

Features of Make-The-Cut (4.6.1) and KNK Studio (8.0)

✓ Standout Feature

• Regular Feature

— Feature Needs Improvement

<u>Category</u>	<u>Feature</u>	<u>Make The Cut</u>	<u>KNK Studio</u>
Screen	Toolbars	<ul style="list-style-type: none"> • <u>Movable</u> 	<ul style="list-style-type: none"> ✓ <u>Movable and customizable</u>
	Zoom	<ul style="list-style-type: none"> • 10% - 1000% • Zoom to Select, Virtual Mat, All Shapes 	<ul style="list-style-type: none"> • 6% - 800% ✓ Marquee Zoom ✓ Zoom to Select, Document Area, or Previous View
	Units	<ul style="list-style-type: none"> — Rulers and display W and H in inches only • Some measuring functions with optional metric 	<ul style="list-style-type: none"> ✓ Inches or mm with easy toggle
	Grid	<ul style="list-style-type: none"> — 1" grid lines only • 8 snap-to-grid settings ✓ <u>Circle grid option</u> 	<ul style="list-style-type: none"> ✓ <u>Unlimited grid line spacing</u> ✓ Unlimited snap-to-grid settings • 9 color options
	Guidelines	<ul style="list-style-type: none"> — <u>Only appear around selected images</u> 	<ul style="list-style-type: none"> ✓ <u>Custom guidelines (including angled)</u> • Guidelines can be added through any two nodes
	Document Area	<ul style="list-style-type: none"> • Custom Virtual Mat dimensions • 9 color options — Limited design space outside of Virtual Mat — Position origin set at upper left corner of Virtual Mat 	<ul style="list-style-type: none"> • Custom Sign Blank dimensions ✓ Hide document ✓ Design space around all four sides of document • Move ruler positions ✓ Change position origin • 9 color options for background and document outline • Unlimited colors for document fill

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	Image Appearance	<ul style="list-style-type: none"> ✓ Anti-aliasing gives smooth edge appearance — Must select Contrast mat to see true colors • Option for Fill, Outline, or Both 	<ul style="list-style-type: none"> — No anti-aliasing - images appear rough/uneven • Option for Fill, Outline, or Both
	Line Style on Images	<ul style="list-style-type: none"> — Thin line and single color only • <u>Dash option (for cutting)</u> 	<ul style="list-style-type: none"> ✓ <u>Any thickness and any color</u> • <u>Dash option (for cutting)</u>
	Layers	<ul style="list-style-type: none"> ✓ <u>Easy ordering, locking, re-coloring, hiding of shapes</u> • Used to control what is sent to cut 	<ul style="list-style-type: none"> — Awkward to learn and use
	Pages	<ul style="list-style-type: none"> ✓ Easy assignment of layers to pages ✓ <u>Option to have shapes on a page visible on all pages</u> 	<ul style="list-style-type: none"> — Awkward to learn and use
	Shortcut Keys	<ul style="list-style-type: none"> • Over 100 pre-assigned 	<ul style="list-style-type: none"> • Over 100 pre-assigned ✓ User may edit assignments and add another 34
	Undo Functions	<ul style="list-style-type: none"> • Undo and Redo • Ability to set limit 	<ul style="list-style-type: none"> • Undo and Redo • Ability to set limit ✓ <u>Navigators allow user to go to a set point in design</u>
Import/ Export	Import Raster	<ul style="list-style-type: none"> • .jpg, .bmp, .tif, .png, .gif 	<ul style="list-style-type: none"> • .jpg, .bmp, .tif, .png, gif plus other less common
	Import Vector	<ul style="list-style-type: none"> ✓ .svg, .svgz, .pdf, ai, eps, .wpc, .gsd, .tff, .scut, .scut2 ✓ Copy paste from KNK Studio into MTC — Color doesn't import on all file types 	<ul style="list-style-type: none"> • .ai, .eps, .dxf, .wmf, .pdf, .gsd, .plt plus other less common
	Export Raster	<ul style="list-style-type: none"> • .jpg, .png ✓ Option to export .png with transparent background ✓ <u>Watermark and Drop Shadow options</u> 	<ul style="list-style-type: none"> • .jpg, .bmp, .tif, .pcx, .png — No option to export .png with a transparent background

