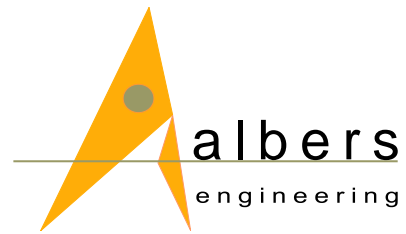


# Hydraulic Grease Tester

HGT - 400 - 51813



**Hydraulic Grease Tester HGT-400-51813**

(The actual appearance of the Instrument may differ slightly from the illustration)

## Description

The Hydraulic Grease Tester HGT-400-51813 is used to measure the compressibility of grease at pressures up to 400 bar (5800 psi). The required pressure is generated by means of an electrically driven hydraulic pump and then intensified and transferred via a hydraulic cylinder into the test cylinder. The data measured by a highly accurate position measuring system and a precision pressure transducer can be displayed numerically and graphically on a PC with the supplied software. The operation of the testing machine is controlled by a PLC. By optionally available upgrade components, it is also possible to perform flow pressure tests and test lubricants according to DIN 51813 determination of solid impurities).

## Technical data

Operating pressure:	Up to 250 bar (3625 psi)
Testing pressure:	Up to 400 bar (5800 psi)
Sample volume:	Up to 500 ml
Voltage:	230 V / 50 Hz
Weight:	ca. 120 kg
Dimensions (ca.)	1200mm x 600mm x 750mm (WxDxH)

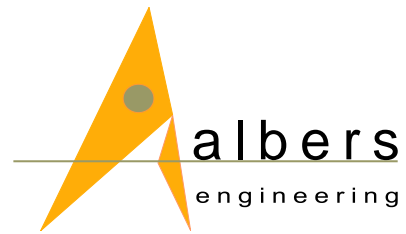
USA & CANADA Distributor



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# Hydraulic Grease Tester

HGT - 400 - 51813



## Features

- Measurement of compressibility with detection of the relaxation of the grease by means of high-precision distance measuring system and pressure transducers
- adjustable pressure generation (Pressure and flow rate)
- Controlled by PLC with graphical interface
- electronic data acquisition
- Analysis and display of measurement data using the supplied PC software
- Automated pneumatic filling procedure. The filling is done by default from a 1 kg container. Larger containers up to 5 kg are optional.
- adjustable filling volume
- Possibilities to test long-term effects on compressed greases
- Possibility of expansion for pressure flow studies
- Possibility of expansion for tests according to DIN 51813 (determination of solid impurities).

## Components

- Hydraulic unit with controllable drive for generating the operating pressure
- Pressure gauge 0-400 bar
- Hydraulic cylinder 200 mm stroke, max. pressure 300 bar
- Distance measurement, 0-10V, accuracy 1µm
- Pressure transducer 0-1000 bar, < 0,1%, adjustable range, 0-10 V
- Test cylinder, test piston and test flange
- Control panel with PLC and pressure gauges
- PC software for analysis and display of measurement data
- Pneumatic filling device suitable for 1 kg Containers.

## Options

- Expansion for pressure flow studies consisting of:
  - pipe (Diameter and length by arrangement)
  - Pressure transducers (Number by arrangement)
  - Adapter for connection to the grease tester
- expansion for tests according to DIN 51813 consisting of:
  - test and support sieves according DIN 51813
  - sieve support
  - Adapter for connection to the grease tester

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