



BEARING & TOOL CENTRE



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Our Sister Concern : RELIEF SERVICE CENTRE

Repairs, Removal of Jaw Error, Bore Gauge Extension, Instrument Modifications & Spares

Quotation

88 | Force meter

Size	FG 5000 – 5 kg	FG 20 kg	FG 5100 – 100 kg.	FG 5020
Lutron Make Rs.	14810	16000	25950	19700
Catalog	Page No.- 3	Page No.- 6,7	Page No.- 10	Page No.- 8

88 – 1 | Force meter - Insize Make

Code – (ISF-F)		10	20	30	50	100	200	300	500	1K	2K	3K	5K
Rs.		-----	-----	-----	9692	9692	9692	9692	9692	30802	30802	36143	41484
Page No. -		12	12	12	12	12	12	12	12				
Type		A								B			
Capacity	N	10	20	30	50	100	200	300	500	1000	2000	3000	5000
	Kgf	1	2	3	5	10	20	30	50	100	200	300	500
Graduation	N	0.05	0.1	0.2	0.2	0.5	1	2	2	5	10	20	20
Accuracy		+/- 1% full scale								+/- 2% full scale			

*** Warranty – 12 Months, Certificate – No

88 – 2 | Digital Force Gauge - Insize Make

Code – (ISF-DF)	10	20	50	100	500	1000	1KA	2KA	5KA	10KA	20KA	50KA	100KA
Rs.	26556	-----	26829	26829	26829	26556	26829	66295	27241	82541	96258	-----	-----
Page No.-	13		13	13	13	13							
Type	A (Internal Sensor)						B (Internal Sensor)						
Load Capacity	10N	20N	50N	100N	200N	500N	1KN	2KN	5KN	10KN	20KN	50KN	100KN
Resolution (N)	0.005	0.01	0.01	0.05	0.1	0.1	0.5	1	1	5	10	10	50
Meas. Range	10% -100 full scale +/- 2% full scale												
Accuracy	+/- 0.5% full scale												

*** Warranty – 12 Months, Certificate – No

88 – 3 | Optional Accessory - RS232 Cable and Software | ISF-DF-CABLE | Rs. 1603

88 – 4 | Testing Stand - Insize Make

Code	ISF-MT1K
Rs.	35859
Load Capacity	1000N
Travel	200mm (3mm vertical movement per revolution of handle wheel)
Dimension	196 X 250 X 446 mm
Weight	13 kgs
Catalog	Page No. - 14

*** Warranty –12 Months, Certificate – No

Terms & Conditions –

- Goods offered - Subject to Prior Sale
- Price Validity: "15 Days from Date of Quotation"
- C.S.T 2% extra against form C. Otherwise 5% without form C For Out of Gujarat Sales only.
- VAT 5% extra for Sales within Gujarat. Prices Ex-Godown Ahmedabad.
- Payment against Proforma Invoice, Packing, Forwarding & Freight extra.
- **Bank Detail** – Kotak Mahindra Bank Ltd.
- **Branch** – Shivranjini
- **Bank IFSC Code** - KKBK 0000 810
- **Bank Account No.** 08102 00000 2689
- Note - While making payment online do mention your Company's name.
- TIN NO 24070901229 , CST No. 24570901229
- We are looking forward to your valued orders.

LUTRON MAKE

5 Kg/20 Kg **FORCE GAUGE**

Model : FG-5000A, FG-20KG

ISO-9001, CE



5 Kg full scale, Model : FG-5000A

20 Kg full scale, Model : FG-20 Kg

FEATURES

- * 5000 g, 20 KG wide capacity, high resolution, accuracy & repeatability.
- * Display unit : gram, Newton & oz.
- * Tension & compression capability .
- * Peak hold (Max. load).
- * Zero button.
- * Full capacity zero (tare) control.
- * Fast/Slow response time push button.
- * Positive or reverse direction select.
- * Full line accessories (adapters).
- * Hand held & stand mounted available.
- * Microprocessor circuit & exclusive load cell transducer.
- * Over load protection.
- * RS-232 computer interface (optional).
- * Professional test stand (optional).



