Material Parameters–Recommended Settings

Nova Laser Cutter | DC Glass 60W

Purpose & Scope:

This document provides recommended material parameters for the Nova DC Glass 60W laser cutter. The parameters are intended as typical starting points for standard engraving and cutting applications.

Material	Thickness（mm）	Processing	Speed（mm/s）	Min Power（%）	Max Power (%)	Air pressure value	DPI	Focus Lens
Birch Ply	/	Engraving	1200	25	25	0.1	300	/
Birch Ply	3mm	Cutting	50	10	90	7.2	/	2
Birch Ply	6mm	Cutting	15	10	90	8	/	2
Birch Ply	10mm	Cutting	10	10	90	8	/	2
Birch Ply	15mm	Cutting	2	10	90	10	/	4
Birch Ply	18mm	Cutting	2	10	90	15	/	4
Cherry Wood	/	Engraving	1200	30	30	0.1	300	/
Cherry Wood	3mm	Cutting	75	10	90	8	/	2
Cherry Wood	8mm	Cutting	10	10	90	8	/	2
Cherry Wood	11mm	Cutting	10	10	90	8	/	4
Cherry Wood	15mm	Cutting	8	10	90	10	/	4
Cherry Wood	20mm	Cutting	4	10	90	15	/	4
MDF	/	Engraving	1200	20	20	0.1	300	/
MDF	3mm	Cutting	35	10	90	5	/	2
MDF	10mm	Cutting	10	10	90	10	/	2
MDF	15mm	Cutting	5	10	90	15	/	4
MDF	20mm	Cutting	x	10	90	x	/	4
Acrylic	/	Engraving	1200	30	30	0.1	300	/
Acrylic	3mm	Cutting	50	10	90	8	/	2
Acrylic	6mm	Cutting	25	10	90	8	/	2
Acrylic	10mm	Cutting	5	10	90	8	/	2
Acrylic	15mm	Cutting	3	10	90	10	/	4
Acrylic	20mm	Cutting	2	10	90	15	/	4

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Material	Thickness（mm）	Processing	Speed（mm/s）	Min Power（%）	Max Power (%)	Air pressure value	DPI	Focus Lens
EVA Foam	/	Engraving	1200	15	15	0.1	300	/
EVA Foam	10mm	Cutting	60	10	90	8.4	/	2
EVA Foam	20mm	Cutting	30	10	90	8.2	/	4
EVA Foam	30mm	Cutting	10	10	90	9	/	4
Cork	/	Engraving	1200	20	20	0.1	300	/
Cork	3mm	Cutting	210	10	90	9	/	2
Bamboo	/	Engraving	1200	40	40	0.1	300	/
Bamboo	3mm	Cutting	20	10	90	7.5	/	2
Cotton Fabric	/	Engraving	1200	20	20	0.1	300	/
Cotton Fabric	1mm	Cutting	300	10	90	8.3	/	2
Cotton Fabric	3mm	Cutting	300	10	90	9	/	2
Cardboard	/	Engraving	1200	20	20	0.1	300	/
Cardboard	3mm	Cutting	40	10	90	7.2	/	2
Cardboard	5mm	Cutting	30	10	90	8	/	2
Leather	/	Engraving	1200	25	25	0.1	300	/
Leather	1.5mm	Cutting	90	10	90	5.7	/	2
Leather	3mm	Cutting	40	10	90	8.2	/	2
Denim	/	Engraving	1200	15	15	0.1	300	/
Denim	1mm	Cutting	300	10	90	8.2	/	2
Rubber	/	Stamp Engraving	1200	90	90	7.5	400	/
Rubber	2.3mm	Cutting	35	10	90	7.2	/	2
Delrin	/	Engraving	1200	90	90	0.1	300	/
Delrin	1mm	Cutting	140	10	90	8	/	2
Delrin	3mm	Cutting	20	10	90	8	/	2
Delrin	5mm	Cutting	10	10	90	8	/	2
Fiberglass	/	Engraving	1200	x	x	x	300	/
Fiberglass	1mm	Cutting	2	10	90	7.6	/	2

Material	Thickness（mm）	Processing	Speed（mm/s）	Min Power（%）	Max Power (%)	Air pressure value	DPI	Focus Lens
Melamine	/	Engraving	1200	65	65	0.1	300	/
Melamine	1mm	Cutting	35	10	90	8	/	2
Mother of Pearl	/	Engraving	1200	90	90	0.1	300	/
Mother of Pearl	3mm	Cutting	100	10	90	8	/	2
Paper	/	Engraving	1200	20	20	0.1	300	/
Paper	0.6mm	Cutting	300	10	90	7.4	/	2
Mylar	/	Engraving	1200	40	40	0.1	300	/
Mylar	1.5mm	Cutting	70	10	90	8.2	/	2
Anodized Aluminum	/	Engraving	1200	60	60	0.1	300	/
Coated Metals	/	Engraving	1200	60	60	0.1	300	/
Ceramic	/	Engraving	1200	70	70	0.1	300	/
Glass	/	Engraving	1200	80	80	0.1	300	/
Marble	/	Engraving	1200	80	80	0.1	300	/
Tile	/	Engraving	1200	60	60	0.1	300	/

Disclaimer:

These parameters are provided as recommended values only. Actual results may vary due to material differences, environment, and machine condition. Always perform a small test before production.

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