

## Deflection Indicator



### **Crankshaft Alignment**

The Leutert Deflection Indicator allows easy and fast measurement of crankshaft deflection and cylinder liner ovality.

## Deflection Measurement

Most engineers are familiar with the importance of regular checks on Diesel engine crankshafts and cylinder liner. The old dial gauge for crankshaft alignment checks were time-consuming, unpleasant, dirty and gave uncertain accuracy. By using Leutert's electronic Deflection Indicator DI-5 series the task will be much easier and the accuracy will be improved. As an option to the instrument you can connect the ovality kit to check the cylinder liner ovality and wear comparison.

The Deflection Indicator DI-5 series has been used by large numbers of engineers in over 90 countries worldwide. Our customers are Diesel engine manufacturers who equip their engines with an instrument for the service program, service companies and shipping companies.



## Crankshaft Measurement

Four push buttons on the DI-5C panel are used to select, change and accept values on the display such as temperature, engine number, number of cylinders, measurement direction and so on. Just push the OK button to store the value.

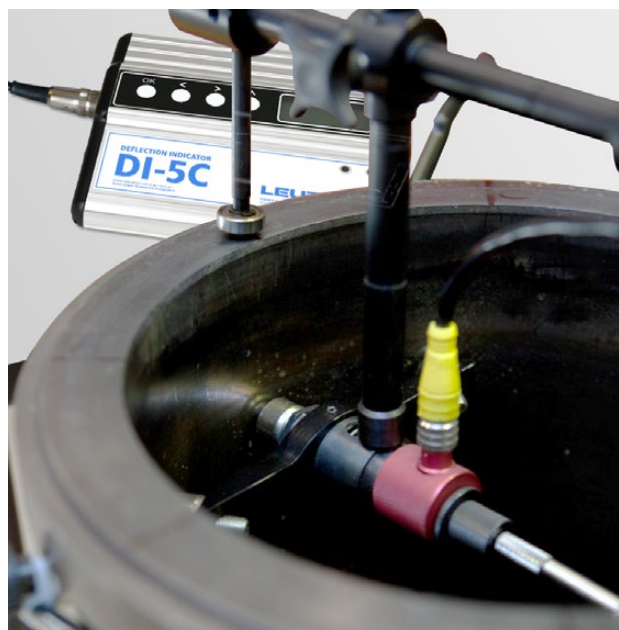
On completion of the first cylinder, move the transducer to the next cylinder and store measurement values. The generous measurement range allows the transducer to be moved between cylinders without mechanical adjustment. When all cylinders are completed soft copy can be downloaded to a PC for reference and future comparisons.

## Features

- A pleasant and clean operation comparing to use the old dial gauge.
- Smooth mounting, reliable and easy to use
- Large measuring distance with different kind of transducers.
- Measure deflections at extreme precision
- Rechargeable battery operated for portable use
- Battery indicator
- Backlight function
- Easy to reset
- Turns off automatically after 45 min. of inactivity
- Storing up to 45 measurements internally (DI-5C only)
- Download measurements to your computer via USB connection to store, track, print and compare your engine wear (DI-5C only).
- Export as Excel (DI-5C only)

## Ovality Kit

The ovality kit is designed principally to measure cylinder liner wear and ovality. However, the device can be modified to take measurements from various applications according to your own requirements. The standard kit contains equipment to measure cylinder liners with diameters of 180-600 mm and stroke up to 870 mm.



## Technical Specifications

Storage & transfer to PC	DI-5 no; DI-5C yes	
Measuring distance	89 to 565 mm DI-5(C)	60 to 536 mm DI-5(C) small
Measuring range	± 2.048 mm DI-5(C)	± 1.048 mm DI-5(C) small
Resolution	0.001 mm	
Zero balance range	± 2.048 mm DI-5(C)	± 1.048 mm DI-5(C) small
Zero drift	0.001 mm / 5 minutes	
Operating temperature		
Instrument	0°C to 55°C (32°F to 130°F)	
Transducer	0°C to 80°C (32°F to 175°F)	
Battery	3.6 V Lithium Ion, rechargeable	
Battery life	10 hours / charge, shelf life 5 years	
Extension bars	10, 20, 40, 80 and 2 x 160 mm	
Cable length	7 m	
Gross weight	4 kg	
Dimensions		
Instrument	190 mm x 167 mm x 50 mm	
Transducer	Ø 31 mm x 81 mm DI-5(C)	Ø 22 mm x 56 mm DI-5(C) small
Case	300 mm x 280 mm x 140 mm	

## Analyzing Software

The DI-5C will download your measured data to a PC using standard USB interface. The software is compatible with Windows up to version Windows 8, 32/64 bit.

The software also handles the measurements taken with the ovality kit. By this, you can transfer ovality data to your PC to evaluate and compare, all with graphs and printouts, and more over the measured data can be exported to Excel by installing DI-5C software.

Connecting cable, user information and program disc are supplied with the instrument.



