

Material Parameters–Recommended Settings

Aurora UV Marking Machine | UV 5W

Purpose & Scope:

This document provides recommended material parameters for the Aurora UV 5W marking machine. The parameters are intended as typical starting points for standard marking applications.

Material	Processing	Speed (mm/s)	Power (%)	Pulse Width (ns)	Frequency (kHz)	LPI (DPI)	Processing Times
304 Stainless Steel	Blacken	200	/	15	50	12700	1
305 Stainless Steel	Whiten	2000	/	1	150	1270	1
Carbon Steel	Blacken	100	/	1	130	1270	1
Carbon Steel	Whiten	2000	/	3	140	1270	2
Brass	Blacken	700	/	1	120	2540	1
Brass	Whiten	1800	/	1	120	1270	1
Brass	Whiten	1500	/	1	150	1270	1
ABS	Blacken	3000	/	1	70	1270	1
Mirror stainless steel	Blacken	200	/	15	50	12700	1
Mirror stainless steel	Whiten	1200	/	1	120	12700	2
Galvanized iron sheet	Blacken	200	/	15	50	24500	1
Galvanized iron sheet	Whiten	1200	/	1	120	1270	1
Slate	Whiten	200	/	1	150	1270	1
Magnesium Plate	Whiten	2000	/	1	150	1270	1
Magnesium Plate	Blacken	100	/	1	90	5080	1

Material	Processing	Speed (mm/s)	Power (%)	Pulse Width (ns)	Frequency (kHz)	LPI (DPI)	Processing Times
Nickel Plate	Whiten	500	/	17	40	1270	1
Nickel Plate	Blacken	100	/	1	150	1270	1
Titanium Plate	Whiten	500	/	13	55	1270	1
Titanium Plate	Blacken	100	/	5	95	1270	1
Acrylic (Black)	Whiten	1000	/	1	34	1270	1
Acrylic (Black)	Whiten	1000	/	1	120	1270	2
Acrylic (Black)	Whiten	1500	/	1	150	1270	1
PU Leather	Blacken	2000	/	5	150	1270	1
PET	Blacken	2000	/	10	70	1270	1
PBT	Blacken	2000	/	10	80	1270	1
Glass	Whiten	200	/	1	50	1270	1
Graphite	Blacken	100	/	50	30	1270	1
Translucent Board	Whiten	100	/	22	20	1270	1
PA66	Blacken	300	/	50	30	1270	1
PE	Blacken	400	/	50	30	1270	1
PP	Blacken	100	/	50	36.7	1270	1

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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