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CAPRIS 50-100

Mark-Measure-Cut: Entry level bench top UV laser wire marking system

Summary specification

- Laser marker**
 - Ultraviolet (UV) 355 nm solid state Nd:YAG laser
 - Precision character mask - unlimited life
 - Class 1 laser product for use on open shop floor
 - CE, BS/EN marked & FDA approved
 - Complies fully with SAE AS5649, EN 3475 Part 706 and pr EN4650
- Print specification**
 - 30 characters (max) per mark as standard
 - Full alpha-numeric character set A-Z (upper case), 0-9 plus extra characters ■ / - * () < > plus a blank space (45 in total)
 - Three print sizes as standard:
 - Small vertical: 1.00 x 0.75mm (0.039 x 0.030")
 - Med. horiz: 1.10 x 0.82mm (0.043 x 0.032")
 - Large horiz: 1.33 x 1.00mm (0.052 x 0.039")
 - Mark spacing from 25mm to 400mm (1 to 15")
 - Inter character spacing ranges from 3mm to 5mm (0.12 to 0.20 inc)
 - Ergonomic 'Spectrum Univers' font
 - Complies fully with SAE ARP 5607
- Wire processing spec.**
 - Maximum speed: up to 8m / min (26 ft/min) (Subject to the number of characters and mark spacing)
 - Wire size range: 26 AWG - 6 AWG (0.75 mm to 6.35 mm OD), single core wire or multi core cable
 - Min / max cable length: 150 mm (6") / 250m (10,000") - nominal
 - Accuracy of processed wire and cable length: -0% / +0.25% (typical) +0.5% (maximum)
- Wire types**
 - Tape wrapped wires:
 - Polyimide / Kapton wires: dispersion coated Teflon (PTFE), ETFE and FEP, e.g. Airbus CF
 - Teflon tape wrapped (TKT/TK) e.g. BMS 13-60, M22759/80 to 92, Airbus DK, DR, AD
 - Extruded wires: Teflon (PTFE), Tefzel (ETFE, XLETFE) e.g. BMS 13-48, M22759/32 etc., or FEP

*Kapton, Teflon and Tefzel are Registered Trademarks of DuPont

- Wire handling**
 - Unpowered dereeler and powered coiling pan for wire feeding / collection included
 - Electric cutter up to 5.5 mm OD (larger wires must be cut with external cutter)
- Control**
 - Simple microprocessor controlled system with membrane keypad for data entry
 - Manual entry of wire 'ident', mark spacing and wire length
 - Connection for optional external PC via RS232 interface
- Site requirements**
 - 220-240 V, 50 Hz or 110-120 V, 60 Hz (Single phase) or other voltages as specified
 - All electric-powered, no need for compressed air services
- Operating conditions**
 - Ambient temperature 15°C to 30°C (60°F to 86°F)
 - Relative humidity 20% to 80% (non condensing)
- Dimensions**
 - Laser marking module: 1070 x 830 x 370 mm (42.13 x 32.68 x 14.57 inch)
 - Single un-powered dereeler: 400 x 540 x 250 mm (15.75 x 21.26 x 9.85 inch)
 - Floor standing laser power supply: 300 x 730 x 625 mm (11.81 x 28.74 x 24.61 inch).
- Support**
 - Full 12 months parts and labour on site warranty
 - Maintenance contracts available
 - Technical helpdesk assistance

CAPRIS 50-100 PCS

PC/Windows software controlled system

Specification as above, plus:

- Print Specification**
 - 60 characters (maximum) per identification mark as standard
- PC Specification**
 - CAPRIS Windows custom software interface
 - 40GB Hard drive (minimum)
 - 256 MB RAM
 - 15" monitor (Flat Panel)
 - Windows 2000, XP
 - 1 x RS232 Port (minimum)
 - 1 x USB (minimum)
 - Integrated 10/100 network
- Record options**
 - Enables the easy:
 - Addition of records
 - Modification of records
 - Removal of records

For more information please refer to the **CAPRIS 50-100 full Technical Specification.**

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CAPRIS® 50-100 Laser Wire Marker

Entry level bench-top UV laser wire marking system for MRO and light manufacturing applications.

MARK, MEASURE & CUT



marking



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CAPRIS 50-100 & CAPRIS 50-100 PCS UV Laser Wire Markers

The safe, permanent and cost effective solution for marking thin wall wire and cable.

The CAPRIS 50-100 is the original bench top UV laser wire marker from Spectrum Technologies: the world leader in the design and manufacture of UV laser wire marking and processing systems. It has been developed specifically to provide an affordable replacement to hot stamp wire marking, an aggressive process unsuitable for marking current thin wall aerospace wires.

The CAPRIS 50-100 is a milestone development in UV laser wire marking technology, featuring all the benefits of Spectrum's market leading CAPRIS wire marking systems packaged into a low cost bench top unit.

Typical applications include aircraft maintenance and modification centres, low volume harness production, cellular manufacturing, prototype production and rework stations.

