

M3 Version 5

A modernized interface, faster workflows, and a suite of powerful new features!

- ✓ Completely modernized user interface with customizable toolbars.
- ✓ The new Quick Tolerance Dialog, and Gesture Menu make feature interaction fast and simple.
- ✓ New 3D part view, GD&T annotation, and integrated Report Designer.

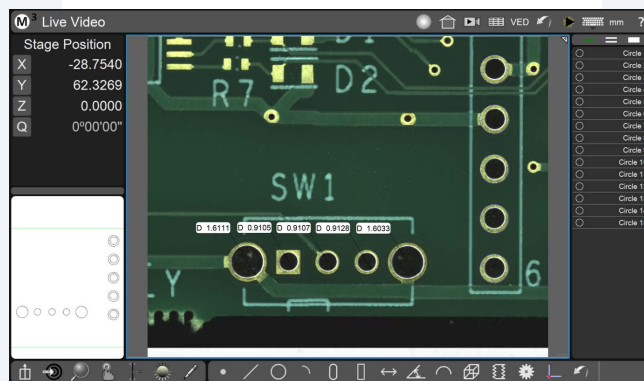


- ✓ A new demo mode image enhances software demonstrations and expands learning capability!

A Fresh, Modern Experience

The M3 interface has been completely modernized, with redesigned toolbars using updated colors, sizes, and button highlight states. New interface elements enhance discoverability of core features.

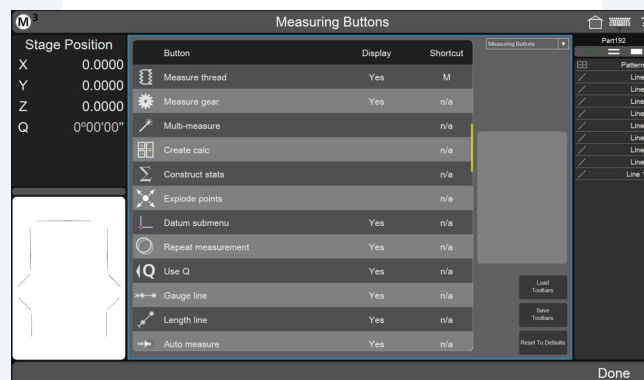
- ✓ Redesigned toolbars with updated colors, sizes, and highlight states
- ✓ Refreshed iconography for a cohesive, modern appearance
- ✓ New interface elements improve feature discoverability



Custom Toolbars & Visual Refresh

A fully customizable toolbar mechanism now covers all views and modes, letting operators configure their workspace around the functions they use most.

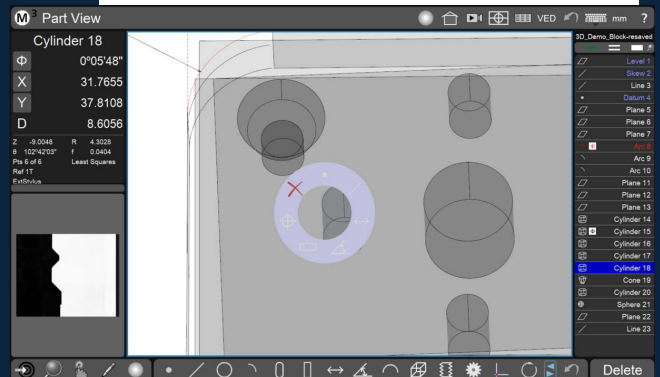
- ✓ Customizable toolbar mechanism covering all views and modes
- ✓ Save and load toolbar configurations across systems
- ✓ Optimize configurations by machine type or user preference



Gesture Menu

A new gesture menu has been added to the part view, putting feature selection, constructions, and quick tolerancing right at the cursor. No menu navigation or panel switching required.

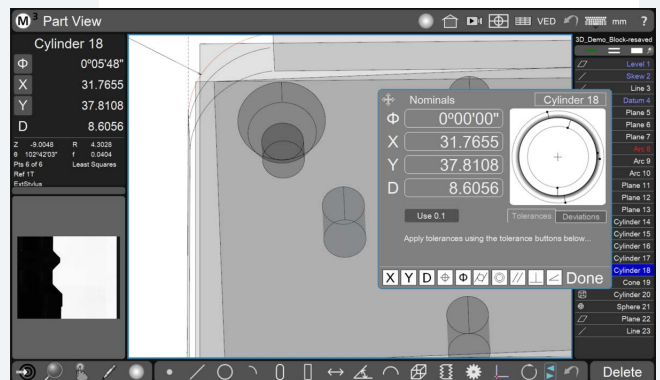
- ✓ Long-press or right-click for instant access to features
- ✓ Feature selection directly from the part view
- ✓ Quick tolerancing without leaving the viewport
- ✓ Constructions menu accessible at the cursor position



Quick Tolerance Dialog

A streamlined tolerance dialog applies tolerances directly from the part view, with visual feedback and real-time preview. This part-view-based workflow significantly reduces the clicks required for common tolerancing tasks.

