

ThomControl

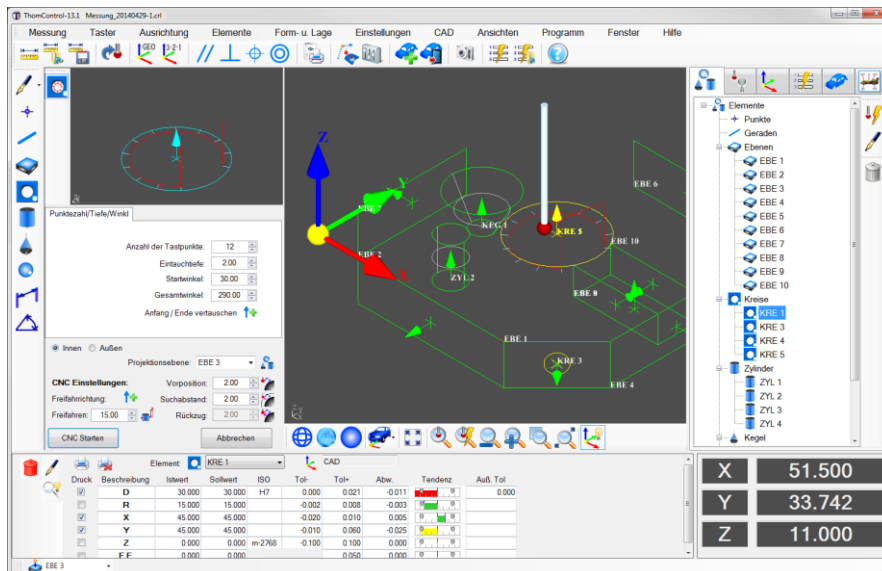
User-friendly inspection software

The inspection software **ThomControl** is **very easy to use**.

An **extensive graphical support** allows even inexperienced operators after a few days the efficient and time saving inspection. **Teach-In** measurement programs can be learned by using the joystick. If the operator works with a CAD model, the **features can be selected via the CAD file with a mouse click and automatically measured**. The measurement program is generated automatically in the background. For all items **CNC probing strategies** are available, which are displayed visually and **can be configured as required**.

ThomControl based on the **I++ DME communication standard** and can be used with all the hardware components that support this interface. Therefore **modernization (RETROFIT)** of old **CMM's** from any manufacturer is cost effective possible.

ThomControl Basic geometry

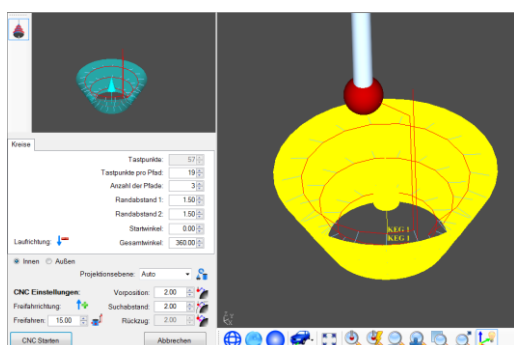


Simple, intuitive operation with graphical support through a **clear user interface**.

Easily create alignments with the **3-2-1-alignment** or the **Geometric alignment** respectively with **graphic preview**.

The **nominal values** of the elements can be **entered in clear windows** and then be **automatically measured via a displayed CNC measuring strategy**. A **tolerance database** with the ISO tolerances according to DIN ISO 286 is available. The **measurement results** are displayed directly in the result window **with graphical trend bars**.

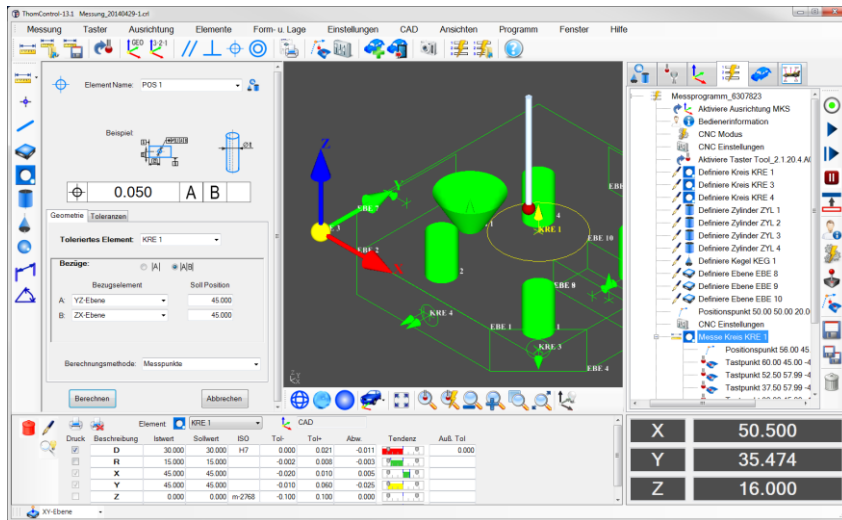
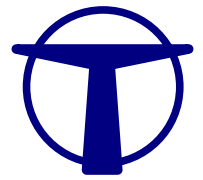
Comprehensive form and position evaluations such as parallelism, per-



pendicularity, concentricity, position, flatness, straightness, etc. are available.

Measuring programs can be easily created and very easily changed by double clicking on the program line. Both CNC and manual measurement programs can be generated.

