WALTER METROLOGY CENTER 10.0

Experience precision

With METROLOGY CENTER WALTER is starting a new era of measuring. METROLOGY CENTER offers new possibilities to operate HELICHECK measuring machines quite simply. Simply great what this software has to offer.
With METROLOGY CENTER WALTER is starting a new era of operating highly precise measuring machines. METROLOGY CENTER offers a vast number of unexpected possibilities and inspires users with simple operation which makes measuring of highly complex cutting tools a highlight of their jobs. Users are able to design their layout 100% flexible. This ensures the focus on the essentials without being drawn away by unnecessary tasks. From now on measuring is fun.
## WALTER METROLOGY CENTER 10.0 at a glance

### Application
- Completely new user interface for highly precise measurements of rotational symmetric cutting tools
- Flexible generation of the user interface according to customer preference
- Software completely configurable to the working environment of the customer. Integrates 100% into the existing workflow

### Software
- WALTER METROLOGY CENTER featuring integrated Grid-Technology with adjustable quantity of tiles per dashboard
- User defined quantity of dashboards
- Large quantity of items for customer specific adjustments in the editor
- Drag & Drop of items
- User rights for access of items and dashboards
- Vectorized icons drawn crisp at any size
- Optimized for touchscreen operation

### Machines
- Fully automatic measuring machines HELICHECK PRECISION and PRO/PLUS Series
- Older measuring machines with CNC 06 controller unit and Windows 7 can be updated to METROLOGY CENTER
**1. Dashboarding**

Overview:
- New concept to create individual user interfaces

Benefit:
- Up-to-date look and feel
- 100% user identification
- Suitable for all customers

“Dashboarding” according to user’s preference. This is how individual user interfaces will be created.

**2. Grid-Technology**

Overview:
- Flexible scaling of functional areas and program icons on the grid

Benefit:
- Vectorized icons drawn crisp at any size
- Clear picture language
- Drag & Drop functionality
- Scalable grid
3. Less Clicks
Overview:
- Considerably reduced amount of clicks and faster creation of measuring routines

Benefit:
- Up to 60% less clicks when creating a measuring routine
- Excellent usability
- Future-oriented

4. Badge-Icons
Overview:
- Automated identifier of measuring programs with the categories: Quick Assistant (measurement without data input), Template (measurement of ready made program templates with optional data input) and existing program (measurement from the database)

Benefit:
- Automatic identification with Badge-Icons
- Explicit recognition of measuring programs

5. Individual authorizations
Overview:
- Authorizations are individually adjustable

Benefit:
- Authorizations individually adjustable for functional areas and dashboards
- High safety in daily operation
- Avoids unauthorized modifications of preconfigured dashboards
6. Full screen app
Overview:
- The measuring sequence is shown in full screen mode

Benefit:
- Full Screen visualization for visual monitoring and evaluation of the measuring sequence

7. One uniform WMC database
Overview:
- METROLOGY CENTER unites all measuring apps into one uniform network-compatible database

Benefit:
- All apps are supplied by one database
- Easy backup
- Uniform reporting
- History of measurements in one place
- Easy realization of statistical analysis

1. 3D Laser-Wizard
Overview:
- New Wizard based on WALTER Knowledge Base
- Optimized scan settings

Benefit:
- Create and process scan routines easily and fast
- Closed point clouds
- Reduced to the minimum

NEW:
with spiral scan

Intelligent, intuitive, fast: the new 3D Laser-Wizard for HELICHECK 3D
1. More modules for the analysis of the point cloud
Overview:
- Extraction and analysis of the spirals
- Extraction and analysis of the core
- Envelope function analyzes the resulting tool profile
- Distance measurements between surfaces
- Automatic wobble wobble compensation

2. Radial Relief
Overview:
- In addition to the measurement of clearance angles with facets now it is also possible to measure clearance angles with radial relief (logarithmic or arithmetic spiral)
Benefit:
- Tremendous time savings compared to usual frontlight measurement

3. Higher Precision
Overview:
- Substantially improved precision especially on measurements of the horizontal cross section such as rake and clearance angle, core diameter, indexing, spiral lead and spiral angle
Benefit:
- Reliability of horizontal cross section measurements

1. New toolbar
Overview:
- Additional dialogue to customize the user interface
Benefit:
- More individual visualization possibilities

2. Indication of axes orientation
Overview:
- Possible indication of the axes for better orientation
Benefit:
- More individual visualization possibilities
3. Split-View
Overview:
• Thanks to the Split-View the user can now apply two tolerance fields

Benefit:
• Individual zones of the tool can be treated diversely
• Fast differentiation of critical and uncritical tool areas

4. Multiple alignment of the point cloud at the reference model
Overview:
• When using tools with multiple teeth the operator can key in the number of teeth
• The alignment will be made multiple times according to the number of teeth
• The optimum alignment is being done automatically by the system
• Following analyses and calculations are generated with highest precision

Benefit:
• Suitable for tools with variable indexing and variable spirals

5. Individual Best-Fit
Overview:
• Individual disabling of axes according to specific fitting tasks

Benefit:
• Selective control of the fitting direction
• Fixed height references