

## Compact Air Cooling Pulse Adjustable



## MOPAS Fiber Laser Cold Marking Machine



Marco-SME-20TM Series  
Fiber Laser Head

Marco-SME-20TM Series  
Fiber Laser Control Rack



Marco-SME-20TM Series  
Standard Working Table

- SoonMark Taiwan Patent on combing laser control card, embedded PC, 10.4" LCD monitor, power pack and Marco 5.1 software to a compact control rack to control special pulse adjustable(MOPAS), high peak power cold marking Fiber Source for easy carry and maintenance.
- Marco-SME-20TM marking laser separates laser head and control rack, no need PC and monitor, just use remote keyboard and mouse to make it work. its small and compact size make it easy for portable and maintenance. Adjustable Pulse (MOPAS) with frequency make high peak power to 50Kw using on cold marking for different material. it is used for flexible marking on metallic and nonmetallic material such steel, copper, aluminum or some plastic and ceramic marking with fast heat dissipation.

- All of the special economic source of SME-20TM Marking Laser should pass aging test to assure a long working life added a special designed gavor scanner with our Marco 5.1 marking software, it is easy operation with many application function to make marking flexible, therefore the marking stability, quality and life better than other marking laser.

## Application



Aerospace Parts



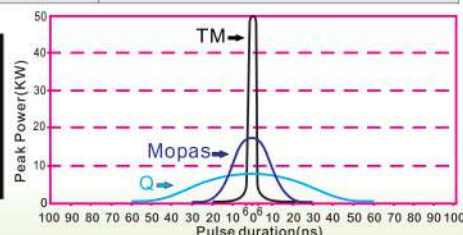
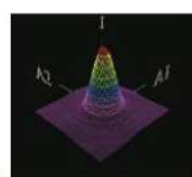
Plastic Parts



QR Code in Aluminum Parts

### Marco-SME-20TM Series Fiber Laser Specification

Type/Specification	SME-20TM
Average Power	20W+/-5%
Wavelength	1064 nm
Beam Quality & Modulation	M2<1.4 / 10KHz-3000KHz
Pulse Width	2-500ns(Adjustable)
Pulse Energy / Peak Power	1.1mj / Max.50Kw(@13ns)
Repeat Accuracy	+/-0.01mm
Beam Size	0.04-0.05mm Dia (STD. F1630Len, 110X110 Marking Area)
Aiming Beam	< 1mW@635nm with red diode light inside source for marking position adjustment
Main Power Supply	Single Phase 110-240VAV / 50 / 60Hz
Power Consumption	<685W
Embedded PC	Windows 10 OS, 64G Memory, Marco 5.1 Operation Software
Operating Temp.	+0°C to +35°C
Cooling Way	Air to Air
Control Rack Dimension & Weight	367mmX242mmX263mm Weight 6Kg
Laser Head Dimension & Weight	456mmX155mmX133mm Weight 4.5Kg
Focus Len Size And Marking Area	F163 110X110 mm (STD) F254 175X175mm F330 220X220mm



Left picture show the perfect beam quality (<1.4) of this laser and the right picture show the adjustable pulse make high peak power (50Kw), therefore, it can use for cold marking of different material in fast heat dissipation to protect the damage of the material and make the high marking quality.