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	Export Vector	<ul style="list-style-type: none"> • .ai, .eps, .svg, .pdf ✓ to Basic Shapes and to Online Gallery 	<ul style="list-style-type: none"> • .ai, .eps, .svg, .pdf, .plt, .dxf plus other less common
	Additional File Access	<ul style="list-style-type: none"> • 100+ Basic Shapes ✓ Import from Online Gallery of >5000 files ✓ Import from Lettering Delights.com 	<ul style="list-style-type: none"> ✓ <u>9 Basic Shapes customizable to hundreds of variations</u> • Clipart Viewer of >3900 files ✓ Customizable category access
Text	Font Types Supported	<ul style="list-style-type: none"> • TTF, OTF ✓ <u>OPF</u> 	<ul style="list-style-type: none"> • TTF, OTF ✓ VEF, WFN (includes >40 free engraving and line fonts)
	Character Map	<ul style="list-style-type: none"> • Full character set available ✓ <u>Option to resize display</u> 	— <u>Full character set available</u>
	Input Options	<ul style="list-style-type: none"> • Bold; Italic • <u>Rotate left/right</u> • Justify (Left/Center/Right) • Line Spacing 	<ul style="list-style-type: none"> • Slant; <u>Vertical Text</u> • Justify (Left/Center/Right and Top/Center/Bottom) • Character Spacing; Line Spacing ✓ Vertical Text ✓ <u>Kerning</u>
	Special Text Features	<ul style="list-style-type: none"> ✓ Open fonts w/o preinstall in Windows ✓ Split by lines, spaces, or characters within text input window — <u>Kerning by dragging text</u> or manually moving individual characters • <u>Fit text to arc using Objects to Path</u> • <u>Fit text to path using Bézier Warp</u> 	<ul style="list-style-type: none"> ✓ <u>Organize installed fonts into custom groups</u> • Spell check ✓ Modify font/size/style within existing text ✓ Copy/paste font and style onto other text entries ✓ <u>Fit text to arc</u> ✓ <u>Fit text to path</u>

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Designing	Image Selection	<ul style="list-style-type: none"> • Click image • Marquee-select • Hold Shift key to add to selection ✓ <u>Click on thumbnail on Layers bar</u> 	<ul style="list-style-type: none"> • Click image • Marquee-select • Hold Shift key to add to selection ✓ Select by group ✓ <u>Select by color</u> ✓ <u>Select by size</u> ✓ Select by open path
	Image Manipulation	<ul style="list-style-type: none"> • Resize; Slant, Mirror; Flip,; Copy; Paste; Paste in Place • Align images in 11 different ways <ul style="list-style-type: none"> — Rotate (freely drag or in preset deg increments) — <u>Space (by dragging only)</u> • Equal Space ✓ Duplicate vertically, horizontally, <u>grid</u> or in a <u>circle</u> • <u>Bezier Warp</u> • <u>Wrap Objects to Path</u> ✓ <u>Hide and Lock by Layers</u> ✓ <u>Delete by Area</u> 	<ul style="list-style-type: none"> • Resize; Slant, <u>Stretch</u>; Mirror; Flip, Copy; Paste ✓ Align images in 22 different ways • Rotate (freely drag or in any increments) • Space (any distance) • Equal Space ✓ Duplicate vertically, horizontally, grid, staggered, or in a <u>circle</u> • <u>Warp</u> • <u>Object to Path (with equal spacing)</u> — Lock (but doesn't prevent moving) ✓ Hide by color, Hide by all but selected color
	Image Information	<ul style="list-style-type: none"> — Width and Height (inches only in main display) — Location (top left corner only) • <u>Measuring Ruler (length & angle)</u> • <u>Perimeter; Area;</u> ✓ <u>Node count; Segment count; Point count</u> • Cut direction 	<ul style="list-style-type: none"> • Width and Height ✓ Location (unlimited points of reference) ✓ <u>Measuring Ruler (length & angle w/set Desired Distance)</u> — Node count • Cut direction
	Rhinestone Design	<ul style="list-style-type: none"> — <u>Automatic outlines or horizontal fills</u> 	<ul style="list-style-type: none"> • <u>Outlines and fills using fit circle to paths</u> • <u>Metamorphosis and Stenciling provide even more patterns</u>

