



JUST PRO DTG series

Digital Push Pull Force Gauge

**MANY FUNCTIONS!
SIMPLE OPERATION!**

Display

- Easy-to read, large LCD display
- Display reverse function

Memory

- Memory up to 1000 data of peak and hold values
- Automatic peak measuring value record (Auto-memory function)

Connection

- Print out measuring data with connection to printer
- By setting control value of load and displacement it is possible for control the instruments
- Connectable to computer through USB output cable

Function

- Connector insert and pull-out test function, Auto power OFF function
- $\pm$ NG, OK judgments with LED display (with open collector output)
- Displacement control with connection to displacement meter
- Preset values of ON, OFF points (by connection with points of switch and Connectors etc.)

Power Source

- Ni-MH battery (environment-friendly and pollution-free battery)
- A multi AC adapter (AC100V ~ 240V) is provided for battery charger

Equipped with displacement indication and a displacement control function



Standard Accessories



Free Software



FX-1

※Download freeware from homepage

DTG-series Specifications

Measuring shaft	M6
Measuring accuracy	$\pm 0.2\%$ F.S
Measuring unit	N, kgf (gf), lb
Measuring cycle	1ms, 5ms, 16ms, 50ms (selectable)
Display renewal cycle	1, 2, 5, 10, 20 times per sec (selectable)
Communication method	USB mini B
Memory	1000 data
External input	Mitutoyo digimatic input, pulse input (displacement meter), point ON/OFF load detection input
Printer output	Serial output, Mitutoyo digimatic output
Output for test stand	Load setting/displacement setting method UP · DOWN · STOP output overload output
Analog output	$\pm 2V$ of full scale (load value only)
Tolerance judgment output	LOW · GOOD · HIGH LED lighting and output
Display	H45mm $\times$ W50mm LCD, Load: 6 digit, Displacement: 7 digit, Battery remain quantity
Dimension	H220mm $\times$ W74mm $\times$ D37mm
Weight	approx. 500g
Operation temperature	0°C ~ 40°C
Power source	Ni-MH battery, AC100V ~ 240V AC adaptor
Standard accessory	7pcs jig, a multi AC adapter, USB cable, plastic, carrying case, Operation manual, Test Certificate

List of DTG-series

Model	DTG-1	DTG-2	DTG-5	DTG-10	DTG-20	DTG-50	DTG-100
Capacity	10N 1kgf 2.205lb	20N 2kgf 4.409lb	50N 5kgf 11.02lb	100N 10kgf 22.05lb	200N 20kgf 44.09lb	500N 50kgf 110.2lb	1000N 100kgf 220.5lb
Resolution	0.001N 0.1gf 0.001lb	0.01N 1gf 0.001lb	0.01N 1gf 0.01lb	0.01N 1gf 0.01lb	0.1N 10gf 0.01lb	0.1N 10gf 0.1lb	0.1N 10gf 0.1lb

Cable (Option)

DTO-1	Analog output cable	DTO-4	External control cable
DTO-2	Stand control cable	DTO-5	Mitutoyo Digimatic input output cable
DTO-3	External control cable	DTO-6	Printer serial output cable Test stand connection cable

デジテック株式会社

Motorized Test Stands

Model-AFK-500TE / AFS-1000

In addition to mechanical switch operations, this test stand can be controlled by our digital Force gauge for stopping, returning and stroke repeating by preset of load value and displacement value as standard function.
In such case, both load value and displacement value are displayed on digital Force gauge.
This test stand also can be connected with PC, and software for data processing is also available on request.



Capacity 500N(50kgf)
Test Speed 10~200mm/min
Test Stroke 150mm
Power Supply AC100V~240V
(multi power input)
Safety measures Emergency stop button
Dimensions W220×H459×D235mm
Weight approx. 25kg



Load value and displacement value
are displayed on digital Force gauge.

Capacity 1000N(100kgf)
Test Speed 10~200mm/min
Test Stroke 250mm
Power Supply AC100V~240V
(multi power input)
Safety measures Emergency stop button
Dimensions W250×H565×D375mm
Weight approx. 45kg



Optional software MODEL : FX-10

*Jig is option

Switch Feeling Tester

Model-DTF-1 / DTF-2

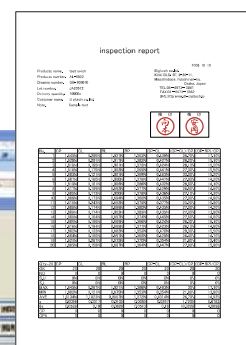
Silicon rubber • keyboard • mobile phone etc...
Switch Feeling Test.



