Serial Number	Material	Effect	Power	Speed (mm/s)	Frequency(KHZ)	Line Distance	Loop	Focus	Remark
1	Metal	Product identification without depth	40%	1000	20	Line distance 0.05mm	1	Focus	
2	Metal	Engraving with depth	70%	800	20	Line distance 0.05mm	Repeatable	Focus	The higher the loops of laser engraving, the deeper the engraving depth
3	Brass	Product identification without depth	40%	1000	20	Line distance 0.05mm	1	Focus	Highly reflective materials, the marking content needs to deviate from the center of the work area
4	Brass Watch	White marking	60%	1500	50	Line distance 0.05mm	3	Focus	Highly reflective materials, Multiple passes required
5	Stainless steel with mirror surface	Black marking	60%	200	40	Line distance 0.05mm	2	Retrofocus	
6	Stainless steel	Black marking	80%	400	40	Line distance 0.05mm	2	Retrofocus	
7	Stainless steel	White marking	50%	2000	60	Line distance 0.05mm	1	Retrofocus	
8	Electroplated metal	Product identification without depth	30%	1200	40	Line distance 0.05mm	1	Focus	
9	Anodized aluminum	Text, white	40%	1200	40	Line distance 0.05mm	2	Focus	
10	Anodized aluminum	Vector, Black	80%	100	20	Line distance 0.05mm	1	Focus	
11	Painted surface	Text	50%	1200	40	Line distance 0.05mm	2	Focus	Adjust the laser power according to the paint thickness
12	ABS	Text, gray	20%	1200	25	Line distance 0.05mm	2	Focus	
13	PU leather	Text, pattern, light gray	7%	1200	20	Line distance 0.05mm	1	Focus	Dark PU leather has the best effect, light color is recommended for single-line marking
14	Cutlery Set	Text	40%	1200	40	Line distance 0.05mm	2	Focus	
15	Card holder	Text	40%	1200	40	Line distance 0.05mm	2	Focus	
16	Stainless steel flagon	Pattern	50%	1200	40	Line distance 0.05mm	2	Focus	
17	Business card base	Text	40%	1200	40	Line distance 0.05mm	2	Focus	
18	Cola	Text/pattern	30%	1200	40	Line distance 0.05mm	1	Focus	
19	Small accessories	Text/pattern	30%	1200	40	Line distance 0.05mm	1	Focus	
20	Phone case	Text/pattern	10%	1200	40	Line distance 0.05mm	2	Focus	
21	Power bank	Text/pattern	10%	1200	40	Line distance 0.05mm	2	Focus	
22	Commemorative coin	Bitcoin pattern	80%	500	20	Line distance 0.05mm	3	Focus	500*80 for the first loop; then 1000*30 for the second loop
23	Bronze coin	Text/pattern	60%	1500	50	Line distance 0.05mm	Multiple	Focus	
24	Bronze coin	Text/pattern	80%	800	30	Line distance 0.05mm	Multiple	Focus	
25	Keychain	Cola pattern	50%	1000	20	Line distance 0.05mm	1	Focus	
26	Photo printing on metal card	Photo	40%	1200	20	Line distance 0.05mm	1+1	Focus	Bitmap, Invert. 800*20 for 2nd loop for polishing
27	Photo printing on flask	Photo	40%	1500	20	Line distance 0.05mm	1+2	Focus	Bitmap, Invert. 800*20 for 2nd loop for polishing
28	Coated flask	Text/pattern	60%	1500	50	Line distance 0.05mm	1	Focus	
29	Plastic Animal Ear Tag	Black marking	20%	1000	50	Line distance 0.05mm	1	Focus	Light power recommended because of lower melting point of plastics
30	Slate	Pattern	80%	1000	20	Line distance 0.05mm	1	Focus	
31	Anodized aluminum	Black marking	90%	50	30	Line distance 0.05mm	1	Focus	
32	Rubber	Text/pattern	10%	1500	20	Line distance 0.05mm	1	Focus	
33	Slate	Text/pattern	80%	800	20	Line distance 0.05mm	Multiple	Focus	
34	Animal Ear Tag (TPU)	Text/pattern	15%	1500	20	Line distance 0.05mm	1	Focus	
35	Leather	Text/pattern	10%	1200	20	Line distance 0.05mm	1	Focus	
36	Coated wood	Text/pattern	30%	1200	20	Line distance 0.05mm	1	Focus	
37	Glasses Case	Text/pattern	5%	1200	20	Line distance 0.05mm	1	Focus	
38	Glasses Case	Text/pattern	15%	1400	20	Line distance 0.05mm	1	Retrofocus	
39	Stainless Steel	Black marking	50%	200	30	Line distance 0.005mm	1	Retrofocus	
40	Stainless Steel	White marking	50%	2000	60	Line distance 0.05mm	1	Retrofocus	
41	Wood	Black marking	80%	200	20	Line distance 0.05mm	1	Focus	
42	Cardboard	Black marking	50%	500	20	Line distance 0.05mm	1	Focus	
43	Stainless Steel Dog Tag	Black marking	80%	200	40	Line distance 0.05mm	2	Retrofocus	
44	Titanium steel	White marking	20%	1200	40	Line distance 0.05mm	1	Retrofocus	
45	Titanium steel	Black marking	80%	1200	40	Line distance 0.05mm	1	Retrofocus	
46	Leather with cloth cover	Black marking	50%	1500	40	Line distance 0.05mm	1	Focus	
47	Gold	Marking/Engraving	60%	800	20	Line distance 0.05mm	1	Focus	
48	Brass	White marking	90%	2000	50	Line distance 0.03mm	4	Focus	
49	Brass	Black marking	90%	150	0	Line distance 0.02mm	1	Focus	
50	Anodized aluminum	White marking	90%	2000	50	Line distance 0.03mm	1	Focus	
51	Copper	Black marking	100%	200	45	Line distance 0.001mm	1	Focus	
52	Plastic	Black marking	45%	1000	25	Line distance 0.04mm	1	Focus	
53	ABS	Marking/Engraving	30%	500	30	Line distance 0.03mm	Multiple	Focus	
54	Aluminum	Black marking	95%	300	20	Line distance 0.045mm	1	Focus	
55	Aluminum	White marking	90%	2000	70	Line distance 0.045mm	1	Focus	
56	Silver	Deep Engraving	100%	300	20	Line distance 0.01mm	12	Focus	
57	Brown leather	Marking/Engraving	20%	1000	45	Line distance 0.05mm	1	Focus	
58	Anneal Stainless Steel	Black marking	30%	100	60	Line distance 0.003mm	1	Retrofocus	
59	0.4mm brass	Wobble cutting	100%	50	20		20	Focus	
60	Plastic	Black marking	45%	1000	25	Line distance 0.04mm		Focus	