 1000 x 0.01N
SLC-500	500 x 0.05lbf, 250 x 0.02kgf, 2500 x 0.2N
SLC-1000	1000 x 0.1lbf, 500 x 0.05kgf, 5000 x 0.5N

STS series	
Model	Max. capacity x graduation
STS-0003	50 x 0.005in-oz, 35 x 0.005N-cm, 3 x 0.0005in-lb, 3.5 x 0.0005kg-cm, 0.35 x 0.0001N-m
STS-0012	192 x 0.02in-oz, 125 x 0.02N-cm, 12 x 0.002in-lb, 12.5 x 0.002kg-cm, 1.25 x 0.0002N-m
STS-0050	800 x 0.1in-oz, 500 x 0.05N-cm, 50 x 0.005in-lb, 55 x 0.005kg-cm, 5 x 0.0005N-m
STS-0100	1000 x 0.01N-cm, 100 x 0.01in-lb, 100 x 0.01kg-cm, 10 x 0.001N-m
STS-0200	2000 x 0.02N-cm, 200 x 0.02in-lb, 200 x 0.02kg-cm, 20 x 0.002N-m

TCD Series Digital Force Testers

- TCD System Include TCL Load Cell, Closed Loop Motion Control and LCD Display for Showing Data.
- Once a TCD System is setup and its tests configured by a user, the entire configuration can be saved to a USB Flash Drive
- Advanced Yet Simple to Use Setups
- Limit Testing (Load, Distance, Time)
- Break & Rupture Testing
- Cyclic & Loop Testing (Time or Count)
- Mult-Stage/ User Defined Testing per ISO and ASTM Specification
- Use for Height Measurement
- Advanced Operator Control Console
- Simple Operation with Templates, Menus & Prompts
- Secure Access
- Tabular and Graphical Results
- Embedded SPC
- Ergonomic design
- Large, Color Display
- No Computer Required
- Employs an advanced closed-loop PID controller for precision travel
- Precision Position Accuracy
- Speed Accuracy Better than 1%
- 100Hz Data Sampling and USB Output
- Save Data to USB Flash Drive
- Direct Import into Excel or OLE2 Compatible Application
- Large working area
- Ideal for Large and Small Samples
- T-slot Table Design Supports Custom

Model	Mm/min	Max. capacity	Travel distance (mm)
TCD110 Series	0.01~510	110lbf, 50kgf, 500N	380
TCD225 Series	0.01~1270	225lbf, 100kgf, 1kN	510
TCD1100 Series	0.01~1016	1124lbf, 5kN	760

TLC Series Loads Cells- can be used with TCD digital force tester and DFE-R-ND digit force gauge.

Model	ozf	Gf	lbf	kgf	N
TLC-250G	8 x 0.002	250 x 0.05	0.5 x 0.0001	0.25 x 0.0001	2.5 x 0.0005
TLC-0002	32 x 0.005	1000 x 0.1	2 x 0.0002	1 x 0.0001	10 x 0.001
TLC-0005	80 x 0.01	2500 x 0.25	5 x 0.0005	2.5 x 0.0002	25 x 0.002
TLC-0010	160 x 0.02	5000 x 0.5	10 x 0.001	5 x 0.0005	50 x 0.005
TLC-0025	400 x 0.05	10,000 x 1	25 x 0.002	10 x 0.001	100 x 0.01
TLC-0050	800 x 0.1	25,000 x 2	50 x 0.005	25 x 0.002	250 x 0.02
TLC-0100	1600 x 0.2	50,000 x 5	100 x 0.01	50 x 0.005	500 x 0.05
TLC-0200	-	-	200 x 0.2	100 x 0.01	1000 x 0.1
TLC-0500	-	-	500 x 0.05	250 x 0.02	2500 x 0.2
TLC-1000	-	-	1000 x 0.01	500 x 0.05	5000 x 0.5



TCD225



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