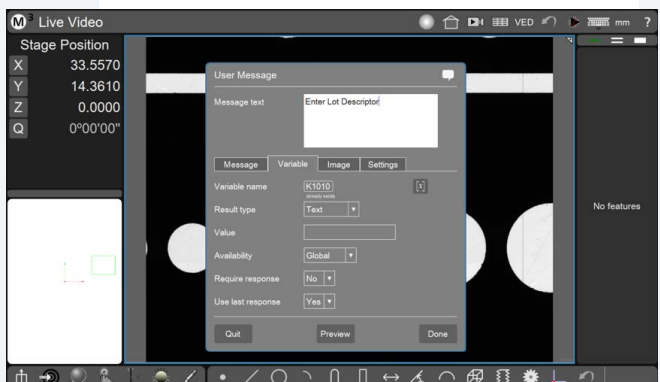
- ✓ Apply tolerances directly from the part view
- ✓ Streamlined dialog for faster annotation
- ✓ Reduced clicks for common tolerancing tasks
- ✓ Visual feedback and real-time preview



Function Dialog Enhancements

The User Message dialog has been enhanced with clear variable definition and simple prompts, the Calc Step improves unit handling, and a new Variable Lookup/Picker intuitively browses and inserts programmatic variables.

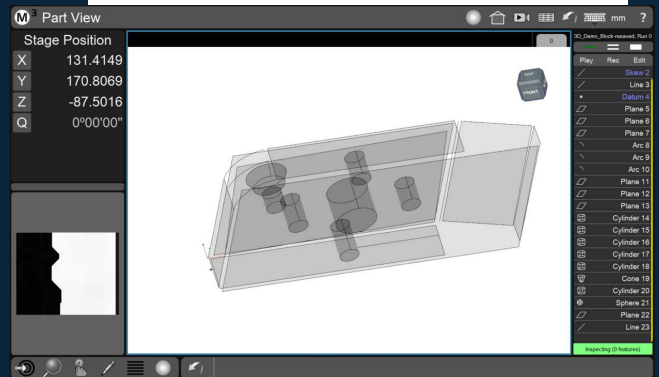
- ✓ *User Message (Ask/Tell)*: script support for dynamic prompts and branching
- ✓ *Calc Step*: New "unit-based" mechanism simplifies mathematical operations
- ✓ *Variable Lookup/Picker*: new browser for selecting and inserting variables



3D Wireframe/Solid Part View

A brand-new 3D Part View provides solid model rendering with wireframe and shaded display modes. The view rotator has been redesigned for more intuitive part orientation, and feature selection improvements enhance overall clarity.

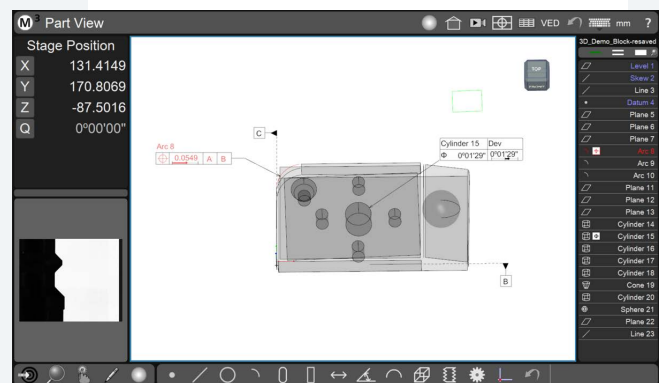
- ✓ 3D solid model rendering with wireframe and shaded display modes
- ✓ Redesigned rotation mechanism for intuitive part orientation
- ✓ Improved feature selection animation and contrast



GD&T Annotations and Datum Labels

Annotation and tolerancing display gains GD&T-style annotation directly in the part view. New control frame formats and datum label indicators align M3 with the standards quality engineers expect.

