

## MEASUREMENT SERVICES

Support when you need it most, from Mitutoyo.

MEASUREMENT SERVICES





## Services for increasing profitability

Profitability derives from usage, not ownership.

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*Profitability in manufacturing operations naturally depends on the effective deployment of the available resources, both in equipment and personnel. In times of normal demand this is well regulated but occasional unplanned surges can stretch those resources to breaking point. This is where third-party help may be called on to bridge the gap but there is often a reluctance to engage outside organisations in production operations: technical expertise, culture differences, confidentiality and perceived cost are just a few of the concerns raised, all of which are real and not to be discounted.*

*However, engaging assistance from a specialist organisation committed to becoming a partner in maintaining and enhancing your company's reputation and profitability can be the most sensible option available in times of stress. And even operating under normal conditions the decision to sub-contract out some part of the measurement burden can be the most cost-effective route to maintaining profitability.*

*Mitutoyo provides such measurement services at the company's Coventry and Halifax sub-contract measurement centres where a full range of expert, confidential, measurement and reporting and programming services is offered that you can take full advantage of for increasing your current inspection capacity, assisting with the CMM programming load, investigating non-conformance issues and validating other inspection methods. The most demanding components can be measured, profiled, analysed, scanned, programmed or compared to CAD data. In fact, any QC, QA production or SPC function can be carried out on your behalf with speed and precision, providing maximum support to your overall project plans. Use the world-renowned expertise of Mitutoyo to enhance your production operations and derive maximum benefit from the use, rather than ownership, of a valuable resource.*



## Component inspection

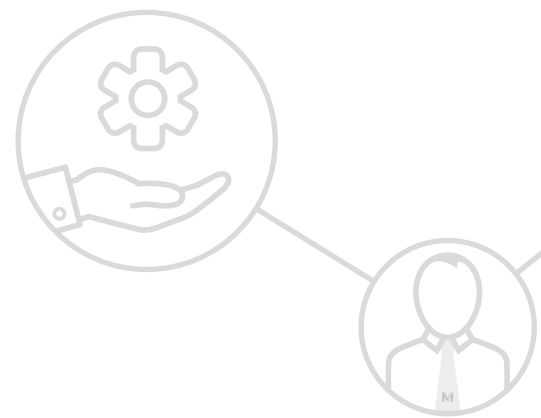
Open the door to expanding your measuring capacity.

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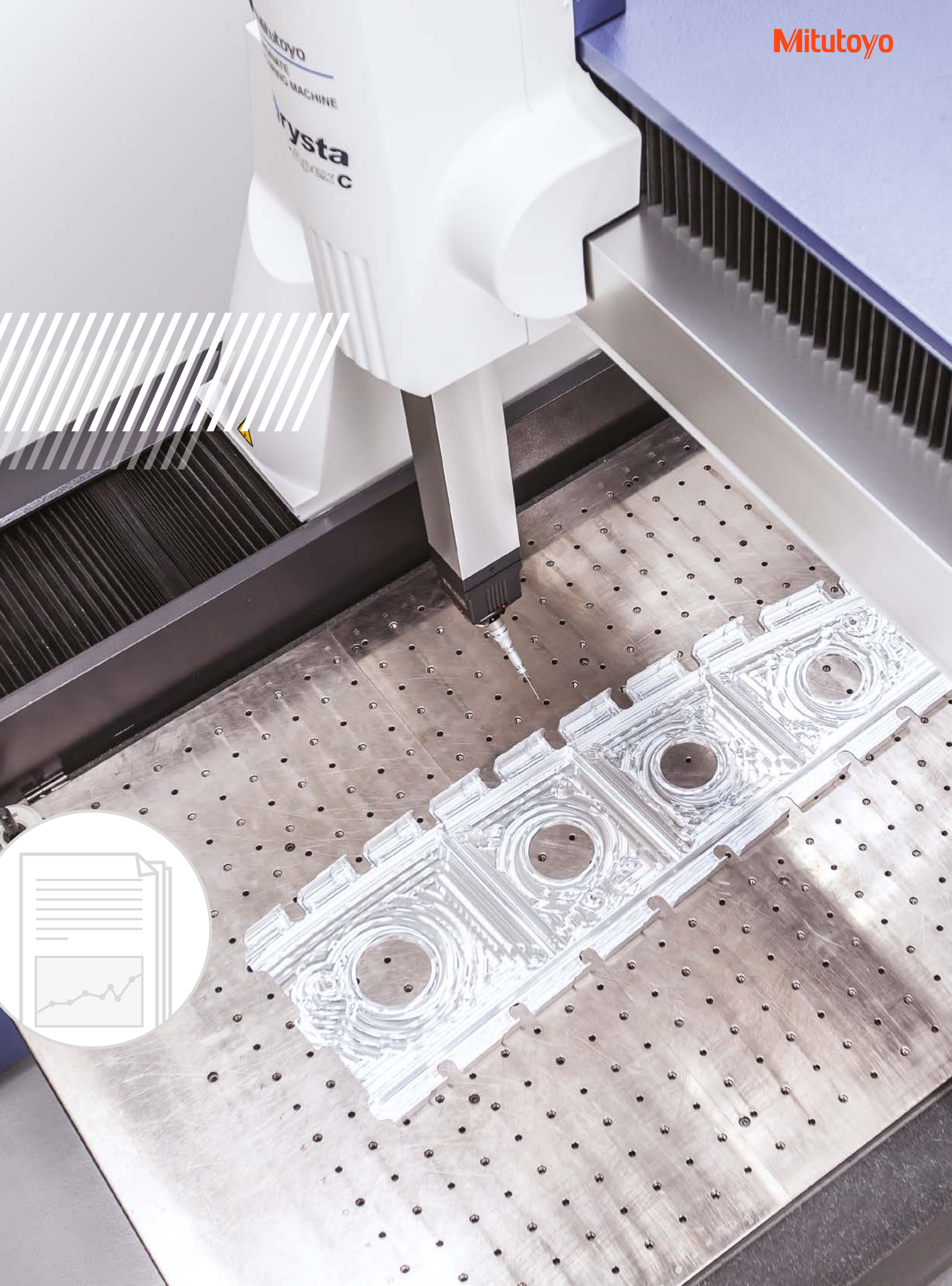
*Working close to the production limit there is often little scope for a sudden increase in component measuring capacity, and even if extra equipment and trained staff could be found at short notice it makes little sense to invest in capital equipment and personnel that may only be needed for a relatively short period.*

