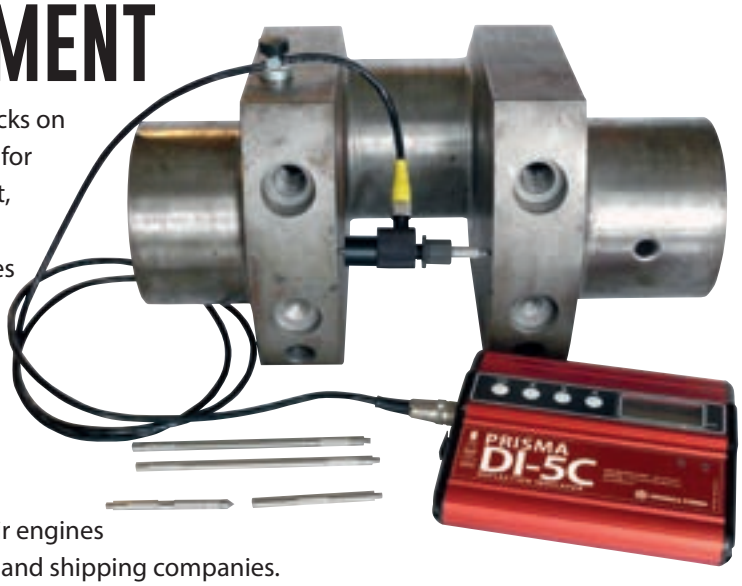
# Prisma DI

## DEFLECTION INDICATOR
## CRANKSHAFT MEASUREMENT


PRISMA TIBRO
SWEDEN

# Prisma DI

## DEFLECTION MEASUREMENT



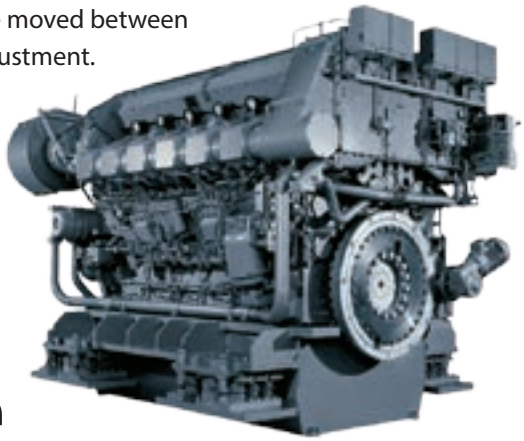

Most engineers are familiar with the importance of regular checks on diesel engine crankshafts and cylinder liner. The old dial gauge for crankshaft alignment checks were time-consuming, unpleasant, dirty and gave uncertain accuracy.
By using Prisma Tibro's electronic Deflection Indicator DI-5 series 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.



## HARD FACTS

- A pleasant and clean operation comparing to use the old dial gauge.
- Rechargeable battery operated for portable use
- Download measurements to your computer to store, track, print and compare your engine wear.
- Large measuring distance 60–574 mm, with different kind of transducers.
- Measure deflections at the extreme precision of 0,001mm
- USB connection to PC

XLS

Export to Excel from Prisma DI-5C


# 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.

The supplied software with the deflection indicator Prisma DI-5C 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 Prisma DI-5C software.

# Prisma DI

# ANALYZE DATA ON YOUR COMPUTER

The supplied software with the deflection indicator Prisma DI-5C 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 Prisma DI-5C Software.

# EXPORT TO EXCEL

More info on website: prismatibro.se
Search for "Export to Excel".

