

MF Mechanical Force Gauges

MF Series Mechanical Force Gauges with Peak Force Analysis

Incredibly durable and user-friendly, the economical MF mechanical force gauges are excellent for push/pull force testing in manufacturing, material testing, maintenance and inspection applications. The peak force mode features an easy push-button reset; this is especially helpful for doing repetitive testing in an assembly line or in quality control. The large dial indicator allows viewing of force changes as they occur. This large dial reduces the chance for parallax errors when taking readings. The MF was ergonomically designed for handheld use, but may also be used with the optional handle-great for loads over 15 pounds (6.8 kg). Due to its mechanical design, response time is immediate. Calibration is achieved by a set of precisely matched springs which are overload protected to 165 pounds (75 kg)! MF gauges feature a die-cast aluminum housing which mounts easily to all Shimpo Instruments test stands for even greater control of repetitive testing. All standard Series MF gauges include a protective carrying case plus attachment adapters. A complete kit is available that includes adapters, padded ERGO accessories, handle, large rugged case and NIST traceable certificate. This kit is perfect for the professional Physical Therapist or Ergonomist that performs Isokinetic testing or job task analysis.



Features

- Outstanding $\pm 0.2\%$ F.S. accuracy makes the MF's Ideal even for the strictest applications
- Precision gauge movement provides a quick response for instantaneous analysis
- Measures Tension and Compression Forces - Only one gauge required for insertion withdrawal tests
- Real Time Mode or Peak Mode enables flexibility to view live readings or maximum values recorded
- Smooth mechanical operation with precise action produces repetitive, proper readings
- Exceptionally rugged die-cast aluminum housing enables usage in harshest conditions
- Overload protected to 165 pounds (74.84 kg) protects gauge from accidental damage
- Peak Mode Reset is an ideal for repetitive peak testing applications
- English and metric models available satisfies many testing parameters
- Compact, ergonomic design is perfect for handheld use
- Rear threaded inserts makes it easy to mount to test stands
- Two year warranty provides peace of mind



MF in Standard Carrying Case

Included Attachments



Large V-Hook



Flat Head



Chisel



Cone Head



Notched Head



Hook



Large Hook

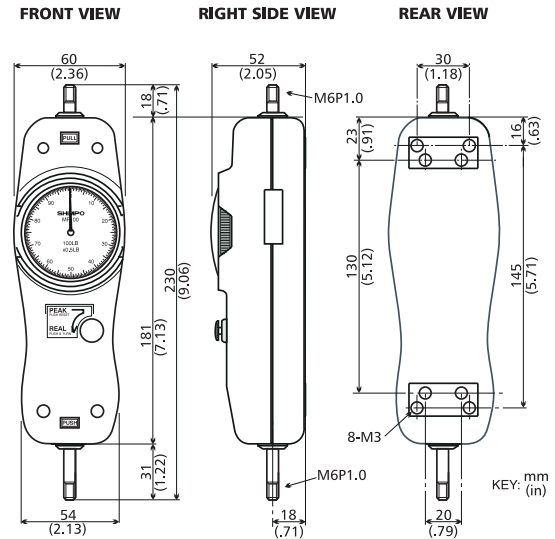


Extension Rod

MF Series Specifications

Accuracy	±0.2% F.S.
Display Analog	2" in diameter (50 mm); rotatable 360° for taring purposes
Live/Peak Mode	Selectable
Needle Update	Immediate
Threaded Insert	Eight M3 inserts
Overload Capacity	165 lbs (75 kg)
Product Weight	1.6 lbs (0.73 kg)
Package Weight	4 lbs (1.81 kg)
Warranty	2-Year
Included Accessories	Carrying case and attachments (flat head, hook, chisel, notched head, cone head, extension rod, large hook and large V-hook)

MF Series Dimensions



Ordering Details

English Dial Model	MF-2	MF-5	MF-10	MF-20	MF-30	MF-50	MF-100
Capacity	2 lb	5 lb	10 lb	20 lb	30 lb	50 lb	100 lb
Dial Graduation	0.01 lb	0.025 lb	0.05 lb	0.1 lb	0.2 lb	0.25 lb	0.5 lb

Metric Dial Model	MF-1KG	MF-2KG	MF-3KG	MF-5KG	MF-10KG	MF-20KG	MF-30KG	MF-50KG
Capacity	1 kg	2 kg	3 kg	5 kg	10 kg	20 kg	30 kg	50 kg
Dial Graduation	0.005 kg	0.001 kg	0.02 kg	0.025 kg	0.05 kg	0.1 kg	0.2 kg	0.25 kg

