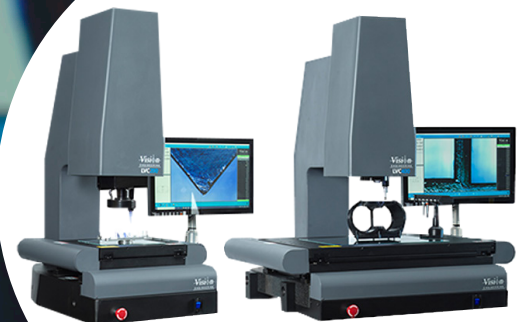



LVC Series
Fully automated video
measurement systems

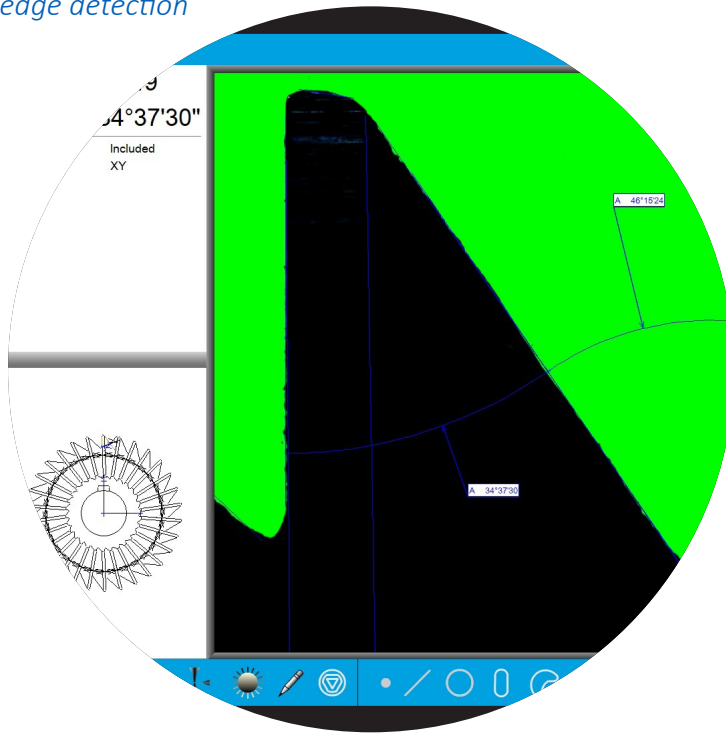




Vision
ENGINEERING
LVC200

Key features

- Up to 400 x 300 x 200mm measurement
- 5MP USB3 colour camera as standard
- Motorised Navitar zoom lens
- Easy to use M3 software
- 0.1 μm encoder resolution
- Touch probe and probe rack options



SAVING TIME + REDUCING COSTS

LVC Series measurement systems from Vision Engineering offer high precision and full automation at a competitive price. The uncluttered layout of the software and system performance allow the LVC Series to handle a wide range of modern industrial measurement applications, including precision machining, casting, plastic moulding, electronics and medical device manufacture.

Faster measurement

Measurement routines can be automated on the new LVC Series of 3-axis CNC systems, resulting in a significant reduction in measurement time.

Programmable magnification changes enable uninterrupted faster measurement routines.

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

The system is pre-programmable or can be joystick-driven for quick, one-off measurements. A full set of results and inspection reports are generated simultaneously.

