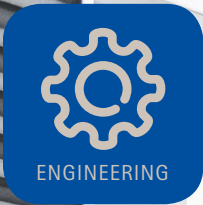




Tailor-made for your manufacturing

MAPAL SERVICES FOR SETTING FIXTURES

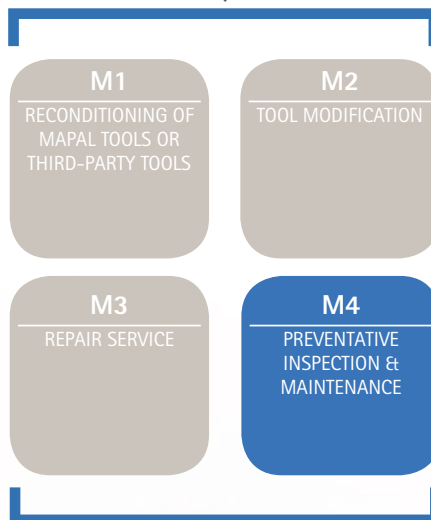
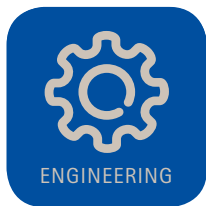




TAILOR-MADE SERVICE FOR YOUR MANUFACTURING

We offer a service to assist you in all phases and areas of production, from engineering services to training. No matter the extent to which you avail yourself of our services, we will support you and work with you to make sure that you get the most out of your processes. When it comes to maintenance, we have a range of modular services that can help you to achieve further savings.

MAPAL SERVICES



**The precision and durability
that you expect**

Inspection and maintenance services from MAPAL will extend the service lives of your setting fixtures while ensuring precision and process reliability in your manufacturing.



We'll provide the right settings

MAPAL has decades of experience in developing, producing and maintaining setting fixtures and measuring devices. High product quality, custom-made services and cultivating a loyal customer base are at the heart of everything we do.

From the advice that we offer to help you choose the right device to commissioning and on-site training, as well as regular preventative maintenance and repair, we at MAPAL are always there to lend a hand through our services.

HIGH SERVICE QUALITY

- Short response times
- Close contact with customers
- Rapid technical support via hotline and remote maintenance
- Enduring relationships thanks to service contracts
- Digital device documentation
- Highly trained service staff

DEPENDABLE SPARE PARTS MANAGEMENT

- High spare parts availability
- Downtimes kept to a minimum
- Quick deliveries
- Short installation times