MFF-20
※ Test stand is option

DTF-series Specifications

Measurement unit N, kgf(gf), lb
Accuracy ±0.2% F.S
Measurement To go: Peak value, bottom value, click ratio and head Return: Bottom value, peak value
Memory 500 data
Weight approx. 5kg



List of DTF-series

Model	Capacity	Resolution
DTF-1	10N, (1000gf)	0.001N, (0.1gf)
DTF-2	20N, (2kgf)	0.01N, (1gf)

This is applicable for measurement of peak value, bottom value, click ratio, head of dome switch, silicon rubber and various switches by one touch operation. Data measured is memorized with tester and can be transferred to PC through USB output cable.

Outside load cell connection model

Model-DTW-05K/DTW-2K/DTW-200K



Measuring unit N, kgf(gf), lb
Accuracy ±0.2% F.S
Measurement Peak hold, Contactpoint hold, Tracking value
Weight approx. 600g
(a sensor part is included)

Model	Capacity	Resolution
DTW-05K	5N	0.001N
DTW-2K	20N	0.01N
DTW-200K	2kN	1N

※other capacity load cells can be connected.

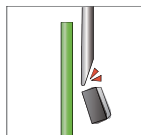
Portable Torque Gauge

Model-DTR-20/DTR-50/DTR-100

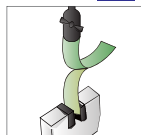


Capacity ※DTR-20 2000mNm(20kgfcm)
※DTR-50 5Nm(5kgfcm)
※DTR-100 10Nm(100kgfcm)
Resolution 1mNm(0.01kgfcm)
Measuring unit N-m, kgf-cm, lb-in
Accuracy ±0.5% F.S
Weight approx. 900g
(a sensor part is included)
Accessory 4pcs screw driver bits

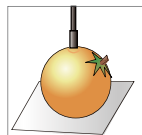
Measurement use example



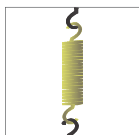
Welding/The adhesion strength measurement



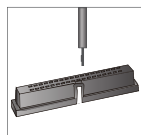
Peeling measurement



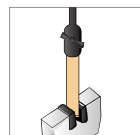
The foodstuffs measurement



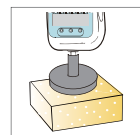
The spring measurement



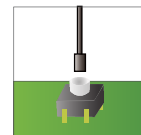
Connector insert-withdrawal measurement



A break/Pull measurement



The compression measurement



The switch measurement

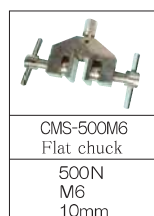
Optional jig



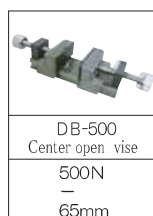
CML-500M6
Flat chuck
500N
M6
50mm



LV-20M6
L type chuck
20N
M6
15mm



CMS-500M6
Flat chuck
500N
M6
10mm



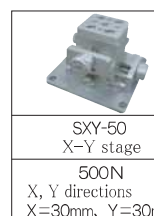
DB-500
Center open vise
500N
—
65mm



RCK-200M6
Cylinder chuck
200N
M6
Φ4



FV-50M6
Pin chuck
50N
M6
1.5mm



SXY-50
X-Y stage
500N
X, Y directions
X=30mm, Y=30mm

Maximum capacity
Mounting screw
Opening width

Optional attachment

 CML-500M6 平型チャック	 LV-20M6 L型チャック	 CMS-500M6 平型チャック	 DB-500 両開きバース	 RCK-200M6 丸棒チャック
最大荷重 500N 取付ネジ M6 メス 最大開き幅 50mm	最大荷重 20N 取付ネジ M6 メス 最大開き幅 15mm	最大荷重 500N 取付ネジ M6 メス 最大開き幅 10mm	最大荷重 500N 最大開き幅 65mm	最大荷重 200N 取付ネジ M6 メス 最大開き幅 Φ4
 FV-50M6 ピンチャック	 SXY-50 X-Yテーブル	 LXY-110 X-Yテーブル	 SPL-20-100 90度剥離治具	 MGL-500-150 3点曲げ治具
最大荷重 50N 取付ネジ M6 メス 最大開き幅 1.5mm	最大荷重 500N 移動距離 X=30mm Y=30mm	最大荷重 500N 移動距離 X=75mm Y=75mm	最大荷重 20N 取付ネジ M5×4 移動距離 100mm	最大荷重 500N 最大開き幅 150mm

アフターサービス

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