

PolyWorks® – system requirements

Operating systems for PolyWorks node-locked license or floating client

32-/64-bit

Microsoft® Windows 7 Pro/Ultimate

Microsoft® Windows XP Pro

Microsoft Windows Vista Business / Enterprise / Ultimate Edition

Operating systems for FLEXnet license server (requirements for floating license)

32-/64-bit

Microsoft® Windows 7 Pro/Ultimate

Microsoft Windows XP Pro

Microsoft Windows Vista Business / Enterprise / Ultimate Edition

Microsoft Windows Server 2000 / 2003 / 2008

64-bit

Microsoft Windows .NET Enterprise Server

Sun Solaris™ Version 8/9/10 for SPARC®

Red Hat® Enterprise Linux 3.0, 4.0 and 5.0

SUSE® Linux Enterprise Server 9 and 10

Peripherals

3-button mouse or 2-button mouse with a wheel configured as a middle mouse button

One free USB port for the PolyWorks software dongle

3DConnexion SpaceMouse is supported

Graphic board

NVIDIA Quadro® graphic board

As PolyWorks uses Open GL for 3D graphic representation, a fast graphics card with Open GL acceleration is highly recommended. The graphics cards of the Quadro series of NVIDIA are best suited for Open GL applications.

Graphic board settings for PolyWorks

Manage and configure PolyWorks profiles in the 3d settings of your NVIDIA Quadro graphic boards.

We recommend installing the latest service pack.

System requirements and data formats



PolyWorks® – examples for computer configurations

Example 1: HP® Desktop Workstation Z400 series

Basic system: HP Z400 6-Dimm
Processor: Intel® XEON® 3550, 3 GHz
RAM: 12/24 GB RAM
Graphic board: NVIDIA Quadro® FX 4000
Mouse: USB mouse with scroll wheel, or 3-button mouse
Disc space: 750 GB SATA
Operating system: Windows® 7 Professional 64

Example 2: HP® EliteBook 8760w Mobile Workstation

Basic system: HP Elitebook 8760, 17" Display
Processor: Intel® Core™ i7-2630QM
RAM: 8 GB RAM
Graphic board: NVIDIA Quadro FX 4000M
Mouse: USB mouse with scroll wheel, or 3-button mouse
Disc space: 750 GB SATA
Operating system: Windows 7 Professional 64

System requirements and data formats



PolyWorks® – data formats 3D digitizing systems

PolyWorks data formats

PolyWorks can read the data of nearly all digitizing devices. Data can be available either as point clouds or as polygon meshes. In addition PolyWorks offers proprietary data formats for importing point clouds and polygon meshes (Detailed format descriptions can be found on our website in the download area).

POL-Format: Polygon meshes

PF-Format: Point clouds from planar grid scanners

PSL-Format: Point clouds from line scanners

Supported 3D- data import formats

Planar grid scan formats

3D-Digital (PF), 3D Scanners (RIS), Breuckmann (BRE), CNRC (CNRC), Cognitens (XYZ, PF), Cyberware (Echo Rings), Genex (GTI), GOM (Surf), HoloVision (HVI), HyMarc (Hyscan), IMetric (PF), Kreon (GRK), Konica Minolta (CDK, CDM, VVD), Nikon Metrology (PF), Nub3D (PF), Optech (PF), Opton/EOIS (XYZ), ShapeGrabber (PF), Solutionix (ICV) Steinbichler (AC), Voxelan (MGF)

Line scan formats

3D Scanners (SAB), Carl Zeiss (PSL), KREON (CWK, PSL), Hexagon Leica (AC), Metron (MET), Nikon Metrology (PSL), Perceptron (SWB, SWL), Steinbichler (AC), Wolf&Beck (PSL)

Spherical scan formats

3rd Tech (RTPI), FARO LS (FLS), iQVolution (iQScan), Leica (PTX), Mensi (SOI), Optech (IXF), Riegl (3DD), Surphaser (BTX), Topcon (PTX), Z+F (ZFC, ZFS)

Unorganized point clouds (import & export)

ASCII, Laser Design (SCN), IGES, Perceptron (BIN), LAS

Direct interfaces for single point digitizers

Measuring arms

FARO

Garda

Nikon Metrology

Hexagon

CMMs (protocols)

I++

MZ-1060

Deva

Laser/ optical tracker

Creaform

FARO

Metronor

Leica

Nikon Metrology

NDI

Steinbichler

Direct interfaces for laser scanners

Creaform

FARO

Nikon Metrology

Leica

Konica Minolta

NDI

Perceptron

Steinbichler

Hexagon

Laser Desgin

Direct third party interfaces

AICON 3D

KREON

RevXperts

API (Probe, Scanner, Tracker)

Bold = 32-/64-bit; Underlined = 32-bit

Please observe that additionally used third software for the measurement system is also applicable to the operating system.

PolyWorks® – data formats

Formats for polygon meshes (import & export)

CNRC	PLY
DXF	POL + PQK (PolyWorks Binary format)
NAS	STL (ASCII and Binary)
OBJ	VRML 2.0
JT	

Other export formats (export)

- Cross sections in ASCII, DXF, IGES and Inventor
- Bezier curves in ASCII- and IGES-Format
- NURBS-Surfaces in IGES- and STEP-Format

PolyWorks/Inspector™ supports the following CAD import formats

Standard

ACIS SAT	IGES	STEP
STL	Parasolid	

Optional

CATIA V4 + V5	Inventor	Pro/ENGINEER
SolidWorks	Unigraphics	VDA-FS
JT		

Report formats

Report layout generator

With the report layout generator formatted reports can be created. Thereby it is possible to define layouts and use them for creating reports.

Report formats

ASCII - Text	HTML	PDF
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Standard export formats

Report objects can be exported in the following formats:

ASCII - Text	AVI - Video	DXF
HPGL	HTML	Microsoft Excel
Microsoft Word	PDF	SVG

PolyWorks/IMView™

Free 3D viewer to view PolyWorks projects and with simple basic measurements.