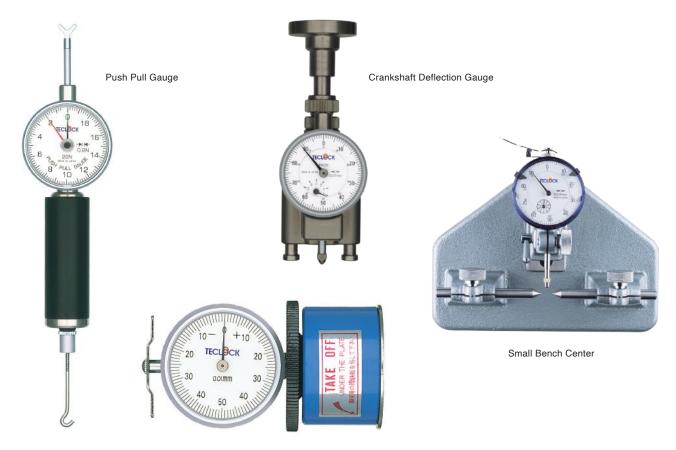
# Other Precision Measuring Instrument



Center ----- 128

Flow Meter ------ 128

Sensor Gauge Digital Type ----- 129

Sensor Gauge Dial Type ----- 129

Crankshaft Deflection Gauge with magnet

Dial Tension Gauge ----- 126

Push Pull Gauge ----- 126

Crankshaft Deflection Gauge ----- 127

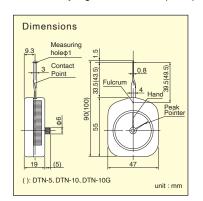
Crankshaft Deflection Gauge with magnet ----- 127

# **Dial Tension Gauge**

- · These are mechanical tension gauges displaying in Newton, which can measure precise and moment force like tensile force or compression force.
- · Miniature bearing is adopted to contact point bearing. and it can obtain stable indication accuracy.
- It can be used for the wide range of usage for contact force such as micro-switch, relay, valve, and measuring force of dial indicator, and spring force of precise spring, and pressing force of key-board.
- · There are 2 types of standard type which sustains momentary highest value, and peak pointer type .



Peak Pointer Type **DTN-100G** 





| Measuring Pressing | force | of | а | key |
|--------------------|-------|----|---|-----|
|--------------------|-------|----|---|-----|

PPN-705-3 PPN-705-5

·Peak Pointer Type

·Peak Pointer Type

### Specifications

| -        |         |            |                         |               |        |                      |
|----------|---------|------------|-------------------------|---------------|--------|----------------------|
| Туре     | Model   | Graduation | Measuring Range         | Dial Reading  | Weight | Suggested List Price |
|          | DTN-5   | 2mN(0.2gf) | 6mN(0.6gf)~50mN(5gf)    | 6-50-6        | 55     | 14,080 JPY           |
|          | DTN-10  | 5mN(0.5gf) | 10mN(1gf)~100mN(10gf)   | 10-100-10     | 55     | 10,560 JPY           |
| Standard | DTN-30  | 10mN(1gf)  | 30mN(3gf)~300mN(30gf)   | 30-300-30     | 55     | 9,570 JPY            |
| Туре     | DTN-50  | 0.02N(2gf) | 0.06N(6gf)~0.5N(50gf)   | 0.06-0.5-0.06 | 55     | 9,570 JPY            |
|          | DTN-100 | 0.05N(5gf) | 0.1N(10gf)~1N(100gf)    | 0.1-1-0.1     | 55     | 9,570 JPY            |
|          | DTN-150 | 0.05N(5gf) | 0.15N(15gf)~1.5N(150gf) | 0.15-1.5-0.15 | 55     | 9,570 JPY            |
|          | DTN-300 | 0.1N(10gf) | 0.3N(30gf)~3N(300gf)    | 0.3-3-0.3     | 55     | 9,570 JPY            |
|          | DTN-500 | 0.2N(20gf) | 0.6N(60gf)~5N(500gf)    | 0.6-5-0.6     | 55     | 14,080 JPY           |

| Туре    | Model    | Graduation | Measuring Range         | Dial Reading  | Weight | Suggested List Price |
|---------|----------|------------|-------------------------|---------------|--------|----------------------|
|         | DTN-10G  | 5mN(0.5gf) | 10mN(1gf)~100mN(10gf)   | 10-100-10     | 58     | 13,090 JPY           |
|         | DTN-30G  | 10mN(1gf)  | 30mN(3gf)~300mN(30gf)   | 30-300-30     | 58     | 12,430 JPY           |
| Peak    | DTN-50G  | 0.02N(2gf) | 0.06N(6gf)~0.5N(50gf)   | 0.06-0.5-0.06 | 58     | 12,430 JPY           |
| Pointer | DTN-100G | 0.05N(5gf) | 0.1N(10gf)~1N(100gf)    | 0.1-1-0.1     | 58     | 12,430 JPY           |
|         | DTN-150G | 0.05N(5gf) | 0.15N(15gf)v1.5N(150gf) | 0.15-1.5-0.15 | 58     | 12,430 JPY           |
|         | DTN-300G | 0.1N(10gf) | 0.3N(30gf)~3N(300gf)    | 0.3-3-0.3     | 58     | 12,430 JPY           |
|         | DTN-500G | 0.2N(20gf) | 0.6N(60gf)~5N(500gf)    | 0.6-5-0.6     | 58     | 16,720 JPY           |

\*) Indication Error ±0.5 graduation, Hysteresis ±0.2 graduation. \*) ( )value is approximate reference one.

