

# CO<sub>2</sub> Laser parameters for: LS100, LS100Ex (40 W)



This document provides a base of engraving parameters to be used on Gravotech laserable materials. They are indicative values that can be subject to modification, that are recommended by professional engravers and have been tested and verified for the LS100Ex & LS100 40 W.

Plastics Laser					Refocus			Dpi	Thickness	Comments
	Power	Speed	Passes	Focus		Air	Type			
Gravoply™ Laser	10%	100%	1	-	Before	no	Vector	500	-	
	40%	100%	1	-	Before	no	Raster	500	-	
	80%	30%	1	-	Before	yes	Cutting	500	0.8mm (.030")	
	100%	28%	1	-	Before	yes	Cutting	500	1.3mm (.050")	
Gravoply™ Ultra	10%	100%	1	-	Before	no	Vector	500	-	
	40%	100%	1	-	Before	no	Raster	500	-	
	70%	40%	1	-	Before	yes	Cutting	500	0.5mm (.020")	
	100%	25%	1	-	Before	yes	Cutting	500	1.6mm (1/16")	
	100%	10%	1	-	Before	yes	Cutting	500	2.4mm (3/32")	
Gravoply™ 2	10%	100%	1	-	Before	no	Vector	500	-	
	50%	100%	1	-	Before	no	Raster	500	-	
Gravoglas™ 1	80%	40%	1	-	Before	no	Vector	500	-	Subsurface engraving
	80%	40%	1	3.0mm (1/8")	Before	no	Raster	500	-	Subsurface engraving
	100%	18%	1	-	Before	yes	Cutting	500	1.5mm (1/16")	Keep the plastic film on
	100%	10%	1	-	Before	yes	Cutting	500	3.0mm (1/8")	Keep the plastic film on
	100%	5%	1	-	Before	yes	Cutting	500	5.0mm (.20")	Keep the plastic film on
Acrylic	30%	100%	1	-	Before	no	Vector	500	-	
	60%	100%	1	-	Before	no	Raster	500	-	
	100%	8%	1	-	Before	yes	Cutting	500	3.0mm (1/8")	
	100%	5%	1	-	Before	yes	Cutting	500	5.0mm (.20")	
	100%	1%	1	-	Before	yes	Cutting	500	10mm (.40")	
Gravotac™ Exterior	50%	20%	1	-	Before	yes	Cutting	500	0.8mm (.030")	
	100%	25%	1	-	Before	yes	Cutting	500	1.6mm (1/16")	
Flexilase™	10%	100%	1	-	Before	no	Vector	500	-	
	30%	100%	1	-	Before	no	Raster	500	-	Gravogrip advised
	100%	5%	1	-	Before	yes	Cutting	500	0.25mm (.01")	
Sticklase™	10%	100%	1	-	Before	no	Vector	500	-	
	40%	100%	1	-	Before	no	Raster	500	-	Gravogrip advised
	20%	30%	1	-	Before	yes	Cutting	500	0.09mm (.004")	
Gravostrat™	50%	60%	1	-	Before	no	Vector	500	-	
	100%	60%	1	-	Before	no	Raster	500	-	
Rubbalase™	100%	20%	1	-1.5mm (-1/16")	Before	no	Vector	500	-	
	100%	20%	1	-1.5mm (-1/16")	Before	yes	Raster	500	-	
	100%	5%	1	-	Before	yes	Cutting	500	2.2mm (.087")	