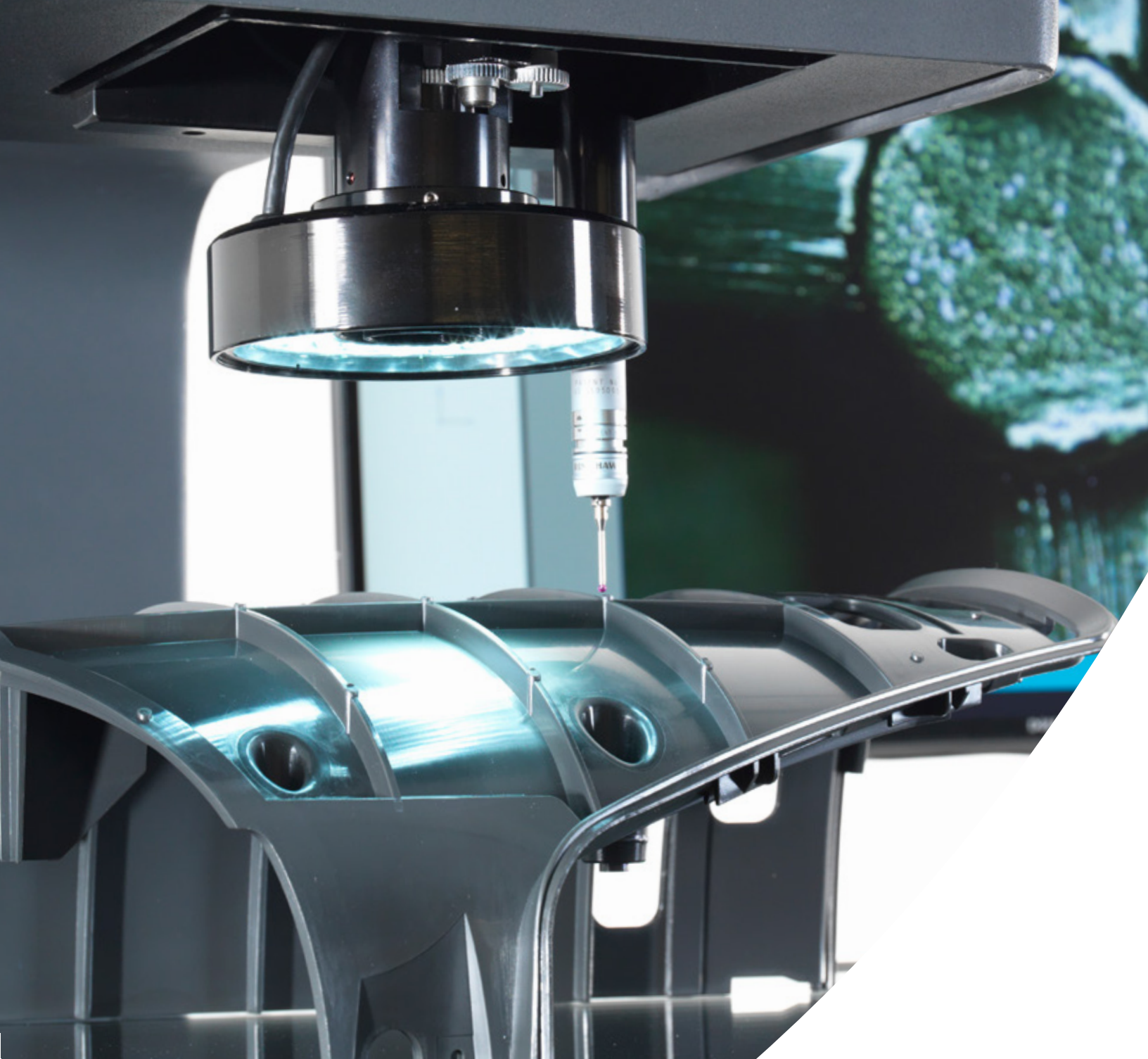


LVC400 Large capacity CNC video measurement system



Vision
ENGINEERING
LVC400





SAVING TIME + REDUCING COSTS

Manufacturers rely on accurate technologies that keep their businesses at the cutting edge in the fast-paced, competitive world of today.

Taking advantage of every possible efficiency in their processes helps manufacturers increase their productivity and reduce cost. Reducing measurement time, without compromising product quality is a critical factor in the continuous improvement of the manufacturing process.

