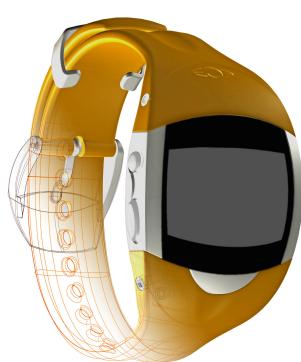


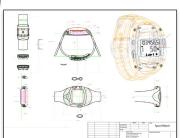
ARGON[™]v8 History-free precision modelling.[™]

- Updated Interface
- Unified Drawing & Modeling Tools for Wireframe, Surfaces & Solids
- Vellum Drafting Assistant[™] for Intelligent Snaps and Alignments in X,Y, & Z
- Unique Hybrid Mac/Windows, Office/Home Licensing
- Class-A NURBS Surface Modelling
- True Solid Modelling
- Surface Analysis

- 2D Drawing Snapshots
- Complete Set of Precision Import/ Export Translators Including ACIS SAT, Parasolid, IGES, STEP, DXF, DWG, EPS, AI, and more
- Support for Intel Mac
- Full Photo-realistic Rendering & Camera-based Animation
- Object and Group Properties (CG, Volume, Weight, etc.)







"Just extrude in any direction to get a product shape very quickly. It's as flexible as modelling clay."

Luc Heiligenstein designed this sports watch using both Ashlar-Vellum drafting and 3D modelling software.

Read more about Luc's success at www.ashlar.com/success.



- Direct 3D Modelling
- ACIS Modelling Kernel from Spatial
- 16 Place Floating Point Accuracy
- Hybrid Mac/Windows, Office/Home License
- 65,000 Hierarchical Layers
- Unlimited Colours
- Unlimited Number of Objects and Drawing Size
- Single File Holds Drawings, Models, Assemblies, etc.
- Direct Multi-sheet PDF Creation
- Universal Binary Support for Intel Mac

User Interface

- Updated Intuitive Vellum Interface
- Drafting Assistant[™] for Automatic Snaps and Alignments
- Smart Cursor Changes Shape Indicating Active Tool and Operations
- Strokes and Short Cuts Provide Instant Access
 to Commands
- Tear-off and Auto-hide Palettes
- Dockable Tools and Palettes
- Palettes can be Flipped Vertically or Horizontally
- Resizable Dialog Boxes
- Status Line to Specify Object Parameters
- Message Line Provides Tool Instructions and Options
- World and User-defined Coordinate Systems
 All Data Entry Fields can Perform Numeric
- Calculations
- TrackBall for View Selection and Dynamic or Step Rotation
- Show/Hide Palette
- Selection Mask for Easier Selection of Specific Entity Types, Layers, Colours
- Grid (User Definable)
- Object Editor
- Support for SpaceMouse Device on Mac and Windows
- Easy Update Installer







💿 Viewpoint









Display and Visualization

 Scene Display Modes: Flat Shaded Gouraud Gouraud w/Edges Phong Phong w/Edges Hidden Line Dimmed Hidden Line Removed Photo-realistic

Scene Display Options: Anti-alias ZBuffer Curves Clip at Eye Point Transparency

- **Reflected Environment** Real-time Object Display Options:
 - **Display Iso Lines** Silhouettes
 - Transparency
 - Direction
- Curvature Comb Surface Analysis Display (Gaussian, Mean, Min/Max, Zebra, Normals,
- Curvature, Draft) Object Display Resolution (Coarse, Medium, Fine, Very Fine, Super
- Fine)
- User Definable Object Colours
- Adjustable Perspective
- Infinite Pan and Zoom
- Section Profiles and Cutaway View in the Edit Window
- Real-time 3D Display:
 - Curves Surfaces Solids Meshes Text Bitmaps Dimensions

Object and Group Properties

- Material
- Centre of Gravity
- Volume
- Weight
- Density
- Moments of Inertia
- Principal
- Axis

Object Management Tools

- Design Explorer™: Layer Tree
- Object List Object Properties Dialog
- Show/Hide Palette

General Transform Tools

- Move
- Copy Along Path
- Rectangular Array Duplicate
- Feature Array
- Rotate
- Polar Array Duplicate
- Scale (Uniform or Differential)
- Mirror
- Align
- **Text Tools**

Normal

- Along a Path
- Keep Screen Horizontal
- At an Angle
- Set: Font
- Size
- Style
- Colour
- Thicken
- Extrude
- Revolve
- Sweep

Perfume bottle by Marc Caloren of Marc 3 Designs.

"Argon is our software of choice — there is very little training required before our new team members are productive on the program. It is amazing how quickly people grow and learn with Ashlar-Vellum."

