

# PTS System (S) Pte. Ltd

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## CO2 Laser Marking System

Laser tubes from USA are integrated with high speed optical galvanometers and together with lenses and laser marking software provides an economical high quality permanent and contamination free marks. These lasers are widely used in laser marking on non-metallic materials eg. Like acrylic, wood, electronic components, Printed Circuit Boards, ICs and many others.



Model	PTS-SR-10	PTS-SR-25	PTS-SR-50
Laser tube model	SR-10	SR-25	SR-50
Laser wavelength (um)		10.6	
Laser power (W)	10	25	50
Power stability (%)	±10		±5
Laser beam quality (M <sup>2</sup> )		<1.2	
Beam mode		TEM <sub>00</sub>	
Beam diameter (mm)		3.5	
Beam divergence (mrad)		4	
Polarisation		Linear	
Max. beam pulse (kHz)		10	
Cooling method	Air	Air	Water
Dimension (mm)	427×71×104	809×71×104	889x135x114
<b>Laser Marking Head</b>			
Scanner	High-speed optical galvanometers		
Marking field (mmxmm)	50x50, 70x70, 105x105, 140x140, 210x210, 255x255 (marking field up to 600x600mm or above available with a XY stage)		
Marking speed	300 characters/second or 10m/s		
Marking line (mm)	Min. 0.05		
Dimension (mm)	210×138×120		
<b>Marking software</b>			
Various fonts, pictures (PLT, DXF, BMP), automated series numbers, barcodes, DataMatrix			

**Higher power of CO2 laser are also available.**

### Typical Applications:

1. Laser marking of non-metal materials and products: acrylic, ceramics, plastics, organics, wood, thermo-elastomer rubbers, paper
2. Electronic industry: capacitor, inductor, PCB, IC, connector, control panel, instrument
3. Others: button, cosmetics, food package, bottle, gift, advertisement & signcrafts, craft & gift making  
Synrad, Universal, Coherent, Rofin Sinar, Lumonics, Spectron are available on request.

We integrate Laser Marking Systems together with Handlers to meet your process requirements.