Measurement routines can be fully automated on the new LVC400 3-axis CNC system, resulting in a significant reduction in measurement time.

LVC400 has the power and flexibility to meet the most demanding measurement requirements and suits industry applications including precision machining, casting, plastic moulding, electronics and medical device manufacturing.

Faster measurement

Its stage offers large measuring capacity and fully automated movement on all 3 axes makes measurement faster.

Magnification changes can be built into programmes, for non-stop measurement routines.

Multiple components can be loaded onto the stage and measured easily and automatically in a single programme.

The system is pre-programmable or can be driven using the supplied joystick for quick, one-off measurements.

Easy to use

LVC400 is supplied with highly intuitive M3 software. This offers a rich suite of measurement functions, while maintaining the ease of use that Vision Engineering is known for.

M3's key features include;

- Easy reporting and data export
- DXF overlays and fitting
- Thread measurement

Highly accurate

LVC400, with its granite base for extra stability and precision stage, is the most accurate large format measuring system to date from Vision Engineering.

LVC400 supports the use of a touch probe in all 3 axes, for measuring complex features and other 3D forms.

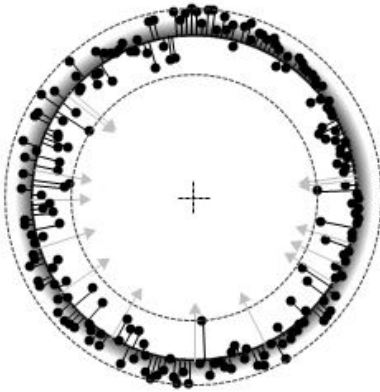
AUTOMATION + ACCURACY

LVC400 is the first **fully automated 3-axis video** measurement system from Vision Engineering. Ideal for measuring large components or multiple small components, quickly, easily and accurately.

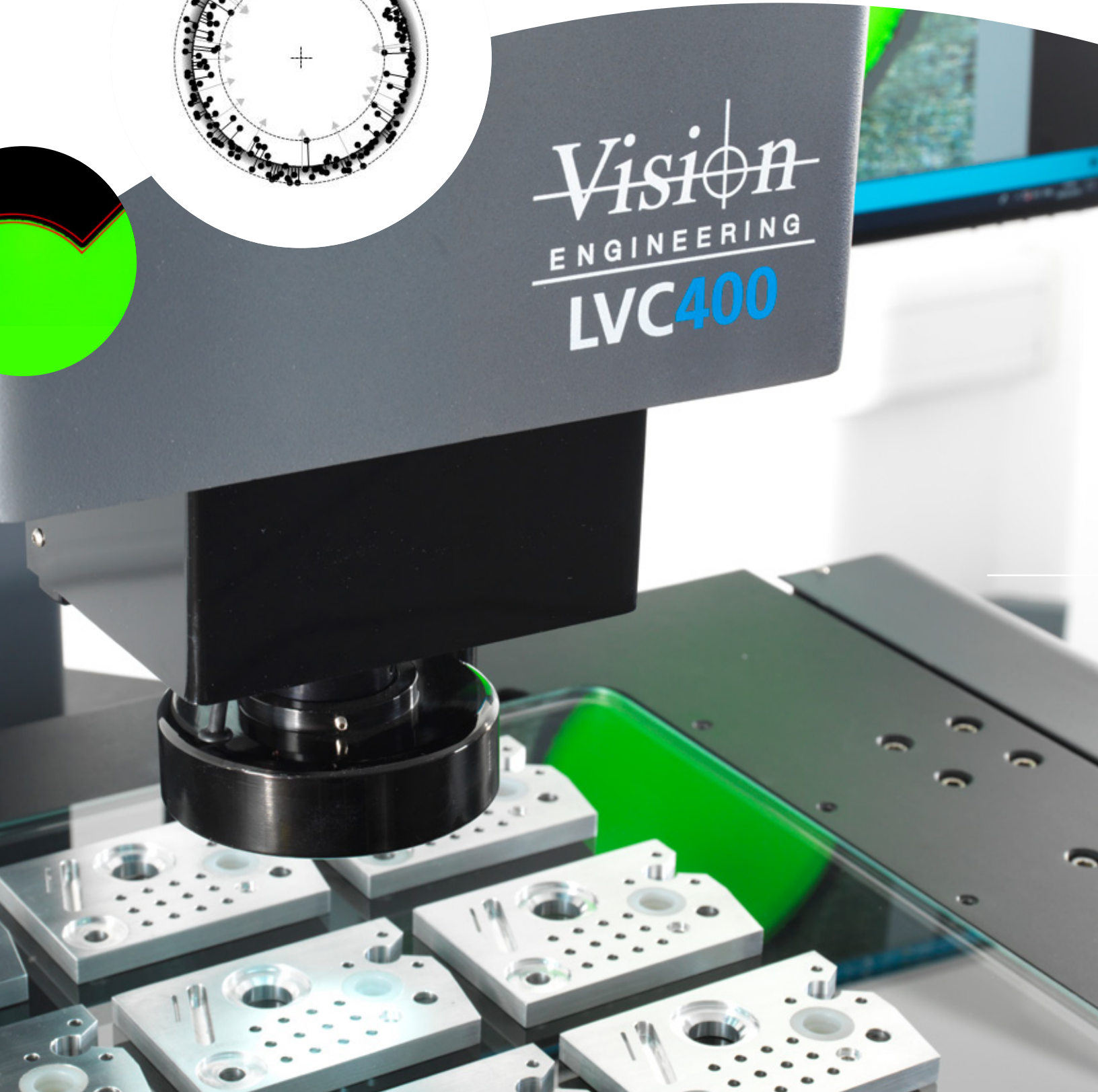
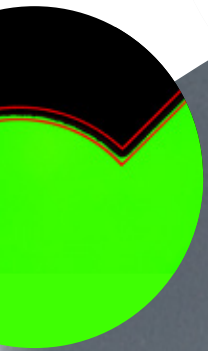


