Automatic Hardness Check

- Gibitre produces Hardness testers according to Shore (A, D, 00) and IRHD (Normal, Hard, Low, Micro)
- Gibitre is accredited according to ISO 17025 standard for Hardness testers calibration

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- Single Units and Multi-unit instruments are produced.
- The instruments can be controlled both with software or electronic console.

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- Single units can be connected to the same pc using serial or usb ports.
- More units can be used at the same time and all the data are stored in the same database.

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- The multi-unit configuration permits to install up to 4 selected types of shore or irhd hardness units.
- The unit to be used is placed in the front position and is automatically recognized by the software.

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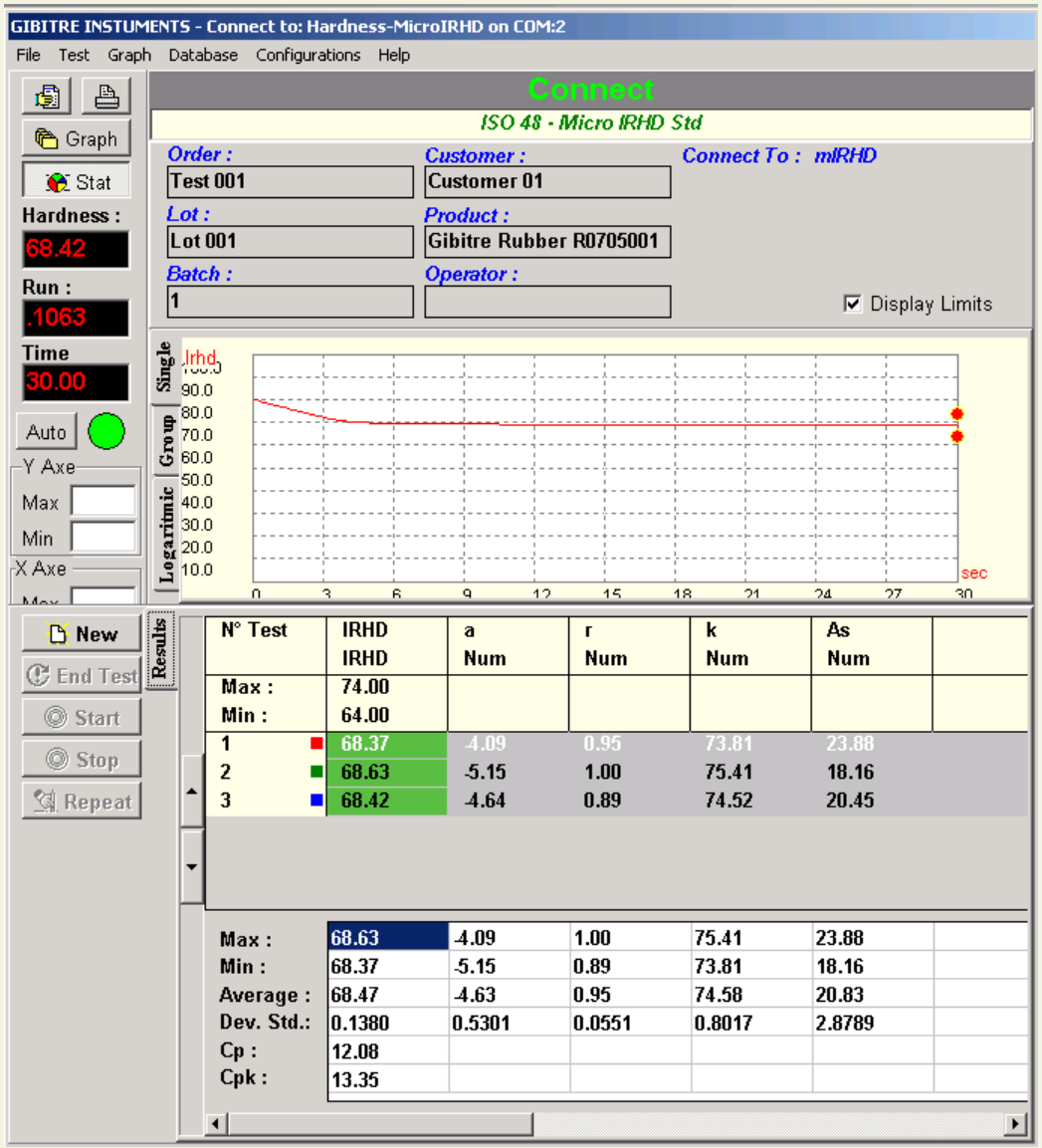
The hardness units produced by Gibitre have some unique features:

The sample holder moves automatically up and down and rotates to permit the automatic performance of tests in different points of the sample.

- The sample holder is connected to a ball-recirculation screw to ensure long duration of the lifting system.
- The IRHD units (Normal, Hard, Low and Micro) apply the pre-load and load force to the sample using a load cell.

Hardness Check Software

- Automatic execution of tests in different points of the sample
- Analysis of hardness relaxation and Hardness Hysteresis (IRHD)
- Automatic comparison with tolerance limits



Diaphragm centering device for O-rings

- The device is used in combination with the Micrometric Slide (code 8-HS0-44-000-0) and enables automatic multiple tests to be carried out on O-ring or round parts with external diameter up to 75 mm.
- The use is very simple:
- 1) set on the manual gauge-meter of the sliding system the dimension of the o-ring to be tested (internal diameter + cord)/2 to centre it correctly.
- 2) put the o-ring on the Diaphragm centring and fix the o-ring slightly using the open-close leverage
- 3) Start a multiple test session to make automatically tests in different points of the sample.

- When you test different o-rings of the same kind, no regulation is required between one o-ring and the next one
- The distance between the plate and the diaphragm can be regulated according to the cross-section of the o-ring.
- The Y axe position is automatically centred due to the mechanical construction of the instrument

Microcylinder centering device for O-rings

- The device is designed for the quick centring of O-rings or cylindrical parts independently from the diameter. This device permits to make one test on the sample and requires manual re-positioning of the sample between one tests and the next.
- This device is mounted directly on the standard plate of the instrument.
- The use is very simple:
- 1) the sample is placed between the vertical micro-cylinders.
- 2) The position of the micro-cylinders is regulated using the handle to fix the sample in the middle.
- 3) The middle position of the micro-cylinders is the correct centring point for the test.

- The height of the micro-cylinder can be regulated using the regulation ring according to the cross-section of the sample.
- The Y axe position is automatically centred due to the mechanical construction of the instrument

Centering device for tubes

- **The device positions a piece of tubing for testing.**
- **Note: this device permits to make one test on the sample and requires manual re-positioning of the sample between one tests and the next.**

Extension of sample holder

- **Aluminium extension to be applied to the sample holder for the testing of hardness of big samples.**

Laser Centring Device

The device includes:

- **- Class 1 laser Sensor that detects the maximum thickness point of the part being tested**
- **- Motor-controlled slide that moves the sample to perform the test in the optimum test position.**
- **For the performance of the test the user must simply place the sample on the sample holder in the test area and press start.**

The instrument:

- **- finds automatically the optimum test point of the sample**
- **- measures the thickness of the sample in the test point.**
- **- moves the sample in the test position**
- **- performs the hardness test in the optimum test point**
- **- moves back to the start point to prepare for the next test.**