Clear display of feature details
and measurement results

Report

Feature 18

74.0331

49.0611

3.9741

1.9871 f 0.0536

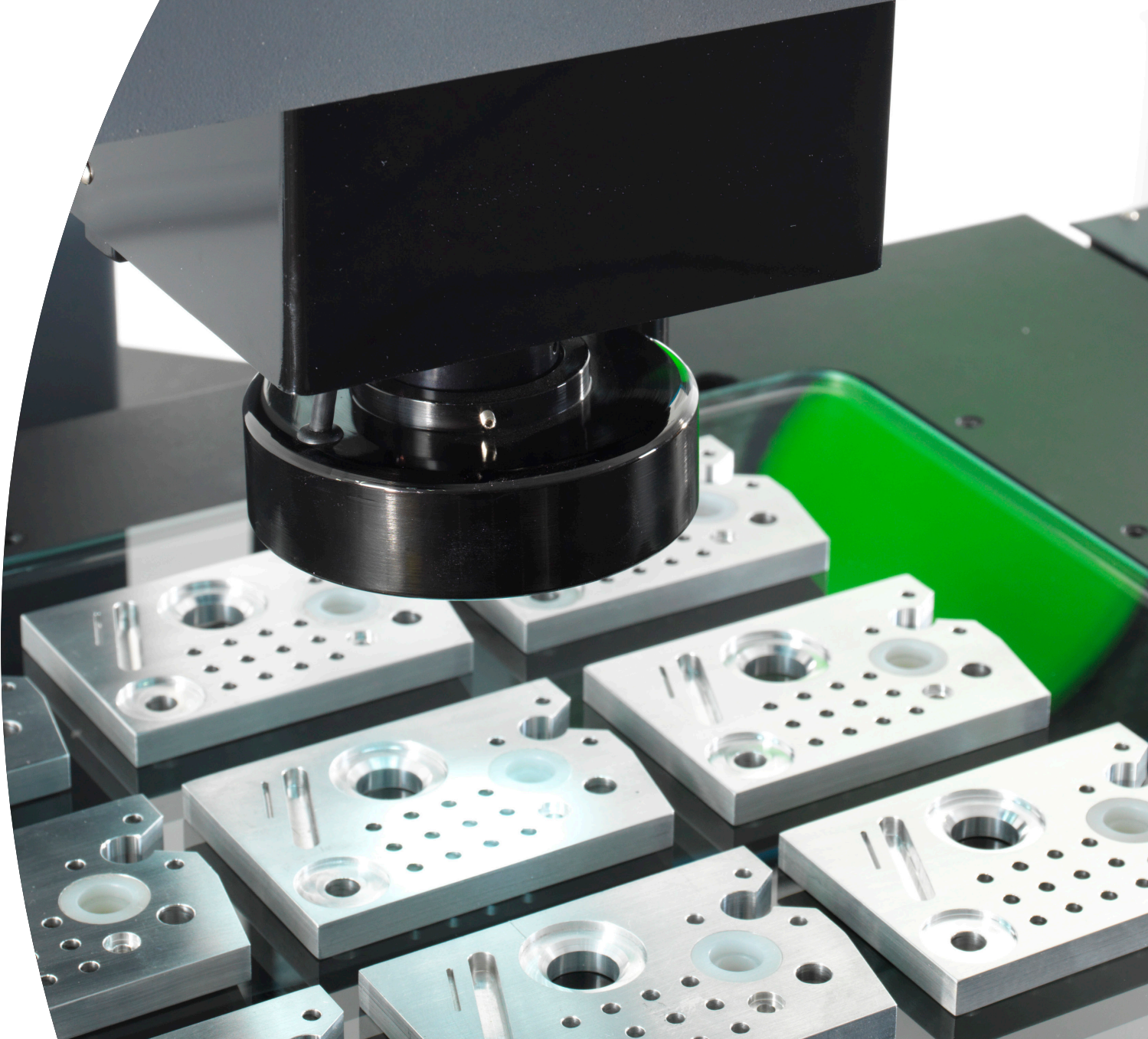
55 of 55 Least Squares

ref 1T

/FD

Feature	Tol	Actual	Nominal	Tol-	Tol+	Deviation	Tendency
Angle 21	A	124.944°	124.950°	1.000°	1.000°	-0.006°	↔
Line 22	X	99.9998					
	Y	64.1117					
	A	-89.984°					
Circle 23	X	93.5077					
	Y	60.4075					
	R	2.0001					
	D	4.0002	3.9900	0.0050	0.0050	0.0102	→ Fail
Line 24	X	51.9077					
	Y	70.0626					
	A	0.003°					
Circle 25	X	45.0021					
	Y	50.0536					
	R	7.9987					
	D	15.9934	15.9900	0.0100	0.0100	0.0034	↔ Pass
Length	X	0.0032					
	Y	70.0625					
	L	70.0625	70.0600	0.0100	0.0100	0.0025	↔ Pass
Width	X	100.0371					
	Y	0.0676					
	L	100.0371	100.0380	0.0100	0.0100	-0.0009	↔

