

SmartCut Pro

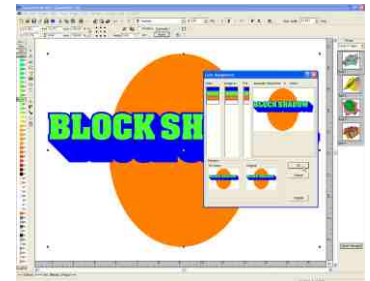


The Ultimate Tool for the Creation, Editing and Cutting of Vector Graphics

SmartCut Pro represents the state of the art in bitmap to vector conversion with the added benefit of the industry's best vector creation and editing tools and vinyl cutting functions. The software is a full featured vector creation and editing tool that can be used as a stand-alone program or integrated with Smart Designer 12 and CorelDRAW. Scanned images or bitmaps can be easily converted to production-ready vector art work and exported in a variety of industry standard file formats. In addition, vector graphics can be created with user-friendly text tools and the industry's most intuitive vector drawing tools. The software has powerful vector editing tools including auto-welding, advanced outlining, block shadowing (with automatic trimming), contouring (print and cut contours) plus routing and engraving fills (hatch and island). SmartCut Pro also includes state of the art cutting functions for outputting graphics to a vinyl cutter/printer. SmartCut Pro is the ideal industry specific compliment for design software such as CorelDRAW or Adobe Illustrator.

General Features

- Compatible with Windows 98, Me, 2000 and XP
- Scan images directly into SmartVector Pro with TWAIN module
- Integrated bitmap editing functions including posterization and color reduction filters to prepare bitmaps before vectorization
- Powerful contour, curve and noise reduction filters allow complete flexibility over vectorization settings
- Special text setting automatically align and straighten all text elements in a logo or artwork
- Overlap setting automatically creates an overlap or "trap" for each color in the design in a specified color order
- During vectorization each image is automatically separated into color layers (separations) for vinyl cutting, routing or screen printing
- Export files in popular formats including EPS, CMX, DXF, or HPGL
- Drag and drop images to and from CorelDRAW or Smart Designer 12
- Import images automatically from CorelDRAW, Illustrator, Freehand or AutoCAD using the integrated import/export utility
- Includes fully integrated Clip Art Manager and Job Manager



Color Reduction During Vectorization

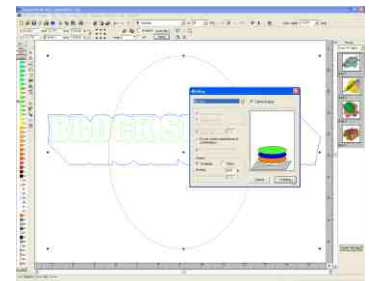


Image Before Autoweld

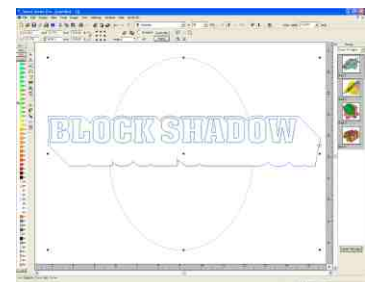


Image After Autoweld

Additional Cutting and Production Features in SmartCut Pro

- Plot Manager, cut via serial port, parallel port, USB port or TCP/IP network connection or cut across a network
- POWERweed™ feature - automatically insert user-defined vertical and horizontal weeding lines on top of any image
- Store material preferences such as pressure and velocity settings for specific jobs or materials
- Cut by color or selected object with full-color preview of each color or object in the design
- Cut preview which displays material consumption on your vinyl roll
- Increased tracking using sorted cutting order - designs are cut in an orderly fashion from left to right and bottom to top
- Reduce material waste with automatic material optimization
- Automatic tiling of large jobs into multiple segments with user defined overlaps - preview, reposition, and edit segments
- Includes drivers for most popular cutters and printer/cutters

SmartCut Pro Exclusive Cutting Features

The following features are not available in SmartVector Pro. SmartVector Pro is a "design only" version of SmartCut Pro that does not contain any cutting features.

