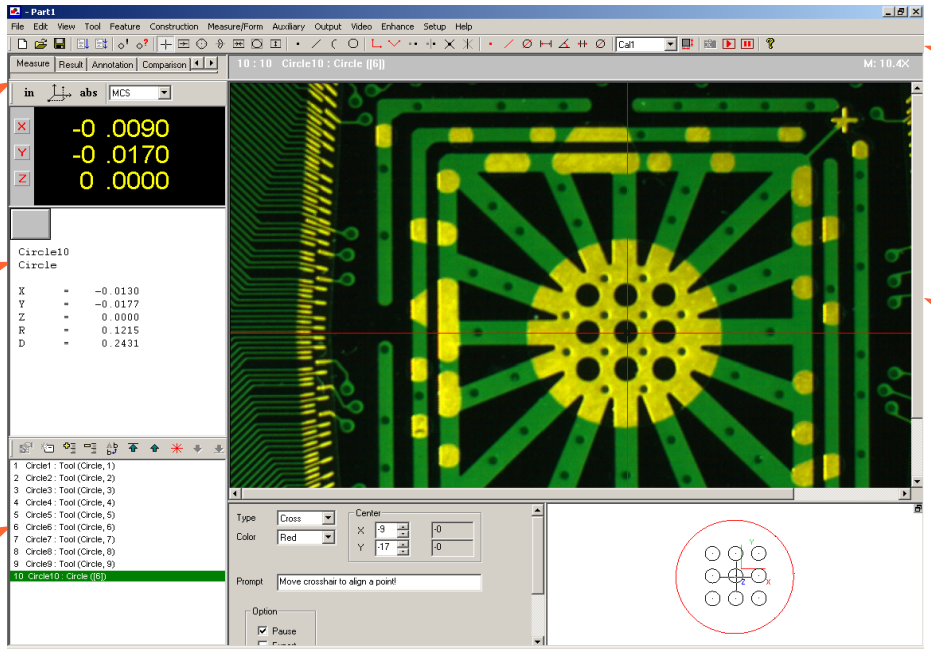
DMP-3000

Dimensional Measurement Software



The DMP-3000 software is a PC-based, dimensional measurement software, for manual Coordinate Measuring Machines. The patent pending design and technology brings the break-through to video CMM. The software uses the latest digital image processing technology to capture and analyze video images for dimensional measurement. It then compares the measurement to nominal values and tolerances to identify conditions of non-conformance. The DMP-3000 tolerance functions conform to ASME Y14.5M 1994. It can measure the part size up to stage size.

The software is for Windows 98SE/ME, Windows 2000/XP. It takes the advantage of the latest operating systems and provides you a familiar, graphical environment to complete your measurements. The software can be easily linked to other Windows applications, such as spreadsheets, SPC and best-fit packages.

The software is designed for image documentation, product inspection and quality control. The software reads the stage locations from linear scales and extends the measurement range to the size of the stage. The software is easy to use and it will deliver reliable and repeatable

Main DMP-3000 Features

- Support FireWire, CameraLink, USB and other interface digital camera or frame grabber for live image display, measurement and annotation.
- Up to three axes display and measurement.
- Stage mapping.
- Advanced edge detection for sub-pixel accurate measurement.
- CAD import and export.
- Easy dimensional measurement with CAD-like graphics.
- Supports inch, millimeter, mil and micron units, Cartesian and Polar coordinates.
- Datum reference frame for alignment and tolerance.
- User-defined measurement calculations and functions.
- Up to 32000 points per feature.
- Save, open, run and edit part program capability.
- Group editing.
- Real-time linked to other applications, such as spreadsheets, SPC and best-fit.
- Custom report.
- Flexible data format for post processing.
- Color or monochrome images acquisition, archiving and retrieval.
- Image annotation and comparison.