*This is where Mitutoyo's Contract Measuring Service can be of great value to you. It's like having a door you can open to reveal an extension to your shop floor, already filled with the highest grade CMMs and some of the most knowledgeable, skilled and productive people available anywhere – all ready to be quickly brought online to help cope with a surge in production that would otherwise leave your regular inspection staff under intense pressure, and possibly unable to cope.*

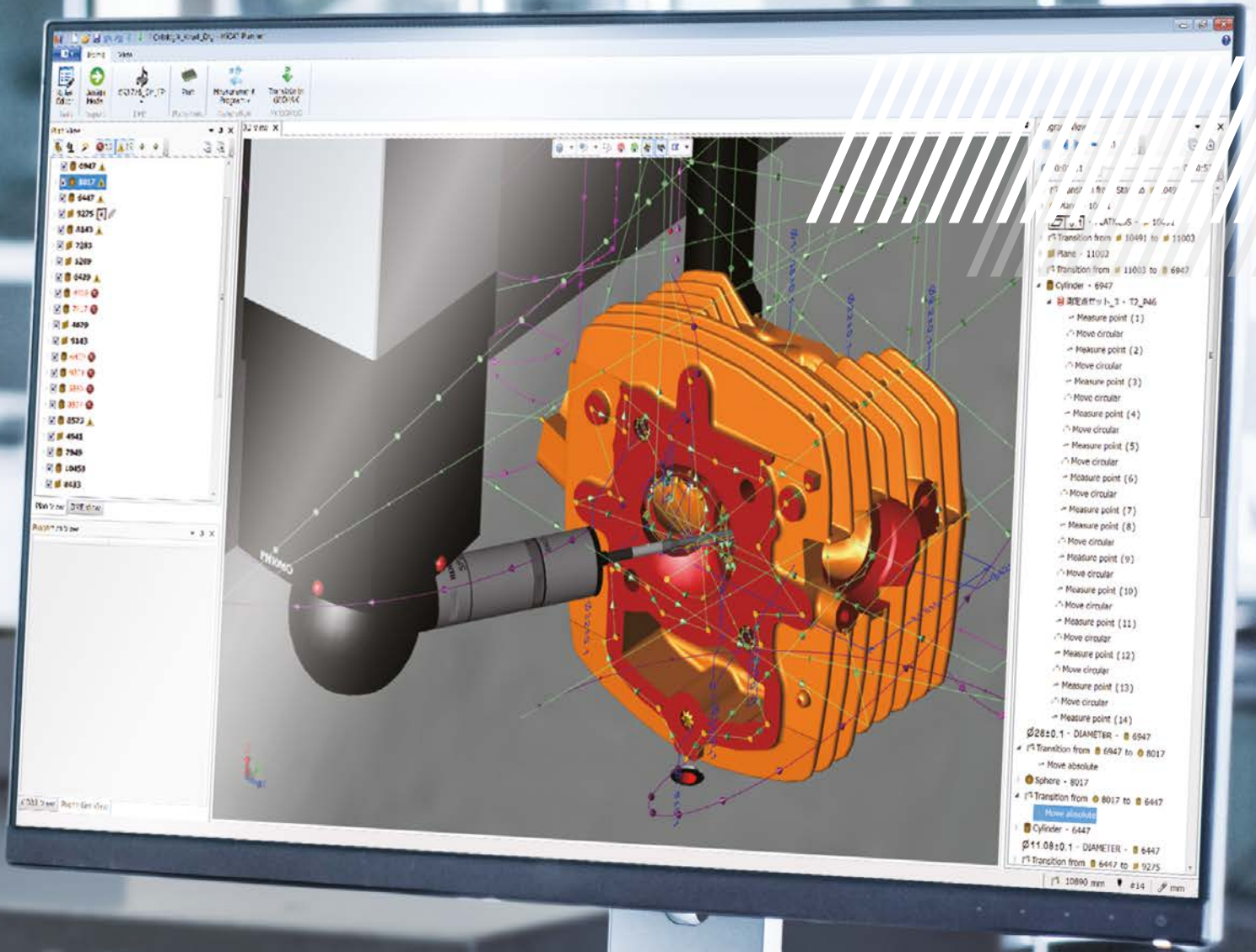
*But that's only half the story. When, or if, that surge dies down then you can just close the door again and revert to normal operations, without all the heavy costs and disruption involved in reducing machine inventory and, especially, staffing levels. Like all third-party services it may look expensive at first sight, but taking into consideration the cost savings outlined above it is easily seen that this is the most cost-effective solution for absorbing temporary fluctuations in measuring capacity.*