Vision
ENGINEERING
LVC400

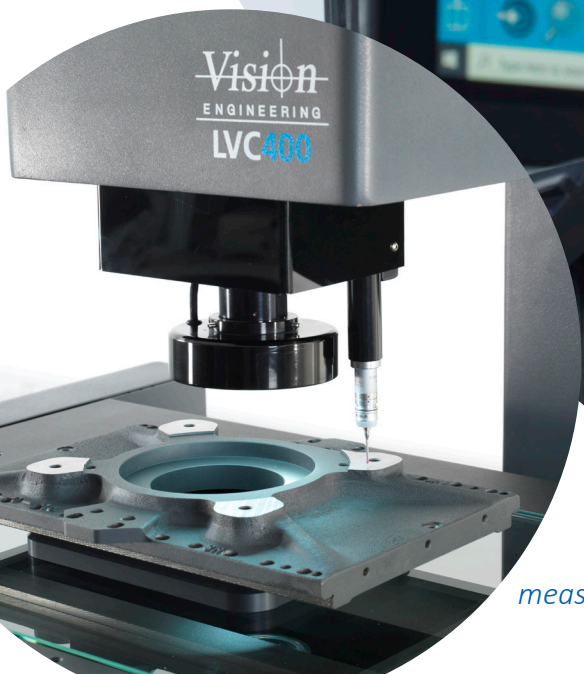




TECHNICAL INFORMATION

Specifications	LVC400	LVC400+	LVC200	LVC200+
Measuring Capacity	400mm x 300mm x 200mm		200mm x 150mm x 200mm	
Optics	6.5:1, 7-position motorised zoom	12:1, 10-position motorised zoom	6.5:1, 7-position motorised zoom	12:1, 10-position motorised zoom
Camera	5MP colour CMOS	6.4MP colour CMOS	5MP colour CMOS	6.4MP colour CMOS
Maximum Load	25kg		25kg	
Dimensions (W x D x H)	789mm x 915mm x 1087mm		536mm x 705mm x 1096mm	
Machine Weight	350kg		180kg	
Base Material	Granite		Aluminium	
Touch Probe (option)	✓		✓	
Probe Changer Rack (option)	✓		x	
Measurement Accuracy (X - Y)	2.8 + (8L/1000) µm*		2.8 + (8L/1000) µm*	
Measurement Accuracy (Z)	3 + (10L/1000) µm**		3 + (10L/1000) µm**	
Encoder Resolution	0.1 µm		0.1 µm	
Magnification Range †	55x - 370x	30x - 700x	55x - 370x	30x - 700x
Field of View				
Minimum Magnification (X x Y)	6.3mm x 4.7mm	11.8mm x 8mm	6.3mm x 4.7mm	11.8mm x 8mm
Maximum Magnification (X x Y)	1.4mm x 1.09mm	2.56mm x 1.7mm	1.4mm x 1.09mm	2.56mm x 1.7mm
Illumination				
Programmable LED ring light with 4 sectors	✓		✓	
Collimated LED sub-stage light	✓	-	✓	-
High parallelism flat back light	-	✓	-	✓
Notes				
*L = length in mm, using controlled conditions. Increased accuracies may be obtained over shorter measuring lengths and by in-situ system calibration.				
** with optional touch probe				
† on a 25" monitor				

Vision
ENGINEERING
LVC400



*Contact
measurement option*

VISION ENGINEERING + OUR DIFFERENCE

Vision Engineering Ltd. has been designing and manufacturing high quality ergonomic microscopes, digital instruments, inspection and 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 enhancing viewing ergonomics and enabling customer quality and productivity improvements.

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, and sales and support offices throughout Europe, the Americas, the Far East, and Asia. We provide our customers with close technical and service support globally.

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

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FM 557119
Vision Engineering Ltd. has been certified for the quality management system ISO 9001:2015 and calibration accreditation ISO 17025:2017.

Sales Partner



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