Test stand, optional

Model : FS-1001



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The Art of Measurement

5 Kg FORCE GAUGE, Model : FG-5000A

FEATURES

* Wide capacity, high resolution, high accuracy, high repeatability.	* Positive or reverse display direction select.
* 3 kind display unit.	* Full line accessories (adapters) are included.
* Tension & compression capability .	* Hand held & stand mounting available.
* Peak hold (Max. load) can be held in display during make tension or compression measurement.	* Low power consumption gives long battery life.
* Zero button can operate both for normal measuring & the " peak hold " operation.	* Build in low battery indicator.
* Full capacity zero (tare) control capability.	* Microprocessor circuit & exclusive load cell transducer.
* Fast/Slow response time push button.	* Over load protection.
	* RS-232 computer interface (optional).
	* Professional test stand (optional).

SPECIFICATIONS

Display	LCD (Liquid crystal display). 5 digits, 10 mm (0.4") digit size.	Full Scale Deflection	Approx. 2.0 mm max.
Display Direction	Positive or Reverse direction, select by the push button on the front panel.	Power Supply	6 x 1.5 V AA (UM-3) size battery or DC 9V adapter (not included).
Function	Tension & Compression (Push & Pull). Normal force, Peak hold (Max. load)	Power Consumption	Approx. DC 24 mA
Peak hold	Will freeze the display value of the Peak load (Max. load).	Transducer	Exclusive load cell.
Zero	Zero button can be operated both for "normal force" or "peak hold" operation.	Operating Temperature	0°C to 50°C (32°F to 122°F).
Measure Capacity	5000 g/176.40 oz/49.03 Newton.	Operating Humidity	Less than 80% RH.
Resolution	1 g/0.05 oz/0.01 Newton.	Dimension	227 x 83 x 39 mm (8.9 x 3.3 x 1.5 inch).
Min. Display	3 g/0.10 oz/0.03 Newton.	Weight	551 g (1.2 LB)/with batteries.
Accuracy	± (0.4 % + 1 d), within 23± 5°C.	Mounting Holes	Mounting holes are provided on the back case, easy stand mounting.
Unit select	g/oz/Newton	Data output	Optional, RS-232 serial computer interface
Update time	Fast Approx. 0.2 second. Slow Approx. 0.6 second.	Accessories	Operating manual 1 PC.
Over range Indicator	Display show " - - - " when in over range status.	Included	Flat-head adapter..... 1 PC.
Overload Capacity	Max. 7 kg.		Hook adapter 1 PC.
Zero/tare Control	Max. full capacity.		Cone head adapter 1 PC.
Circuit	Exclusive microprocessor LSI-circuit.		Chisel head adapter 1 PC.
		Optional Accessories	120 mm extension rod..... 1 PC.
			Carrying case 1 PC.
			Test stand, Model : FS-1001
			Wedge grip, Model : WG-01

OPTIONAL EQUIPMENT & ACCESSORY

TEST STAND Model : FS-1001	Test stand, cooperate with Force gauge FG-20KG, FG-5000A, whole system will be become the useful tool for material's tension & compression analysis. Size : 630 x 250 x 230 mm. Weight : 7.02 Kg (15.4 LB).
Wedge grip Model : WG-01	Wedge grip, the optional accessory to install to the base of FS-1001 be used to hold the tested material.

FORCE GAUGE with RS-232 COMPUTER INTERFACE

FG-5000A-RS232	All the function are same as the FG-5000A but with RS-232 computer interface.
SW-U101-WIN	Software for data logging & data recorder.

* Appearance and specifications listed in this brochure are subject to change without notice.