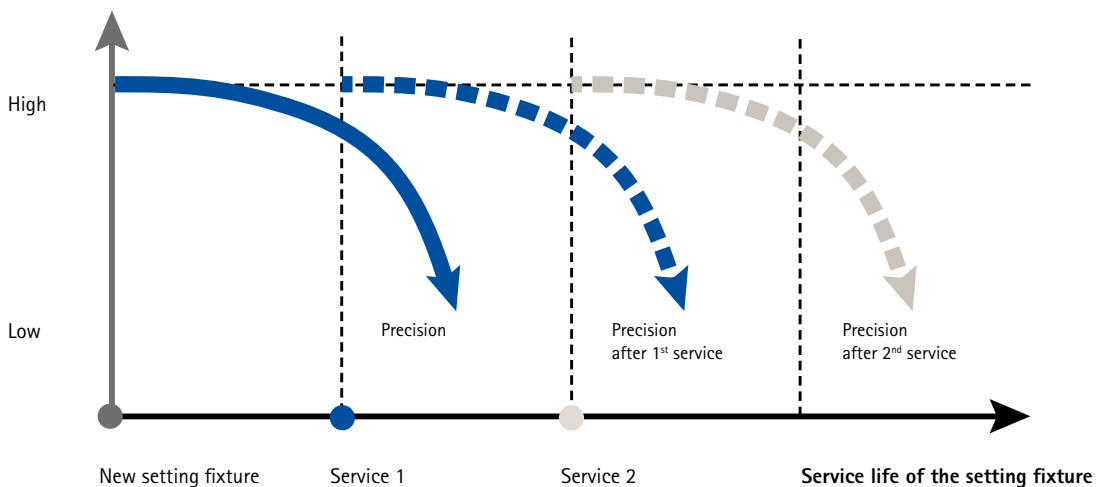


SERVICE FOR SETTING FIXTURES

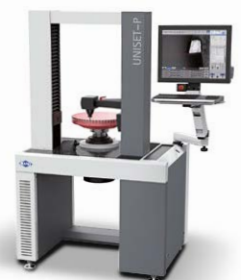
Setting fixtures are a key part of your manufacturing processes. They need to guarantee reliability, high manufacturing quality and exact tolerances, 24 hours a day. Complete functionality and lasting precision are therefore absolutely essential for any setting fixture. Regular maintenance intervals and calibration processes not only extend a device's service life but also elevate the necessary precision and process reliability to the level of quality expected of a new device.

MAINTENANCE INTERVAL (recommended: once per year)

Quality and accuracy



SETTING FIXTURES



M4

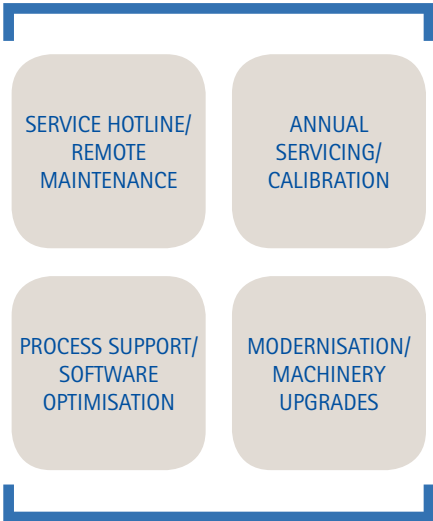
PREVENTATIVE
INSPECTION &
MAINTENANCE

SERVICE MODULES

CREATING PRECISION



ENSURING PRECISION





CREATING PRECISION

MAPAL is on hand to help you to improve the precision, process reliability and durability of your setting fixtures. Thanks to commissioning and training, you will receive a fully set up and functional setting fixture as quickly as possible, including all the information needed to operate it correctly. We will also help you to create specific measurement applications and will hand over your setting fixture in a completely ready-to-use state.



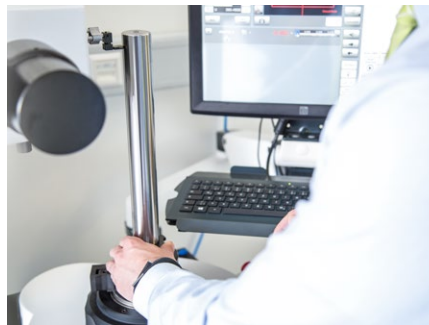
COMMISSIONING

Highly trained service staff will commission hardware and software components on your premises.

- Connecting and setting up the setting fixture
- Checking the system geometry
- Testing system functions
- Creating a final inspection report
- Providing basic training in how to use the setting fixture

WHAT YOU GET

- A fully functional machine in the shortest time possible
- A final inspection of your setting fixture



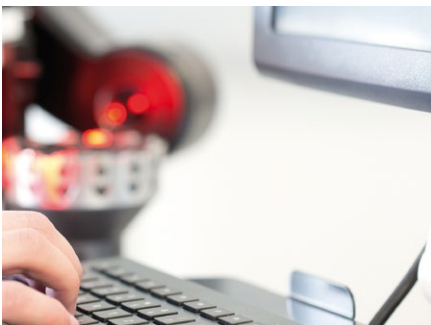
MEASUREMENT SYSTEM ANALYSIS

We offer a measurement system analysis service to ensure the quality of your manufacturing. The measurement system analysis using Cg/Cgk, CMR or R&R processes verifies that tools can be measured to the desired tolerances.

