



**FORCE DIAL™ FDK/FDN**

**DIAL PUSH - PULL FORCE GAGE  
CAPACITIES TO 60 lbf/30 kgf/300 N**

# FORCE DIAL™

FDK/FDN

**COMPACT SIMPLICITY  
HAND-HELD UTILITY**

**\$280**

- TENSION & COMPRESSION
- CAPACITIES TO: 60 lbf/30 kgf/300 N
- DUAL GRADUATIONS
- PEAK FORCE HOLD
- ACCURATE TO  $\pm 1\%$



## CONSTRUCTION

- Large 2.25" [60mm] dial.
- Dual graduations: lbf/kgf or kgf/N.
- Plastic housing, stainless steel plunger, steel spring and brass mechanism.
- Full scale plunger deflection: 0.4" [10mm].
- Push button peak hold.
- Sheet metal screws for handle or fixture mounting.

## OPERATION

- Tension and compression from opposite ends.
- Peak readings retained - released by pushing button.
- Tension hook attached thru hole in housing.
- Pound/gram or Newton/gram on outer/inner dial.
- Verify accuracy by suspending test weights on hook.

## ACCESSORIES

- Flat compression head, tension hook, extension rod, case, and manual.

## OPTIONAL ACCESSORIES

- Stainless steel handle, 7/16" [11mm] rubber tip, pressure pad and NIST Calibration Certificate.

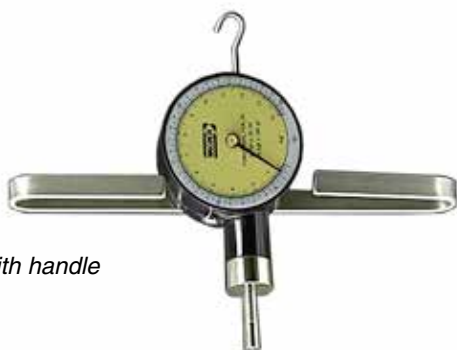
## ACCURACY

- $\pm 1\%$  (1 graduation) over 2500 gf.
- $\pm 2\%$  (2 graduations) thru 2500 gf.

The unique **FDK/FDN** is a low cost dial push-pull force gage designed for routine **hand-held force testing**. It offers the basic features - **peak force hold, dual lbf/kgf/N graduations** and **mounting holes** - for tension and compression to 60 lbf/30 kgf /300 N.

The **FDK /FDN** features **sixteen capacities** with **dual graduations** in pound/gram, ounce/gram or Newton/gram models. Optional **stainless steel handle** provides stability and comfort for higher pull force testing and **NIST Calibration Certification** is available.

For over 30 years, the Force Dial has served virtually all sectors of industrial force measurement, as well as, fruit ripeness, therapeutic pain and ergonomic testing. The simplicity, low cost and compact portability of the FDK/FDN make it possible.



FDK with handle



Prices and specifications are subject to change without notice.

**CALL US TOLL FREE 800-345-4188**

[www.wagnerinstruments.com](http://www.wagnerinstruments.com)



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# FORCE DIAL™ FDK/FDN

# SPECIFICATIONS

## ALL MODELS \$280

# FORCE DIAL™

## \$280

### FDK/FDN

#### DECIMAL POUND / GRAM MODELS

| Model  | Capacity/Graduation |          |           |        |
|--------|---------------------|----------|-----------|--------|
| FDK 2  | 2 lbf x             | 0.02 lbf | 1000 gf x | 10 gf  |
| FDK 5  | 5 lbf x             | 0.05 lbf | 2500 gf x | 25 gf  |
| FDK 10 | 10 lbf x            | 0.10 lbf | 5 kgf x   | 50 gf  |
| FDK 20 | 20 lbf x            | 0.25 lbf | 10 kgf x  | 100 gf |
| FDK 30 | 30 lbf x            | 0.25 lbf | 14 kgf x  | 100 gf |
| FDK 40 | 40 lbf x            | 0.50 lbf | 20 kgf x  | 200 gf |
| FDK 60 | 60 lbf x            | 0.50 lbf | 30 kgf x  | 250 gf |

#### OUNCE / GRAM MODELS

| Model   | Capacity/Graduation |         |           |       |
|---------|---------------------|---------|-----------|-------|
| FDK 32  | 32 ozf x            | 1/4 ozf | 1000 gf x | 10 gf |
| FDK 80  | 5 lbf x             | 1 ozf   | 2500 gf x | 25 gf |
| FDK 160 | 10 lbf x            | 2 ozf   | 5 kgf x   | 50 gf |