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	Welding	<ul style="list-style-type: none"> ✓ <u>Basic weld plus 5 Boolean Join tools</u> ✓ Preview before accepting 	<ul style="list-style-type: none"> • <u>3 welding tools</u> • Ability to color/layer shapes to achieve <u>other outcomes</u>
	Shadowing	<ul style="list-style-type: none"> • <u>Inset and Outset</u> ✓ <u>Multiples in one step (Nested Duplicate)</u> • Blackout option 	<ul style="list-style-type: none"> • <u>Inset and Outset</u> ✓ <u>Multiples in one step with option to change color and thickness with each shadow</u> • Blackout option
Designing	Additional Design Features	<ul style="list-style-type: none"> ✓ <u>Jigsaw Puzzle</u> ✓ <u>Lattice</u> ✓ <u>Conical Warp</u> ✓ <u>Thin Paths</u> ✓ <u>Warp to Path</u> ✓ Customizable <u>Spirals</u> <u>Stars</u> <u>Polygons</u> ✓ <u>Auto 4 Point Warp</u> 	<ul style="list-style-type: none"> ✓ <u>3D Shadowing</u> ✓ <u>Stencil</u> ✓ <u>Metamorphosis</u> ✓ <u>Round Corner</u> ✓ <u>Fillet Round Corner</u> ✓ <u>Decorative Border</u> ✓ Center Line Tracing
Tracing/ Editing	Automatic Vectorization	<ul style="list-style-type: none"> ✓ <u>User friendly with preview before apply</u> • Option to retain original image ✓ Option to blackout internal paths ✓ <u>Alpha (transparent background) tracing option</u> • <u>Palette trace (merging of colors) option</u> • <u>Individual color trace option</u> ✓ Color and <u>grayscale scan</u> with stacking ✓ Ability to use different trace options on same image 	<ul style="list-style-type: none"> ✓ Four trace settings with special setting for small parts — No preview before apply — Original image must be copied first or re-imported ✓ Super Size for improved tracing of small images • Merging of colors option • Individual color trace option ✓ Ability to edit raster image before tracing
	Manual Tracing	<ul style="list-style-type: none"> • Bézier Curves and Straight Lines function available, but a bit awkward and crashes software easily 	<ul style="list-style-type: none"> ✓ Easy click/click/click with ability to switch between curves and straight lines by right clicking ✓ Polyarc mode offers alternative method that some users prefer
	Freehand Drawing	<ul style="list-style-type: none"> ✓ <u>Inverse Erase (add to existing shapes)</u> • <u>Freehand with Smoothing and Precision</u> ✓ <u>Freehand (Fat Path, Dots, Dashes, Forced Close option)</u> 	<ul style="list-style-type: none"> • Freehand (Thick Path option)

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	Separating / Joining Images	<ul style="list-style-type: none"> • <u>Split</u>; <u>Layer</u>; <u>Break</u>; <u>Join</u>, <u>Blackout</u> ✓ Reduce nodes (<u>controlled</u>, <u>automatically</u>, or always on) 	<ul style="list-style-type: none"> • Ungroup/Group, Break Path, Make Path • Reduce nodes (controlled only)
	Splitting Images	<ul style="list-style-type: none"> • <u>Tiling</u> • <u>Knife tool for open cuts</u> • <u>Erase tool for closed cuts</u> 	<ul style="list-style-type: none"> ✓ <u>Ginsu knife for open or closed cuts</u>
	Image, Node and Path Editing	<ul style="list-style-type: none"> ✓ <u>Erase Tool</u> for removing areas of an existing shape ✓ Inverse Erase for adding areas to an existing shape ✓ Easy to close open paths (lines will snap to disconnected nodes or choose connect to nearest node) — Only able to edit one path or one node at a time • <u>Insert node</u> • <u>Insert midpoint node</u> • <u>Neutralize Segment or Convert to Line</u> • Node edit: <u>Delete</u>; <u>Break</u>; <u>Smooth</u>; <u>Symmetric</u> 	<ul style="list-style-type: none"> ✓ Edit single or groups of nodes/paths ✓ <u>Convert path to smooth curve, straight line, or corner</u> ✓ <u>Insert desired, equal spaced, number of nodes along a path</u> ✓ Move node to (x,y) location • <u>Trim and Extend paths</u> • Start/stop points for path deletion • Delete path between any two consecutive nodes • Join two end nodes • <u>Close open path</u> ✓ <u>Convert to circle</u>
Cutting	Cut Order Control	<ul style="list-style-type: none"> • Cuts inside shapes before outer and right to left. 	<ul style="list-style-type: none"> ✓ Fully functional - <u>nearest</u>, <u>vertical</u>, <u>horizontal</u> or user can customize <u>cut order shape-by-shape</u>
	Weeding	<ul style="list-style-type: none"> — Must manually add weed shape 	<ul style="list-style-type: none"> • Weed and <u>power (split) weed</u> options • Set desired weed offset • <u>Option to set weed on repeats</u> • <u>Geometric Contour</u>

