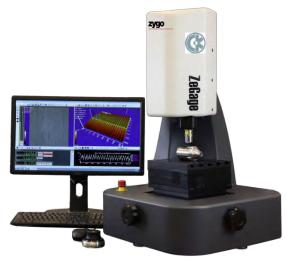
SEE 3-D®

Three Dimensional Bore Surface Evaluation Equipment



IMPROVED SYSTEM TO QUANTIFY BORE SURFACE FINISH



See 3-D® makes a highly accurate 3-D copy of the cylinder's surface by utilizing a unique two-part silicone rubber compound.

The replicate is then scanned by a non-contact surface analyzer to produce all the vital surface finish data you need. Simple, easy to understand data outputs help to control your honing process and produce the best possible product.

SEE 3-D® Interferometer/Analyzer System

Features & Benefits:

- Easy to use with minimal setup time
- Accurate results thru controlled pressure
- Quantifies more than 30 surface finish characteristics
- Measures top ring turnaround wear up to 100µm wear depth
- Accurately measures hone cross hatch angle
- 3-D surface data more predictive of surface finish effects than 2-D profilometer data
- 3-D surface data accurately quantifies voids that can be the cause of increased oil consumption
- Samples are storable indefinitely and available for analysis at any time





Software Features:

- Provides both 2-D & 3-D data including R_a, R_k, R_{pk}, and R_{vk}
- Quantifies 30 different 3-D parameters including S_{a,} S_k, S_{pk}, S_{ci,} S_{bi}
- Expands statistical analysis of surface characteristics
- Quantifies torn & folded material
- Quantifies cross hatch angle

Hardware Features:

- Measures large and small bore diameters:
- Small bores 63.5mm-152.4mm (2.5-6")
- Large bores 152.4mm+ -304.8mm+ (6" +)
- Applies uniform pressure for accurate surface replication
- No possibility of probe damage

System Components:

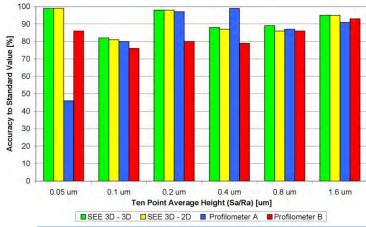
- Replicate head, bars and material
- Interferometer / Analyzer
- Proprietary Software
- Windows based PC configuration

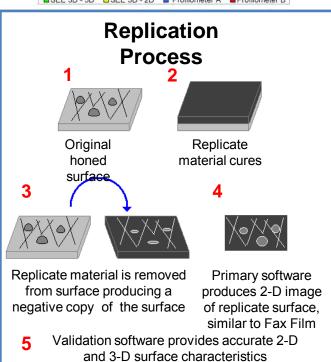
Definitions:

 S_{CI} – Core Fluid Retention Index quantifies volume for fluid retention

S_{BI} – Surface Bearing Index quantifies bearing area of cylinder finish

Accuracy of Various Surface Measurement Equipment





Software Output