# MAIN PAGE

| MAIN PAGE | | | | | | |
|---|---|---|---|---|---|---|
| Document Number | 14150417 | Install number | | | | |
| Ship / Name / Plant | | Crankshaft Ident. | | | | |
| | | | | | | |
| Engine Type | Main Engine | Measuring direction | Clockwise | | | |
| Engine NR | 10 | Cylinders in total | 4 | | | |
| | | | | | | |
| ENGINE CONNECTED TO | | ENGINE INSTALLED ON | | TEMPERATURES | | DRAFT |
| Water Brake | No | Steel Chocks | No | Engine Condition | Warm | Fore |
| Alternator | No | Chockfast | No | Ambient | 40 | Aft |
| Gear | No | Rubber Cushions | No | Lubricating Oil | 70 | Trim |
| Other | No | | | HT Cooling Water | 80 | |
| Free End PTO | No | CLUTCH | | | | Bore/Stroke |
| | | | | | | Running Hours |
| Place | | | | | | Time between stop and indicating |
| Name | | | | | | Engine running continuosly before indicating |
| Date | 150417 | | | | | |
| | | | | | | |
| Remarks | | | | | | |

# SINGLE PAGE

| SINGLE PAGE | | | LEVEL 1 | LEVEL 2 | LEVEL 3 | LEVEL 4 | LEVEL 5 | LEVEL 6 | LEVEL 7 | LEVEL 8 | LEVEL 9 | LEVEL 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Document Number | 14150417 | Pos A | 0,029 | 0,015 | - 0,173 | - 0,005 | 0,029 | 0,015 | - 0,173 | - 0,005 | 0,029 | 0,01 |
| Name / Ship / Plant | | Pos B | 0,028 | 0,031 | - 0,111 | - 0,027 | 0,028 | 0,031 | - 0,111 | - 0,027 | 0,028 | 0,03 |
| Engine Nr | 10 | Pos C | - 0,015 | 0,030 | 0,078 | - 0,056 | - 0,015 | 0,030 | 0,078 | - 0,056 | - 0,015 | 0,03 |
| Engine Type | Main Engine | Pos D | - 0,023 | - 0,044 | - 0,036 | - 0,039 | - 0,023 | - 0,044 | - 0,036 | - 0,039 | - 0,023 | - 0,04 |
| Cylinders In Total | 4 | Pos E | - 0,013 | 0,119 | - 0,122 | - 0,015 | - 0,013 | 0,119 | - 0,122 | - 0,015 | - 0,013 | 0,11 |
| Limit Value | 0,500 | Max Deflection | **0,052** | **0,052** | **0,052** | **0,052** | **0,052** | **0,052** | **0,052** | **0,052** | **0,052** | **0,05** |

| SINGLE PAGE | | | LEVEL 13 | LEVEL 14 | LEVEL 15 | LEVEL 16 | LEVEL 17 | LEVEL 18 | LEVEL 19 | LEVEL 20 | LEVEL 21 | LEVEL 22 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Document Number | 14150417 | Pos A | 0,029 | 0,015 | - 0,173 | - 0,005 | 0,029 | 0,015 | - 0,173 | - 0,005 | 0,029 | 0,01 |
| Name / Ship / Plant | | Pos B | 0,028 | 0,031 | - 0,111 | - 0,027 | 0,028 | 0,031 | - 0,111 | - 0,027 | 0,028 | 0,03 |
| Engine Nr | 10 | Pos C | - 0,015 | 0,030 | 0,078 | - 0,056 | - 0,015 | 0,030 | 0,078 | - 0,056 | - 0,015 | 0,03 |
| Engine Type | Main Engine | Pos D | - 0,023 | - 0,044 | - 0,036 | - 0,039 | - 0,023 | - 0,044 | - 0,036 | - 0,039 | - 0,023 | - 0,04 |
| Cylinders In Total | 4 | Pos E | - 0,013 | 0,119 | - 0,122 | - 0,015 | - 0,013 | 0,119 | - 0,122 | - 0,015 | - 0,013 | 0,11 |
| Limit Value | 0,500 | Max Deflection | **0,052** | **0,052** | **0,052** | **0,052** | **0,052** | **0,052** | **0,052** | **0,052** | **0,052** | **0,05** |

