

## Punch! CAD Product Matrix

Compare Punch! CAD Features	ViaCAD 2D v7	ViaCAD 2D/3D v8	ViaCAD Pro v7	SHARK LT v5	SHARK v5	SHARK FX v7
<b>MSRP</b>	<b>\$49</b>	<b>\$99</b>	<b>\$249.99</b>	<b>\$495.99</b>	<b>\$1295</b>	<b>\$1795</b>
<b>2D Drafting and Annotations</b>	X	X	X	X	X	X
26 Dimension Types	X	X	X	X	X	X
Bill of Materials	X	X	X	X	X	X
250+ Drafting Tools	X	X	X	X	X	X
<b>Advanced Drafting</b>						
Auto 3D to 2D (Polylines)	X	X	X	X	X	X
Auto 3D to 2D (Precise)				X	X	X
Section/Detail/Auxiliary Views	X	X	X	X	X	X
GD&T				X	X	X
MarkUp and Redline				X	X	X
<b>3D Modeling Tools</b>						
Curves	X	X	X	X	X	X
Basic Surfaces		X	X	X	X	X
Basic Solids		X	X	X	X	X
Feature Based/History Tree		X	X	X	X	X
Shelling, Blending, Local Face		X	X	X	X	X
<b>Advanced 3D Modeling</b>						
Surface Analysis			X	X	X	X
Deformations			X	X	X	X
Bending Along Curve			X	X	X	X
Offset Surface			X	X	X	X
Skin w/Guides			X	X	X	X
Surface Lofting			X	X	X	X
Tangent Covers			X	X	X	X
Surface Booleans			X	X	X	X
Draft Surfaces			X	X	X	X
Trim/Join Surface			X	X	X	X
Surface Booleans			X	X	X	X
Surface Extend			X	X	X	X
MicroScribe Digitizer				X	X	X
Lofting w/Guides					X	X
Tangent Cover w/Guides					X	X
Feature Patterns					X	X
G2 Edge Blending						X
Rib/Lip Feature						X
<b>Parametric Constraints</b>						
13 Geometric Constraint Types					X	X
Dimension Driving Constraints					X	X
Auto Constraints					X	X
Animate Constraints					X	X
Variables and Equations					X	X
<b>PhotoRendering</b>						
RayTracing, Shadows, Transparency			X			X
Material, Decal Library			X			X
Environment Maps			X			X

Poster Size File Export, QT VR			X			X
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Animation						
Walk Through, Flyby						X
Panoramic & Object Virtual Reality						X
Object Time Lines/Paths						X
Translators						
IGES, STEP, SAT	X	X	X	X	X	X
Adobe Illustrator™	X	X	X	X	X	X
DXF/DWG R12-2008	X	X	X	X	X	X
STL Import/Export	X	X	X	X	X	X
Rhino™ 3D Import	X	X	X	X	X	X
BMP Import	X	X	X	X	X	X
SketchUp™ Import	X	X	X	X	X	X
OBJ Import/Export			X	X	X	X
Pro/E™					X	X
CATIA V4™ Import/Export					X	X
CATIA V5™ Import/Export (PC Only)						X
Inventor™ (PC Only)						X
VDA Import/Export (PC Only)						X
Other Features						
2D/3D Part Library	16K	26K	26K	26K	26K	26K
OpenGL Materials/Textures		X	X	X	X	X
Multiple ViewPorts			X	X	X	X

### Product Descriptions

#### ViaCAD 2D

Intuitive 2D drafting application with extensive collection of tools for general purpose design or technical illustrations. Supports automatic creation of 2D views from imported 3D data and shares data with AutoCAD™ and Adobe Illustrator™ products.

#### ViaCAD 2D/3D

Includes more tools and functionality than many competitive CAD packages costing much more. Provides exceptional value suitable for beginners or experts. Innovative 2D to 3D user interface toggle combined with LogiCursor™ and a 90 minutes of training material creates perfect environment for 2D users migrating to 3D.

#### ViaCAD Pro

All of the features of ViaCAD 2D/3D plus more modeling power and a large collection of materials and textures for visual realism using photorendering.

#### SHARK LT

Provides professional drafting features above and beyond ViaCAD that includes GD&T dimensioning to meet ANSI and ISO standards, and markup tools. Shark LT also provides precision 3D to 2D model to sheet tools based on our licensed CATIA technology.

#### SHARK

Professional CAD software that provides modeling functionality beyond retail products, includes translators to enterprise CAD system such as CATIA™ and PRO-E™ and 2D dimensional constraint management methods for rapid design iterations.

#### SHARK FX

Add to the modeling power of SHARK a collection of animation tools that bring your designs to life for web activities and presentations plus native translators for CATIA v5, Inventor, and VDA.