



LK Product Range

Designed and produced by Ciro Design 01 332 8641 80 info@cirodesign.co.uk

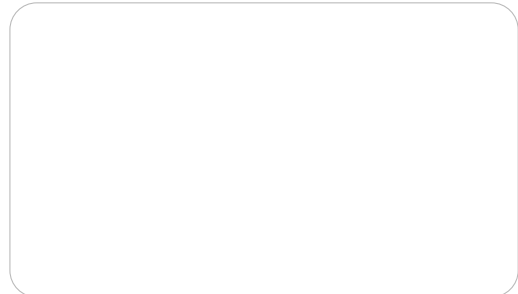
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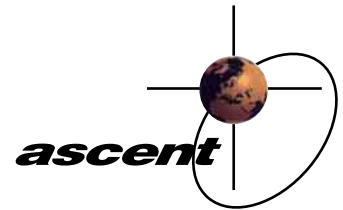
LK MSI is an ISO 17025 Accredited Company
Accredited Certificate No. L1080



LK Limited is an ISO2001 : 2000 and UKAS
Accredited Company



The cost-effective inspection solution





Ascent provides the cost effective measuring solution to meet your current and future demands.

Thermal Compensation

LK thermally compensates not only for all axes of the machine structure plus the component, but also for the complete probe assembly, right to the probe tip. This is the only way to achieve **accurate thermal compensation in harsh operating environments, providing you with the highest possible accuracy.**



A 2°C temperature change would increase this probe assembly length by over 4µ m

Parametric Error Compensation

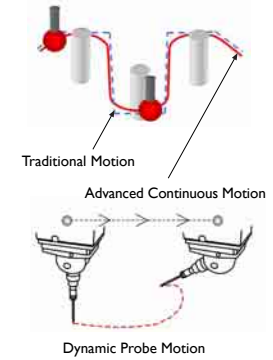
Any CMM built to relaxed tolerances and prone to dimensional instability could quickly fall out of its accuracy specification, as any change in the original structure geometry then renders the parametric error compensation map incorrect. The naturally stable **Ascent** is built to very tight mechanical tolerances and relies on parametric error compensation only to finely perfect the accuracy for **long lasting, accurate and repeatable measurement.**

Machine errors removed by error compensation



Performance

Advanced continuous motion control and dynamic probe motion can cut machine operating times by up to 40%, which **increases your throughput and saves you money.**


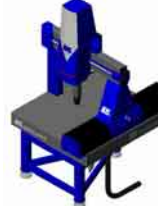
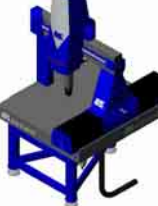


Standard Bridge Sizes 6.5.4

8.7.6

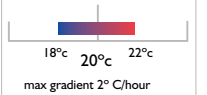
10.7.6

ascent

 <p>Table length 600mm (23.6")</p>	 <p>Table length 800mm (31.4")</p>	 <p>Table length 1000mm (39.3")</p>
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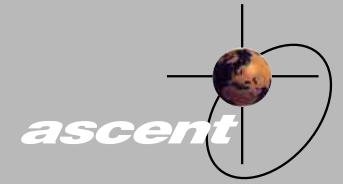
Thermal Conditions

ascent





experience the precision



What can the Ascent offer you?

The Ascent is part of the LK CMM family based on the design philosophy of providing a metrology frame that has stiffness, stability & smoothness achieved through the choice of materials & design. It's a philosophy proven time & time again in the most demanding applications across the globe & is one of the reasons that why the world's top engineering companies turn to LK to provide their metrology solutions.

The Ascent comes with a choice of three machine sizes & probing options to allow you to select the system ideally suited to your application & budget.

The Ascent also gives you access to advanced LK controller technology for the ultimate in machine control & reliability.

Camio Studio Ascent software is your gateway to the industry-leading Camio Studio software suite. It's a software package with all that you need and provides a platform for you to add in the tools you need to meet the demands for your inspection now & in the future.

The Ascent design is industry-proven in the World's most demanding applications.

D P.E.C. **LK DPEC™ (Dynamic Probe Error Correction)** technology provides the exclusive ability to error compensate thermally and geometrically, **in real time**, right to the probe tip, giving you the highest accuracy available.

A C T **LK ACT™ (Advanced Controller Technology)** optimises CMM performance to give you faster, smoother machine motion, plus the reassurance of instant diagnostics via optional Remote System Monitoring.

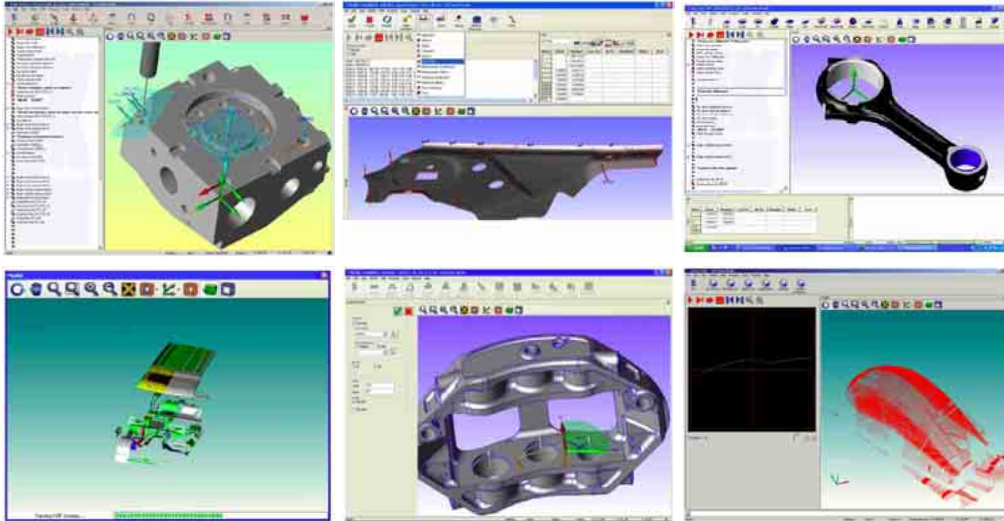
R S M **Remote System Monitor** - the software utility that captures vital machine data and provides you with valuable production information about the usage and well being of your CMM.



Camio Studio products redefine the CAD interfacing world of CMM programming. They offer a powerful toolkit which can be easily accessed through the context sensitive graphical user interface, which includes optional drag and drop wizard-based help for new users.



Camio Studio Ascent takes you into the Camio Studio software suite that continues the LK tradition of innovation, embedding over 40 years of metrology expertise into our software solutions.



Camio Studio Ascent features

- Full & exact DMIS standard compliance
- CAD-independent support for CATIA® v4, Catia v5, Pro/E®, UG®, Parasolid®, HOOPS®
- Rule based, rapid, reliable part program generation
- Fast execution of part programs to improve your machine throughput
- Fully customisable reporting based on an SQL database
- Fast CAD model loading to get you working quickly even with large CAD files



The Ascent is the entry point to LK's range of high accuracy bridge machines.

When you just need to Inspect...

Then look no further than the LK Ascent. Built around proven & dependable technology, the Ascent offers cost-effective inspection capability with access to LK's revolutionary Camio Studio software.

A self contained solution that will reliably & accurately perform today & tomorrow giving you the inspection data you need for your applications & components.

Digital Scanning Technology

Using unrivalled CMM controller technology & standard digital touch-trigger probing, the Ascent will Digiscan by collecting up to 10 points per second, giving you an accurate & low cost alternative to analogue scanning.