0408-FG5000A

FORCE GAUGE

Model : FS-1001

ISO-9001, CE, IEC1010



FEATURES

- * Optional; test stand, be connected with FG-5000A, FG-20KG, FG-5000A-232, FG-20KG-232, whole system will be a useful tool for material's tension and compression analysis.
- * Size : 650 x 250 x 230 mm.



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20 Kg FORCE GAUGE

Model : FG-20KG

ISO-9001, CE, IEC1010



FEATURES

- * Tension & compression capability .
- * 20 Kg, wide capacity, high resolution, high accuracy, high repeatability.
- * 3 kind display unit, Kg/LB/Newton.
- * Separate sensor.
- * Peak hold (Max. load) measurement.
- * Zero button can operate both for normal & " peak hold " operation.
- * Full capacity zero (tare) capability.
- * Fast/Slow response time.
- * Positive or reverse display direction.
- * Hand held & stand mounting.
- * Microprocessor circuit & exclusive load cell transducer.
- * Over load protection.



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The Art of Measurement

20 Kg FORCE GAUGE, Model : FG-20KG

FEATURES

* Wide capacity, high resolution, high accuracy, high repeatability.	* Positive or reverse display direction select.
* 3 kind display unit.	* Full line accessories (adapters) are included.
* Tension & compression capability .	* Hand held & stand mounting available.
* Peak hold (Max. load) can be held in display during make tension or compression measurement.	* Low power consumption gives long battery life.
* Zero button can operate both for normal measuring & the " peak hold " operation.	* Build in low battery indicator.
* Full capacity zero (tare) control capability.	* Microprocessor circuit & exclusive load cell transducer.
* Fast/Slow response time push button.	* Over load protection.
	* RS-232 computer interface (optional).
	* Professional test stand (optional).

SPECIFICATIONS

Display	LCD (Liquid crystal display). 5 digits, 10 mm (0.4") digit size.	Full Scale Deflection	Approx. 2.0 mm max.
Display Direction	Positive or Reverse direction, select by the push button on the front panel.	Power Supply	6 x 1.5 V AA (UM-3) size battery or DC 9V adapter (not included).
Function	Tension & Compression (Push & Pull). Normal force, Peak hold (Max. load).	Power Consumption	Approx. DC 24 mA
Peak hold	Will freeze the display value of the Peak load (Max. load).	Transducer	Exclusive load cell.
Zero	Zero button can be operated both for "normal force" or "peak hold" operation	Operating Temperature	0°C to 50°C (32°F to 122°F).
Measure Capacity	20.00 Kg/44.10 LB/196.10 Newton.	Operating Humidity	Less than 80% RH.
Resolution	0.01 Kg/0.01 LB/0.05 Newton.	Dimension	227 x 83 x 39 mm (8.9 x 3.3 x 1.5 inch).
Min. Display	0.01 Kg/0.01 LB/0.05 Newton.	Weight	551 g (1.2 LB)/with batteries.
Accuracy	± (0.5 % + 2 d), within 23°C ± 5°C.	Mounting Holes	Mounting holes are provided on the back case, easy stand mounting.
Unit select	Kg/LB/Newton	Data output	Optional, RS-232 serial computer interface
Update time	Fast Approx. 0.2 second. Slow Approx. 0.6 second.	Accessories Included	Operating manual 1 PC. Flat-head adapter..... 1 PC. Hook adapter 1 PC. Cone head adapter 1 PC. Chisel head adapter 1 PC. 120 mm extension rod..... 1 PC. Carrying case 1 PC.
Over range Indicator	Display show " - - - - " when in over range status.		
Overload Capacity	Max. 30 kg.		
Zero/tare Control	Max. full capacity.		
Circuit	Exclusive microprocessor LSI-circuit.	Optional Accessories	Test stand, Model : FS-1001 Wedge grip, Model : WG-01

OPTIONAL EQUIPMENT & ACCESSORY

TEST STAND Model : FS-1001	Test stand, cooperate with Force gauge FG-20KG, FG-5000A, whole system will be become the useful tool for material's tension & compression analysis. Size : 630 x 250 x 230 mm. Weight : 7.02 Kg (15.4 LB).
Wedge grip Model : WG-01	Wedge grip, the optional accessory to install to the base of FS-1001 be used to hold the tested material.

