

PolyWorks® version 11 – system requirements

Operating systems for PolyWorks node-locked license or floating client

32-bit

Microsoft® Windows 2000/XP

Microsoft Windows Vista Business / Enterprise / Ultimate Edition, Windows 7

64-bit

Microsoft Windows XP Professional

Microsoft Windows Vista Business / Enterprise / Ultimate Edition, Windows 7

Operating systems for FLEXnet license server v11.6.1 (requirements for floating license)

32-bit

Microsoft Windows XP Professional

Microsoft Windows Vista Business / Enterprise / Ultimate Edition

Microsoft Windows Server 2000 / 2003 / 2008

64-bit

MS Windows XP Professional

Microsoft Windows Vista Ultimate Edition

Windows Server 2003 / 2008

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

We recommend installing the latest service pack.

Peripherals

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

3DConnexion SpaceMouse is supported

One free USB port for the PolyWorks software dongle

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.

System requirements and data formats



PolyWorks® version 11 – examples for computer configurations

Example 1: HP® Desktop Workstation Z400 series

Basic system: HP Z400 6-Dimm
Processor: Intel® XEON® 3550, 3 GHz
RAM: 8 GB RAM
Graphic board: NVIDIA Quadro® FX 3800
Mouse: USB mouse with scroll wheel, or 3-button mouse
Disc space: 500 GB SATA
Operating system: Windows® 7 Professional 64

Example 2: HP® EliteBook 8740w Mobile Workstation

Basic system: HP Elitebook 8740, 17" Display
Processor: Intel® Core™ i5/i7
RAM: 8 GB RAM
Graphic board: NVIDIA Quadro FX 3800M
Mouse: USB mouse with scroll wheel, or 3-button mouse
Disc space: 250 GB SATA
Operating system: Windows 7 Professional 64

PolyWorks® version 11 – 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 (XP-64, 7-64) Garda Nikon Metrology

Hexagon Romer (XP-64, 7-64)

CMMs (protocols)

I++ (XP-64, 7-64) MZ-1060 (XP-64, 7-64) Renishaw

Deva (XP-64, 7-64)

Laser tracker

Creaform (XP-64, 7-64) FARO Metronor(XP-64, 7-64)

Leica (XP-64, 7-64) Nikon Metrology NDI (XP-64, 7-64)

Steinbichler (XP-64)

Direct interfaces for laser scanners

Creaform (XP-64, 7-64) FARO (XP-64, 7-64) Konica Minolta

Leica (XP-64) Nikon Metrology NDI (XP-64, 7-64)

Perceptron (XP-64, 7-64) Steinbichler (XP-64)

Direct third party interfaces

AICON 3D (XP-64, 7-64) KREON RevXperts

API (Probe, Scanner, Tracker)

All mentioned direct interfaces are available for the 32-bit version of Windows. The availability for the 64-bit version is marked correspondingly. Please observe that additionally used third software for the measurement system is also applicable to the operating system.

PolyWorks® version 11 – 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.