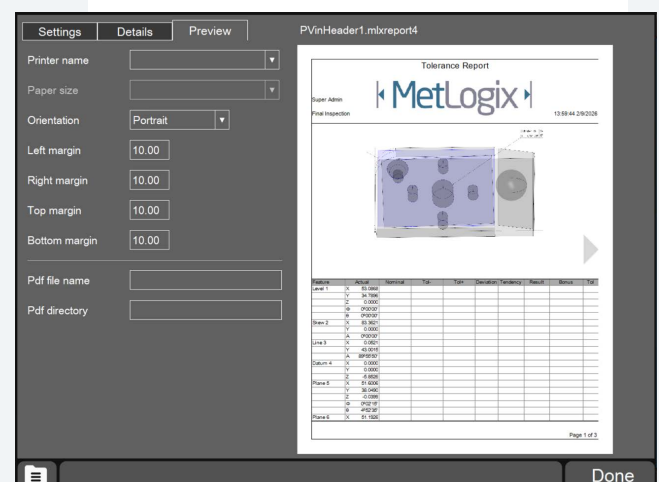
- ✓ GD&T-based annotation capability in the part view
- ✓ New control frame format for toleranced features
- ✓ Auto/Manual datum label indicators
- ✓ Part View / Live Video annotation settings panel



Report Designer with Preview

A new integrated Report Designer adds live print preview, a variable picker, and custom template zones for logos, quality data and stamp graphics enabling professional inspection reports without third-party tools.

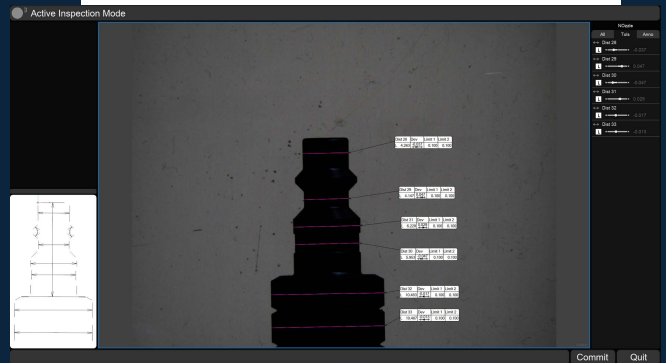
- ✓ Integrated print preview for measurement results
- ✓ Variable picker for dynamic report headers and footers
- ✓ Custom template zones with images and stamp graphics
- ✓ Print or export directly from Program Properties



Auto-Inspect Mode (AIM)

Auto-Inspect Mode delivers live, active gauge results for parts in the field of view with no program execution required. Place a part on the stage and M3 returns measurement results in real time, eliminating the load-measure-review cycle.

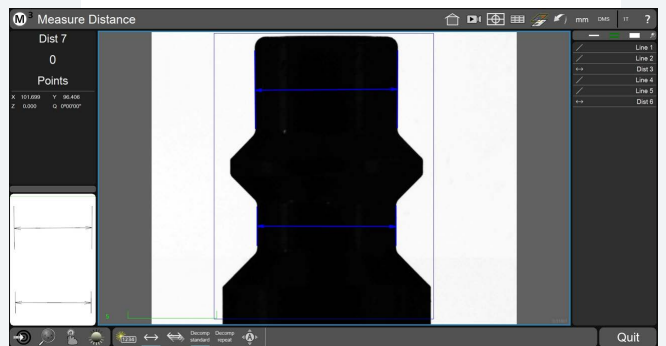
- ✓ Real-time gauge readings as parts enter the field of view
- ✓ No program execution required – place part, read results
- ✓ Eliminates the load-measure-review cycle for simple inspections



Auto Distance Tool

The Auto Distance tool provides instant width and thickness dimensions using M3's Auto Measure technology. Click and drag across line features for immediate distance results with zero program setup.

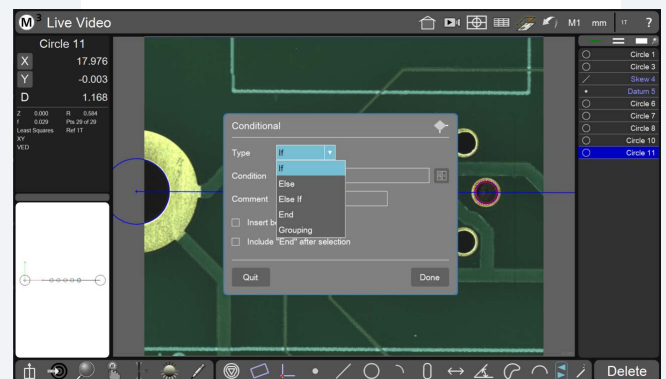
- ✓ Click and drag to measure – instant distance results
- ✓ Automatically generates width and thickness dimensions
- ✓ Powered by M3's Auto Measure technology



Conditional Programming & IO Interface

The new Conditional Logic program step provides If/Else branching through a formula evaluation interface, while digital IO line control addresses output lines from program variables and tolerance results on CNC enabled systems.