Options

MF-PT100	100 lb range MF in ergonomic testing kit. Kit includes: rugged carrying case, attachments (flat head, hook, chisel, notched head, cone head, extension rod, large hook and large V-hook), padded ERGO accessories, handle adapter, NIST traceable certificate
MF-PT50KG	Same as MF-PT100 with 50 kg range MF Force Gauge
NIST-FG	NIST traceable certificate of calibration

Accessories*

F6-M6ADP-AL	Adapter kit includes: Chisel, Cone, Flat Head, Hook, Extension Rod
F6-M6CL-AL	Aluminum chisel adapter, M6 thread
F6-M6CN-AL	Aluminum cone head adapter, M6 thread
F6-M6FL-AL	Aluminum flat head adapter, M6 thread
F6-M6GV-AL	Aluminum notched head adapter, M6 thread
F6-M6HK-AL	Aluminum hook adapter, M6 thread
F6-M6RD-AL	Aluminum extension rod, M6 thread
F6-M6HKL-AL	Aluminum large hook adapter, M6 thread
F6-M6FKL-AL	Aluminum large forked V-hook adapter, M6 thread
ERGO-KIT	Padded accessory kit for ergonomic testing
MFP-HANDLE	Handle adapter for heavy loads

*Note: Additional accessory adapters available. Please contact the factory.

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Optional MFP-Handle
Ideal for Heavy Loads



MF with FGS-100H
Manually Operated Test
Stand (sold separately)

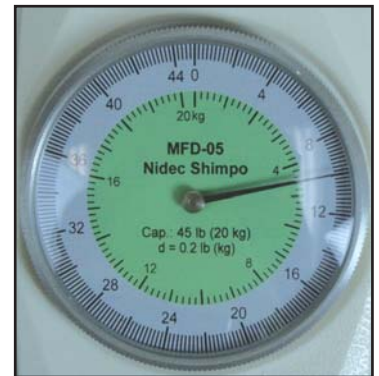
MFD Mechanical Force Gauges

MFD Series Dual Scale Mechanical Force Gauges with Peak Force Analysis

So simple anyone can use, the economical MFD mechanical force gauges with dual kg/lb scales are excellent for push/pull force testing in manufacturing, material testing, maintenance and inspection applications. The peak force operation mode features an easy push-button reset, especially helpful for repetitive testing in an assembly line or in quality control. The large dial indicator allows viewing of force changes as they occur. This large dial reduces the chance for parallax errors when taking readings. The MFD was ergonomically designed for handheld use, but may also be used with the optional handle-great for loads over 15 pounds (6.8 kg). Due to its mechanical design, response time is immediate. Calibration is achieved by a set of precisely matched springs which are overload protected. All standard Series MFD gauges include a protective carrying case, calibration certificate, plus attachment adapters.



Dual lb/kg Scale
Close-up



Features

- Dual kilogram (kg) and pound (lb) units allows flexible usage in testing to multiple standards
- Precision gauge movement provides a quick response for instantaneous analysis
- Measures Tension and Compression Forces - Only one gauge required
- Real Time Mode or Peak Mode enables flexibility to view live readings or maximum values recorded
- Smooth mechanical operation with precise action produces repetitive, proper readings
- Peak Mode Reset is ideal for repetitive peak testing applications
- Compact, light-weight, ergonomic design is perfect for handheld use
- Rear threaded inserts makes it easy to mount to test stands

MFD in Standard
Carrying Case



MFD Series Specifications

Accuracy	±1% F.S.
Display Analog	2 in. diameter (50 mm); rotatable 360° for taring purposes
Live/Peak Mode	Selectable
Needle Update	Immediate
Threaded Insert	4 on back for mounting inserts
Overload Capacity	120% of range
Product Weight	1.25 lb (0.57 kg)
Package Weight	2.2 lb (1 kg)
Warranty	1 year
Included Accessories	Carrying case and attachments (flat head, hook, chisel, notched head, cone head, extension rod), mounting screws.

Ordering Details

Model	Range Capacity	Resolution
MFD-02	4.5 lb (2 kg)	0.02 lb (0.02 kg)
MFD-03	11 lb (5 kg)	0.05 lb (0.05 kg)
MFD-04	22 lb (10 kg)	0.1 lb (0.1 kg)
MFD-05	45 lb (20 kg)	0.2 lb (0.2 kg)
MFD-06	110 lb (50 kg)	0.5 lb (0.5 kg)

