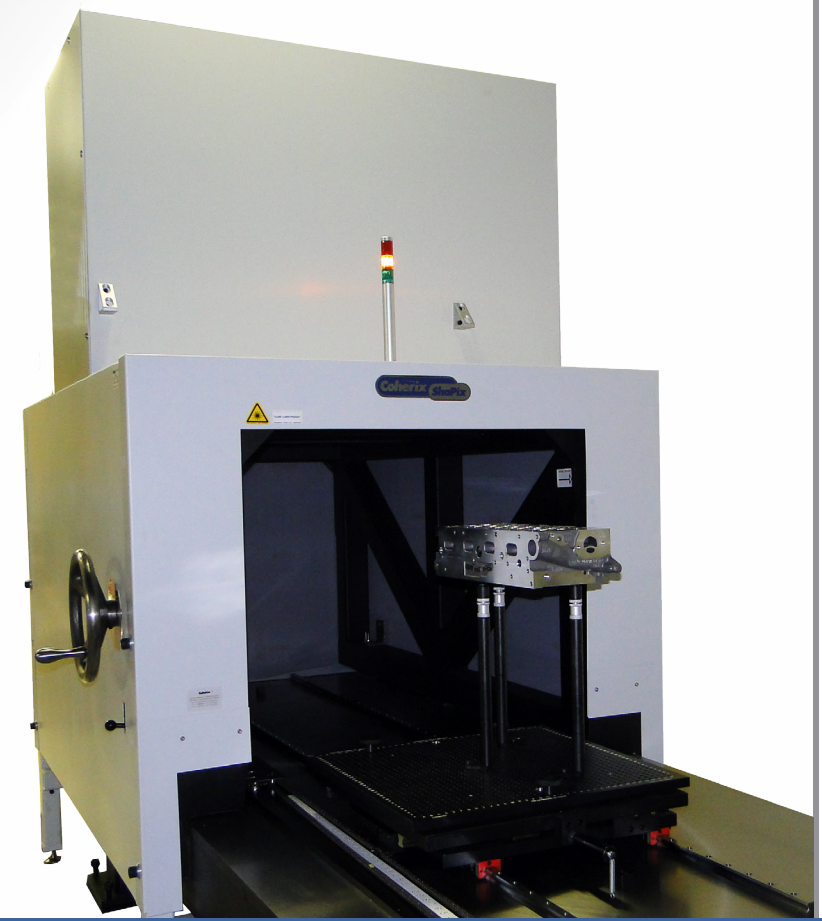
ShaPix® 3000 Series

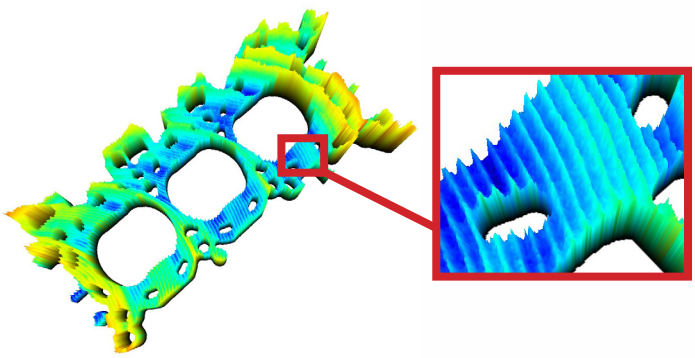
See your planar surfaces in full 3D when microns matter.

Fast. Industrial. Intuitive.

The ShaPix 3000 Series solution measures the profile, flatness and waviness of planar surfaces. This technology produces measurements in easy to understand, high-definition 3D pictures and reports within minutes.

The micron level visualizations produced by ShaPix enable clear understanding and communication throughout the life of a planar surface - from design to production to consumer function. With a large field of view, the ShaPix 3000 Series can measure a V8 deck face in two shots - providing the full surface profile faster than ever.





Data-rich, 3D images: The ShaPix 3000 Series measurement solution inspects planar surfaces with micron level accuracy. With more than four million points of data, 50 nanometer vertical resolution and 150 micron lateral resolution, you can quickly see and understand part shape and form. These easily understood pictures provide fast feedback for process control improvement.

High-speed, easy to use, non-contact: Using Coherix's laser holographic technology allows for measurements within minutes instead of hours – leading to actionable results faster than ever. With an entire toolbox of software analysis capabilities, operators can evaluate a surface with all of the precision and none of the headache of traditional tactile metrology.

Plant-floor proven: The ShaPix 3000 Series is designed to be configured for specific application needs in a variety of plant environments. Typically installed near the machining process, the fully enclosed 3000 Series rapidly gives feedback directly to the machinist. This metrology solution comes with the full ShaPix areal surface analysis software.

Coherix®

ShaPix® 3000 Series

Full 3D. When microns matter.

Capabilities

- Flatness & waviness, profile, parallelism
- Stitching of large surfaces
- Full 3D analysis & reporting
- ROIs, zones, sectional plots
- Data export, STL, Databases, CSV
- Multi-surface relationship
- Virtual gasket
- Thickness uniformity
- Gap analysis

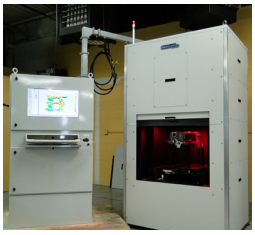
Environmental

- Ambient operating temperature:
  - 18 - 38 degrees C
- Rate of temperature change:
  - < 1 degrees C within last 10 minutes
  - < 6 degrees C within last 1 hour
- Humidity: 12% - 80% non-condensing
- Class 1 Laser Product

Performance

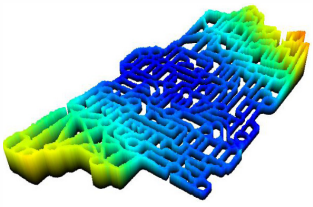
Field of view (LxWxH):	280 x 280 x 275 mm
Working range from sensor:	25 - 300 mm
Lateral resolution:	150 µm
Vertical resolution:	0.05 µm
Combined standard uncertainty: (L in mm, K=1)	
Step height :	(0.6 + 0.5L) µm
Milled aluminum:	(1.0 + 0.5L) µm

Sample Applications



3700

- Valve bodies
- I-4 blocks, heads
- Small transmission cases
- Rotors
- Car corners
- Pumps

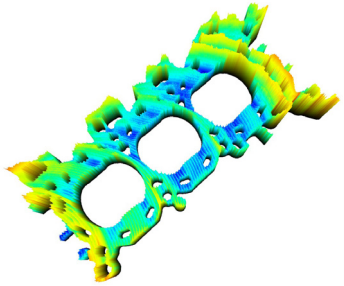


6-speed valve body

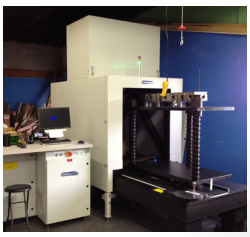
3800

**Includes 3700 capabilities*

- V6, V8 blocks, heads
- Transmission valve bodies & cases
- Gear boxes



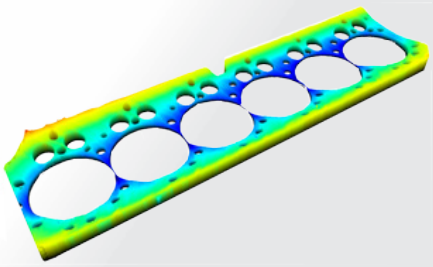
V6 head



3120

**Includes 3700 & 3800 capabilities*

- I-6 blocks, heads (up to 16 liter)
- Axles



Large diesel deck face

Coherix®

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