# COMPARE PAGE

| COMPARE PAGE | | | | LEVEL 1 | | LEVEL 2 | | LEVEL 3 | | LEVEL 4 | | LEVEL 5 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DOC 1 | DOC 2 | | DOC 1 | DOC 2 | DOC 1 | DOC 2 | DOC 1 | DOC 2 | DOC 1 | DOC 2 | DOC 1 | DOC |
| Document Number | 14150417 | 14150418 | Pos A | 0,029 | 0,015 | - 0,173 | - 0,005 | 0,029 | 0,015 | - 0,173 | - 0,005 | 0,029 | 0,0 |
| Name / Ship / Plant | | | Pos B | 0,028 | 0,031 | - 0,111 | - 0,027 | 0,028 | 0,031 | - 0,111 | - 0,027 | 0,028 | 0,0 |
| Engine Nr | 10 | 12 | Pos C | - 0,015 | 0,030 | 0,078 | - 0,056 | - 0,015 | 0,030 | 0,078 | - 0,056 | - 0,015 | 0,0 |
| Engine Type | Main Engine | Main Engine | Pos D | - 0,023 | - 0,044 | - 0,036 | - 0,039 | - 0,023 | - 0,044 | - 0,036 | - 0,039 | - 0,023 | - 0,0 |
| Cylinders In Total | 4 | 4 | Pos E | - 0,013 | 0,119 | - 0,122 | - 0,015 | - 0,013 | 0,119 | - 0,122 | - 0,015 | - 0,013 | 0,1 |
| Limit Value | 0,500 | 0,500 | Max Deflection | **0,052** | **0,052** | **0,052** | **0,052** | **0,052** | **0,052** | **0,052** | **0,052** | **0,052** | **0,0** |

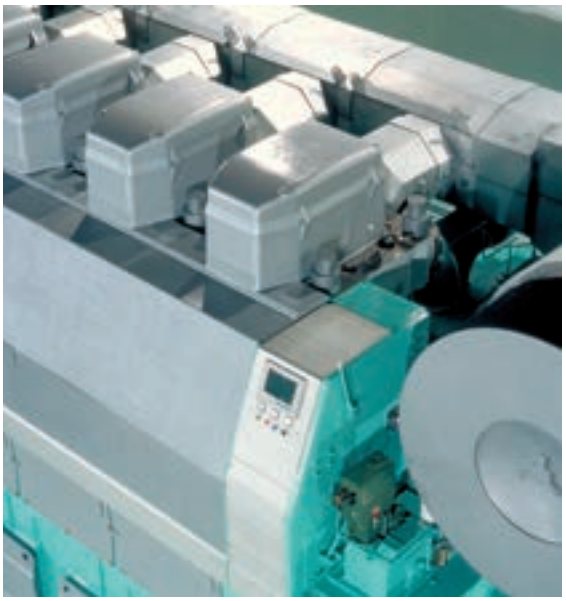
| COMPARE PAGE | | | | LEVEL 7 | | LEVEL 8 | | LEVEL 9 | | LEVEL 10 | | LEVEL 11 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DOC 1 | DOC 2 | | DOC 1 | DOC 2 | DOC 1 | DOC 2 | DOC 1 | DOC 2 | DOC 1 | DOC 2 | DOC 1 | DOC |
| Document Number | 14150417 | 14150418 | Pos A | 0,029 | 0,015 | - 0,173 | - 0,005 | 0,029 | 0,015 | - 0,173 | - 0,005 | 0,029 | 0,0 |
| Name / Ship / Plant | | | Pos B | 0,028 | 0,031 | - 0,111 | - 0,027 | 0,028 | 0,031 | - 0,111 | - 0,027 | 0,028 | 0,0 |
| Engine Nr | 10 | 12 | Pos C | - 0,015 | 0,030 | 0,078 | - 0,056 | - 0,015 | 0,030 | 0,078 | - 0,056 | - 0,015 | 0,0 |
| Engine Type | Main Engine | Main Engine | Pos D | - 0,023 | - 0,044 | - 0,036 | - 0,039 | - 0,023 | - 0,044 | - 0,036 | - 0,039 | - 0,023 | - 0,0 |
| Cylinders In Total | 4 | 4 | Pos E | - 0,013 | 0,119 | - 0,122 | - 0,015 | - 0,013 | 0,119 | - 0,122 | - 0,015 | - 0,013 | 0,1 |
| Limit Value | 0,500 | 0,500 | Max Deflection | **0,052** | **0,052** | **0,052** | **0,052** | **0,052** | **0,052** | **0,052** | **0,052** | **0,052** | **0,0** |