Cut Window

Device Drivers: Includes drivers for most common cutting plotters

Cut Mode: Includes settings for cutting, drawing, pouncing and contour cutting

Stored Material Preferences: Save preset pressure, velocity, size and overcut settings for specific materials

Weed Border: Adds a rectangular weed border to a cut object or design

Sort Before Output: Re-sorts the cutting order of the job to ensure that the objects are cut bottom to top, right to left to maximize tracking

Copies: Sets the number of copies

Stack Processing: Repeats a job automatically without re-sending the file

Reference Point: Sets reference point for print and cut

Plot to File: Creates a plot file in a specific location of a hard drive

Save Settings: Saves all settings specified in Cut Window

Origin: Enables origin of next cut to be placed after last design or returned to original cut position

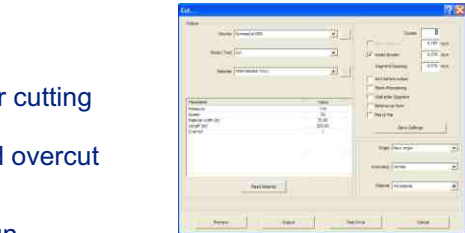
Accuracy: Varies cutting accuracy

Objects: Cut all objects, selected objects, all colors in sequence or individual colors

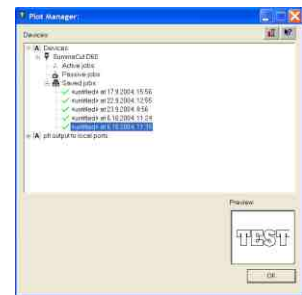
Output: Sends job to cutter

Preview: Previews job before cutting

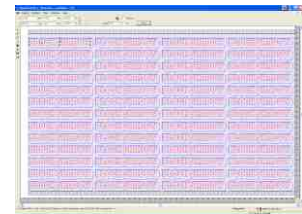
Read Material: Displays material width, height and length for cutters equipped for bi-directional communication



Cut Window



Plot Manager



Preview Window

Preview Window

Options: Rotate image, mirror image, set weed borders or test drive job

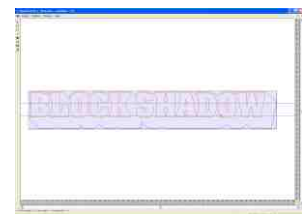
View: Change views from Material Width, All Objects, Selected Objects or Total Area

Recalculate: Returns to Cut Window

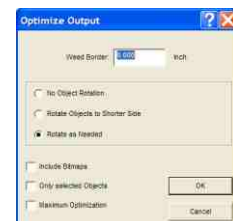
Optimization: Rotates and nest images for minimum material consumption

Segment: Permits user defined tiling of oversized images with overlapping or butting seams

Property Bar: Size, duplicate, gang or position job prior to output



Segement Window



Optimize Output Window

Additional SmartCut Pro Features

Import and Exporting (File Menu)

Import: Import most popular vector and bitmap file formats including AI/EPS, DXF (AutoCAD), HPGL (Plot File) WMF (Windows Metafile), CDR (CorelDRAW), CMX (Corel Exchange), JPEG, GIF and BMP (Bitmap)

Export: Export most popular vector and bitmap file formats including EPS, DXF (AutoCAD), HPGL (Plot File) EMF (Extended Metafile), CMX (Corel Exchange), JPEG, TIFF and BMP (Bitmap)

Scanning and Vectorization

Scan: Scan directly into SmartVECTOR Pro with an integrated TWAIN compliant scanning module

Vectorization: Converts bitmapped graphics into editable vector line art with the industry's best tracing capability

Prepare to Cut: Converts non-cuttable outlines (strokes) and gradient fills(blends) to cuttable vector objects

Job Management (Edit Menu)

Job Manager: Saves customer and job information for a saved graphic into an integrated database

Job Calculator: Displays font usage and material consumption (sq. footage) for each color in a design

Color Layer: Creates user-defined material palettes (vinyl or ink) for specific colors in a design

Design Features (Design Menu)

Standard Design Features: Includes industry standard design functions such as Rotate, Mirror, Scale, Group/Ungroup, Break Apart/Combine, Duplicate, Delete and Clone

Outline/Fill: Enables the creation of user-defined fill and outline colors for objects and text

Perspective: Creates three dimensional visual effects based upon various viewing perspectives

Envelope: Creates user-defined distortions with text or objects such as arches

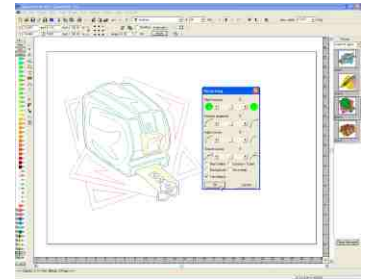
Block Shadow: Creates block shadow effects to text or objects without intersecting paths

Drawing Tools: The industry's most user-friendly drawing tools including Rectangle, Ellipse, Line/Curve, Digitize Mode, Freehand, Symmetrical Object, Drill Hole and Registration Marks