FORCE GAUGE with RS-232 COMPUTER INTERFACE

FG-FG20KG-RS232	All the function are same as the FG-20KG but with RS-232 computer interface.
SW-U101-WIN	Software for data logging & data recorder.

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0408-FG20KG

FORCE GAUGE

Model : FG-5020

ISO-9001, CE, IEC1010



FEATURES

- * 20 Kg, Kg/LB/Newton.
- * Tension or Compression, Peak hold, Zero.
- * Positive/ Reverse display.
- * 5 digits LCD with back light.
- * RS-232 computer interface.
- * Full line accessories, optional test stand.
- * DC 1.5V battery (UM-3, AA) x 6 or DC 9V adapter in.



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The Art of Measurement

20 Kg x 0.01 Kg, Kg/LB/Newton, RS232

FORCE GAUGE

Model : FG-5020

FEATURES

* Large LCD display with back light.
* 20 Kg, wide capacity, high resolution, high accuracy, high repeatability.
* 3 kind display unit : g, oz, Newton.
* Tension & compression capability .
* Peak hold (Max. load) can be held in display during make tension or compression measurement.
* Zero button can operate both for normal measuring & the " peak hold " operation.
* Full capacity zero (tare) control capability.
* Fast/Slow response time push button.
* Positive or reverse display direction select.
* Full line accessories (adapters) are included.
* Hand held & stand mounted gauges are available.
* Low power consumption gives long battery life.
* Build in low battery indicator.
* Microprocessor circuit & exclusive load cell transducer.
* Over load protection.
* RS-232 computer interface.
* Built-in DC 9V power adapter input socket.
* Professional test stand (optional).

SPECIFICATIONS

Display	LCD (Liquid crystal display). 5 digits, 16 mm (0.63") digit size. Back light.
Display Direction	Positive or Reverse direction, select by the push button on the front panel.
Function	Tension & Compression (Push & Pull). Normal force, Peak hold (Max. load).
Peak hold	Will freeze the display value of the Peak load (Max. load).
Zero	Zero button can be operated both for "normal force" or "peak hold" operation
Unit select	g/oz/Newton
Measure Capacity	20.00 Kg/44.10 LB/196.10 Newton.
Resolution	0.01 Kg/0.01 LB/0.05Newton.
Min. Display	0.02 Kg/0.07 LB/0.3 Newton,
Accuracy	± (0.5 % + 2 digits), within 23± 5°C. * Under the test weight on 10 Kg & 20 Kg.

Update time	Fast Approx. 0.2 second. Slow Approx. 0.6 second.
Over range Indicator	Display show " - - - - " when in over range status.
Data output	RS-232 serial computer interface.
Overload Capacity	Max. 30 kg.
Full Scale Deflection	Approx. 0.4 mm max.
Zero/tare Control	Max. full capacity.
Circuit	Exclusive microprocessor LSI-circuit.
Power Supply	6 x 1.5 V AA (UM-3) size battery or DC 9V adapter (not included).
Power Consumption	Approx. DC 28 mA
Transducer	Exclusive load cell.
Operating Temperature	0°C to 50°C (32°F to 122°F).
Operating Humidity	Less than 80% RH.
Dimension	215 x 90 x 45 mm (8.5 x 3.5 x 1.8 inch).
Weight	650 g (1.43 LB)/with batteries.
Mounting Holes	Main instrument with mounting holes are provided on the back case, easy stand mounting.
Accessories Included	Operating manual 1 PC. Flat-head adapter.....1 PC. Hook adapter1 PC. Cone head adapter1 PC. Chisel head adapter 1 PC. 120 mm extension rod.....1 PC. Carrying case1 PC.
Optional Accessories	* Test stand, Model : FS-1001 * Wedge grip, Model : WG-01 * RS232 cable, Model : UPCB-01 * USB cable, Model : USB-01 * Software for data logging & data recorder. Model : SW-U801-WIN.

