# Why Upgrade to ZONE3?

ZONE3<sup>®</sup> vs MeasureMind<sup>®</sup> Software Feature Comparison







# **Comparison Menu**

qvs

ZONE3 vs MeasureMind







## **Measurement Tools**

Targets and finders (optics/laser/touch probe) used to measure features



Tactile Sensors Tactile sensors measure areas that cannot be seen by optics, such as cylinder interiors or sphere exteriors. Touch trigger tactile sensors find data points one at a time, while continuous contact scanning sensors offer high speed data gathering for surfaces.



Touch Probe



Path Generation

Video

🝁 Laser



- Second Evaluation
- $\odot$ Full Field Image Parallel Processing



- FeatureFinder, Strong Edge, Weak Edge, Edge Trace, Control, Auto Focus and Manual Targets
- Touch Probe, Laser Focus and Laser Scan Probe Path Generation based on user
  - entered nominals
- Laser Filters
- One finder per step



ZONE3 AutoPath uses CAD nominals to automatically create an optimal path for each measurement. AutoPath is fully multisensory capable. Use AutoPath with any sensor









## Constructions

Calculations based on measured features



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**GD Confidence.** When Results Matter.<sup>™</sup>

# **Features** Geometry to be measured









# Walk Up Measurement

Performing quick measurements without the intention to turn into a program





Manual Focus & FeatureExtractor Use FeatureExtractor to automatically identify and measure features visible within the FOV. With one click, all prominent features are displayed as flyouts in the video window and you can hover over features to see relationships to other geometries.

### AutoID <sup>2</sup>

Use AutoID to automatically run a routine. ZONE3 will search for and automatically run part routines that match the part(s) that you have placed on the machine stage and are visible within the video window. **ZONE3** 

FeatureExtractor Manual Focus Reverse Programming AutoID (Single and Multi-FOV)

### FeatureExtractor & AutoID

Automatic FeatureExtractor immediately finds and measures all part features in the viewing area, saving time compared to long part routines.





- Active Finder
- Digital Read Out (DRO)





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## Tolerancing

Limits within a part that is considered good

Block Tolerancing



**ZONE3** 



- ANSI and ISO +/-, +/+ and -/-
- Form Tolerances (circularity, straightness, flatness, sphericity, cylindricity)

### Decimal Digits Table

|    | Positions   | Tolerance    |
|----|-------------|--------------|
| 1x | (1.0)       | +/-0.5       |
| 2x | (1.00)      | +/-0.05      |
| 3x | (1.000)     | +/-0.005     |
| 4x | (1.0000)    | +/-0.0005    |
| 5x | (1.00000)   | +/-0.00000   |
| 6x | (1.000000)  | +/-0.00000   |
| 7x | (1.0000000) | +/-0.000000  |
| 8x | (1.0000000) | +/-0.0000000 |
| Α  |             | +/-1.0000    |
|    |             |              |

## Block tolerancing allows you to enter default tolerances based on the number of decimal places

tolerances based on the number of decimal places shown on a print. Often a drawing will have a table to indicate what the tolerances to be used if not indicated directly with the nominal value. In ZONE3, a table can be configured so tolerances can quickly be added to measured features.



### ISO 2768 -

ISO 2768 is an additional block tolerance type supported in ZONE3. This automatically applies tolerances based on the specified degree of coarseness (i.e. Fine, Medium, Coarse, or Very Coarse).



### └─ Unilateral Tolerances

Unilateral tolerances restrict deviation from nominal only is one direction and not both larger and smaller than the nominal value.

|   | Feature | Attribute | Nominal | Actual  | Tolerance     | Code | Upper Tol. | Lower Tol. | Graphics       |
|---|---------|-----------|---------|---------|---------------|------|------------|------------|----------------|
| 0 | Circle1 | Diameter  | 2.25000 | 2.30155 | Limits & Fits | H9   | 0.02500    | 0.00000    | 0.05155 (206%) |







## Tools related to using nominal information provided in a model







## PMI Import When importi

When importing a CAD model with embedded PMI information, a log is now generated with notes about the conversion into ZONE3 features as well as identifying anything unsupported in ZONE3 that was not imported.