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	Selecting Images to Cut	— All images on all non-hidden layers sent to cut	<ul style="list-style-type: none"> ✓ <u>Select by color</u> ✓ <u>Filter by color</u> ✓ <u>Select by Size</u> • Send all to be cut or only selected images
	Blade Offset	<ul style="list-style-type: none"> • Single setting 	<ul style="list-style-type: none"> • Two settings: one for closing shapes, the other for sharpening corners
	Cut Window Options	<ul style="list-style-type: none"> • Multi-pass • Blade Offset • Force & Speed (on applicable cutters) • Cut Mode 	<ul style="list-style-type: none"> • Blade Offset • Speed (on applicable cutters) • Cut Mode ✓ <u>Mirror</u> ✓ <u>Rotate</u> ✓ <u>Nesting</u> ✓ <u>Cut by Color</u> ✓ <u>Repeats</u> ✓ <u>Weeding</u> ✓ <u>Banner Fill</u> ✓ <u>Cut Order</u> ✓ <u>Pouncing</u> ✓ <u>Move Shapes</u> ✓ <u>Resize Shapes</u>
	Print and Cut	<ul style="list-style-type: none"> ✓ 3 point registration – with automatic movement of alignment device to approx. reg mark location ✓ Reg marks automatically printed or an outside rectangle can be used ✓ Works with printing from any source 	<ul style="list-style-type: none"> — 3 point registration where user drags cursor on screen to approx. reg mark location — User must add reg marks (as shapes) to project
Other	Raster Image Functions	<ul style="list-style-type: none"> • Resize; Rotate; Duplicate • Recolor • <u>Fill a Shape (and Tile)</u> ✓ <u>Convert to Texture Snapshot</u> 	<ul style="list-style-type: none"> • Resize; Rotate; Duplicate ✓ <u>Clip; Crop; Resample, Super Size, Erase; Paint; Magic Wand; Eyedropper; Invert Select; Color Fill</u> • <u>Clipping</u>

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	Other Functions	✓ <u>Ability to attach other files (including, for example, .jpg, .pdf, .tff, etc) to current file</u>	<ul style="list-style-type: none"> ✓ <u>Badges</u> ✓ <u>Photo Machine</u>
	Notes	✓ <u>Separate Popup Window - easy to edit</u>	— <u>Onscreen only</u>
	Functions of Interest to Pros	✓ <u>Perimeter of Shapes; Area of Shape; Direction of cut</u>	<ul style="list-style-type: none"> ✓ <u>Power Weed</u> ✓ Weeding of Repeats ✓ <u>Cut Travel Distance</u> • <u>Cut Time Tracking</u> • <u>Job Cost Notes</u> ✓ Default Mirror; Default Weed; Default Cut by Color ✓ <u>Set End Point of Cut</u> • <u>Add Shape Dimensions</u> ✓ Import Vinyl/Foil Manufacturer's Color Palettes ✓ Ability to insert object onto screen, such as Excel spreadsheet, Wordpad doc, Corel file, Photoshop image, etc