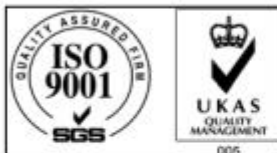
* Appearance and specifications listed in this brochure are subject to change without notice.

0601-FG5020

FORCE GAUGE *100 Kg*

Model : FG-100KG

ISO-9001, CE, IEC1010



FEATURES

- * Tension & compression capability.
- * 100 Kg, wide capacity, high resolution, high accuracy and high repeatability.
- * 3 kind display unit, Kg/LB/Newton.
- * Separate sensor.
- * Peak hold (Max. load) can be held in display during make tension or compression measurement.
- * Zero button can operate both for normal measuring & the peak hold operation.
- * Full capacity zero (tare) control.
- * Fast/Slow response time select.
- * Positive or reverse display direction select.
- * Hand held & stand mounting available.
- * Low power consumption gives long battery life.
- * Microprocessor circuit & exclusive load cell transducer.
- * Over load protection.

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The Art of Measurement

100 Kg FORCE GAUGE

Model : FG-100KG

FEATURES

* Tension & compression capability .	* Full capacity zero (tare) control capability.
* 100 Kg, wide capacity, high resolution, high accuracy, high repeatability.	* Fast/Slow response time push button.
* 3 kind display unit, Kg/LB/Newton.	* Positive or reverse display direction select.
* Separate sensor.	* Hand held & stand mounting available.
* Peak hold (Max. load) can be held in display during make tension or compression measurement.	* Low power consumption gives long battery life.
* Zero button can operate both for normal measuring & the " peak hold " operation.	* Build in low battery indicator.
	* Microprocessor circuit & exclusive load cell transducer.
	* Over load protection.

SPECIFICATIONS

Display	LCD (Liquid crystal display). 5 digits, 10 mm (0.4") digit size.	Circuit	Exclusive microprocessor LSI-circuit.
Display	Positive or Reverse direction, select by the push button on the front panel.	Sensor type	S type load cell.
Direction		Power Supply	6 x 1.5 V AA (UM-3) size battery or DC 9V adapter (not included).
Function	Tension & Compression (Push & Pull). Normal force, Peak hold (Max. load).	Power Consumption	Approx. DC 24 mA
Peak hold	Will freeze the display value of the Peak load (Max. load).	Operating Temperature	0 to 50 °C (32 to 122 °F).
Zero	Zero button can be operated both for "normal force" or "peak hold" operation	Operating Humidity	Less than 80% RH.
Unit select	Kg/LB/Newton	Dimension	<i>Main instrument :</i> 227 x 83 x 39 mm (8.9 x 3.3 x 1.5 inch). <i>Sensors with two hooks :</i> 130 x 51 x 18 mm (4.7 x 2.0 x 0.7 inch). <i>Cable length :</i> 2 meters.
Measure Capacity	100 Kg/220 LB/980 Newton.		
Resolution	0.10 Kg/0.20 LB/1.0 Newton.		
Min. Display	Kg/ LB/ Newton.		
Accuracy	± (0.5 % + 2 digits), within 23 ± 5 °C. under the test weight on 100 Kg & 10 Kg.		
Update time	Fast Approx. 0.2 second. Slow Approx. 0.6 second.	Weight	<i>Main instrument :</i> 450 g (0.99 LB). <i>Sensors</i> 380 g (0.84 LB).
Over range Indicator	Display show " - - - - " when in over range status.	Mounting Holes	Main instrument with mounting holes are provided on the back case, easy stand mounting.
Overload Capacity	Max. 150 kg.		
Sensor full Scale Deflection	Approx. 1 mm max.	Accessories Included	Operating manual 1 PC. Sensor with 2 hooks and 2 meter cable..... 1 PC. Carrying case 1 PC.
Zero/tare Control	Max. full capacity.		