### 

Step templates are used in conjunction with the automatic generation of steps from CAD models that contain Product Manufacturing Information (PMI).



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## **ZONE3**

- True CAD programming supporting import and automatic programming from STEP, IGES, DXF, VDA, STL, QIF, EIF, Gerber, Excellon as well as native formats from NX/Unigraphics, Creo/ProE, CATIA, Solid Works, and Inventor.
- Replacement of models in existing programs as revisions occur.
   Import of CAD models with PMI (Product
- and Manufacturing Information) with automatic program creation.
- Apply to Similar tool takes existing measurements and automatically generates steps for features in CAD model that share common user definable characteristics.
- Video to Align to CAD
- Step Template/Recipes

## MeasureMind 3D

 CAD import for visual comparison in model window

# Alignments

Coordinate systems used to orient and define measurement locations



Confidence. When Results Matter."



## **Evaluation**

GD&T and specialized modules like roughness, threads and gears





Gear measurement and evaluation

Overall texture of a surface

• Full ISO 1101 and ASME Y14.5 compliant GD&T library supporting the different Material Modifiers on Datums Simultaneous Evaluation • Animated tolerance zones allow you to

- visualize the specified tolerance condition.
- Surface Roughness Evaluation



- Form
- Angularity
- Perpendicularity •
- Parallelism
- Concentricity ٠
- Position
- Material modifiers on features •





# Logic and Customization

Math, variables, branching, etc.





Confidence. When Results Matter."



# **Reporting** Output of measurement results







• Any text Based Outputs





When viewing deviations in a graphic report, the scale displayed now shows the actual tolerance values when the scaling is set to be based on Tolerance or Status.









## **Image Capture**

Saving, reporting, and measuring from captured measurement images





### Replace Finders

Existing Finders can now be easily replaced within a step. Simply right-click on the finder to replace, choose the new tool/finder type, and then generate a path based on the previous finder's measurement data. This allows for large or complex features to be quickly programmed for measurement when not using a CAD model.

Acquire Image Step Image Capture Error handling  $\odot$ 



• Save Video Images to file during run

### Acquired Image Tool

This tool allows a video image to be acquired and archived, or used in a subsequent re-measurement (useful for visualization and documentation of part conditions).

### **On Failure System Properties**

Error handling can now be configured on the system level inherited by default with new projects. Existing projects will override the system level settings.







# Lighting

## Changes the scene in which optical measurements take place









**Routines/Editing** The saved sequence in which measurements take place





### Routine Mirroring

When measuring two parts that are a mirror copy of each other, a program only needs to be written for one part. That routine can then be mirrored to automatically measure the other part. If a CAD model is used, the model will also be mirrored as part of the second program.



### $\odot$ Mirror and Grid Copy

- User Definable Step Names
- Intelligent Routine Optimization
- Move/Rearrange Steps Easily
- Insert Steps easily
- $\odot$ **Routines Tree**
- Update Selected (Global Edit on Steroids)
- Step Searching
- Multiple routines per program
- Group Steps for program organization
- $\odot$ Multi-Select

## MeasureMind 3D

- One Routine Per Program
- Step Numbers
- Print/Edit Window
- Step Edit
- Global Edit
- Insert Step programmatically
- Delete Step(s) programmatically
- Linear/polar Copy •



### **Routine Trees (Printing)**

Any of the trees can be printed to either a physical printer or pdf. This allows you to easily review a measurement program without the need to have ZONE3 and the project open.

### **Routine Trees (Float and Resize)**

When docked, the routines tree can be expanded horizontally to review project details without the need for horizontal scrolling. It can also be undocked and floated to resize as desired.

### Multiple Select Found

Multiple found steps from Advanced Search can now be selected at once. This is helpful for manipulating multiple steps that could not all be easily selected other than through the Search tool.







# **Error Handling**

## How ZONE3 reacts when there is a measurement or report failure





### Failure Assistance Notes

If Assist is chosen for a finder failure, the operator may manually adjust finder settings and retry, or stop the program. If adjustments are made, the operator can add *Assignable Causes*, *Corrective Actions*, and *Notes* to be documented and reported to indicate the finder was adjusted, for traceability.





