

Compact Precision Air Cooling Fiber Laser



Production line Fiber Laser Marking Machine



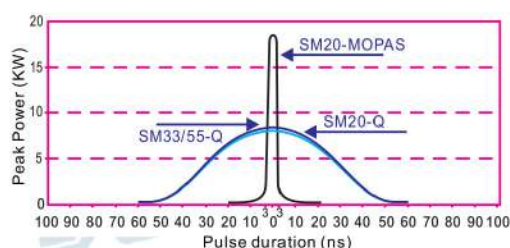
Marco-SM Series
Fiber Laser Head

Marco-SM Series Fiber Laser
Controller Rack

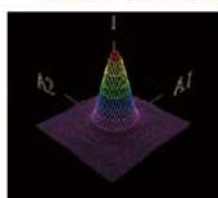


Marco-SM Series Standard
Working Table

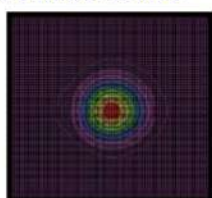
- SoonMark developed new Fiber Source from new technology with key components coming from Japan, Germany and USA to make a compact, small and economic laser marking machine.
- Marco-SM series fiber laser marking machine can mark many different parts with different results. From high power Q series for regular marking to MOPAS high peak power, narrow pulse width series for special material's cold marking are combination of our marking experience of above 20 years.
- We optimize the best fiber source with highly stable power supply, precision galvo scanner technology and Marco 5.1 laser software to make the best laser marking machine in the world.
- Every SoonMark fiber source passes serious quality tests with beam quality, stability and at least 200 hours life simulation test; therefore, the total life with same marking quality can reach at least 30,000 hours to 50,000 hours, some applications even can reach to 100,000 hours and standard warranty is 2 years.
- Marco SM series fiber laser with compact size and module design can easily separate head and controller rack. It also has work condition indicators to show working status of this laser and fiber source status indicators to show the status of the inside fiber source, temperature indicator to protect overheating for long service life and easy maintenance.
- It doesn't need extra PC, just connect keyboard, mouse and standard monitor can start to mark. It has only one single input power and switch, no other extra wiring or cable to make it very tidy and easy operation.



Laser Peak Power for different fiber source



SM20-Q 3D beam quality



SM20-Q beam quality

Real Beam Quality less than 1.4

Simple and module design
laser head with controller
rack integrated Marco 5.1 laser
control software with embedded PC



to make the best marking result. It is easy to integrate to any automation system like above two standard tables. For different marking objects, we have different marking lasers like standard 20W, SM-20-Q, and deep marking 33W, 50W, SM-33-Q/SM-50-Q. For avoiding the damage of the marking surface, we also have high marking resolution high peak power, narrow pulse width marking laser, 20W and 30W of SM-20-MOPAS and SM-30-MOPAS.

Marco "Marco SM series" Fiber Laser Specification

Type/Spec. 型號/規範	SM20-Q	SM33-Q	SM50-Q	SM-20-MOPAS	SM-30-MOPAS
平均輸出功率/Average Power	20W+5%+10%	33W±5%	50W±5%	20W±5%	30W±5%
雷射波長/Wavelength	1064nm±4nm			1064nm±2nm	
光束品質與可調頻率 Beam Quality and Modulation	M ² <1.5 25KHz~80KHz	M ² <1.6 30KHz~80KHz	M ² <1.6 50KHz~80KHz	M ² <1.3 10KHz~2000KHz (depend on pulse setting)	
脈衝寬度/ Pulse Width	110ns(@25khz)	120ns(@30khz)	130ns(@50khz)	2-350ns adjustable	
脈衝最大能量 Pulse Energy/Peak Power	Max.1mj/ 8KW(@25KHz)	Max.1.1mj/ 8.5KW(@30KHz)	Max.1.1mj/ 8.5KW(@50KHz)	Max.0.8mj/18KW(Max)	
光點大小/Beam Size	0.04-0.06mm dia.(Standard F163 focus len, 110X110mm marking area)				
標刻位置指示/Aming Beam	<3mW @635nm with red diode light indicate marking position				
電源/Main Power Supply	Single phase 110-230VAC/50/60Hz				
消耗功率/Power Consumption	<685W				
內建箱入式電腦/Embedded PC	Window10 OS, 64G Memory, Marco 5.1 Operation Software				
工作溫度/Operating Temp	+0℃ 至 +35℃				
冷卻方式/Heat Exchange	Air to Air				
控制箱尺寸.重量 Control Rock Dimension&Weight	L x W x H = 450x452x150 mm Weight:24kg				
雷射槍尺寸.重量 Laser Head Dimension&Weight	L x W x H = 390x120x150 mm Weight:4kg				
聚焦鏡尺寸.光點大小及標刻範圍 Focus Len Size and Marking Area	F100,0.03 mm(STD),70x70 mm, Basic Supply LenF163,0.05 mm(STD),110x110 mm F254,0.07 mm(STD),175x175 mm, F330,0.09 mm(STD),220x220mm				

Application



Mobile phone indicator



Picture on gift marking



Plastic indicator



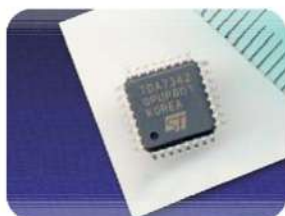
Stainless & alloy steel



CF card & soft PC board



Titanium alloy & aerospace part



Semiconductor & IC chip



Ruler & medical instrument



Ceramic & electrical component