



INVENTOR QUALITY CHECK

Data Sheet

Program specification:	
Current version	V2023.2
Supported Inventor versions	INV 2023 / 2022 / 2021 / 2020 (64Bit)
Available program types	<ul style="list-style-type: none"> ▪ AddIn: Inspection of current Inventor Models ▪ StandAlone: Batch inspection of multiple files or entire Project folders ▪ Data Management Extension: Vault + JobServer-Integration
Demo version available	Yes (Single user license, 30 Days AddIn)
Available license types	<ul style="list-style-type: none"> ▪ AddIn: Single seat license or Floating Network license (Basic module + variable License extension) ▪ StandAlone: Single user license ▪ Data Management Ext.: Single user or Floating Network license (Basic module + variable License extension)
License verification	<ul style="list-style-type: none"> ▪ License file (Installation path configurable) ▪ Admin Tool for License Viewing
Subscription	Desktop-Subscription, Maintenance Subscription (optional), Duration 1 Jahr, incl. Support, Service-Packs, Updates)
Language versions	<ul style="list-style-type: none"> ▪ English ▪ German
Software documentation	<ul style="list-style-type: none"> ▪ PDF (Installation Guide, User Manual, What's New)
Installation	<ul style="list-style-type: none"> ▪ Setup for AddIn- / StandAlone-Version / Vault-Extension
Program call	<ul style="list-style-type: none"> ▪ AddIn: Ribbon / Toolbar / Alias-Shortcut ▪ StandAlone: Command line prompt / Dialog for file selection
Check Results	<ul style="list-style-type: none"> ▪ Status Icons in Dialog window indicating Model quality ▪ Reports with detailed comments ▪ Custom iProperties indicating check results ▪ Return-Codes indicating Error status (StandAlone-Version)
Configuration options	<ul style="list-style-type: none"> ▪ Modeltype-specific "Out of the Box" Check Configurations ▪ ConfigWizard for easy setup of individual Check configurations (optional customisation via text editor) ▪ Selectable Check Configurations (e.g. Customer, Project, or Department specific) ▪ flexible definition of iProperty default values ▪ automatic, iProperty-driven Model Checks (optional) ▪ Classification of detected deviations (Error / Warning / Notice) ▪ Various Operators for flexible Specification of Check Options ▪ Whitelist / Blacklist for filtered Model checks ▪ Optional skip of specified Model components during inspection, e.g. Standard Parts, Library Parts, Released Components, 3D sketches, cross-section sketches or other specific Features ▪ Selectable output formats for generated Reports ▪ Adjustable Report contents (deviations / deviations + consistency) ▪ Generating iProperties for indication of Check Result (deactivated if required) ▪ Optional including of Company logos in Reports ▪ Adjustable, multilingual Message-Files ▪ Optional Hyperlinks to CAD-Guidelines
Supported Report formats	<ul style="list-style-type: none"> ▪ HTML / MHTML ▪ CSV ▪ PDF / DOC (MS Word)
Software producer	CAD SERVICES / www.services4cad.de
Your authorised distributor	

Extract from Current scope of Check Options:

Check Option:	Check Option available for:		
	IPT	IAM	IDW/ DWG
Part Material and Part Colour (optional comparison with specific default list or Material Library)	X		
Length and Weight unit used in a part	X		
Position of the first Fillet/Chamfer in Browser	X		
Monitoring of Radius and Chamfer features with identical values	X		
Check for corresponding flat pattern in Sheet-Metal-Part	X		
Check if all sketches are fully constrained (incl. optional exemptions)	X	X	X
Check for used or visible sketches are used in Part or Assembly	X	X	
Accuracy of parameter values in Modeling dimensioning	X		
Check for redundant points and lines in sketches	X		
Check for projected points/edges/faces in sketches not derived from Main points/edges/faces	X		
Visibility of Work geometry in Part or Assembly	X	X	
Check for use of Emboss feature	X		
Check for wall thickness in feature Shell and Thicken	X		
Check for elements behind the End-Of-Part-Marker in the Browser	X	X	
Maximum Number of elements in arrays in parts and assemblies	X	X	
Check of dependencies between parts and assemblies (Adaptivity)	X	X	
Check of maximum number of elements in a sketch	X	X	
Check if weight calculation of parts and assemblies is up-to-date/positive/overwritten	X	X	
Visibility of Center of Gravity	X	X	
Check of valid Standards for used Standard parts	X	X	
Performance-Check (time for regeneration) for parts / assemblies	X	X	
Check for suppressed features/components/constraints in part / assembly	X	X	
Check of unlinked references incl. derived Components	X	X	X
Check of third-party references e.g. calculation results of a Stress analysis	X	X	X
Check of the Inventor version used for saving a part / assembly / drawing	X	X	X
Check of valid Filename / Displayname	X	X	X
Check for Inventor Modelling-errors	X	X	X
Check if Model is up-to-date, Check for required Migration	X	X	X
Check for empty parts, assemblies and drawings	X	X	X
Check of file size regarding critical values (Min / Max)	X	X	X
Check of default file Save path	X	X	X
Check of required data formats for a model-file (e.g. DWF, PDF)	X	X	X
Check of filled iProperties in parts, assemblies and drawings	X	X	X
Check for required Custom iProperties	X	X	X
Check of iProperty values (Adjustment with default values, max. Stringlength)	X	X	X
Optional skip of released Data files	X	X	X
Check of existing Work geometry in assembly		X	
Check of first part fixed in assembly / Check of multiple part fixed in assembly		X	
Check of remaining Degrees of Freedom in assembly (incl. optional exemptions)		X	
Check for features (e.g. holes) in assembly		X	
Check for Inventor Standard Parts in assembly		X	
Check for representations (Level of Detail)		X	
Check for inconsistent or redundant assembly constraints		X	
Check if Weldung assembly is saved in state "Preparation", "Welds" or "Machining"		X	
Checking for deferred Updates of Drawing views			X
Checking the number of referenced Models in drawing			X
Usage of accurate Dimension styles, Text styles and Title blocks in drawing			X
Check for mandatory Sketched Symbols in drawing			X
Check if Sketched Symbols are up-to-date / used in drawing			X
Check of Active Standard in drawing			X
Check for shaded views, raster views or isometric views in drawing			X
Check for Inventor Parts lists inserted on drawing sheets			X
Check for number of existing sheets or empty sheets in drawing			X
Check for existing centre axes or centre point markings in drawing views			X
Check for overwritten dimensions / dimension precision in drawing			X
Check for overwritten Hole notes in drawing			X
Check for overwritten tolerances in Model dimensions			X
Check for dimensions without references to geometry			X
Check for elements outside the drawing borders			X
Check for complete number and content of balloons in Assembly drawing			X
Check of Layer structure (Colour, Linetype, Lineweight)			X
Check of actuality, fixed fields and headers of Parts list in drawing			X
Check of inserted Revision tables			X

additional Check Options on request, Customer specific requirements for additional Check options are explicitly encouraged