

Material Parameters–Recommended Settings

Nova Plus Laser Cutter | RF 60W

Purpose & Scope:

This document provides recommended material parameters for the Nova Plus RF 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	40	40	0.5	300	2.5
Birch Ply	3mm	Cutting	30	10	90	5	/	2.5
Birch Ply	5mm	Cutting	15	10	90	5	/	2.5
Birch Ply	10mm	Cutting	10	10	90	5	/	2.5
Birch Ply	15mm	Cutting	2	10	90	5	/	4
Birch Ply	18mm	Cutting	x	x	x	x	/	4
Cherry Wood	/	Engraving	1200	40	40	0.5	300	2.5
Cherry Wood	3mm	Cutting	55	10	90	5	/	2.5
Cherry Wood	5mm	Cutting	30	10	90	5	/	2.5
Cherry Wood	10mm	Cutting	10	10	90	5	/	2.5
Cherry Wood	15mm	Cutting	7	10	90	5	/	4
Cherry Wood	20mm	Cutting	3	10	90	5	/	4
MDF	/	Engraving	1200	45	45	0.5	300	2.5
MDF	3mm	Cutting	45	10	90	5	/	2.5
MDF	5mm	Cutting	15	10	90	5	/	2.5
MDF	10mm	Cutting	10	10	90	5	/	2.5
MDF	15mm	Cutting	3	10	90	5	/	4
MDF	18mm	Cutting	x	x	x	x	/	4
Acrylic	/	Engraving	1200	40	40	0.5	300	2.5
Acrylic	3mm	Cutting	35	10	90	5	/	2.5
Acrylic	5mm	Cutting	15	10	90	5	/	2.5
Acrylic	10mm	Cutting	5	10	90	5	/	2.5
Acrylic	15mm	Cutting	3	10	90	5	/	4

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Material	Thickness (mm)	Processing	Speed (mm/s)	Min Power (%)	Max Power (%)	Air pressure value	DPI	Focus Lens
Acrylic	20mm	Cutting	2	10	90	5	/	4
EVA Foam	/	Engraving	1200	30	30	0.5	300	2.5
EVA Foam	10mm	Cutting	25	10	90	5	/	2.5
EVA Foam	20mm	Cutting	15	10	90	5	/	4
EVA Foam	30mm	Cutting	10	10	90	5	/	4
Cork	/	Engraving	1200	40	40	0.5	300	2.5
Cork	3mm	Cutting	100	10	90	5	/	2.5
Bamboo	/	Engraving	1200	50	50	0.5	300	2.5
Bamboo	5mm	Cutting	30	10	90	5	/	2.5
Cotton Fabric	/	Engraving	1200	30	30	0.5	300	2.5
Cotton Fabric	1mm	Cutting	100	10	90	5	/	2.5
Cotton Fabric	2mm	Cutting	100	10	90	5	/	2.5
Cardboard	/	Engraving	1200	50	50	0.5	300	2.5
Cardboard	2mm	Cutting	100	10	90	5	/	2.5
Cardboard	4mm	Cutting	40	10	90	5	/	2.5
Leather	/	Engraving	1200	35	35	0.5	300	2.5
Leather	1.5mm	Cutting	80	10	90	5	/	2.5
Leather	4mm	Cutting	20	10	90	5	/	2.5
Denim	/	Stamp Engraving	1200	30	30	0.5	300	2.5
Denim	1mm	Cutting	100	10	90	5	/	2.5
Rubber	/	Stamp Engraving	1200	30	30	5	400	2.5
Rubber	2.3mm	Cutting	30	10	90	5	/	2.5
Delrin	/	Engraving	1200	30	30	0.5	300	2.5
Delrin	1mm	Cutting	85	10	90	5	/	2.5
Delrin	3mm	Cutting	25	10	90	5	/	2.5
Delrin	5mm	Cutting	10	10	90	5	/	2.5

Material	Thickness (mm)	Processing	Speed (mm/s)	Min Power (%)	Max Power (%)	Air pressure value	DPI	Focus Lens
Melamine	/	Engraving	1200	40	40	0.5	300	2.5
Melamine	3mm	Cutting	25	10	90	5	/	2.5
Mother of Pearl	/	Engraving	1200	40	40	0.5	300	2.5
Mother of Pearl	5mm	Cutting	40	10	90	5	/	2.5
Paper	/	Engraving	1200	30	30	0.5	300	2.5
Paper	0.3mm	Cutting	100	10	90	5	/	2.5
Mylar	/	Engraving	1200	40	40	0.5	300	2.5
Mylar	1.5mm	Cutting	70	10	90	5	/	2.5
Anodized Aluminum	/	Engraving	1200	20	20	0.5	300	2.5
Coated Metals	/	Engraving	1200	30	30	0.5	300	2.5
Ceramic	/	Engraving	1200	40	40	0.5	300	2.5
Glass	/	Engraving	1200	80	80	0.5	300	2.5
Marble	/	Engraving	1200	30	30	0.5	300	2.5
Tile	/	Engraving	1200	40	40	0.5	300	2.5

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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