* Appearance and specifications listed in this brochure are subject to change without notice.

0408-FG100KG

INSIZE MAKE

FORCE GAGE



ISF-F500

- Push and pull test
- Peak(max.) or tracking mode



flat push tip(included)



V type push tip(included)



knife-edge push tip
(included)



point push tip(included)



pull clamp(included)



extension rod(included)

SPECIFICATION

Code		ISF-F10	ISF-F20	ISF-F30	ISF-F50	ISF-F100	ISF-F200	ISF-F300	ISF-F500
Capacity	N	10	20	30	50	100	200	300	500
	kgf	1	2	3	5	10	20	30	50
Graduation	N	0.05	0.1	0.2	0.25	0.5	1	2	2.5
Accuracy		±1% (of load capacity)							

STANDARD DELIVERY

Main unit	1pc
Push tip	4pcs (flat, V type, knife-edge, point)
Pull clamp	1pc
Extension rod	1pc

DIGITAL FORCE GAGE

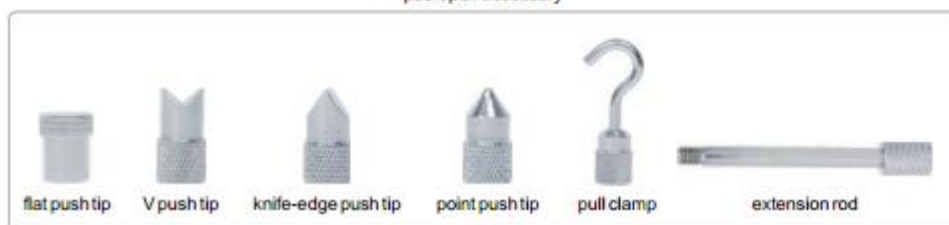
DATA
OUTPUT



ISF-1DF100

- Push and pull test
- Units: N, gf, kgf, ozf, lbf
- 500 memories
- Automatic power off
- Metal case
- LCD display with backlight, can turn 180°
- Overload alarm

push/pull accessory



printer (optional)



SPECIFICATION

Code	ISF-1DF10*	ISF-1DF50*	ISF-1DF100*	ISF-1DF500*	ISF-1DF1000*
Load capacity (N)	10	50	100	500	1000
Resolution (N)	0.01	0.01	0.1	0.1	1
Accuracy	±0.3% (of load capacity)				
Measuring mode	tracking, peak (max.), low and high limits with judgement				
Power supply	built-in rechargeable battery				
Dimension	150×73×33mm				
Weight	450g				

STANDARD DELIVERY

Main unit	1pc
AC/DC adapter	1pc
USB cable and software	1pc
Push/pull accessory	6pcs (flat push tip, V push tip, knife-edge push tip, point push tip, pull clamp, extension rod)

OPTIONAL ACCESSORY

Printer	ISF-DF-PRINTER
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* Add suffix on code No. to devote AC voltage and plug

TEST STAND FOR DIGITAL FORCE GAGE CODE ISF-MT1K

- For tensile and compress test with force gages (code ISF-1DFxx and ISF-DFxx)
- To be used in vertical and horizontal orientation



horizontal orientation test



digital scale (optional)

force gages are
not included

SPECIFICATION

Load capacity	1000N
Travel	200mm (3mm vertical movement per revolution of handwheel)
Dimension	196 x 250 x 446mm
Weight	13kg

OPTIONAL ACCESSORY

Digital scale (range: 200mm, resolution: 0.01mm/0.0005")

ISF-MT1K-SCALE

