

Software FormControl V3

5-Axes
Best-Fit
Collision Control

focus on productivity

FormControl V3

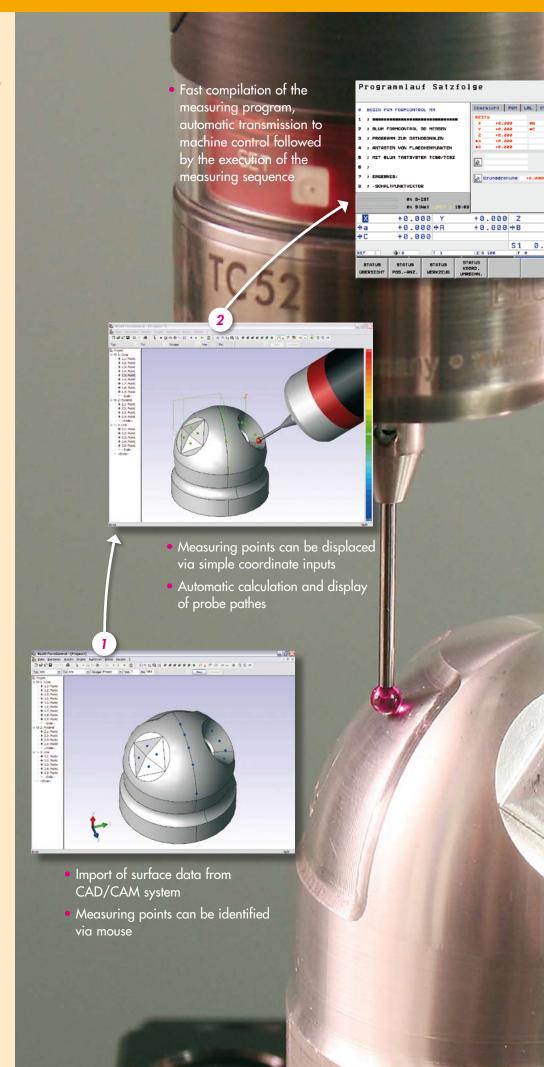
Your advantages

- Contour measurement in the machining center
- Fast detection of machining errors
- Immediate rework in initial setup
- Easy to use with logically structured and self-explaining user interface
- Increase of in-process reliability
- Application with any probe system desired

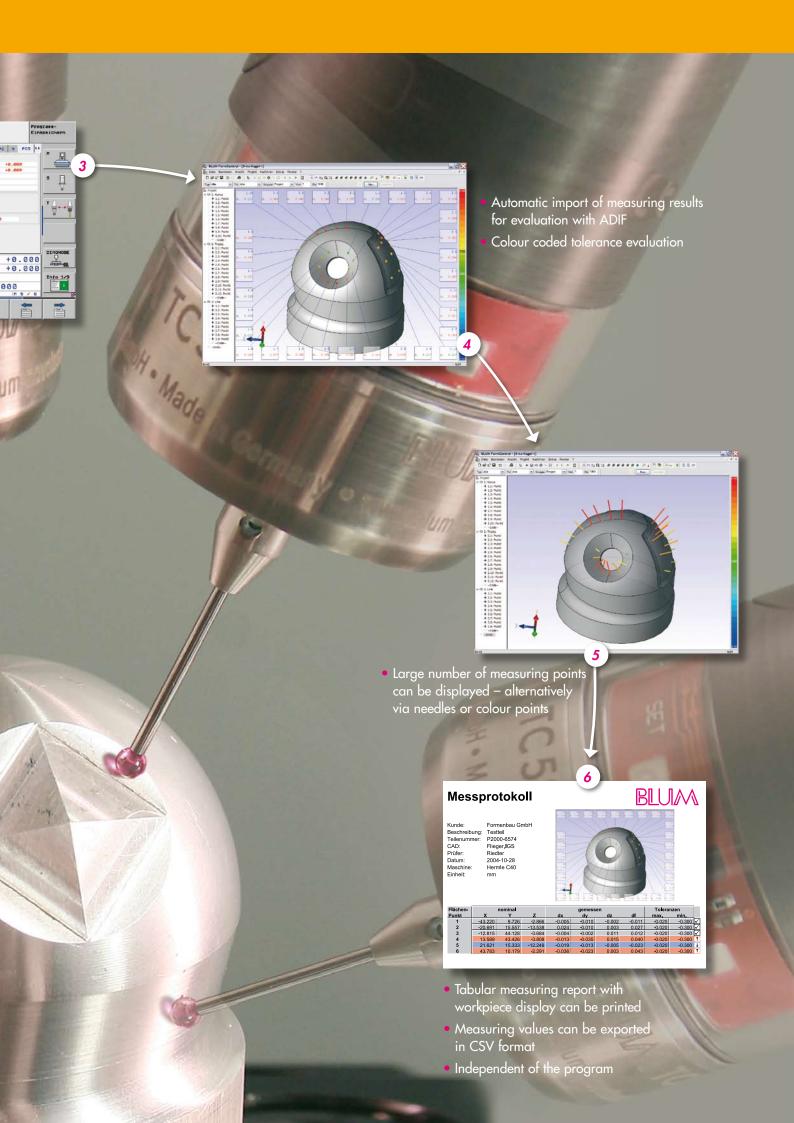
Early problem identification

- Incorrect cutting parameters
- Wrong tool dimensions
- Incorrect tool orientation
- Tool wear
- Thermal drift of machining center
- Setting errors