- The compatibility of the device with measurement systems is checked by highly trained service staff
- Inspection intervals can be set at any length

WHAT YOU GET

- Necessary precision guaranteed
- Verified measurement system compatibility



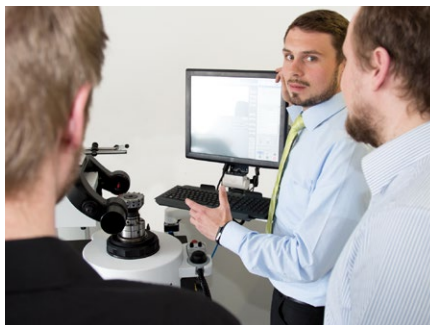
TOOL TRANSFER AND ADDITION

To enable the setting fixture to be made available and subsequently used as quickly as possible, we will add your existing tools during this module of the service.

- Adding tools to the database
- Programming data sets in compliance with program structures
- Creating applications for tool measurement on customer premises
- Providing training in using the setting and measurement applications created

WHAT YOU GET

- Software can be flexibly customised to suit customer needs
- Setting fixture handed over ready to use
- Assistance with defining measurement and setting data



TRAINING

MAPAL offers extensive training to help you make efficient use of your setting fixtures.

- Various training packages to suit differing requirements
- Aimed at specific target groups
- On-site training available

WHAT YOU GET

- Basic functions that can be learned quickly
- In-depth information about functions
- Efficient day-to-day working

TRAINING PACKAGE 1 (0.5–1 DAY)*

Target group: tool adjustment specialists

- Basic training in using the device (software training; calibration; manual measuring)

TRAINING PACKAGE 2 (1.5–2 DAYS)*

Target group: programmers

- Training package 1
- Adding tools to the database
- CNC setting fixture operation

TRAINING PACKAGE 3 (2–3 DAYS)*

Target group: administrators

- Training package 2
- Training in database administration (backing up/deleting data sets; backing up/deleting/adding tools)

* Depending on the number of participants and the setting fixture in question.



ENSURING PRECISION

MAPAL offers a range of services aimed at making sure that your setting fixtures and measuring devices keep on working accurately and reliably. In addition to annual servicing to extend the service life of your machinery, these include providing support for breaking in new tools, optimising program flows and re-tooling your devices. You can also consult the service hotline for technical support.



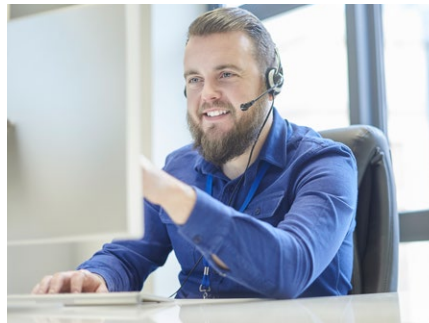
ANNUAL SERVICING/ CALIBRATION

Annual servicing and calibration involve the service team inspecting your device carefully, following a standardized inspection report as they do so.

- Inspecting device geometry, backlash on all axes, radial run-out of spindles, belt tension
- Replacing small wear parts
- Calibrating using certified calibration tools
- Updating software
- Cleaning the setting fixture

WHAT YOU GET

- A fully functional setting fixture
- Inspection label
- The latest software every time
- Longer service life



