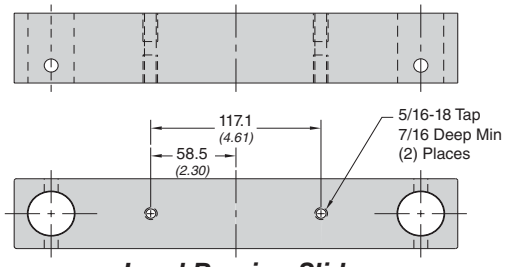
Digital Load Cell and Meter

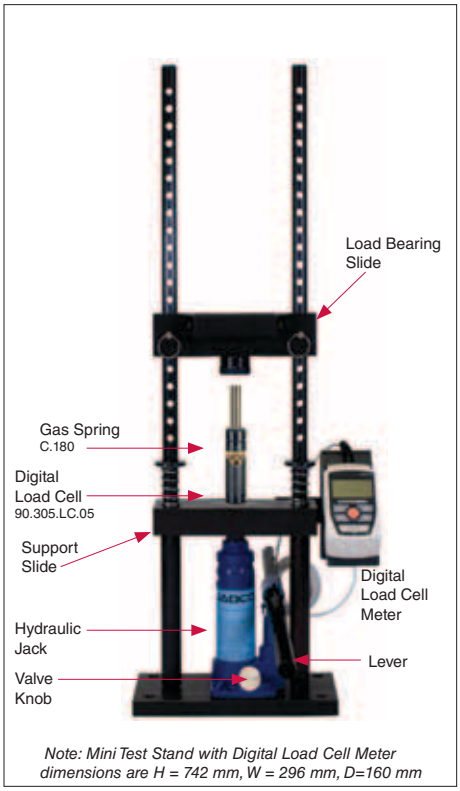
Mounting

The 90.305.LC.50A Digital Load Cell includes a mounting bracket for easy attachment to the Portable Test Stand. Newer Portable Test Stand models have tapped holes designed for attachment of this bracket. To attach the bracket to an older model Portable Test Stand, two tapped holes must be added to the load bearing slide (see drawing for dimensional information). Once the Digital Load Cell is mounted to the Portable Test Stand it is ready to be operated.
The 90.305.LC.05A Digital Load Cell sits on the support slide and does not need to be mounted.



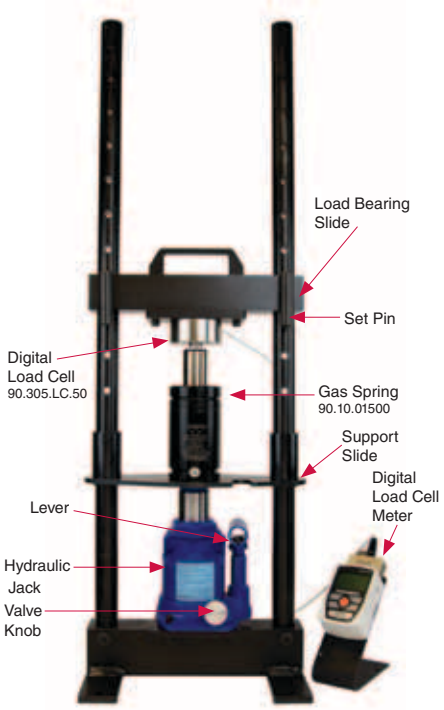
Load Bearing Slide

90.305.2D
Digital Load Cell and Meter integrated with Mini Test Stand



Note: Mini Test Stand with Digital Load Cell Meter dimensions are H = 742 mm, W = 296 mm, D=160 mm

90.305.LC.50A / Digital Load Cell
90.305.BGA / Digital Load Cell Meter
90.305.3 / Portable Test Stand
(All sold separately)



Note: Portable Test Stand dimensions are H= 954 mm, W= 305 mm, D= 227 mm

90.305.LC.05A / Digital Load Cell
90.305.BGA / Digital Load Cell Meter
90.305.3 / Portable Test Stand
(All sold separately)

Micro Series Nitrogen Gas Springs

Ultra Force® /Mini Series Nitrogen Gas Springs

Flip the 90.305.LC.05A Load Cell to switch between measuring Micro Series and **Ultra Force®** / Mini Series Nitrogen Gas Springs.

Operation

1. Press the orange POWER button to turn the unit on and off.
2. Pressing the MENU button then scrolling to UNITS and selecting ENTER will change the unit readout to lbf, kgf or N.
3. Pressing the ZERO button “tares” or zeros the meter when there is no force on it.
4. Release the jack to its lowest position by opening the release valve slowly (counterclockwise) using the Valve Knob.
5. Remove the set pins and clear the load bearing slide to accommodate the gas spring.
6. Center the gas spring on the support slide. The 90.305.LC.50A load cell impacts the gas spring from the rod end. For the 90.305.LC.05A load cell the gas spring sits on top of the load cell and impact occurs from the can end.
7. Lower the load bearing slide to the last height adjustment position above the gas spring and reinsert the set pins.
8. Close the release valve on the jack by turning it clockwise using the Value Knob.
9. Hand pump the jack until the spring and load cell are fully loaded (compress no more than 2 mm (1/16") for accurate reading).
10. Again, using the lever, open the release valve on the jack to lower the support slide and remove the gas spring.
11. Turn the Digital Load Cell Meter off.

Digital Load Cell and Meter

This bulletin provides instruction on how to use the digital load cells and meters. The Digital Load Cell Meter displays the **force value** of the load cell attached to it. When used with DADCO's Portable Test Stand, Mini Test Stand or a standard arbor press, the Digital Load Cell gives precise measurement of gas spring force value. The Digital Load Cell displays force in the following units: **kN, kg, or lb.** For more information contact DADCO.

Digital Load Cell and Meter 90.305.LC.05A / 90.305.BGA

DADCO offers the 90.305.LC.05A Digital Load Cell in conjunction with the 90.305.BGA Digital Load Cell Meter for use with the Micro / **Ultra Force**® / Mini Nitrogen Gas Springs with force rating up to 5,000 lb (22.2 kN). DADCO recommends using this load cell and meter with the Mini Test Stand. Both parts are supplied with the 90.205.2D when purchased.

90.305.LC.05A
Digital Load Cell

90.305.BGA
Digital Load Cell Meter

Digital Load Cell and Meter 90.305.LC.50A/ 90.305.BGA

DADCO offers the 90.305.LC.50A Digital Load Cell in conjunction with the 90.305.BGA Digital Load Cell Meter for use with Compact/Large Nitrogen Gas Springs with force ratings up to 50,000 lb (222 kN). This load cell and meter can only be used with DADCO's 90.305.3 Test Stand.

90.305.LC.50A
Digital Load Cell

90.305.BGA
Digital Load Cell Meter

General Information

- The Digital Load Cell Meter operates with a rechargeable battery. An AC Adapter is also included.
- Five digit display.
- Size Specific Information:
    - 90.305.LC.05A - 5,000 lb. (22.2 kN) capacity - do not exceed
    - 90.305.LC.50A - 50,000 lb. (222 kN) capacity - do not exceed
- Portable Test Stand capacity = 17,000 lb. (75 kN) - do not exceed
- Mini Test Stand capacity = 4,000 lb. (18 kN) - do not exceed
- Do not drop or impact the Digital Load Cell
- Return the Digital Load Cell to DADCO for calibration or verification

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