Simplified economic production of highest quality







New Features

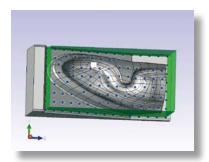
Collision control

 Collision detection for 3-axes or 5-axes machines: before they affect the machine



Alignment

- Simplified referencing between work piece and machine coordinate system
- Correction of setting errors of work piece and probe system
- Compensation of thermal drift of machining center
- Compliant with standards of measuring machines



New measuring point generation

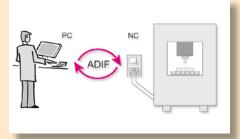
- Even spread and fast generation of a large number of measuring points
- · Along a line or by means of a grid
- Measuring points can be imported by CAD/CAM



Grouping

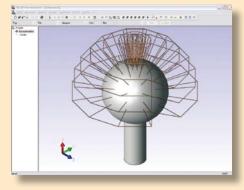
- Time saving for generation and measurement of large projects
- Simultaneous modification of measuring point characteristics of one group
- Structuring even with a large number of measuring points

FormControl V3



ADIF

- Measurement by mouse click
- · Compilation of program to control
- Automatic import of measuring results



Single calibration

- Initial calibration with ceramic ball only at first setup or after change of stylus
- Minimization of idle times due to unnecessary calibration within measuring sequence
- No restriction of the working area by ceramic ball

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New Features

5-axes

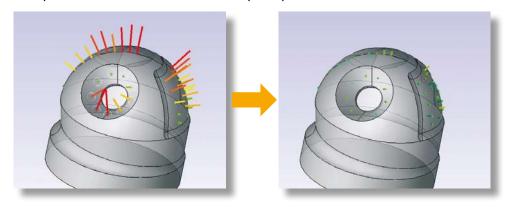
- Any requested orientation of probe system resp. work piece
- Measurement of relief cuts or oblique borings possible
- 5-axes measurement of 5-axes operations
- No measuring point is unreachable



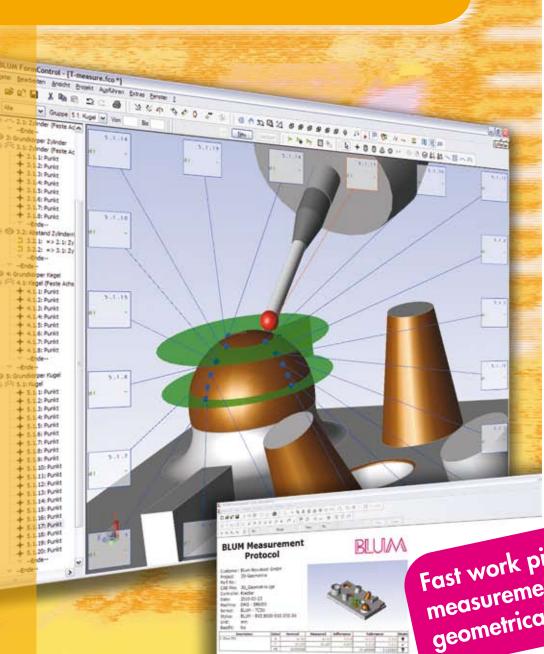


Best-Fit

- Display of production errors at optimum work piece alignment
- Compensation of systematic measuring errors
- Individual weighting of measuring points possible
- Displacement and / or rotation of work piece possible







Software FormControl V4

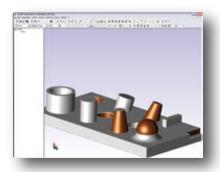
Fast work piece control due to measurement and analysis of geometrical standard elements

Simplification manufacturing processes

Avoidance of scrap parts

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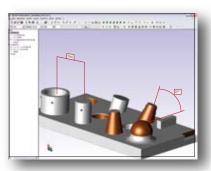




Measurement of geometrical standard elements

Fast and flexible measurement of:

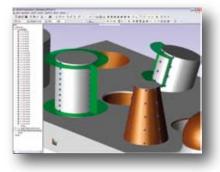
- bore & pin
- sphere
- cone
- bar & groove
- radius
- step



Analysis function

Comfortable checking of related geometrical elements:

- Fast verification of distances from one element to the other
- Angular positioning from one element to the other
- Cone angle and shaft angle
- Reference or chain dimensioning



Flexible definition of measuring points

Work piece related adjustment of the measuring procedure:

- Number of measuring points on one section
- Number and position of sections on a geometric element
- Element specific predefinition of start and end angle (circular arc)

BLUM focus on productivity

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Workshop oriented handling

- Use of reference elements for following measurements
- Time savings due to drag & drop function
- Results in the measuring protocol can be displayed flexibly
- User-friendly handling