## MCOSMOS program creation

Expertly written programs make the difference.

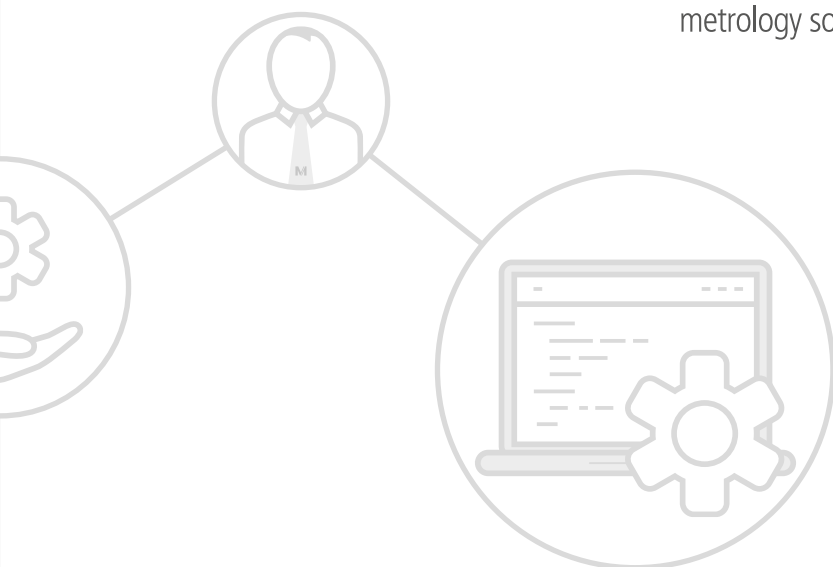
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*The MCOSMOS software system is very powerful in terms of functions that enhance the efficiency of measurement on Mitutoyo CMMs. To make the most of the system's features the programmer needs to know the system inside out, especially the possibilities that can make a significant difference to cycle time.*

*Mitutoyo's Measurement Services department is staffed by expert MCOSMOS programmers whose services are available to you whenever it is felt that extra, or specialist, assistance is wanted. Part-programs for any of your Mitutoyo CMMs can be quickly written and delivered to you fully tested and verified remotely – or by site visit if appropriate.*

*This service can be an extremely cost-effective solution when production needs are outstripping in-house programming capacity, enabling the QA department to seamlessly switch from one job to the next with minimum changeover time. It can even be used to help build your library of part-programs in the background in anticipation of meeting the needs of a planned expansion of measuring capacity or workload.*

**MiCAT**  
Mitutoyo Intelligent Computer Aided Technology  
the standard in world  
metrology software



## On-site services

From contract programming to support, consultancy and training.

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*If required we can provide medium- to long-term placement of a CMM programmer on your site to assist when the workload exceeds your programming capacity. This gives you the breathing space necessary to determine whether the workload has permanently increased or is just a temporary fluctuation, allowing you the freedom to make an unhurried and considered decision about committing to bringing extra permanent staff on board, or not.*

*Assistance with helping organise your measurement systems and optimising the performance of your Mitutoyo CMMs is a speciality of our highly trained and knowledgeable staff. Efficiency gains can be substantial and in almost all cases without needing heavy investment. Impact on the bottom line is immediate and payback time is short.*

*Expert training is vital to enable your staff to deliver the maximum benefit from your capital investment and this applies more to CMM operations than practically any other aspect of the QA function. Mitutoyo's training service is flexible, tailored around your needs, and delivered by an experienced CMM programmer at Coventry or Halifax – or on-site, as required.*









## Industry sectors

We're a partner you can call on in times of need.

