

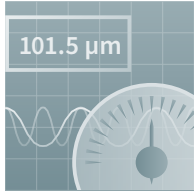
## Always one byte ahead

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3plusplus GmbH is your software developer for measurement and automation technology and operator guidance. For more than 15 years, we have been successfully developing and optimising software for industrial systems, devices and machines.

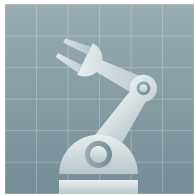
# Services

## › Applications



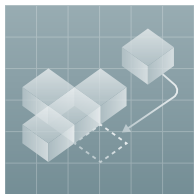
### Measurement technology

Our software offers you a wide range of universal features and tools for demanding measurement applications with the highest standards of precision and reliability.



### Automation technology

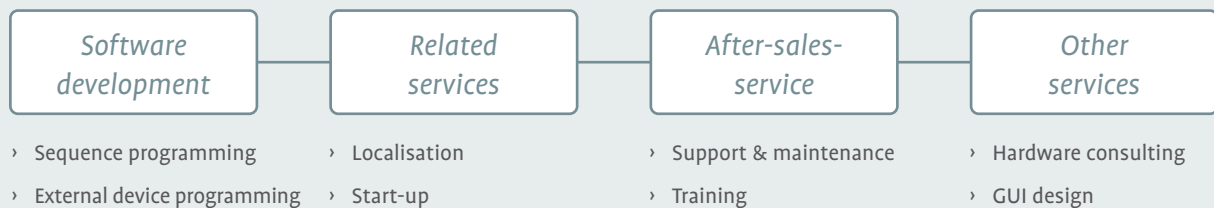
With sequence control, continuous measurement and condition monitoring, as well as sophisticated visualisation, our software ensures that your production process runs smoothly with high levels of efficiency and product quality.



### Operator guidance

Individual software for assembly workplaces guides your employees step by step through the process, provides them with all relevant information exactly when they need it and reduces your reject rate.

## › Our range of services:



## › Benefits & special features

- › Individual software from a quantity of one
- › Flexible solutions through open and modular system architecture
- › Parallelisation of different measurement and automation tasks
- › Integration of multi-sensor systems
- › Support for industry standards such as OPC UA
- › Fast start-up through virtualisation of hardware
- › High reliability through capability tests
- › Function and company-specific user interfaces

# Suitable solutions for every project

Our high-performance software is used in a wide range of industries – such as the automotive, electrical engineering and solar industries – and ensures the smooth operation of machines and the quality of industrial products on a daily basis.

## › Individual user interfaces



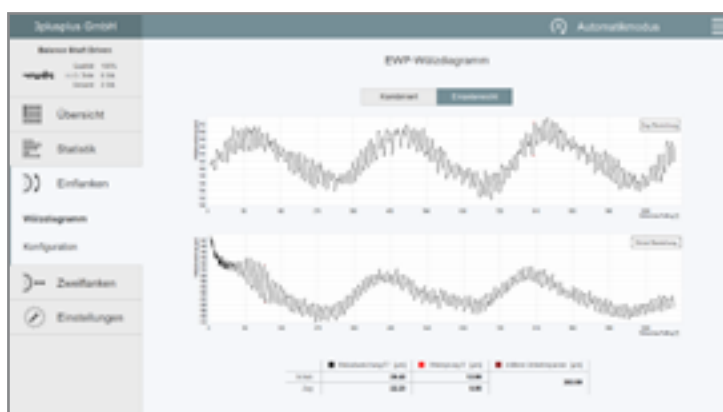
- › Custom-fit HMI for every application
- › Integration of graphics and images
- › Tailored to your corporate design
- › Simple operation and fast familiarisation
- › Access authorisation and user management

## › Versatile analysis tools



- › Time, part and lot-oriented view
- › Easy switching between general and detailed views
- › Highlighting exceeded tolerances
- › Qualitative assessment of parts
- › Determination of statistical indicators and other parameters

