APPENDIX B: MATERIAL SETTINGS

Epilog Mini / Helix Suggested Material Settings

Epilog Mini /						
laterial	DPI/Freq.	30 watt	40 watt	50 watt	60 watt	80 watt
crylic						
Photo Engraving	300 DPI	90s 60p	90s 55p	90s 50p	90s 45p	90s 40p
Text/Clipart Engraving	300 DPI	90s 80p	90s 75p	90s 70p	90s 65p	90s 60p
Text/Clipart Engraving	600 DPI	90s 75p	90s 70p	90s 65p	90s 60p	90s 55p
Cutting 1/8" (3 mm)	5000 f	9s 100p	12s 100p	15s 100p	20s 100p	25s 100p
Cutting 1/4" (6 mm)	5000 f	5s 100p	6s 100p	8s 100p	12s 100p	15s 100p
Cutting 3/8" (9.5 mm)	5000 f	-	-	3s 100p	4s 100p	5s 100p
Cutting Note: Adjusting the s thicker. Two passes may pro (creates a frosted look when	duce better resul	ts and allow for cutting	through thicker mate	ials. There are two ty		
lumamark	200 DDI	000 55-	000 45-	000 25-	000.05=	000 000
Engraving	300 DPI	90s 55p	90s 45p	90s 35p	90s 25p	90s 20p
Engraving	600 DPI	90s 45p	90s 35p	90s 25p	90s 15p	90s 10p
nodized Aluminum	1	T	T	T	T., .,	1
Photos/Clipart	300 DPI	90s 55p	90s 50p	90s 45p	90s 40p	90s 35p
Photos/Clipart	600 DPI	90s 50p	90s 45p	90s 40p	90s 35p	90s 30p
Text	600 DPI	90s 60p	90s 55p	90s 50p	90s 45p	90s 40p
We find when engraving ano	dized aluminum,	text appears best at 60	00 DPI, but photos and	clipart can be engra	ved with great detail d	own to 300 DPI.
ork	1	1			ı	
Engraving	300 DPI	90s 50p	90s 45p	90s 40p	90s 35p	90s 30p
Cutting	500 f	25s 50p	25s 45p	25s 40p	25s 35p	25s 30p
otton						
Engraving	300 DPI	90s 30p	90s 25p	90s 20p	90s 15p	90s 10p
enim						
Engraving	300 DPI	90s 35p	90s 30p	90s 25p	90s 20p	90s 15p
leece						
Engraving	150 DPI	90s 35p	90s 30p	90s 25p	90s 20p	90s 15p
Cutting	2500 f	25s 25p	25s 20p	25s 15p	25s 10p	25s 5p
When engraving fabric, try c have adjusted settings - find				pattern for the best r	esults. Every fabric yo	u are cutting will need
ilass				,		
Engraving	300 DPI	15s 100p	20s 100p	25s 100p	30s 100p	35s 100p
When etching glass, try char glass with a thin sheet of dis		to 80% gray before er	graving and using the	Jarvis dithering patt	ern. You can also diffu	se heat by covering th
eather						
Photo Engraving	300 DPI	90s 40p	90s 35p	90s 30p	90s 25p	90s 20p
Text/Clipart Engraving	600 DPI	90s 50p	90s 45p	90s 40p	90s 35p	90s 30p
Cutting 1/8" (3 mm)	500 f	30s 80p	30s 75p	30s 70p	30s 65p	30s 60p

