

			Fiber Flatbed Laser Cutting Parameter List												
Material Name	Thickness (mm)	Assist Gas	Cutting Speed(m/min)										Notes:		
			Single-mode 500W	Single-mode 800W	Single-mode 100W	Single-mode 1200W	Single-mode 1500W	Single-mode 2000W	Multi-mode 2200W	Multi-mode 3000W	Multi-mode 4000W	Multi-mode 6000W			
			3 - 4	3.5 - 4	4 - 5	4.5 - 6	5 - 7								
Carbon Steel Q235	2 O2	0.7 - 0.9	1.1 - 1.3	1.2 - 1.4	1.3 - 1.5	1.5 - 1.8	2.1 - 2.3	2.5 - 2.65	2.5 - 2.8	2.8 - 3.3	2.9 - 3.3				
	6														
	8		0.8 - 1	0.9 - 1.1	1 - 1.2	1.2 - 1.4	1.8 - 1.9	1.8 - 2	2.2 - 2.4	2.4 - 2.6	2.4 - 2.6				
	10		0.6 - 0.8	0.75 - 0.9	0.8 - 1	0.75 - 1	1.2 - 1.35	1.3 - 1.4	1.1 - 1.3	1.4 - 1.8	1.5 - 2				
	12			0.6 - 0.75	0.65 - 0.8	0.65 - 0.8	0.65 - 0.9	0.9 - 1.05	0.9 - 0.95	0.9 - 1	0.95 - 1.1	0.95 - 1.1			
	14				0.5 - 0.7	0.6 - 0.7	0.85 - 0.9	0.8 - 0.85	0.8 - 0.9	0.8 - 0.95	0.8 - 0.95				
	16					0.45 - 0.6	0.75 - 0.8	0.65 - 0.7	0.7 - 0.8	0.7 - 0.85	0.75 - 0.9				
	18						0.7 - 0.75	0.6 - 0.66	0.6 - 0.75	0.65 - 0.7	0.7 - 0.75				
	20						0.6 - 0.65	0.55 - 0.6	0.5 - 0.65	0.6 - 0.65	0.6 - 0.65				
	22						0.53 - 0.6	0.45 - 0.5	0.4 - 0.55	0.5 - 0.55	0.55 - 0.6				
	25						0.4 - 0.55				0.4 - 0.52				
Stainless Steel 304	1 N2	10 - 12	16 - 19	20 - 22	21 - 24										
	2	1.8 - 2.5	3.5 - 4.7	4.5 - 6.5	6 - 7.5	7 - 10	11.5 - 13	11 - 13	18 - 23	23 - 26					
	3	0.7 - 0.9	1.5 - 2	1.8 - 2.5	2.5 - 3	4.5 - 6	5 - 6.5	6.5 - 7.5	7 - 9	8 - 10	16 - 18				
	4		0.45 - 0.6	1 - 1.7	1.5 - 2	1.7 - 2	2 - 3.5	3 - 3.5	4.5 - 6	5 - 7	10 - 12				
	5			0.45 - 0.7	0.7 - 1.1	1 - 1.3	1.8 - 2.2	2 - 2.3	2.5 - 3	3.5 - 4	6.5 - 7.5				
	6				0.5 - 0.7	0.8 - 1	1.5 - 1.8	1.8 - 2	1.5 - 1.9	1.8 - 2.2	3.5 - 4.5				
	8					0.6 - 0.7	0.75 - 0.9	1 - 1.3	1.3 - 2.5						
	10							0.3 - 0.5	0.8 - 1.1						
	12								0.6 - 0.75						
	14									0.6 - 0.75					
Aluminum Sheet 1060 / 6061	1 N2	2.5 - 4	12 - 18	15 - 20	20 - 26										
	2		2 - 3.5	2.5 - 4.5	4.5 - 5.5	6 - 8	12 - 13.5	11 - 12.5	14 - 17	18 - 21					
	3		0.3 - 0.5	0.8 - 1.5	1.6 - 2	2.5 - 4	5 - 6.5	5 - 5.5	6.5 - 8	7 - 8.5					
	4				0.4 - 0.6	0.8 - 1.3	2.5 - 3.2	2.3 - 2.5	3 - 4	4 - 5					
	5					0.2 - 0.35	1.5 - 1.65	1.5 - 1.6	1.6 - 2	2 - 2.7					
	6						1 - 1.5	0.93 - 1	1.3 - 1.6	1.6 - 2					
	8						0.4 - 0.45	0.4 - 0.45	0.65 - 0.8	0.8 - 1					
	10								0.3 - 0.45	0.5 - 0.65					
	12									0.3 - 0.45	1.4 - 1.55				
	14										0.9 - 1.1				
Brass H62	1 N2	2.5 - 3.5	15 - 18	15 - 20	20 - 25										
	2		2.5 - 3.5	2.5 - 4	4 - 5	6 - 8	12 - 13	9 - 10.5	12 - 16	18 - 21					
	3		0.5	0.8 - 1.4	1.5 - 2	2.5 - 3	5.5 - 6	4.5 - 5.5	6 - 7.5	8 - 10					
	4			0.4 - 0.6	0.8 - 1.2	2.6 - 3	2 - 2.5	2.5 - 3.6	4.5 - 6						
	5				0.2 - 0.3	1.5 - 1.65	1.3 - 1.45	1.5 - 1.8		3 - 3.8					
	6					1 - 1.15	0.8 - 0.95	1.2 - 1.6	1.8 - 2						
	8					0.35 - 0.4	0.35 - 0.4	0.65 - 0.8	0.9 - 1.1						
	10							0.3 - 0.45	0.5 - 0.65						
	12								0.35 - 0.4	0.6 - 0.75					
	16									0.4 - 0.45					
Red Copper T2	1 O2	1.5 - 1.8	4 - 6	5 - 8	9 - 11	12 - 14		20							
	2		0.4 - 0.6	0.6 - 0.8	0.8 - 1	2 - 2.6	5 - 6	4.5 - 5.5	6 - 7.5	10 - 12					
	3			0.3 - 0.5	0.4 - 0.6	1.2 - 1.6	1.65 - 1.8	1.82 - 2	3 - 3.8	5 - 6	7 - 8.5				
	4					0.4 - 0.8	0.7 - 0.85	1 - 1.25	1 - 1.2	1.4 - 1.6	1.8 - 2.1				
	5						0.4 - 0.45	0.5 - 0.65	0.65 - 0.8	0.9 - 1.1	1.1 - 1.25				
	6								0.3 - 0.45	0.4 - 0.6	0.8 - 1.1				
	8									0.75 - 0.8					
	10									0.6 - 0.65					
														Cutting red copper can use oxygen or liquid oxygen as an auxiliary gas.	