## › User-oriented visualisation



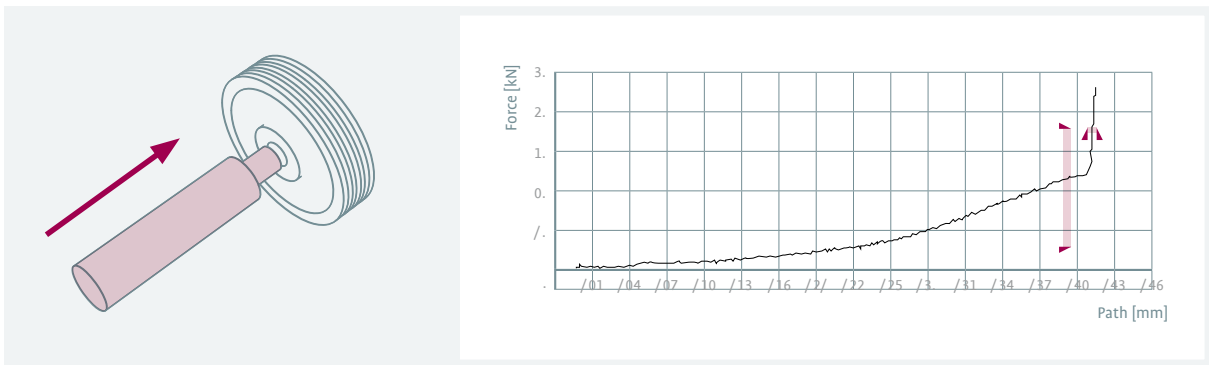
- › Wide range of visualisation options
- › Modes for different user groups
- › Fast localisation and customisation to changed requirements
- › Consideration of standards and industry-specific forms of representation
- › Usability tests and adaptation

# Solutions

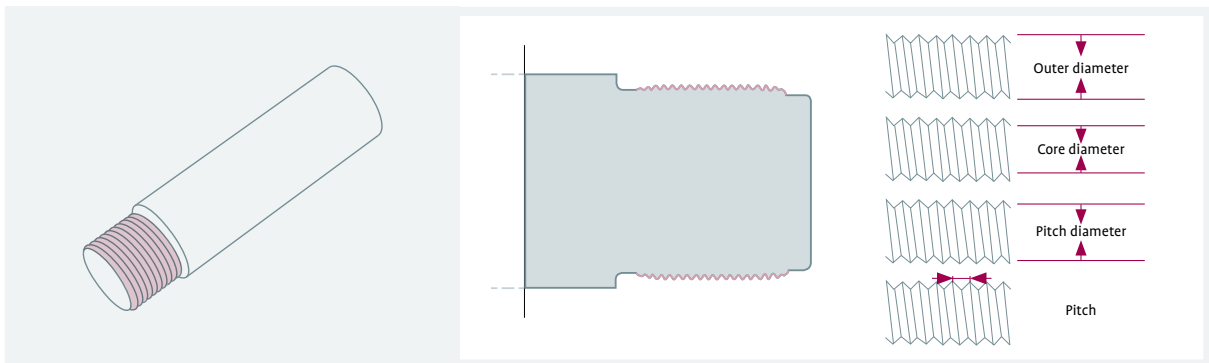
We develop individual software in-house using the **modular principle**. By **freely combining** existing and new building blocks – depending on requirements – **customer and application-specific** software can be created quickly and easily. We develop software for devices, machines and systems, starting from a quantity of one. Thanks to the **high flexibility** of the modular software, a wide range of areas of activity and industries can be served.