Jason Pippenger, manufacturing engineer and manager for TSS Technologies.

ARGON[™]v8

Wireframe Creation Tools

- Point
 - Points on Curve
 - Points on Surface l ine
 - Mid-point Line
 - Connected Line
 - Arc

 - Circle Fllipse
- Conic
- Rectangle
- Polygon
- Arbitrary Polygon Star Polygon
- **Sketch Spline**
- Through-point Spline Vector Spline
- **Bezier Spline**
- Helix
- Spiral

Wireframe Editing Tools

- Fillet
- Chamfer
- Trim
- Relimit/Extend
- Break Offset
- Join
- Extrude
- Revolve

- Project to Plane
- Extract Edge of Surface or Solid
- Increase Order
- Fair Spline

or Solids

- Add/Remove Spline Points
- Modify Spline Slope

Surface Creation Tools

Surface Primitives:

Sphere

Cylinder

Pyramid

Extruded Surface

Perpendicular

Sweep Along One Rail:

Between Rail Points

With Maintain Height

Skin, Skin w/ Guide Curves

Drafted/Extended Surface

Freeform Deformation (Push/Pull

Deform to a Point, Factor, or Curves

Add/Subtract/Intersect Planar

Match G1 and G2 Tangency Insert Control Points

Imprint Profile Sketches for Surface

Continued...

Surface Editing Tools

Cover Surface, Tangent Cover

Sweep Along Two Rails:

Infinite Plane

In Place

Ridged

Full Rail

Tangent Loft

Net Surface

Tube Surface

Fillet Surface

Surface Points)

Surfaces

.

Join Surfaces

Elevate Degree

Subdivisions

Rebuild Surfaces Add, Remove, & Replace Curves of Associative Surfaces

Trim/Untrim Surfaces

Offset Surface

Revolved Surface

To Entity

Lathe

Sweep:

Block

Curve by Intersection of Plane and a Curve, Surface, or Solid

Create Points by Intersecting Surfaces

Project Curve onto Surface/Solid Intersect Two Curves



Solid Creation Tools

Solid Primitives: Sphere Slab Block Cylinder Cone Torus Prism Pyramid

- Ellipsoid • Lathe Profile: With Draft Non-planar Profile
- Extrude Profile: Distance Vector To Entity Mid Plane Thin Wall With Draft Non-planar Profile
- Skin, Skin w/ Guide Curves
- Tangent Loft
- Sweep Profile Along One Rail: In Place Perpendicular Ridged Full Rail To Entity Between Rail Points With Draft
- Sweep Profile Along Two Rails: With Maintain Height
- Pipe Solid
- Thicken Surface into Solid
- Stitch Surfaces into Solid

Solid Editing Tools

- Boolean Add/Subtract/Intersect Solids
- Constant Blends: Radial Elliptical Vertex
- Variable Blends: Linear
 By Position
 To Curve
 To Fixed Width
 - To a Hold Line
- Constant Chamfers: By Length Two Lengths Length and Angle Vertex
- Variable Chamfers: By Lengths Four Lengths Lengths and Angles By Position To Fixed Width Holes:
- With Bore With Sink To Depth Through First Blind To Face With Draft

• Bosses:

ARGON[™]v8

- With Specified Fillet With Draft Profile Cutout:
- With Draft

 Profile Protrude:
 By Vector
 To Face
 With Draft
 - With Drai Split:

.

- With Surfaces or Solids
- Trim: With Curves, Surfaces or Solids
- Shell: With Independent Face Offsets With Core/Cavity Options
- Parting Line: With Draft
- Local Operations: Taper/Draft Face Move Face/Edge Offset Face Remove Face Replace Face Match Face Deform Face (By Factor, To Point, To Curves)
- Bend Solids
- Twist Solids
- Stretch Solids

Independent 2D/3D Drawing Creation

- Predefined and Customizable
 Layouts
- Create 2D/3D Drawings w/o Building Models
- Stored in Same File as Model

2D/3D Drawing Creation from Models

- 2D or 3D Snapshots from 3D Wireframe, Surfaces, and Solids
- Sectioning Capability (Manual)Automatic Hidden Line
- Automatic Hidden Li
 Predefined Layouts

2D/3D Drafting & Detailing

- Available for Independent and Model-driven Drawings
- Smart Dimension Tool Automatically Creates the Appropriate Dimensions
 - Dimensions:
- Linear Angular
- Angu
- Diametric
- Radial
- Spline Length
- Standard and User-definable Tolerances and Settings:
 - ANSI
 - DIN
 - ISO
 - JIS
 - Dual Architecture
 - Stacked Fraction
 - Balloon and Callout Dimensions
- Predefined and User Created Hatch and Fill Patterns
- Predefined and User Created Line Weights, Colours, and Styles
- All Dimensions can be Dynamic or Static

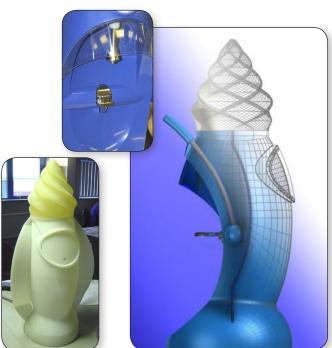
Continued...