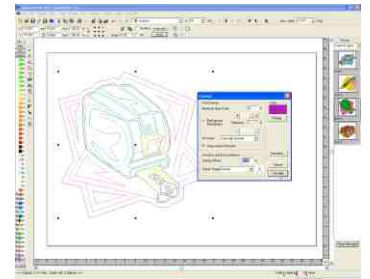
Round Corners: Automatically rounds sharp corners

Reduce Nodes: Automatically reduces unnecessary or excessive nodes in an object or design

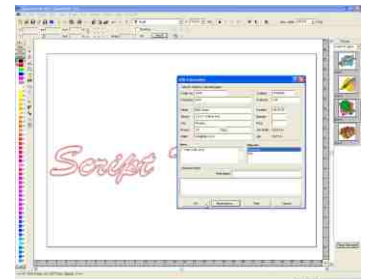
Clipart Manager: Creates user-defined clip art categories with full previewing and importing functions



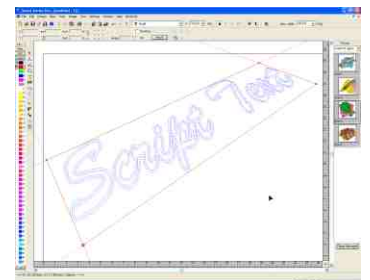
Vectorization Settings



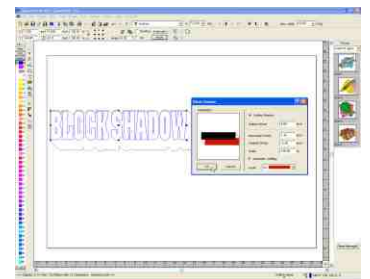
Contour Feature



Job Manager



Perspective Feature



Block Shadow Feature

Production Features (Tools Menu)

Contour: Automatically creates a cuttable contour around a vector graphic for print and cut applications

Set Jog Mark: Inserts separation marks for printing or cutting

Measure: Measures a distance using a virtual ruler by dragging between two objects

Optimize Material: Reduces material waste for vinyl cutting or printing with powerful spacing options (nesting)

Start Tool Paths: Creates specialized tool paths for routing or rotary engraving including circles and corners

Routing: Creates user-defined tool paths for rotary engraving or routing including Island and Hatch fills

Outlining: Creates a vector outline or inline around an object with automatic welding of intersecting paths and deletion of small objects (insides of letters)

Welding: The industry's most powerful automatic welding features including Manual, Automatic, Trim, Open Trim, Fill, By Color, Open Area and Screen Print (Color Trapping)

Slanting: Slants or skews an object or text

Multicopy: Creates multiple copies of a design for output, may duplicate object or create clones that are linked to a master object

Bitmap Editing (Image Menu)

Standard Bitmap Editing Features: Includes standard bitmap editing features for adjusting hue, contrast, saturation, gamma correction and sharpness

Relief: Creates a user-defined embossed effect

Reduce Color: Powerful color reduction filters reduce colors in a bitmap prior to vectorization

Posterize: Converts Process Colors to RGB which results in color reduction and defined edges for the best possible vectorization

Grayscale: Converts colored bitmaps into grayscale image

Invert: Inverts the colors in a bitmap

Convert to Bitmap: Converts vector images into bitmaps

Fotocut: Converts bitmapped images or photos into a series of cuttable lines that replicate a photographic image when cut in vinyl

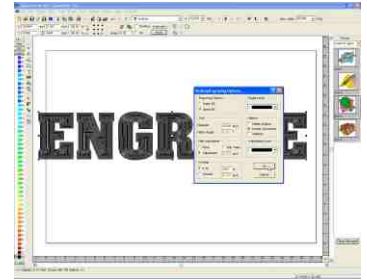
Text Features (Text Menu)

Add/Edit Text: Creates and manipulates text in SmartVECTOR Pro

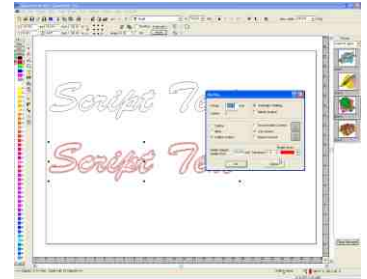
Text Box: Enables powerful text editing functions such as tabs, arcs and special characters (symbols)

Convert Text to Curves: Converts editable fonts into outlines for node editing

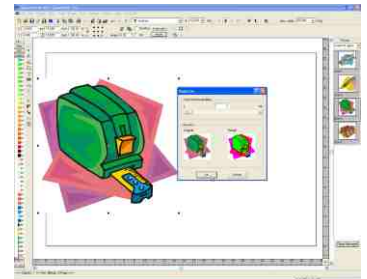
Font Management: Enables management of PostScript Type 1 fonts in Windows



