

Reci 6000w fiber laser cutting data (Multi-mode)

Material type	Thickness (mm)	Gas	Speed (m/min)
Carbon steel	1	O ₂	47
	2	O ₂	36
	3	O ₂	4.5
	4	O ₂	3.8
	6	O ₂	3
	8	O ₂	2.4
	10	O ₂	2.1
	12	O ₂	1.8
	14	O ₂	1
	16	O ₂	0.8
	20	O ₂	0.7
	22	O ₂	0.6
	25	O ₂	0.5
Stainless steel	1	N ₂	46
	2	N ₂	36
	3	N ₂	18
	4	N ₂	14
	5	N ₂	9
	6	N ₂	8
	8	N ₂	4.1
	10	N ₂	1.9
	12	N ₂	1.1
	14	N ₂	0.8
	Aluminium	1	N ₂
2		N ₂	28
3		N ₂	24
4		N ₂	16
5		N ₂	7
6		N ₂	5
8		N ₂	2.8
10		N ₂	1.8
12		N ₂	1.2
14		N ₂	0.8
Brass		1	N ₂
	2	N ₂	32
	3	N ₂	18
	4	N ₂	9
	5	N ₂	7

	6	N ₂	5
	8	N ₂	2
	10	N ₂	1.4
Copper	1	O ₂	42
	2	O ₂	21
	3	O ₂	12
	4	O ₂	7
	5	O ₂	4.5
	6	O ₂	3

Notes:

- 1) The fiber laser output core diameter of the above test is 100um;
- 2) The test uses a cutting head with a collimation focusing ratio of 100:150;
- 3) Differences in field conditions may result in slightly different data.