

LDM

LINER DIAMETER
MEASURING INSTRUMENT

PURPOSE

The LDM is used for making a quick investigation of the liner condition in liners for 2-stroke engines.

The main advantage is that the cylinder head does not need to be removed. The instrument is inserted in the liner through the scavenging ports. Removal (and assembly) of head does not only takes several hours, it is also a risk of not getting it completely correct back again.

By using the LDM a correct result is achieved quickly without increasing the risk of introducing an error.



EC DECLARATION OF CONFORMITY

Due to included radio transmitter components special tests must be carried out to meet respective countries standards.

At this moment the LDM has a CE-label which is required for use within EU and Turkey.

Further tests will be carried out for verifying compliance with other standards, of which the most immediate are: USA, Japan, China and Korea.

Please revert to us with queries about the time schedule for these tests.

SUMMARY
INFORMATION



Postbus 59023, 3008 PA
Sluisjesdijk 95, 3087 AD
ROTTERDAM
tel. +31-(0)10-4140411
fax +31-(0)10-4114470
email info@venteville.com
www.venteville.com



LDM

LINER DIAMETER MEASURING INSTRUMENT

LDM CONSISTS OF THE FOLLOWING PARTS

- **Measurement unit**
Inserted to the liner and put on top of the piston. Measured data is transmitted via radiolink to an antenna inserted in the start air valve. The antenna is connected to an interface box.
- **Piston height measurement device**
Attached underneath the piston with a magnet. A cable connection to the interface box.
- **Interface box**
Input signals: Antenna and Piston height measurement unit.
Output signal: Bluetooth to a handheld computer (PDA).
- **PDA**
Stored data can be transferred to an excel application in any PC by Bluetooth, USB or by SD-card.

In addition there are tools for calibration of the system.

THE MEASUREMENT PROCESS

- Calibrate the system
- Put the piston in its lowest position
- Attach the piston height measurement device to the underside of the piston
- Insert the measurement device and place it on top of the piston
- Move the piston to desired position and carry out the predefined number of diameter readings
- Move piston to next position and measure diameters again
- Continue until finished
- Evaluate the measured data in the handheld terminal or transmit measurement data to a PC for further evaluation, storing or report generation.

MEASUREMENT TIME

Approximate measurement time:

Total time about 1 hour per liner for measurement of 4 diameters on 9 heights (of which setup time is about 20 minutes)

ACCURACY

The total system accuracy is 0,03 mm



Please see LDM-datasheet and quotation for more information

Chris-Marine® Head Office and Subsidiaries

SWEDEN

Chris-Marine AB
Stenyxegatan 3
PO Box 9025
SE-200 39 Malmö
Tel: +46 - 40 671 2600
Fax: +46 - 40 671 2699
info@chris-marine.com

DENMARK

IOP Marine A/S
Engager 7
DK-2605 Brøndby
Tel: +45 - 4498 3833
Fax: +45 - 4498 1125
contact@iopmarine.dk

SINGAPORE

Chris-Marine (S) Pte. Ltd.
46 Lokyang Way, Jurong
Singapore 628646
Tel: +65 - 6268 8611
Fax: +65 - 6264 3932
chrism@chris-marine.com.sg

GREECE

CM Hellas Ltd.
16, Dodekanisou Str. (1st floor)
GR-18541 Piraeus
Tel: +30 - 210 4826 060
Fax: +30 - 210 4839 323
info.gr@chris-marine.com

P.R. OF CHINA

Chris-Marine Trading
(Shanghai) Co., Ltd.
Room 311, No.1 Building,
No.288 Wu Hua Road,
Shanghai 200086
Tel: +86 - 6575 9331
Fax: +86 - 65759552
info.cn@chris-marine.com

RUSSIA

Chris-Marine Rep Office
St. Petersburg
PO Box 8
St. Petersburg, 191186
Mob: +7 (911) 908 5482
(in Russia and CIS)
Mob: +46 766 454495
(outside Russia and CIS)
info.ru@chris-marine.com

INDIA

Chris-Marine Rep Office India
Plot No. 1/1, Vikas Apartment
Trimurthy Nagar, Ring Road
Nagpur-440022, Maharashtra
Tel: +91 - 712 224 2719
info.in@chris-marine.com

Postbus 59023, 3008 PA
Sluisjesdijk 95, 3087 AD
ROTTERDAM
tel. +31-(0)10-4140411
fax +31-(0)10-4114470
email info@venteville.com
www.venteville.com