THOME PRÄZISION		Bericht Nr.: 123456	Benennung: Muster			
		Zeichn. Nr.: 789	Serien Nr.: 001			
		Prüfer: M. Thome	Bemerkung: Erstmuster			
Ergebnisse						
PUNKT 6 Geometriepunkt Beliebiger Kommentar						
Merkmal	Istwert	Softwert	Tol -	Tol +	Abw.	Tendenz
Z	-147.104	-147.000	-0.500	0.500	-0.104	
KRE 1 Kreis						
Merkmal	Istwert	Softwert	Tol -	Tol +	Abw.	Tendenz
DRM	6.046	6.000	0.010	0.058	0.012	
Y	22.000	22.000	-0.200	0.200	0.000	
Z	-37.000	-37.000	-0.300	0.300	0.000	
KRE 4 Kreis						
Merkmal	Istwert	Softwert	Tol -	Tol +	Abw.	Tendenz
DRM	18.351	18.000	-0.500	0.500	0.351	
Y	38.382	-38.000	-0.350	0.350	-0.382	
Z	-15.965	-15.786	-0.200	0.200	-0.179	
Langloch1 Kreis						
Merkmal	Istwert	Softwert	Tol -	Tol +	Abw.	Tendenz
DRM	6.079	6.100	-0.050	0.050	-0.021	
Y	-19.063	-19.000	-0.200	0.200	-0.063	
Z	-37.008	-37.000	-0.300	0.300	-0.008	

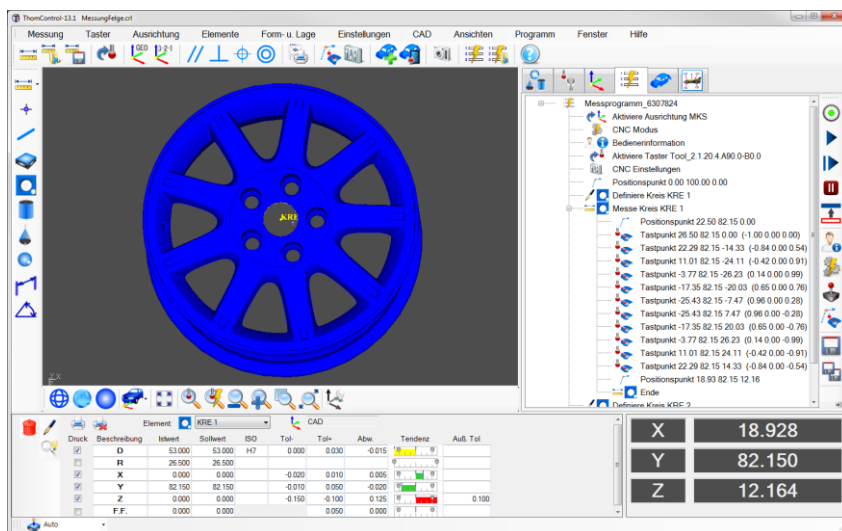


All measurement results are stored and are available again at any time. In addition to the internal file format of THOMControl the measurement reports can also be saved in **Word, Excel and PDF**. The measurement reports are easy to adapt to your layout requirements. Several standard report templates are included.

Various constructions of geometric elements allow extensive calculations of theoretical dimensions.

All items are displayed graphically in 3D and can be printed graphically, for better interpretation of the measurement results.

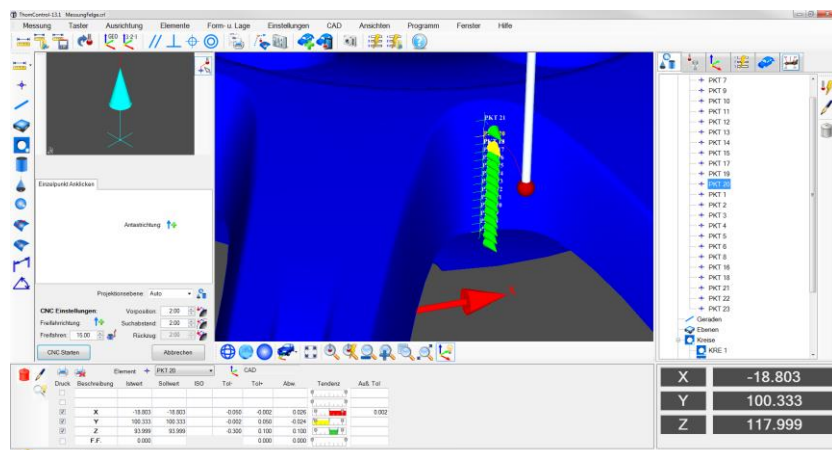
ThomControl Basic geometry with CAD



CAD files in IGS and STEP format can be imported. Elements can be selected via the CAD file with a mouse click and automatically measured. The software proposes a measurement strategy and shows the paths graphically. The strategy may be modified as required.

The measuring program is written by simply clicking the CAD elements. **Nominals** are automatically generated and transferred from the CAD data. The optimal vectorial directions of the measuring points is guaranteed. Any number of measurement points can be approached even in difficult areas. **Measuring programs** can also be created **offline** and the measurement process can be **simulated**. **Graphical views** can be created and recalled at any time.

ThomControl Basic geometry with CAD and freeform surface measurement



The alignment over 6 surface points and the best-fit alignment are available for fast and accurate alignment against a CAD-part.

The measurement of sections can be simply done by clicking start and end point. The point density can be adjusted individually.

Surface shapes can be measured using automatically generated grid of points. Line- and surface shape tolerances are calculated and displayed graphically.