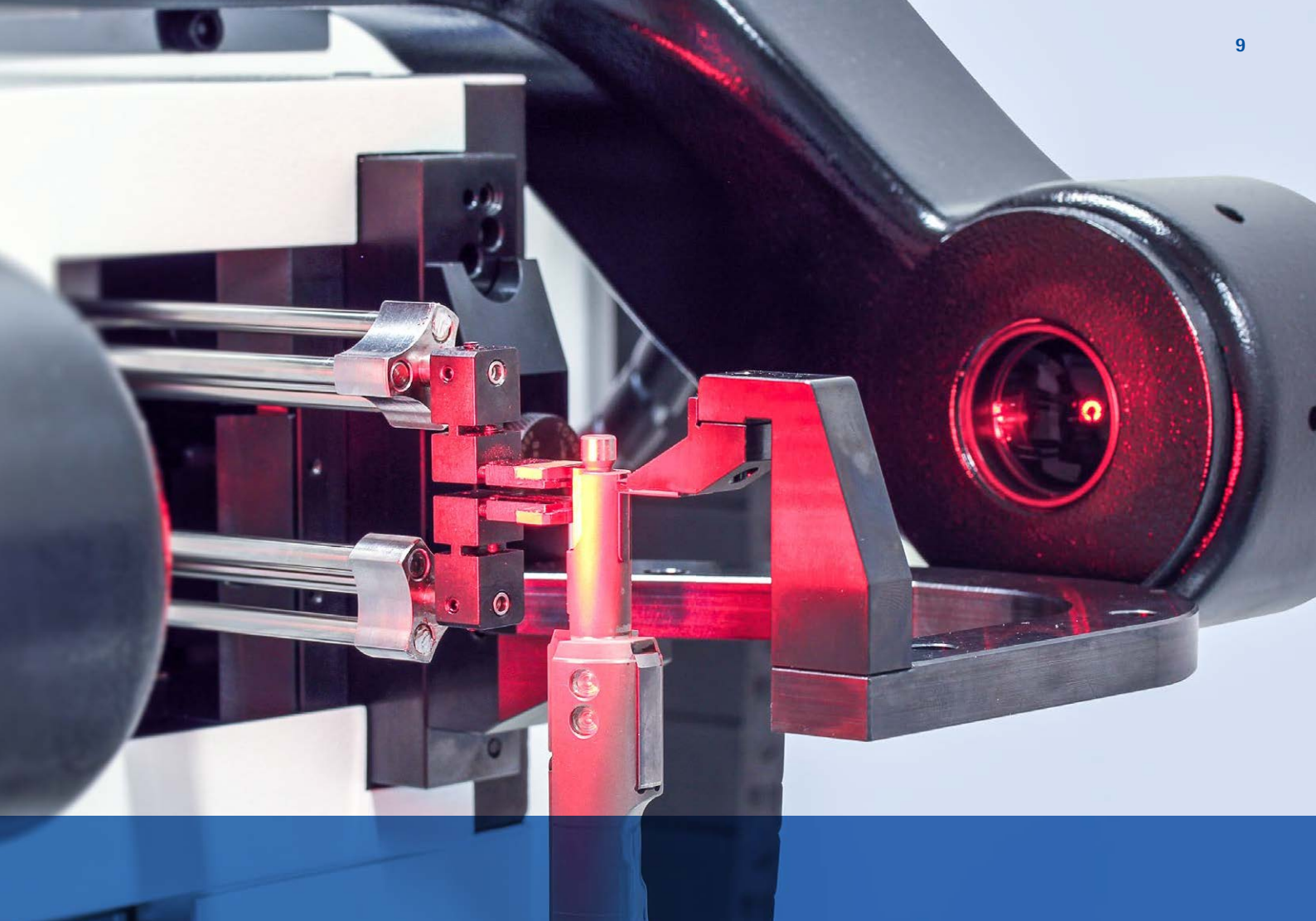
SERVICE HOTLINE/ REMOTE MAINTENANCE

Do you need help setting up tools? Do you have any questions about how to use the software? Do you require assistance with troubleshooting? Our highly trained service team will be happy to help you.

- Free technical support available 07:00–17:00
- Problem-solving and fault analysis can be carried out via remote access
- Support with user queries

WHAT YOU GET

- High availability
- Rapid analysis by highly trained service staff
- Downtimes kept to a minimum thanks to fast support



PROCESS SUPPORT/ SOFTWARE OPTIMISATION

Expert service staff are on hand to optimise or update your measurement application workflows.