# Regulated Environments

Tools which help restrict user access or document actions for auditing







## **ZONE3 Offline Version**

## Creating or editing programs without a machine





Offline CAD Programming ZONE3 Offline allows for remote programming of 3D CAD models with no machine required. Offline mimics the features and capability of ZONE3 Professional.



True Offline CAD Programming
 Simulated Video/Lighting
 Has all capabilities of ZONE3 Pro but in an Offline package



- Edit Report Attributes
- Delete Steps



### Simulated Video/Lighting

ZONE3 Offline features Simulated Video imaging. Images are in shades of gray and as you adjust the video controls, the grays become lighter or darker to simulate brightness and lighting angle.





## Video/Model Window

## Means to view measurements live or overlaid on top of CAD

model color controls.







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## MeasureMind 3D

- Standard or Classic Modes
- Digital I/O with up to 8 Channels
- Part/Fixture Repeat



### Dynamic Repeat

The number of repeats to execute when running a program can now be easily set in a routine header without the need to modify the routine.





## References

## Documentation and resources to help better understand ZONE3 capabilities





**ZONE3 Brochure** Detailed look into ZONE3 and all of it's new and unique features.

|   | EXPRESS          | PRIME     | PRO       | OFFL   |
|---|------------------|-----------|-----------|--------|
| VIDEO TOOLS   |                  |           |           |        |
| AutolD  | *                | *         | *         |        |
| FasturaExtractor  | ÷                | *         | ÷         |        |
| Video Overlay Flyouts   | ÷                | ÷         | ÷         |        |
| Snapshot Parallel Processing  | *                | *         | *         | *      |
| Image Capture Error Handling  | ÷                | ÷         | +         | -      |
| Save image  | *                | *         | *         |        |
| Advanced Edge Finder  |                  | *         | *         | *      |
| Blob/Contour  |                  | ×         | *         |        |
| Area Multi Focus (AMF)  |                  | ÷         | *         | -      |
| Auto Adjust Lights  |                  | ÷         | *         | -      |
| Load Calibrated Image   |                  | -         | *         | *      |
| Extended Depth of Field Imaging (EDFI)  |                  |           | *         |        |
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|   | EXPRESS          | PRIME     | PRO       | OFFL   |
| USABILITY   | EXPRESS          | PRIME     | PRO       | OFFL   |
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| USABILITY<br>DRO Align<br>MdW/Variobles   | EXPRESS<br>*     | PRIME     | PRO       | *      |
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| DRO Align<br>Math/Variables   | *                | *         | *         | *      |
| DRD Align<br>Math/Variables<br>Visual Validation/Animation Assistance   | *                | *         | * *       | **     |
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**ZONE3 Feature Comparison** Compare ZONE3 Express, Prime, Pro and Offline to see which fits your needs.



### ZONE3.ZONE

ZONE3.zone is the online forum for ZONE3 users. Connect with fellow ZONE3 users and OGP Application Engineers to share metrology tips and get answers to your questions about ZONE3 features – from alignments and measurement, to routine editing and reporting, and everything in between.

Through the forum, **Software Subscription Agreement** (SSA) holders can easily download the current release of ZONE3 (see next slide) as well as access an extensive database of ZONE3 Knowledge Documents.





# Software Subscription Agreement (SSA)



Periodic enhancements to your measurement software



### **ZONE3 SSA Flyer**

Software Subscription Agreements provide a periodic update to your measurement software, to keep it current. When new versions are released you will automatically receive the new version updates to the software running your machine. This ensures your machine is running the most up to date software, giving you access to new and valued features.

SSA's are purchased as a yearly contract giving you access to all major software enhancements during that 1 year time period. See SSA timeline example below, keep in mind this is just an example:

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### SSA Section on ZONE3.zone

On ZONE3.zone there is a section specifically for SSA customers. Here customers can download the current version of ZONE3, view major revisions and features of each released version and provide ideas/comments for upcoming software releases.

ZONE3 customers without an SSA will still have access to ZONE3.zone but will not have access to the SSA section.









+65 6741 8880 contact@smartscope.com.sg www.smartscope.com.sg



