

## LINER DIAMETER MEASUREMENT(LDM)

Avoid unplanned off-hire and reduce overhauling costs through continual monitoring of the cylinder condition.

Pre-inspect cylinder condition before a piston overhaul to minimize downtime and cost.

### Product features

- Innovative measuring tool for 500 - 980 mm bore 2-stroke cylinder liners
- Safe, fast and accurate measuring of cylinder liner wear and clover-leafing
- No need to remove cylinder cover prior to measurement
- Supplied with report generation tool that presents measurement results
- Approved as checked baggage according to IATA 2015 regulations
- Long-lasting battery user time: Approximately 13 hours of continuous usage without recharging



### Technical specifications

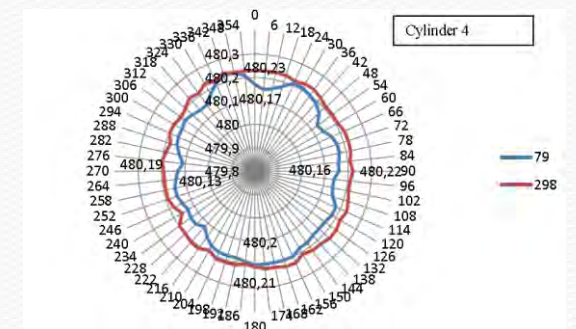
• Diameter measuring range	2-stroke engines 500 - 980 mm liner diameters or 4-stroke engines (cylinder cover removed) > = 500 mm liner diameters
• Measurement capability	Cylinder wear (two diametres) and clover leafing (60 radii)
• Height measuring range	0-4000 mm
• Electric power supply	Battery operated Charging equipment included
• Normal measuring time	One cylinder liner (2 diametres/15 levels): 1 Hr
• Weight complete with case	20 kg

### Detect abnormal cylinder deformation and wear before it leads to failure

The image shows two clover-leafing measurements at 79 mm and 298 mm below top rig TDC. Some clover shape can be seen at 79 mm with peaks about 0.10 mm higher than the valleys.

Such a wear pattern will generate blow-by and eventually collapsed or broken piston rings when the piston ring pack cannot seal tightly against the cylinder liner.

Cylinder honing can restore the cylinder condition.



### Avoid removal of the cylinder cover

The liner diameter measurement is performed without removal of the cylinder cover by inserting the tool through the scavenging ports.