- Updating factory data and optimising cycle times
- Providing support for breaking in new tools
- Optimising measurement application workflows
- Assistance with defining measurement and setting data

WHAT YOU GET

- Time saved thanks to optimisations to measurement applications
- Customised modifications to existing workflows
- Expertise



MODERNISATION/ MACHINERY UPGRADES

Only with state-of-the-art setting fixtures can you ensure the necessary reliability and precision in your manufacturing. A modular design means that we can upgrade almost all our devices.

- Evaluating the existing setting fixture
- Re-tooling the device (hardware/software) on customer premises or at MAPAL
- Instructing customer employees in how to use new functions

WHAT YOU GET

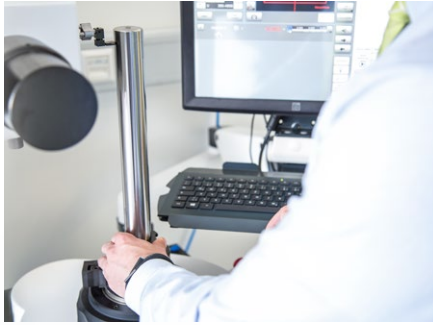
- The latest measurement capabilities at all times
- Enhanced measurement functions thanks to new software
- Better spare parts availability for new components



CUSTOMISED SERVICE CONTRACTS

Service contracts from MAPAL with periods adjusted to suit each individual customer make a lasting contribution to precision, process reliability and cost-effectiveness in your manufacturing. We will make sure you get the best possible support by working with you to take your requirements and the circumstances of your manufacturing processes into account in choosing the required services from four modules.





ANNUAL SERVICING/ CALIBRATION

You can set fixed dates in your contract for our service staff to maintain and calibrate your device. This service will extend the service life of your device, and it will remain fully functional.

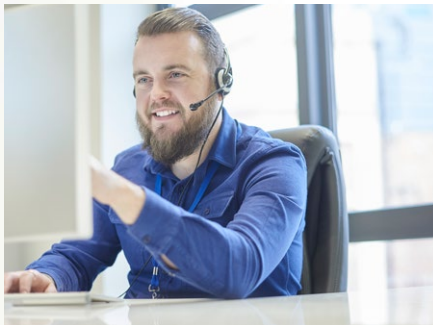
- Inspecting device geometry, backlash on all axes, radial run-out of spindles, belt tension
- Maintenance every six months or throughout the year
- Ensuring your device functions correctly
- Calibrating using certified calibration tools
- Extending the service life of your device
- Minimising the risk of failure
- Software updates included
- Inspection label
- Predictable costs



BREAKDOWN SERVICE

Our breakdown service can come to you to help with acute problems or malfunctions. Response times when malfunctions occur can be agreed on a flexible basis.

- Defined on-site response times (e.g. within 24 hours) by service staff in case of malfunctions
- Predictable costs for service call-outs
- Spare parts management



SERVICE HOTLINE/ REMOTE MAINTENANCE

Our service hotline staff are there to help you, ready to answer any questions as quickly as possible and to solve problems.

- Availability of technical support can be agreed to suit you
- Rapid response for problem-solving
- Fault analysis via remote maintenance
- Downtimes kept to a minimum
- Support with user queries



SOFTWARE UPDATES

The 'Annual servicing/calibration' service module comes with the 'Software updates' module already included. Software updates are of course available separately as well.

- Annual software updates
- Update via remote maintenance or on-site
- All new functions installed
- Brief introduction to using the software





Discover tool and service solutions now that give you a lead:

REAMING | FINE BORING

DRILLING FROM THE SOLID | BORING | COUNTERSINKING

MILLING

TURNING

CLAMPING

ACTUATING

SETTING | MEASURING | DISPENSING

SERVICES

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