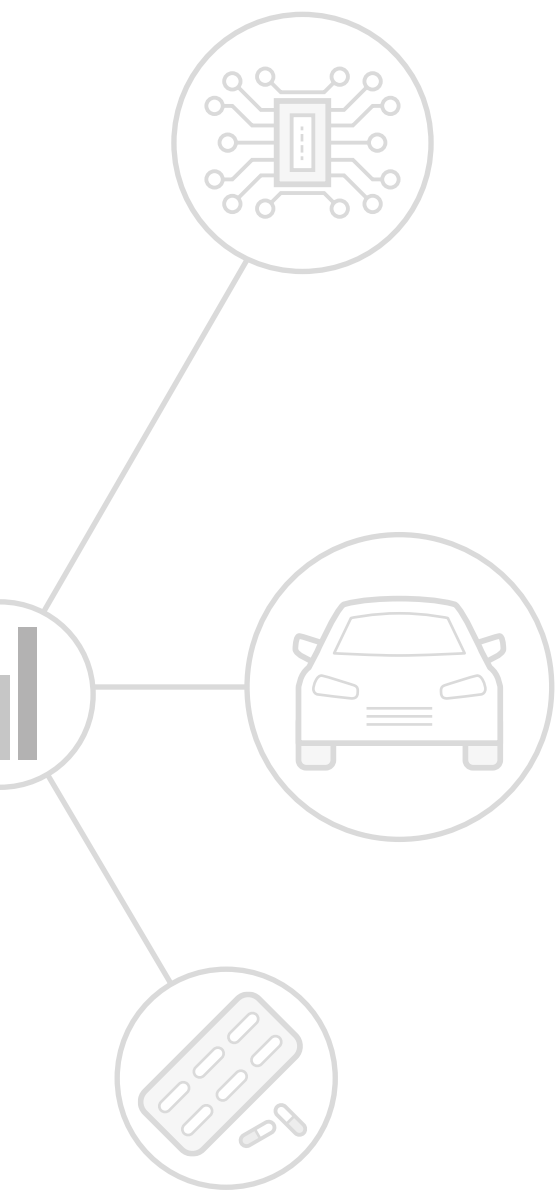
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Read how Mitutoyo's Measurement Services helped our customers step up to meet timescale challenges and solve quality control issues...

*An aerospace company won a contract for the manufacture of four new bladed-disk designs. However, time constraints meant that they did not have the resource to complete all the CMM programming needed prior to the start of production. They called on Mitutoyo and Measurement Services created the programs for the company offline and delivered to site in time to use when the first parts were produced.*

*A medical company had some major quality issues with orthopaedic implants and needed to considerably increase the scope of CMM inspection over a 20-month period. They needed site support as they could not recruit or train anyone quickly enough to fulfil the requirements of this highly specialised role. A call to Mitutoyo resulted in Measurement Services placing a senior programmer permanently onsite for the whole 20 months to handle the extra programming tasks and meet their quality requirements.*

*A well-known automotive hose manufacturer had some quality issues with a particular air conditioning hose that could only be resolved by CMM inspection of some critical dimensions. As the company's quality department did not possess a CMM of their own they called on Mitutoyo's Measurement Services to check a sample of their product at short notice. This inspection produced results that enabled effective action to be taken to resolve a manufacturing glitch. The company now uses Measurement Services on a monthly basis as part of their established quality procedures.*







**Whatever the challenge, Mitutoyo supports you from start to finish.**

Mitutoyo is not only a manufacturer of top-quality measuring products but one that also offers qualified support for the lifetime of the equipment, backed up by comprehensive services that ensure your staff can make the very best use of the investment.

Apart from the basics of calibration and repair, Mitutoyo offers product and metrology training, as well as IT support for the sophisticated software used in modern measuring technology. We can also design, build, test and deliver bespoke measuring solutions and even, if deemed cost-effective, take your critical measurement challenges in-house on a sub-contract basis.

**Note:** All information regarding our products, and in particular the illustrations, drawings, dimensional and performance data contained in this printed matter as well as other technical data are to be regarded as approximate average values. We therefore reserve the right to make changes to the corresponding designs, dimensions and weights. The stated standards, similar technical regulations, descriptions and illustrations of the products were valid at the time of printing. In addition, the latest applicable version of our General Trading Conditions will apply. Only quotations submitted by ourselves may be regarded as definitive.

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