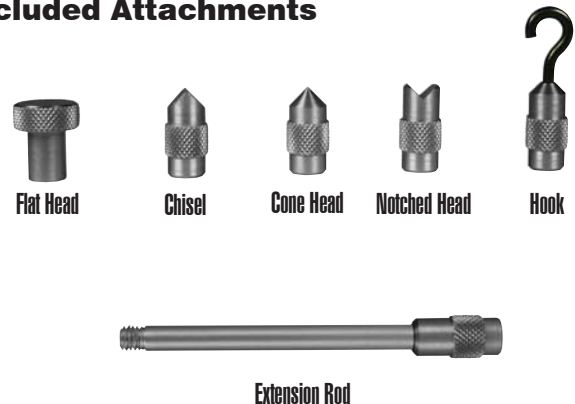
Options

NIST-FG	NIST traceable certificate of calibration
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Accessories

F6-M6ADP-AL	Adapter kit includes: Chisel, Cone, Flat Head, Hook, Extension Rod
F6-M6CL-AL	Aluminum chisel adapter, M6 thread
F6-M6CN-AL	Aluminum cone head adapter, M6 thread
F6-M6FL-AL	Aluminum flat head adapter, M6 thread
F6-M6GV-AL	Aluminum notched head adapter, M6 thread
F6-M6HK-AL	Aluminum hook adapter, M6 thread
F6-M6RD-AL	Aluminum extension rod, M6 thread
F6-M6HKL-AL	Aluminum large hook adapter, M6 thread
F6-M6FKL-AL	Aluminum large forked V-hook adapter, M6 thread
ERGO-KIT	Padded accessory kit for ergonomic testing
MFP-HANDLE	Handle adapter for heavy loads

Included Attachments



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SHIMPO

Physical Therapy Kits with Mechanical Force Gauge

For muscle strength and ergonomic force testing, the Shimpo Physical Therapy kits have just the right ingredients for the professional Physical Therapist or Ergonomist. Lightweight, rugged and simple to use, these kits are great for isokinetic testing and job task analysis. Available with mechanical force gauges in 100 lb or 50 kg capacities, these PT kits are ergonomically crafted for convenient operation.

All kits are capable of displaying peak compression, tension or real time forces. The peak force mode features an easy push-button reset; especially helpful for doing repetitive testing. The large dial indicator allows viewing of force changes as they occur and reduces the chance for parallax errors when taking readings. Due to its mechanical design, response time is immediate. Calibration is achieved by a set of precisely matched springs which are overload protected to 165 lb (75 kg). The rugged MF gauges feature a die-cast aluminum housing. These handsome kits are equipped with padded ERGO accessories, adapters and N.I.S.T. traceable certificates of calibration. Due to their features these Physical Therapy kits are ideal for ADA compliance, workplace design and ergonomic studies.



**Mechanical Force Gauge
Physical Therapy Kit**

Features

- Outstanding $\pm 0.2\%$ F.S. accuracy makes the MF's applicable even for the strictest applications
- Precision gauge movement provides a quick response for instantaneous analysis
- Real Time Mode or Peak Mode enables flexibility to view live readings or maximum values recorded
- Peak Mode Reset is ideal for repetitive peak testing applications
- Smooth mechanical operation with precise action produces repetitive, accurate readings
- Exceptionally rugged die-cast aluminum housing enables usage in harsh conditions
- Overload protected to 165 pounds (74.84 kg) protects gauge from accidental damage
- Compact, ergonomic design is perfect for handheld use
- Dial rotation enables easing taring adjustment
- All accessories and attachments required for ergonomic and therapy testing included

Specifications

	MF-PT100	MF-PT50KG
Capacity	100 lb	50 kg
Dial Graduations	0.5 lb	0.25 kg
Accuracy	+/- 0.2% F.S.	
Display	Analog dial, 2" diameter (50 mm); Rotatable 360° for taring/zeroing	
Real/Peak Mode	Selectable	
Display Update	Immediate	
Overload Capacity	165 lb	75 kg
Kit Weight	8.0 lb (3.6 kg)	
Warranty	2 year	
Kit Includes	MF Force gauge, carrying case 7 attachments (flat head, hook chisel, notched head, cone head, extension rod, large hook, large v-hook) padded ERGO accessories, handle and free N.I.S.T. traceable certificate of calibration	

Ordering Details

MF-PT100	Physical therapy kit with MF-100
MF-PT50KG	Physical therapy kit with MF-50KG

Accessories

MFP-HANDLE	Handle for MF series gauges
ERGO-KIT	Padded ergonomic testing attachments, set of 3
FG-M6CL	Chisel adapter, M6 thread
FG-M6CN	Cone head adapter, M6 thread
FG-M6FL	Flat head adapter, M6 thread
FG-M6GV	Notched head adapter, M6 thread
FG-M6HK	Hook adapter, M6 thread
FG-M6RD	Extension rod, M6 thread
FG-M6FKL	Forked hook adapter, M6 thread
FG-M6HKL	Large hook adapter, M6 thread



MF with Padded
Arm Adapter



MF with Padded
Leg Adapter

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