"Ashlar-Vellum software is the heart of our virtual prototyping design and development process, supplying all our solid modelling. 2D drawing and

development process, supplying all our solid modelling, 2D drawing and image rendering needs in the one package."

In only five months from concepts through distribution, **Nick Dearden** brought this ice cream dispenser to shops throughout the U.K.

Read more at www.ashlar.com/success.





Recommended System

Mac OS X 10.4 (PPC), 10.5 (PPC or

Intel), 10.6, 10.7, 10.8, 10.9, 10.10 (Intel

Pentium 4, Xeon, Athlon / G4 or G5

32 MB Accelerated Video Card w/

Open GL (Standard on all business-

class systems since 2005. Additional

RAM will not improve performance.)

Medium- to High-performance

Recommended for Real-time

Allocated Virtual Memory

Workstation Graphics Subsystem

Environment Mapping on Complex

250 MB Free Hard DriveSpace / 1 GB

DVD Drive or High Speed Internet

Windows / Macintosh

Windows XP/7

Only)

Files

"There is nothing to match the flexibility and

tools for 3D geometry—and then there's the

Designer Kevin Quigley produced this line of Optima Mugs

sheer value of Ashlar-Vellum translation

Read more at www.ashlar.com/success

modelling."

for Village Mill.

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512 MB RAM

Connection

Photo-realistic Rendering

- Drag and Drop Materials
- Drag and Drop Decals (with Alpha
- Channel)
- 3D Wireframe Interleave
- Realistic Texture Maps and Procedural Textures: Wood Marble Granite Leather
 - Plastic
 - Glass
 - Metal
 - **Brushed Metal**
 - Automotive Paint
 - and more
- Advanced Material Editor: Colour Reflectance
 - Specular Diffuse
 - Ambient
 - Roughness
 - Bump
 - Transparency
 - Refraction
 - Texture Orientation
 - and more
- Interactive Materials Display
- Environment Maps
- Customizable Scene Presets
- Editable Light Sources:
 - Spot
 - Bulb
 - Distant
- Photo-realistic Sunlight (Location/ Date/Time)
- Photo-realistic Tube and Area Lights
- Adjustable Hard and Soft Shadows
- Visible Volumetric Light Effects
- Sketch Effects (SP1)
- Fog Effects
- Backgrounds
- Raytracing with Anti-aliasing
- Production Quality Resolution & Output (BMP, TGA, TIF, LWI, EPS)
- Multiprocessor Photo-realistic Rendering (Mac SP1)

Creative **Intuition**

Powered by **Vellum**[™]

User-defined Presets

Camera-based Animation

- Fly-by
- Walk-throughSunlight Timeline
- QuickTime Object VR
- OuickTime Panoramic VR
- Direct Event Journal Recording and Playback
- QuickTime Event Recording and Playback

Import/Export

- ACIS SAT
- PDF (Export Only)
- DWG/DXF
- IGES
- STEP
- Pro/E (via SAT)
 - Parasolid X_T (Windows Only)
 - SolidWorks (via SAT)
- Catia v4
- 3D Studio (Import Only)
- Rhino 3DM (Import Only)
- Facet
- STL
- Adobe Illustrator
- EPS (Export Only)
- CGM
- VRMI
 - ShockWave 3D (Export Only)
 - Bitmap:
 - BMP (with Alpha Channel) JPEG PNG (with Alpha Channel)
 - PPM
 - XPM
 - XBM
 - GIF
- PICT (Mac Only)
- Spline (Import Only)
- RAW Triangle (Export Only)
- ASCII Text
- Grid Surface (Import Only)
- Other Ashlar-Vellum Products

Localized User Interface

- English US
- English UK
- French
- German
- Italian
- Portuguese
- Russian (Windows only)
- Swedish

ARGON[™]v8

PDF Integration

- Directly Generates Non-tessellated Arcs and Splines (SP1)
- Multi-sheet (SP1)Imbedded Exports Optional
- insected Experts option

Available Accessories

- Graphite v8
- Cobalt Share[™] for Viewing, Printing and Exporting at Client or Manufacturing Site (Free)
- Vellum:environments
- Vellum:tracks[™]
- Vellum:materials[™]

Tutorials (Free)

Vellum:decals[™]