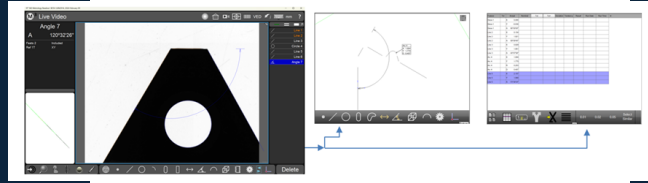
- ✓ Conditional Logic program step with If/Else branching
- ✓ Formula evaluation interface for specifying conditions
- ✓ Digital IO line control based on programmatic variables
- ✓ Supporting Pass/Fail sorting and binning automation



Pop-out Viewports

Part View, Live Video, and Report View can be detached into separate windows for multi-monitor workstations, across single or dual monitor arrangements.

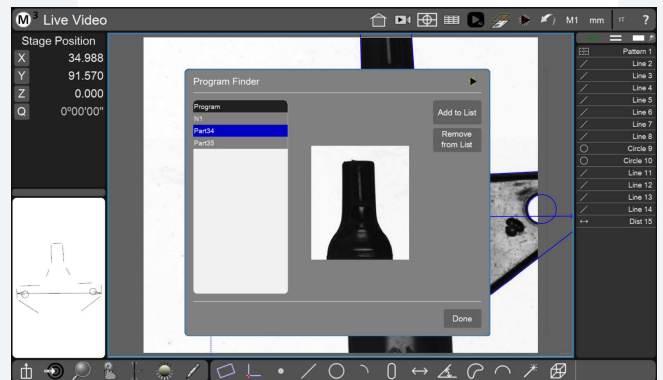
- ✓ Detachable Part View, Live Video, and Report View windows
- ✓ Full resize and reposition across single or dual monitors
- ✓ Customizable toolbar mechanism for all viewports



Performance Improvements

Program execution speed is significantly increased for both high cycle rate and high feature count programs. The Pattern/Load/Measure/Play workflow has been optimized for greater throughput with reduced latency between program steps.

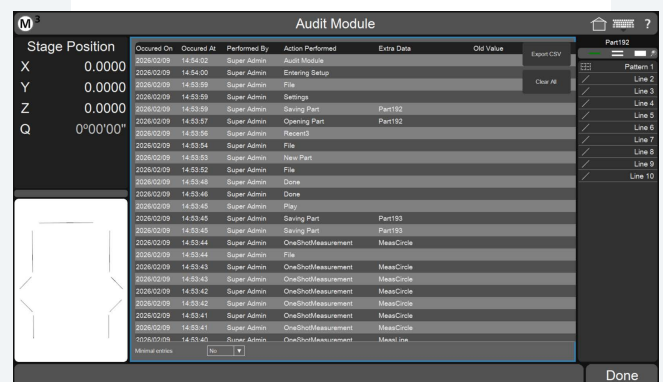
- ✓ Increased execution speed for high cycle rate programs
- ✓ Pipeline optimization for improved throughput
- ✓ Optimized pattern lookup and faster program identification
- ✓ Speed improvements for large part programs



Validation & Security Tools

For compliance-sensitive environments, V5 adds a new Audit Trail module, logging complete session history– who did what, when, and what changed. Support for full run data encryption has also been added.

- ✓ *Audit Trail* : complete session logging with full traceability.
- ✓ *Runs Data Encryption* :Fully encrypted measurement results stored to the PC
- ✓ *Password Management* : secure credential entry with masking



Machine Integration

Ask your MetLogix representative about a wide variety of encoder interface technologies, camera types, and light control hardware supported in the M3 system.



Video and Multi-Sensor



Optical Comparator



Measuring Microscope



Coordinate Measuring
Machines(CMM)



Field of View and Fixed Stage

Supports Industry Standard Stage and Camera Software Calibration Methodologies

Robust and reliable machine and camera calibration can be achieved using popular machine and video correction methods. Linear Error Correction (LEC), Segmented Linear Correction (SLEC), Non-Linear Error Correction (NLEC), Orthogonality, Pixel Size, Camera Skew, Parcentricity and Field of View.

Industry Leading Operating System Platform

The Windows® operating system represents the current enterprise solution for computer software operating systems. You gain the performance and reliability of a globally recognized software solution as part of you measuring machine package.

MetLogix M Series Features Matrix	Mx200*	M2 Series	M3 Series
Optical edge detection	✓	✓	✓
Geometric functions	✓	✓	✓
XY, XYZ or XYQ axis support	✓	✓	✓
Data Reporting/Export	✓	✓	✓
Partview Display		✓	✓
Part programing and playback	✓	✓	✓
Tolerancing	✓	✓	✓
Feature annotation		✓	✓
Video edge detection			✓
Video image archive			✓
Image markup			✓

*The Mx200 is a standalone, industrial digital readout device.

Help and Resources

Please visit the support section at www.metlogix.com for access to Metlogix product documentation.

Watch tutorial videos for popular Mx functions at <http://www.youtube.com/metlogix>

Join the discussion on Facebook, search “Metlogix”.

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