

**Specification for CO2 laser Machine**

S.No.	Parameters	Technical Specification	Remarks
1	Usage	LASER removal of skin lesions	
2	laser type	Fractional CO <sub>2</sub> laser, Scanner type	
3	Laser mode	Ultra pulse, Super pulse, CW	
4	System Configuration	should have different modes for clinical, surgical and scanner system	
5	Wavelength	should have 10.57 ~ 10.63 μm, invisible infrared	
6	Beam mode quality	TEM <sub>00</sub> , 95% purity	
7	Beam quality	$M^2 < 1.2$	
8	Laser Power output	Up to 30 W	
9	Adjustable spot size	should have 100/300/600 μm tip	
10	Spot size	70um, 49 pixel (10 X 10mm)	
11	Delivery system	7- Joint, fixed mirror articulated arm	
12	Cooling system	Air	
13	Scanner	should have skin analyzing system	
14	Scanning area	minimum X: 3 ~20mm, Y: 3 ~20 mm	
15	Scanning shape	Rectangle, Circle, Diamond, Hexagon, Round rectangle	
16	Scanning direction	Sequence, Converge, Diverge, Smart Random, Spray	
17	Density	should have 0.5 upto 1.9 mm	
18	Pulse Width	minimum 20 ~ 24,000 μs	
19	Energy	minimum 0.2 ~ 240mj (@10 Watt, 1 time)	
20	Repeat delay	Single, 100 ~ 3,000 ms	
21	Overlap	1~ 9 times	
22	Overlap delay	200~40,000μs	
23	Ultra Pulse	Pulse width 100~1,250 μs	
24		Exposure time 10~1,000 ms	
25		Repeat delay 10~1,000ms/Single	
26	Super Pulse	Exposure time 100~9,000 μs	
27		Repeat delay 10 ~ 1,000 ms/Single	
28	Continuous Wave	Power 0.5~10 Watt	
29	Power consumption	Not more then 350VA	
30	Safety glass	Class iv laser	
31	Standards	ISO/CE Certified	
32	Warranty	Comprehensive warranty for 2 year after installation.	
33	Date of Manufacture	Must be less than 2 years on the day of delivery	