## › Applications

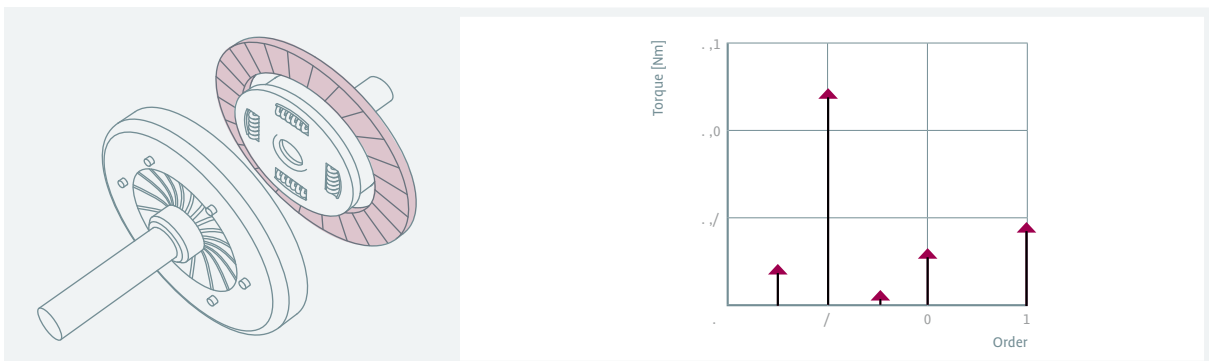
### Measurement of joining processes



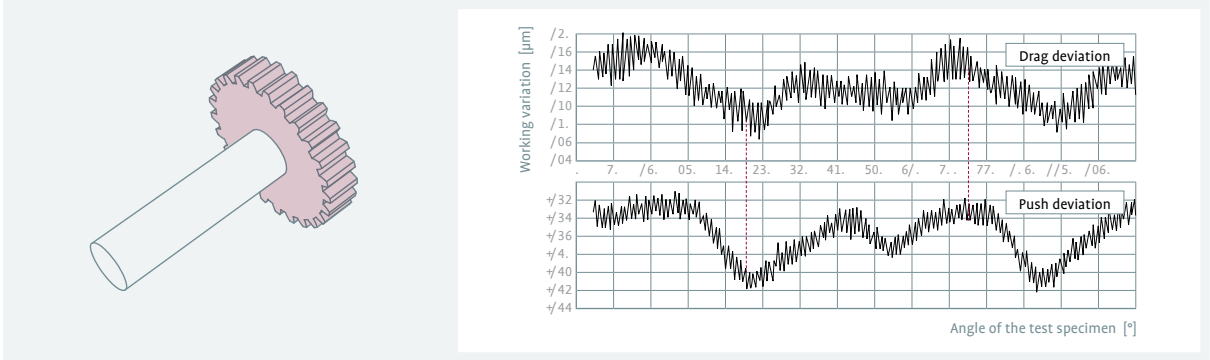
### Thread measurement



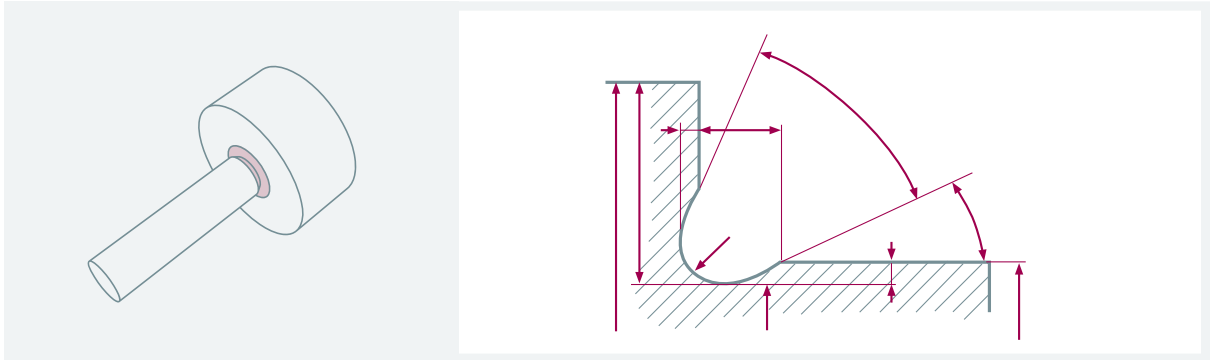
### Coupling measurement



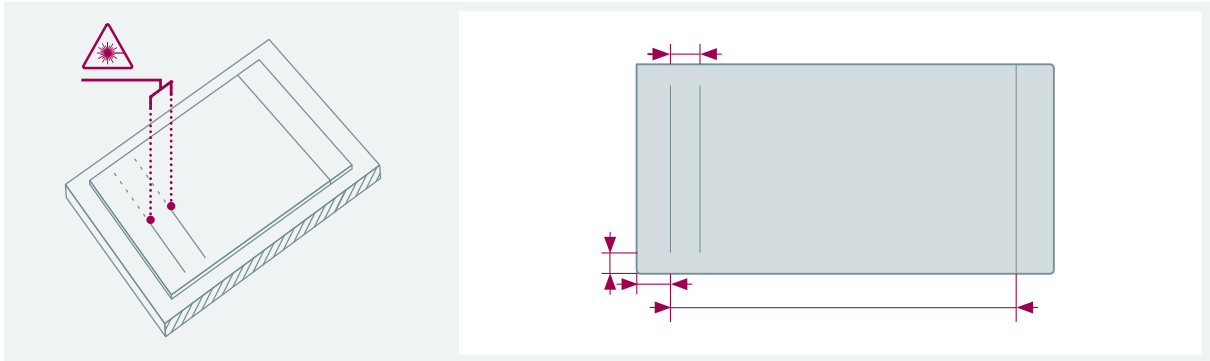
### Gear measurement technology



### Undercut measurement



### Laser scribe



### Other applications

- › Axial clearance measurement
- › Haptic testing
- › Bearing preload
- › Multi-position measurement
- › Rail measurement
- › Shaft measurement
- › Etc.

# In use around the world

Argentina  
Brazil  
Canada

China  
Czech Republic  
Germany

India  
Italy  
Malaysia

Mexico  
Poland  
Slovakia

South Africa  
Switzerland  
Taiwan

Turkey  
USA  
Vietnam



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