# Prisma DI

PRODUCT RANGE

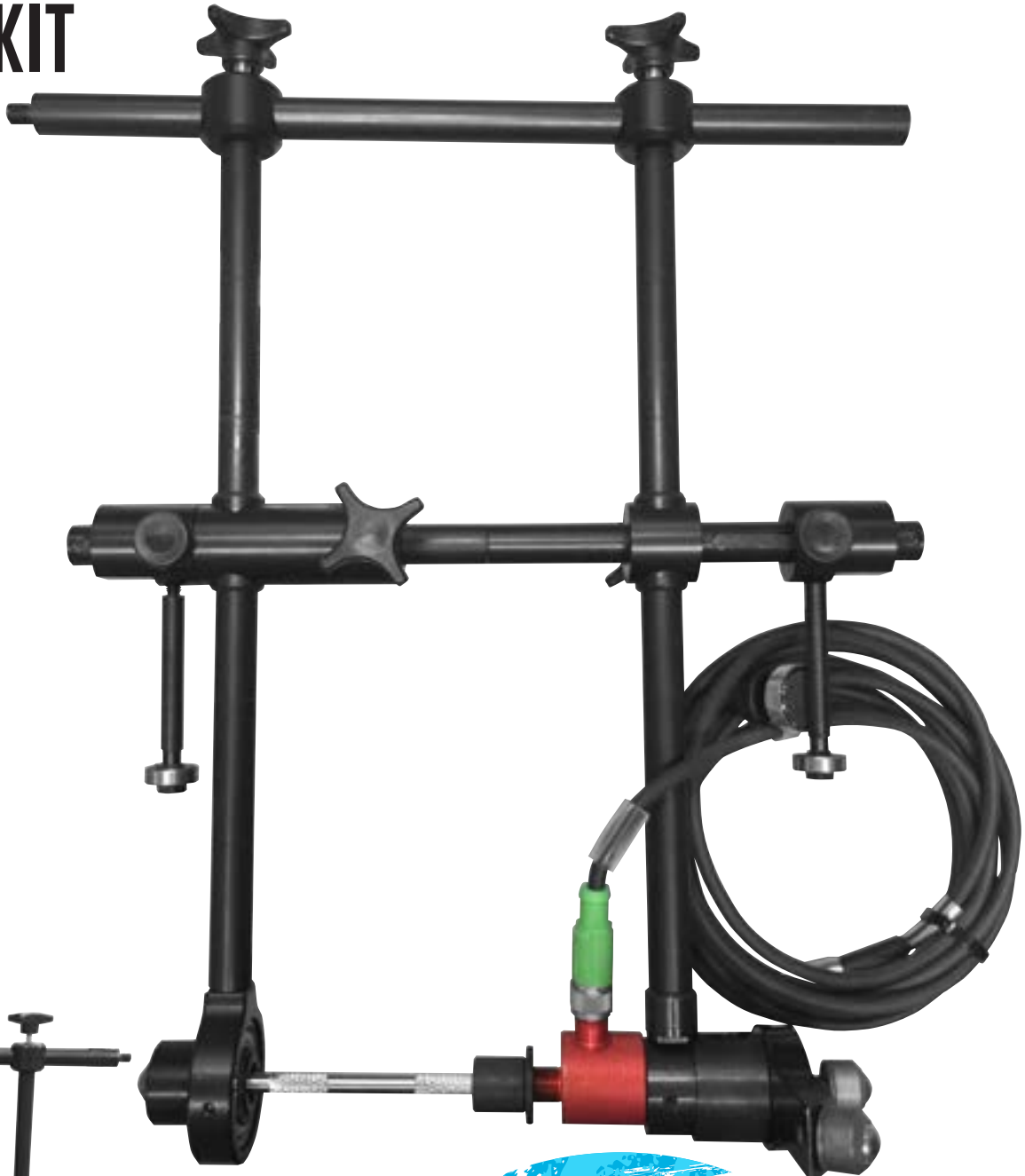
# DEFLECTION INDICATOR

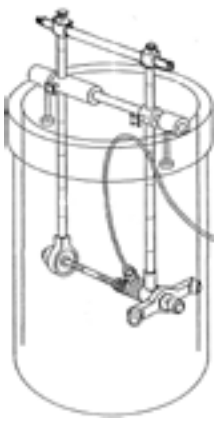

| | | | |
|---|---|---|---|
| **Memory & transfer to PC** | | No | Yes |
| **Export as Excel** | | No | Yes |
| **Measuring distance** | | 89-565 mm (a smaller transducer is optional equipment) | |
| **Measuring range** | | +/- 2.048 mm | |
| **Resolution** | | 0,001 mm | |
| **Zero balance range** | | +/- 2.048 mm | |
| **Zero drift** | | 0.001 mm / 5 minutes | |
| **Instrument operating range** | | 0-55°C / 32-130°F | |
| **Transducer operating range** | | 0-80°C / 32-175°F | |
| **Battery** | | 3.6 V Lithium Ion, rechargeable | |
| **Battery Life** | | 10 hours / charge, shelf life 5 years | |
| **Extension bars (invar alloy)** | | 10, 20, 40, 80 and 2 x 160 mm | |
| **Cable length** | | 7 meters | |
| **Gross Weight** | | 4 kg | |
| **Dimensions:** | **Instrument** | 190 x 167 x 50 mm | |
| | **Transducer** | Ø 31 x 81 mm | |
| | **Case** | 300 x 280 x 140 mm | |



PRISMA TIBRO
SWEDEN

# OVALITY KIT





VISIT OUR WEBSITE
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AND TALK TO HARUT
PDROSSIAN
PRODUCT MANAGER

# Prisma DI

# PRISMA TIBRO – THAT´S WHY

## Quality & Service

The leading digital instrument for crankshaft Deflection indication is made in Sweden.
Trustworthy construction made to last.
Accuracy to trust.

All members of the staff are extremely committed to maintain the good reputation that all products which are coming from Prisma Tibro, Sweden have gained over the last decades.

We expect that our customers expect the best of the best.
Welcome to challange our high goals.

## Warranty 5 years

Buying products from Prisma Tibro is a safe investment. Every now and then we talk to customers using the same instrument for more than ten years.

## Global and local

Sweden is up north and seems perhaps far away. But let us surprise You by excellent service and quick response to what ever Your need is.

## 30 years of experience

Prisma Teknik, Prisma Light and Prisma Care are all part of the brand Prisma Tibro. Prisma Tibro has nearly three decades of experience in developing and manufacturing unique, high quality products with advanced and reliable technology.
We are ISO 9001 certified to ensure the high quality and customer support. Our four product areas are pedestrian signals, deflection indicators, push buttons and LED street light.
CSR, corporate social responsibility: As a company, we want to reach out and help the people in Sweden and around the world with the love of God. We support different projects that help children by building new schools, by giving them clean water and by diverting them from a life in crime. There is so much we can do to help, and we are committed to contribute as much as we can.

PRISMA TIBRO SWEDEN

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