

# FGS-X100L Manual, Lever Operated Horizontal Test Stand

## Operation Manual

**Nidec**



### Warning

*Do not modify, disassemble or attempt to repair the unit.*

*If upon delivery damage to the unit is detected, do not operate the unit.*

*Notify the shipping carrier immediately to obtain damage claim instructions.*

*Only measure forces that are in line with the measuring shaft. Do not attempt to take any measurements at any angle. Failure to keep measurements in line will damage the instrument.*

*Ensure operation is performed on a level surface.*

*If applying large loads, ensure test stand does not move during testing.*

*For details on the force gauge, refer to the force gauge operation manual for each model.*



The FGS-X100L Lever Operated Test Stand with compact, robust housing and consistent motion enables repeatable tension testing. The FGS-X100L is designed specifically for wire connection terminal force pull tests. When combined with a digital or mechanical force gauge, the testing of various wire harnesses and connection terminals for the electrical quality inspection is easily achieved. These units may be used to test various styles of wire, cable, cord, film, thread, rubber, tape, fabric, twine, paper and various other materials to their maximum tension failure threshold.

### SPECIFICATIONS

**Capacity:** 112 lb (50 kg)

**Travel:** 2" (52 mm)

**Maximum Clamp Width:** 5/8" (15 mm)

**Weight:** 18.6 lb (8.4 kg)

**Dimensions:** 17.7 x 10.2 x 6.3" (450 x 260 x 160 mm)

**Included Accessories:** Large teeth tension grip mounted to stand, hex wrench, 4 M4 Gauge mounting plate screws.



FGS-X100L shown with digital force gauge and connected grip.



FGS-X100L shown with digital force gauge and connected grip with optional FG-WTG-X100L wire turret.

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### Set-Up Summary for Lever Test Stand

1. Remove the gauge mounting bracket from the test stand by loosening and removing the 4-M3 allen-head bolts.
2. Use the mounting hole spacing of either 40 x75 mm or 30 x 145 mm to install the compatible gauge.
3. Re-install the gauge mounting bracket with the mounted force gauge onto the test stand.
4. Install threaded lever handle into female threaded opening on side of the stand.
4. Carefully check travel of the stand.
6. Testing may now begin with the force gauge and test stand.

See Measuring Procedure.

### Measuring Procedure

Install the stand body on a level, solid table.

Put one end of the test specimen into the large teeth of the grip and tighten with angled tightening lever until specimen is completely secure.

During measurement, operate the handle lever at a constant speed as smoothly as possible. If the lever operation speed is rapidly changed, accurate measurement cannot be performed.

If applying large loads, secure test stand on a flat surface.

For details on the force gauge, refer to the force gauge operation manual for each model