LVC400 key features

- 400 x 300 x 200mm (16" x 12" x 8")
- 5MP USB3 camera
- Navitar 6.5:1 motorized zoom lens
- Easy to use M3 software
- Granite base
- 3D touch probe option



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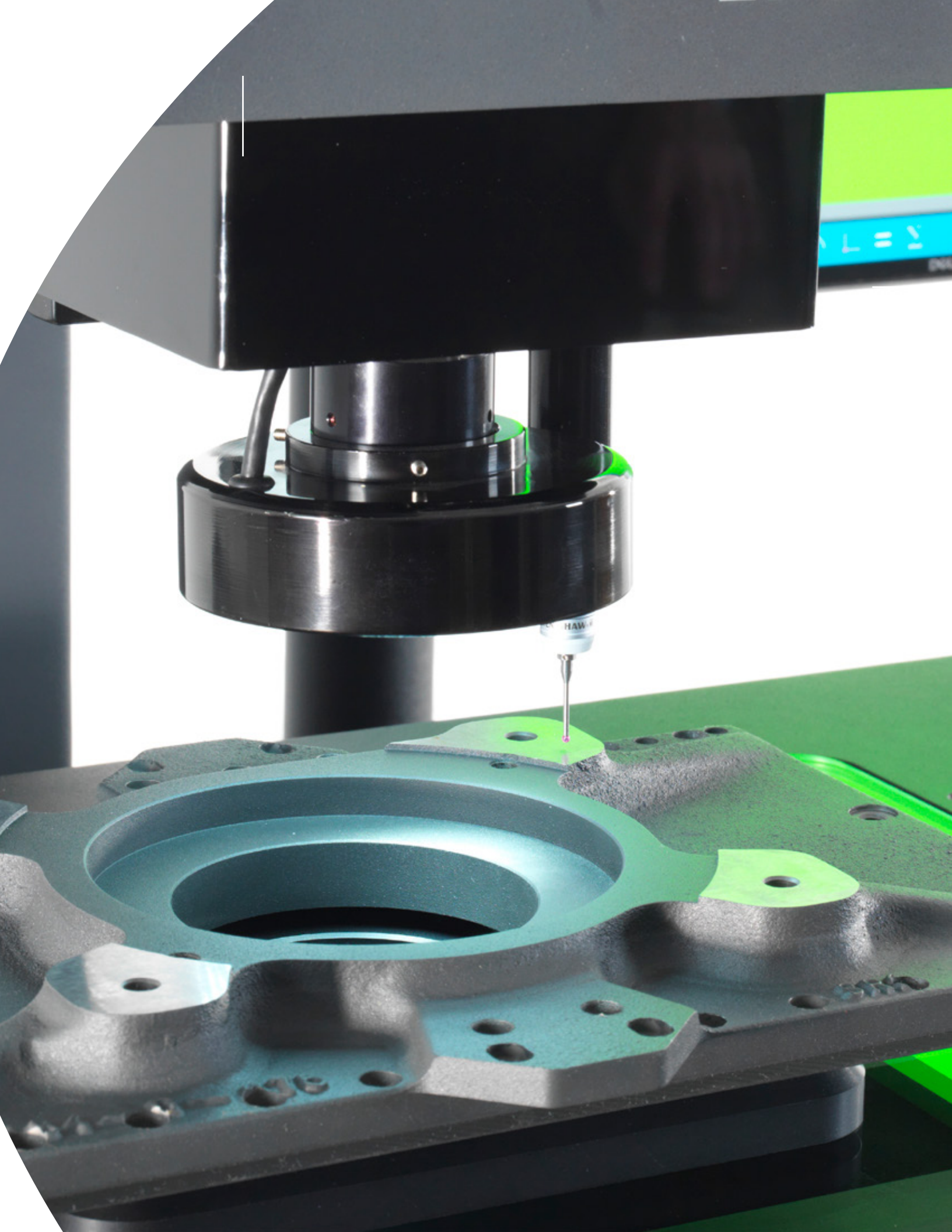
TECHNICAL INFORMATION