Features and Functions

File
- New
- Open
- Save
- Save As
- Properties
- Run
- Run Step
- Run Repeat
- Import
- Set Origin
- Export
- Recent Files
- Exit

Output
- Format
- DDE Link
- Save Results
- Print Results
- Send Results
- Edge Points
- Result Buffers

Help
- Help
- About

Tool
- Find
- Teach
- Copy
- Test
- Update
- Edit
- Crosshair Tool
- Edge Tool
- Circle Tool
- Arc Tool
- Linewidth Tool
- Ellipse Tool
- Area Tool
- Cross Target
- Rectangle Target

Feature
- Tool
- Relative Tool
- Point
- Line
- Arc
- Circle
- User Feature
- Gauge Ball
- Gauge Diameter

Measure
- Edit
- Distance
- Circle
- Linewidth
- Angle
- Area
- Position
- Circularity
- Concentricity
- Straightness
- Angularity
- Parallelism
- Perpendicularity
- Size
- Statistics
- Create Result Buffer
- Add Result Buffer
- Clear Result Buffer

Auxiliary
- Comment
- Prompt
- Calibrate X
- Calibrate Y
- Set Calibration
- Camera

Video
- Live Image
- Capture
- Open Image
- Import Image
- Histogram
- Pixel
- Enlarge
- Maximize
- Reference
- Overlay
- Subtract
- Blink
- Compare
- Copy Image
- Save Image
- Print Setup
- Print Preview
- Print

Setup
- System Setup
- Lock Tool X
- Lock Tool Y
- Calibration
- Change Password
- Restore Password
- Home

Construction
- Zero
- Frame
- Offset
- Project
- Mirror
- Rotate
- Parallel
- Intersect
- Bisect
- Perpendicular
- Create Variable
- Math

View
- Zoom In
- Zoom Out
- Zoom Window
- Zoom All
- Zoom Viev
- Show Drawing Bar
- Show Annotation
- Shift Graphics
- Rotate Graphics

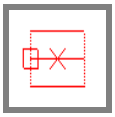
Edit
- Setup
- Modify
- Insert
- Delete
- Select All
- Remove Last
- Rename
- Print
- Cancel
- Duplication
- Set Break Point
- Clear Break Point

Annotation
- Color
- Line Width
- Text
- Line
- Arrow
- Circle
- Rectangle
- Ellipse
- Polygon
- Curve
- Ruler

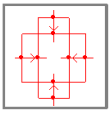
Image Tools

Crosshair Too: Manual define a single point.

Circle Tool: Automatically find all points on a circle.

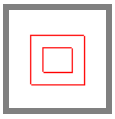


Linewidth Tool: Automatically find all points on two parallel edges.



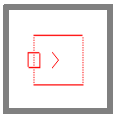
Slot Tool: Automatically find all points on four sides.

Cross Target: Automatically find a cross pattern.

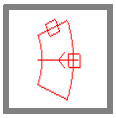


Rectangle Target: Automatically find a rectangle pattern.

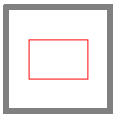
Edge Tool: Automatically find all points on an edge.



Arc Tool: Automatically find all points on a radius.

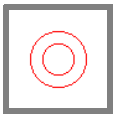


Area Tool: Automatically find the area and centroid of an area.

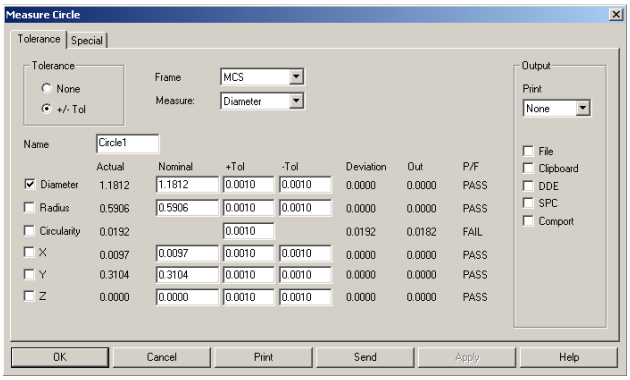


Ellipse Tool: Automatically find all points on an ellipse.

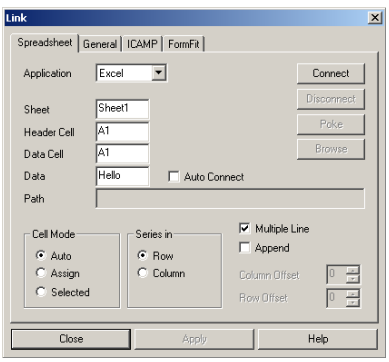
Circle Target: Automatically find a circle pattern.



Results



Output selection and tolerancing



Seamless and real-time link to third party software.