L-Hook

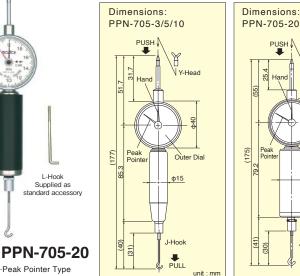
Supplied as standard accessory

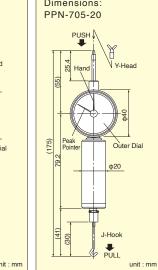
·Peak Pointer Type

**DTN-50** 

### **Push Pull Gauge**

• It is a multi-purpose dynamometer to use the Y head or L hooks.





Specifications

**PPN-705-10** 

·Peak Pointer Type

| Model      | Graduation(N) | Measuring Range(N)    | Dial Reading | Weight(g) | Suggested List Price |
|------------|---------------|-----------------------|--------------|-----------|----------------------|
| PPN-705-3  | 0.05          | 0.35(35gf)~3(300gf)   | 0.35-1.5-3   | 100       | 28,600 JPY           |
| PPN-705-5  | 0.05          | 0.4(40gf)~5(500gf)    | 0.4-2.5-5    | 100       | 28,600 JPY           |
| PPN-705-10 | 0.1           | 0.5(50gf)~10(1,000gf) | 0.5-5.0-10   | 100       | 28,600 JPY           |
| PPN-705-20 | 0.2           | 0.6(60gf)~20(2,000gf) | 0.6-10-20    | 120       | 30,250 JPY           |

\*) Indication Error ±1 graduation.
\*) ()value is approximate reference one.

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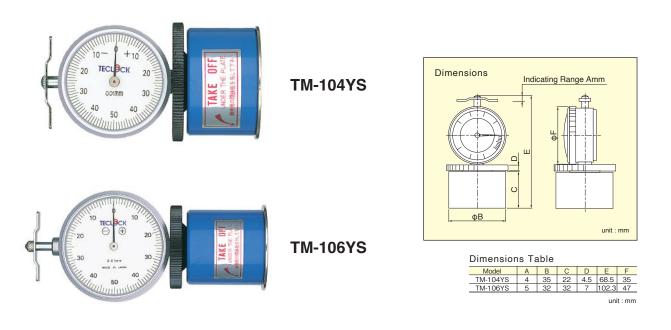
# Crankshaft Deflection Gauge / Crankshaft Deflection Gauge with magnet

| Crankshaft Deflection Gauge                                 |            |
|---|------------|
| Exclusive instrument to measure deflections of engine crank |            |
| of automobiles and ships etc.                               | Dimensions |
|   |            |

| B     | CSDG   |                |                 |         |                     | nensions<br>(31.5)<br>(31.5)<br>(31.5)<br>(31.5) | 総足<br>・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・ |
|-------|--------|----------------|-----------------|---------|---------------------|--|--|
| _ • - | Model  | Graduation(mm) | Measuring Bange | o(mm)   | Indicator Error(µm) | Weight(g)  | Suggested                                  |
|       |        | . ,            |                 | e(1111) |                     |  | LISTINCE                                   |
|       | CSDG-A | 0.01           | 100~230         |         | ±15                 | 260  | 30,250 JPY                                 |

## **Crankshaft Deflection Gauge with magnet**

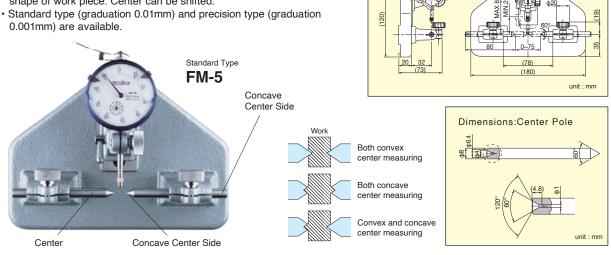
• Small type which can be fixed to measuring position by magnet.