Epilog Mini / Helix Suggested Material Settings

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Material	DPI/Freq.	30 watt	40 watt	50 watt	60 watt	80 watt
Nat Board						
Engraving	400 DPI	70s 100p	70s 90p	70s 80p	70s 70p	70s 60p
Cutting	500 f	20s 50p	20s 45p	20s 40p	20s 35p	20s 30p
Bottom-up engraving is su	ggested for mat bo	ard etching.				
Marble		_		_		
Photo Engraving	300 DPI	90s 55p	90s 50p	90s 45p	90s 40p	90s 35p
Text Engraving	600 DPI	90s 65p	90s 60p	90s 55p	90s 50p	90s 45p
Every marble is very differe	ent for settings. Sta	art low and increase t	the power with a secor	nd run if you haven't us	sed that marble before.	
Painted Brass						
Engraving	300 DPI	90s 45p	90s 40p	90s 35p	90s 30p	90s 25p
Engraving	600 DPI	90s 40p	90s 35p	90s 30p	90s 25p	90s 20p
Plastics						
Engraving	300 DPI	90s 40p	90s 35p	90s 30p	90s 25p	90s 20p
These settings work well w	ith many plastics,	including plastic pho	nes and covers. Even	one color plastics can	achieve a great look wl	hen engraved.
Plastic (2 Layer Engraveab	le)					
Engraving	300 DPI	90s 80p	90s 75p	90s 70p	90s 65p	90s 60p
Engraving	600 DPI	90s 70p	90s 65p	90s 60p	90s 55p	90s 50p
Cutting 1/8" (3 mm)	5000 f	15s 100p	20s 100p	30s 100p	30s 85p	30s 70p
Rubber Stamps						
Engraving	400 DPI	6s 100p	10s 100p	20s 100p	30s 100p	50s 100p
	600 DPI	16s 100p	20s 100p	30s 100p	40s 100p	60s 100p
Engraving	100 (10s 100p	15s 100p	20s 100p	25s 100p	40s 100p
Engraving Cutting	100 f	<u>'</u>				
Cutting		20s 100p	25s 100p	30s 100p	35s 100p	45s 100p
Cutting Stainless Steel w/Cermark			25s 100p	30s 100p	35s 100p	45s 100p
Cutting Stainless Steel w/Cermark Engraving			25s 100p 50s 45p	30s 100p	35s 100p 50s 35p	45s 100p 50s 25p
Cutting Stainless Steel w/Cermark Engraving Twill Cutting	600 DPI	20s 100p	,	,	· ·	· ·
Cutting Stainless Steel w/Cermark Engraving Twill Cutting	600 DPI	20s 100p	,	,	· ·	· ·
Cutting Stainless Steel w/Cermark Engraving Twill Cutting	600 DPI 2500 f	20s 100p 50s 50p	50s 45p	50s 40p	50s 35p	50s 25p
Cutting Stainless Steel w/Cermark Engraving Twill Cutting Wood Photo Engraving	600 DPI 2500 f 600 DPI	20s 100p 50s 50p 40s 100p	50s 45p 45s 100p	50s 40p	50s 35p 55s 100p	50s 25p 60s 100p
Cutting Stainless Steel w/Cermark Engraving Twill Cutting Wood Photo Engraving Clipart/Text Engraving	600 DPI 2500 f 600 DPI 600 DPI	20s 100p 50s 50p 40s 100p 30s 100p	50s 45p 45s 100p 35s 100p	50s 40p 50s 100p 40s 100p	50s 35p 55s 100p 45s 100p	50s 25p 60s 100p 50s 100p
Cutting Stainless Steel w/Cermark Engraving Twill Cutting Wood Photo Engraving Clipart/Text Engraving	600 DPI 2500 f 600 DPI 600 DPI 300 DPI	20s 100p 50s 50p 40s 100p 30s 100p 25s 100p	50s 45p 45s 100p 35s 100p 30s 100p	50s 40p 50s 100p 40s 100p 35s 100p	50s 35p 55s 100p 45s 100p 40s 100p	50s 25p 60s 100p 50s 100p 45s 100p
Cutting Stainless Steel w/Cermark Engraving Twill Cutting Wood Photo Engraving Clipart/Text Engraving Clipart/Text Engraving	600 DPI 2500 f 600 DPI 600 DPI 300 DPI 600 DPI	20s 100p 50s 50p 40s 100p 30s 100p 25s 100p 10s 100p	50s 45p 45s 100p 35s 100p 30s 100p 15s 100p	50s 40p 50s 100p 40s 100p 35s 100p 20s 100p	50s 35p 55s 100p 45s 100p 40s 100p 25s 100p	50s 25p 60s 100p 50s 100p 45s 100p 30s 100p
Cutting Stainless Steel w/Cermark Engraving Twill Cutting Wood Photo Engraving Clipart/Text Engraving Clipart/Text Engraving Deep Engraving Thin Veneer	600 DPI 2500 f 600 DPI 600 DPI 300 DPI 600 DPI 500 f	20s 100p 50s 50p 40s 100p 30s 100p 25s 100p 10s 100p 30s 22p	50s 45p 45s 100p 35s 100p 30s 100p 15s 100p 30s 18p	50s 40p 50s 100p 40s 100p 35s 100p 20s 100p 30s 14p	50s 35p 55s 100p 45s 100p 40s 100p 25s 100p 30s 12p	50s 25p 60s 100p 50s 100p 45s 100p 30s 100p 30s 9p