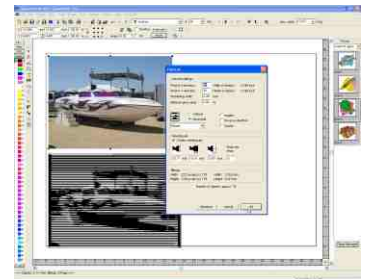
Routing and Engraving Feature



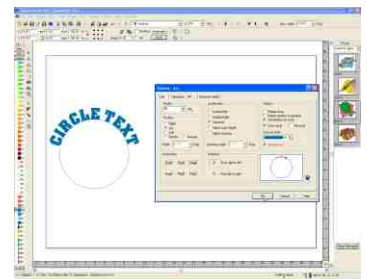
Outlining Feature



Posterization Feature



Fotocut Feature



Circle Text Feature

Settings (Settings Menu)

Standard Settings: Includes standard settings for duplicate distance, Job Manager fields, geometric shapes, and registration marks

Color Palette: Changes or creates user-defined color palettes for various materials or inks

Control Panel: Instantly access the Windows System Control Panel

Working Area: Defines a working area or background color

Object Bar: Adds or deletes icons and functions from the Object Bar

Rulers: Defines ruler options

Unit of Measurement: Selects a unit of measurement such as English or Metric

Grid: Defines a grid type for the current workspace

Screen Colors: Defines screen colors as either Spot Colors or Windows Dithering (256 colors)

Outline Mode: Enters the wireframe or outline viewing mode to view the vector objects in a design

Undo/Redo: Enables or disables the Undo function

Crosshair: Enables CAD style crosshairs for the mouse cursor

Guidelines: Enables horizontal, vertical and diagonal guidelines for positioning objects

Snap Mode: Enables the ability to snap objects or text to grids or guidelines

Languages: Chooses the current language for the software including English, French, German, Czech, Dutch or Italian

Hep (Help Menu)

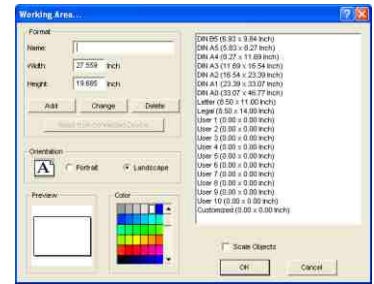
About: Displays installed version of SmartVector Pro

Help: Accesses the integrated help menu system

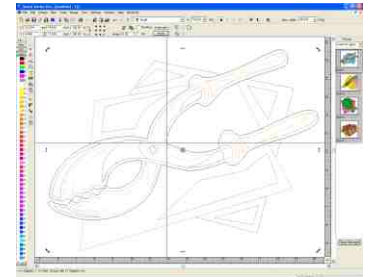
Object Info: Displays data for currently selected object including nodes and fonts

Online Support: Links to the www.smartdesigns.com web page

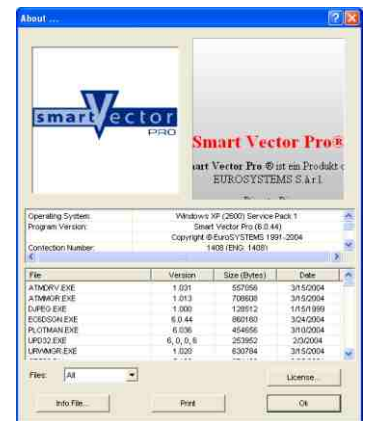
Live Update: Checks the Internet for a newer version and installs any needed updates



Set Working Area



Outline View with Crosshair Cursor



About SmartVector Pro Window

The SmartCut Pro Advantage

- **No extra nodes created during contouring and outlining**
- **Drag and drop images between CorelDRAW, SmartCut Pro and Smart Designer**
- **The industry's best bitmap to vector conversion capability**
- **Industry specific functions for vinyl cutting including block shadowing and contouring**
- **Integrated clip art manager and job manager**
- **The most intuitive vector drawing tools in the industry**
- **Automatic welding of intersecting paths to make any vector image "vinyl ready"**
- **Automatic vector trapping of images for screenprinting or vinyl cutting**
- **Create island and hatch fills for rotary engraving or routing**
- **Print color separations or export to a routing, engraving or cutting program for final output**
- **The Industry's most user-friendly cutting features**