#### NEWTON / GRAM MODELS

| Model   | Capacity/Graduation |        |           |        |
|---------|---------------------|--------|-----------|--------|
| FDN 10  | 10 N x              | 0.1 N  | 1000 gf x | 10 gf  |
| FDN 20  | 20 N x              | 0.25 N | 2500 gf x | 25 gf  |
| FDN 50  | 50 N x              | 0.5 N  | 5 kgf x   | 50 gf  |
| FDN 100 | 100 N x             | 1 N    | 10 kgf x  | 100 gf |
| FDN 200 | 200 N x             | 2 N    | 20 kgf x  | 200 gf |
| FDN 300 | 300 N x             | 2.5 N  | 30 kgf x  | 250 gf |

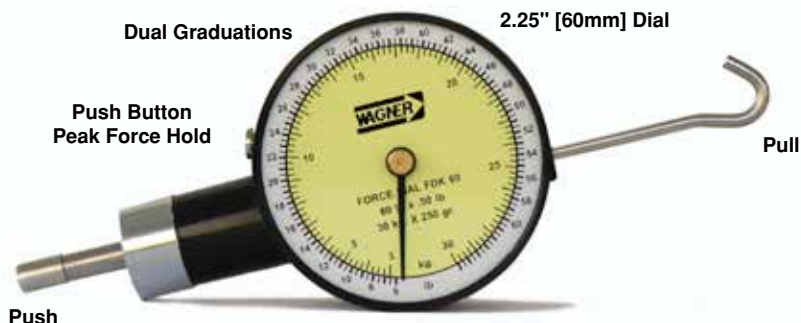
#### ACCESSORIES

| Model       | Description                      | Price |
|-------------|----------------------------------|-------|
| FDK/NIST    | NIST Calibration Certificate     | \$75* |
| FDK/RT      | 1 cm2 Rubber Tip - Replacement   | 25    |
| FDK/HDL     | Stainless Steel Handle           | 45    |
| FDK/CP58    | Compression Plate - 5/8" [16 mm] | 15    |
| FDK/M4-1032 | Converts Gage to #10-32M         | 15    |

\*NIST traceable accuracy verification - data not included.

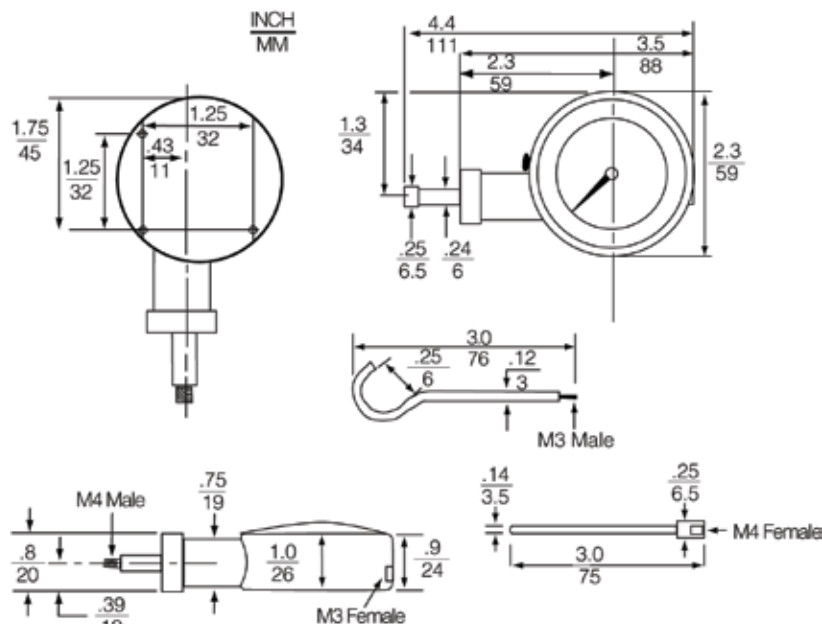
#### NOTES

- (1) Accuracy:  $\pm 2$  Graduations (thru 2500 gf)  
 $\pm 1$  Graduation (over 2500 gf)
- (2) No zero - All graduations begin at 10% of full capacity. The FDK/FDN Series is not intended for use below 10% of capacity.
- (3) All FDK and FDN include: Compression flat, tension hook, extension rod, case, and manual.



www.wagnerinstruments.com

#### DIMENSIONS



NOTE: SPECIFICATIONS, DIMENSIONS AND APPEARANCE SUBJECT TO CHANGE.



FDK with Handles



FPK Algometer

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MECHANICAL FORCE GAGE