Specifications Suggested List Price Indicating Range of Dial Graduation(mm) Dial Gauge Error(µm) Model Measuring Range(mm) Holding Power(N) Weight(g) Indicator(mm) 22,990 JPY TM-104YS 0.01 65~82 ±15 100 240 4 TM-106YS 0.01 99~113 5 ±15 100 340 24,200 JPY Small Bench Center / Flow Meter

### **Small Bench Center**

- · Suitable to measure eccentricity volume (swing) of various precision shafts, round manufactured work piece, precision gears and pinions.
- · Convex and concave of center can be easily changed according to shape of work piece. Center can be shifted.
- 0.001mm) are available.



Dimensions

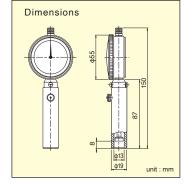
### Specifications

| Model                    | Graduation | Measuring  | Dial indicatorError | Measuring Force | Applicable  | Dimension  | Weight | Suggested  |
|--------------------------|------------|------------|---------------------|-----------------|-------------|------------|--------|------------|
| Widdei                   | (mm)       | Range (mm) | (µm)                | (N)             | Diameter    | Width      | (kg)   | List Price |
| FM-5 Standard Type       | 0.01       | 10         | ±15                 | 1.4or less      | Up to ¢60mm | Up to 60mm | 2      | 60,940 JPY |
| FM-5 High Precision Type | 0.001      | 1          | ±5                  | 1.5or less      | Up to ¢60mm | Up to 60mm | 2      | 69,080 JPY |

### **Flow Meter**

| • This is a dial indicator and jig set for the suction (expansion/ contraction) measuring. |
|--|
|--|



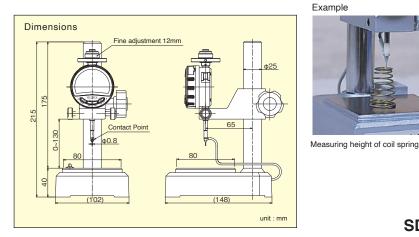


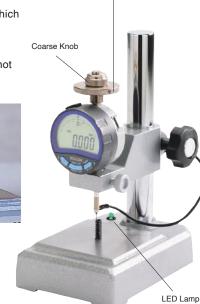
Dial Indicator

| Specifi | cations         |                      |             |              |            |        |                         |
|---------|-----------------|----------------------|-------------|--------------|------------|--------|-------------------------|
| Model   | Graduation (mm) | Measuring Range (mm) | Gauge Error | Dial Reading | Short Hand | Weight | Suggested<br>List Price |
| 716     | 0.1             | 25                   | ±60μm       | 0-5-10       | non        | 260g   | 17,710 JPY              |

# Sensor Gauge Digital Type

- Springs and pressed parts which are used for precision equipments, computer terminal and home electric goods can be measured just before their shapes are changed due to measuring force.
- If detecting contact between sensor (contact point) and work piece by energizing, it simultaneously sounds (buzzer) when LED lamp is lighting.. Then read the value which is detected.
- Micro-motion is adjusted by 12mm with upper knob.
- ${\boldsymbol \cdot}$  Work piece of maximum 150mm can be measured by using block gauge.
- As detection is implemented by energizing, work piece which is not energized can not be measured.





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Adjusting Knob

SD-465A2

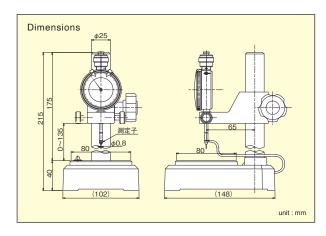
### Specifications

| Model    | Display | Resolution<br>(mm) | Indicating<br>Range(mm) | Measuring<br>Range(mm) | Gauge Error<br>(µm) | Specimen Table<br>Size(mm) | Power Supply               | Weight<br>(kg) | Suggested<br>List Price |
|----------|---------|--------------------|-------------------------|------------------------|---------------------|----------------------------|----------------------------|----------------|-------------------------|
| SD-465A2 | Digital | 0.001              | 12                      | Max. 150               | ±3                  | W80×D80                    | DC3V (AA size battery×2) * | 3.4            | 191,180 JPY             |

\* CR2032 battery for digital indicator.

### Sensor Gauge Dial Type

Micro-motion is adjusted by 10mm with upper knob.





| Speci | ficat | ions |
|-------|-------|------|
|-------|-------|------|

| Model   | Display       | Resolution<br>(mm) | Indicating<br>Range(mm) | Measuring<br>Range(mm) | Gauge Error<br>(µm) | Specimen Table<br>Size(mm) | Power Supply             | Weight<br>(kg) | Suggested<br>List Price |
|---------|---------------|--------------------|-------------------------|------------------------|---------------------|----------------------------|--------------------------|----------------|-------------------------|
| SD-101A | Dial (Analog) | 0.01               | 10                      | Max. 150               | ±15                 | W80×D80                    | DC3V (AA size battery×2) | 3.4            | 118,580 JPY             |

• Specification of minimum display 0.01mm digital type, that of dial type of its graduation 0.001mm and type without stand can be produced with treatment of special order. Please contact our branch nearby for detail.

| MEMO |
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