

Reci 4000w fiber laser cutting data (Multi-mode)

Material type	Thickness (mm)	Gas	Speed (m/min)
Carbon steel	1	O ₂	
	2	O ₂	
	3	O ₂	4.8
	4	O ₂	3.7
	6	O ₂	2.7
	8	O ₂	2.4
	10	O ₂	2
	12	O ₂	1.4
	14	O ₂	1
	16	O ₂	0.9
	20	O ₂	0.7
	22	O ₂	0.6
Stainless steel	1	N ₂	60
	2	N ₂	27
	3	N ₂	14
	4	N ₂	7
	5	N ₂	4.7
	6	N ₂	3.5
	8	N ₂	2.2
	10	N ₂	1.2
Aluminium	1	N ₂	49
	2	N ₂	21
	3	N ₂	12.5
	4/3.7	N ₂	5.6
	5/4.5	N ₂	4
	6	N ₂	3.3
	8	N ₂	1.4
	10	N ₂	1
Brass	1	N ₂	41
	2	N ₂	14
	3	N ₂	7
	4	N ₂	4.5
	5	N ₂	2.6
	6	N ₂	2.8
	8	N ₂	0.9
Copper	1	O ₂	36
	2	O ₂	9.5
	3	O ₂	1

	4	O ₂	3.2
	5	O ₂	2
	6	O ₂	1.2

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.