The LVC400 is equipped with all the tools required of an advanced measurement system.

| LVC400 Specifications | |
|---|--|
| Measuring capacity | 400mm x 300mm x 200mm (16" x 12" x 8") |
| Optics | 6.5:1, 6-position motorized zoom lens |
| Camera | 5MP colour CMOS USB 3.0 |
| Max. Load | 25kg (55lbs) |
| Dimensions (W x D x H) | 891mm x 916mm x 1108mm (35" x 36" x 43.6") |
| Base Material | Granite |
| Touch Probe Option | Yes |
| Measurement Accuracy (X - Y) | 2.8 + (8L/1000) µm* |
| Measurement Accuracy (Z) | 3 + (10L/1000) µm** |
| Encoder Resolution | 0.5 µm |
| Magnification Range | ~80X - 300X on 25" monitor |
| Field of View | |
| Low Magnification (X x Y) | 6.3mm x 4.7mm |
| High Magnification (X x Y) | 1.4mm x 1.09mm |
| Illumination | |
| Programmable LED ring light with 4 sectors | Yes |
| LED sub-stage light | Yes |
| Notes | |
| *L = Measurement length in mm, using controlled conditions | |
| ** with optional touch probe | |

| Fit to screen | Field of view | Mag. | 1:1 Pixel setting | Field of view | Mag. |
|---------------|---------------|------|-------------------|---------------|------|
| Min. X | 6.3mm | 68x | Min. X | 4.9mm | 87x |
| Min. Y | 4.7mm | 55x | Min. Y | 3.0mm | 86x |
| Max. X | 1.4mm | 242x | Max. X | 1.15mm | 373x |
| Max. Y | 1.09mm | 238x | Max. Y | 0.7mm | 371x |

All technical specification is subject to change.



VISION ENGINEERING + OUR DIFFERENCE

Vision Engineering Ltd. has been designing and manufacturing high quality ergonomic microscopes, digital instruments, inspection and non-contact measuring systems for over 60 years.

Innovation

With a philosophy of design innovation, Vision Engineering holds world patents for a number of optical / digital techniques, significantly improving viewing ergonomics and enabling customer quality and productivity improvements.

To see our focused quality, please contact your Vision Engineering branch, local authorised distributor, or visit our website: visioneng.com

Quality

Vision Engineering prides itself on quality products, electronics, mechanics and optics and is certified for the quality management system ISO 9001:2015. Quality is as important to us as it is to our customers. Our systems have proved themselves many times over and are chosen by the world's leading companies.

Global

Vision Engineering has manufacturing and design facilities in the UK and USA, plus sales and support offices throughout Europe, the Americas, the Far East, and Asia. We support our customers with close technical and service support anywhere in the world.

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Vision Engineering Ltd. has been certified for the quality management system ISO 9001:2015.

Sales Partner



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