



Ad-Vance Laser Cutting



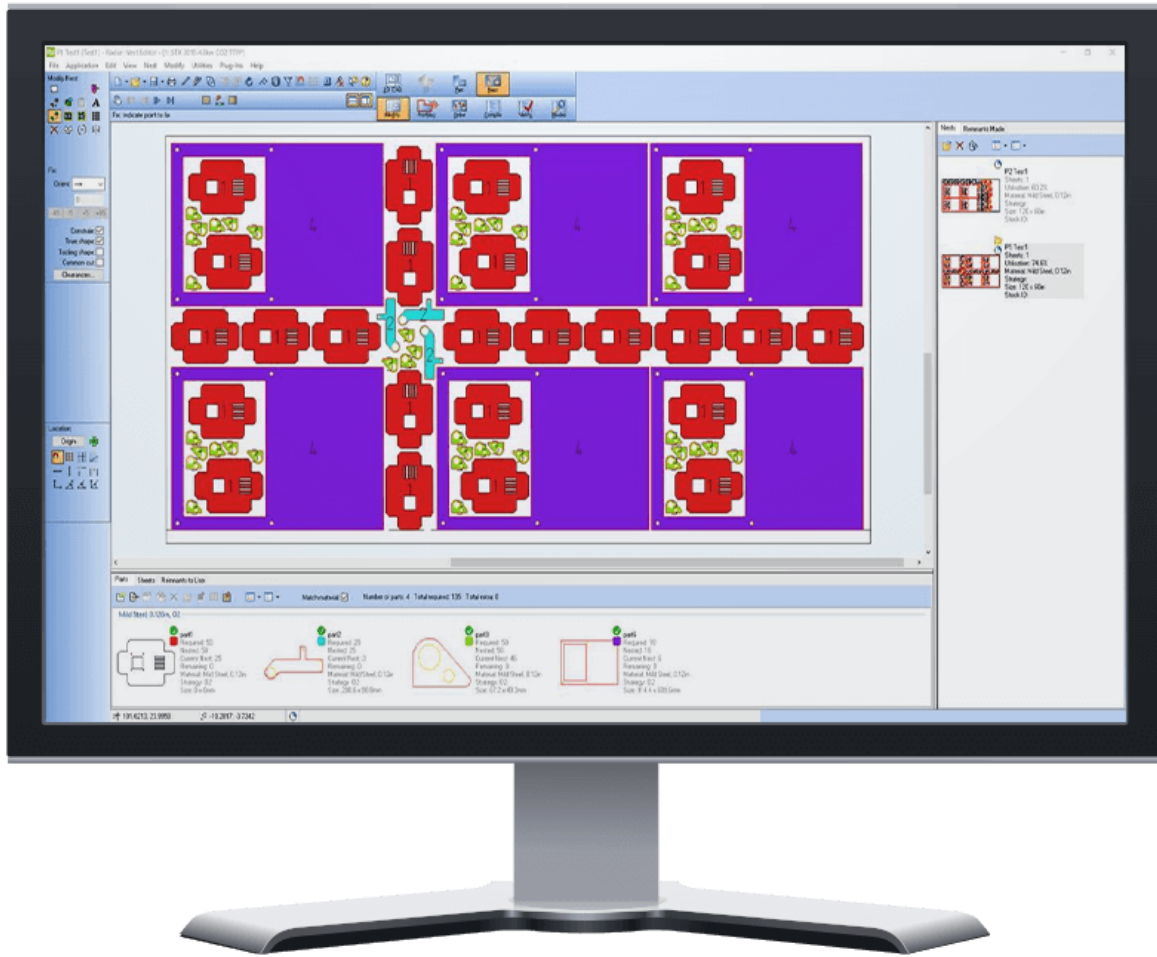
Mazak Super Turbo-X 3015 Laser Cutter

Our Laser Cutting machines are ideal for cutting metal out to your desired part size, blank sizes or laser etching and has many outstanding features designed to maximize productivity, efficiency, quality and profitability. Setup time with our laser cutting machines is effectively reduced to zero by innovative software functions.

Our laser cutting system has highly accurate processing made possible by mechanical parts built to micron tolerances, which allows up to hold tight tolerances on parts. Tolerances are typically +/- .005", but a tolerance of +/- .002" can be achieved depending on the application. Contact us today for a no obligation [Free Quote](#).

Nesting Software

We use a PC based CAD/CAM software package that enables the user to eliminate numerous, traditional, nonproductive steps in sheet metal process and go to actual production quicker than ever before. The software provides interactive nesting capabilities as well as 2D IGES, DXF and DWG drawing import capability. Automatic profile verification and repair function. Optimized cutting sequence calculation, algorithms for producing high material utilization and automatic tool path and cut strategy are just some of the powerful utilities built into the software.



Machine Specs

Model	Mazak STX 36	Mazak STX 3015
Laser Generator	1500 Watts (1.5kW)	4000 Watts (4.0kw)
Maximum Work Piece Size X-Y	40" x 83"	60" x 120"
Positional Accuracy X-Y	+/- .0004" per 19.7"	+/- .0004" per 19.7"
Positional Accuracy Z	+/- .0004" per 19.7"	+/- .0004" per 19.7"
Repeatability X-Y-Z	+/- .0002" per 3.94"	+/- .0002" per 3.94"
Material Processing Range		
Mild Steel (O2 Assist Gas)	.375" Thick	1.00" Thick
Mild Steel (N2 Assist Gas)	.1875" Thick	.250" Thick
Stainless Steel (N2 Assist Gas)	.250" Thick	.500" Thick
Aluminum (N2 Assist Gas)	.1875" Thick	.375" Thick

Laser Cutting Capabilities

Intended Cutting Materials (Metal)	Aluminum	Invar
	Ferrous Metals	Nickel Alloys

	Galvanized Steel	Non-Ferrous Metals
	Galvannealed Steel	Stainless Steel
	Hight Strength Steel	Steel
	Inconel	Thin Metals
Intended Cutting Material (Non-Metal)	Acrylic	Plastic
	Ceramic	Rubber
	Paper	Wood
Industries Served	Aerospace	Medical
	Automotive	Military
	Biomedical	Particle Physics
	Computers	Oil & Gas
	Consumer	Semiconductor
	Cryogenics	Telecommunications
File Formats Accepted	AutoCAD (DWG, DXF)	PDF
	IGES	SolidWorks (PRT, SLDPRT, ASM)
	Inventor (IPT, IAM, IPN)	STEP



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