

CAD Imports	PowerInspect Standard	PowerInspect Premium	PowerInspect Ultimate
Neutral CAD import Read/write neutral CAD formats.	✓	✓	✓
Third-party CAD import Read/write third party CAD formats.	-	✓	✓

Hardware Connectivity	PowerInspect Standard	PowerInspect Premium	PowerInspect Ultimate
Manual device connection Connections to manual devices, such as articulated arms.	✓	✓	✓
Non-contact inspection Connection to noncontact inspection hardware, such as laser scanning hardware or optical systems.	-	✓	✓
Automated inspection Connections to automated devices, such as CNC/DCC CMMs, or machine tool probing.	-	-	✓
Error mapping for CMM Produce an error map to identify inaccuracies of machine construction and feedback devices.	-	✓	✓
Dual-device inspection Simultaneous connection to 2 manual devices, such as an articulated arm and laser tracker.	-	✓	✓
Machine tool probe calibration Calibrate the machine tool probe to understand its characteristics.	-	-	✓
On machine verification (OMV) Multi axis machine tool probing.	-	-	✓
Dual column CNC inspection Connection to a dual column automated inspection device.	-	-	✓

Import/Export	PowerInspect Standard	PowerInspect Premium	PowerInspect Ultimate
Import CAD file Import a single CAD model.	✓	✓	✓
Import multiple CAD files Import CAD files and assemblies.	-	✓	✓
Export measurement to CAD Import CAD files and assemblies.	✓	✓	✓

Export point cloud Export point cloud to ASCII/mesh/STL	-	✓	✓
Part alignment Export the machining work offset to optimize part alignment.	-	✓	✓
Electrode inspection Electrode trode import and update.	-	-	✓

General	PowerInspect Standard	PowerInspect Premium	PowerInspect Ultimate
Geometric selection Create geometric items by selecting them from the CAD view.	✓	✓	✓
Real-time laser connection Connection to laser scanning devices.	-	✓	✓
Repeated measures Use one document to inspect multiple examples of a part.	-	✓	✓
Point cloud meshing/STL Create point cloud mesh or export point cloud to .stl.	-	✓	✓
Simulation probe/machine Probe/machine simulation in the CAD view.	-	-	✓
Automated batch measurement Measure a complete production run, or batch of components.	-	-	✓

Alignments	PowerInspect Standard	PowerInspect Premium	PowerInspect Ultimate
Geometric alignments Align a part to the CAD model using geometric items for which you know the CAD coordinates.	✓	✓	✓
Freeform fit alignments Align a part to the CAD model using a set of specified surface points.	-	✓	✓
RPS alignment Align a part to the CAD model using a set of features to constrain the part's axes of rotation and translation.	-	✓	✓
Best fit Use measured surfaces to optimize the alignment of the CAD model with the part.	-	✓	✓
Datums Display the locations of measured items relative to a specified point.	✓	✓	✓

Geometric-based inspection	PowerInspect Standard	PowerInspect Premium	PowerInspect Ultimate
Probed geometric features Probe 2D and 3D geometric features.	✓	✓	✓
Constructed features Create an item using an existing reference item.	✓	✓	✓
Dimensioning Create and display measurements as dimensions in the CAD view.	✓	✓	✓
GD&T Add geometric dimensioning and tolerancing (GD&T) items to the inspection sequence.	✓	✓	✓
Build feature from points	-	✓	✓

CAD-based inspection	PowerInspect Standard	PowerInspect Premium	PowerInspect Ultimate
Surface inspection Inspect a surface by probing points and comparing them to their CAD nominals.	-	✓	✓
Edge inspection Inspect the boundary of a surface.	-	✓	✓
Section inspection Measure cross sections through a part by specifying a plane along which the part must be probed.	-	✓	✓
Raster surface inspection Generate a probing pattern for use with surface inspection groups.	-	-	✓

Reporting	PowerInspect Standard	PowerInspect Premium	PowerInspect Ultimate
Labels Add labels to inspections.	✓	✓	✓
Single page report Create a single-page report.	✓	✓	✓
Full report Create a full tabular report.	✓	✓	✓
SPC output Output results for statistical process control.	-	✓	✓