Designed for the processing of single core wires and multicore cables employed in aerospace, automotive, locomotive and other high-tech industries, the CAPRIS 50-100 provides mark, measure and cut capabilities for wires from 26 AWG up to 6 AWG. The system is designed for simplicity with data inputting via the membrane key pad. Wires are easily loaded for processing and wire changes require no alterations to the wire transport or marking system. Optionally, the system can be provided with a PC-based control system.

The CAPRIS 50-100 system comprises the laser marking module, a single unpowered dereeler and a floor standing laser power supply. The marking module and dereeler can be located side by side on a work bench with the laser power supply fitting conveniently underneath. If required the whole system maybe trolley mounted to enable it to be moved about the workshop.



Features and benefits

- Non aggressive UV laser marking with no insulation damage
- Complies with SAE AS50881 and FAR 25 - no need for insulation integrity testing after marking
- Ultimate mark performance resists hot hydraulic fluid, fuel, abrasion
- No pre- or post-treatment of wire, identification marks remain clear and legible in service
- Highly legible print - ergonomic font complies fully with SAE ARP 5607 "Legibility of Print on Aerospace Wires and Cables"
- Fully integrated mark measure and cut system, simple system set-up, optional connection to host database
- Universal anvil accommodates full range of wire and cable diameters - no set up
- Rapid wire changeover in less than 30 seconds
- No day to day consumables
- Speeds downstream harness manufacture, reduces errors
- Simplifies manufacturing, increasing productivity and reduces costs
- Low direct operating costs

CAPRIS 50-100 Control Options

The CAPRIS 50-100 comes in two versions: the microprocessor controlled base system or the PC controlled CAPRIS 50-100 PCS.

CAPRIS 50-100 Microprocessor controlled system

The standard CAPRIS 50-100 has a built-in microprocessor that enables marking of either single wire sections or batch files. Data is input via a membrane keypad and 8 line liquid crystal display.

Data may only be input manually and the system has built in storage for 32,000 characters (around 1,000 wires) and accommodates wire codes with up to 30 characters. This is suitable for operations producing single wires or small jobs. However, for higher volume work the PC option is recommended.

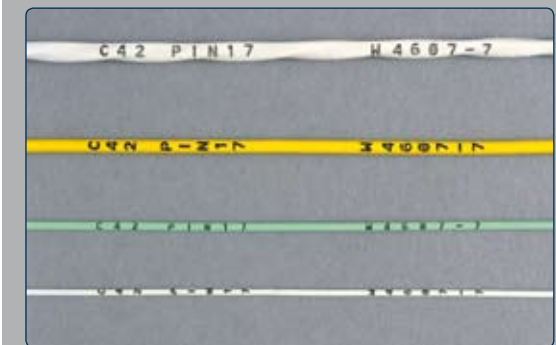
CAPRIS 50-100 PCS PC controlled system

The CAPRIS 50-100 PCS includes a separate PC and Windows™ based CAPRIS control software. This software allows full control of the CAPRIS 50-100, where job files can be created, selected and started from the PC user interface. Another benefit is the ability to process individual jobs which are greater than the physical memory of the stand alone CAPRIS 50-100. This is achieved by buffering the data so that only 8 records are in memory at any given time giving a huge virtual memory capacity.

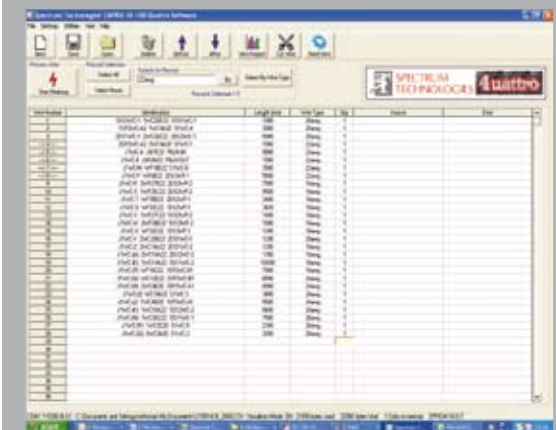
The CAPRIS Windows user interface is simple but more flexible than the microprocessor system, appearing like an Excel spreadsheet. The PC software allows job files to be created or imported from Excel (*.CSV), Access, text files (*.JLT) etc. These jobs can then be downloaded to the CAPRIS 50-100 from the PC. Existing jobs can also be uploaded from the CAPRIS 50-100 to the PC for backup in case of system failure.

The PC allows data to be accessed from a USB memory stick, CD, DVD or more commonly via a standard network connection. A further significant advantage of the PC based system is the increased maximum number of characters that may be printed in an individual wire; at 60 characters this is double that of the microprocessor based system

CAPRIS UV laser marked wire and cable samples. Includes optional source / destination codes at wire ends



Example of CAPRIS 50-100 operating screen



Customer Support

- Full 1 year on-site warranty for parts and labour
- Maintenance contracts available
- In-depth technical training courses available from a dedicated training department, on site at customers location or at our in house training facility
- All equipment supported for at least 10 years, guaranteed
- Spare parts stocked in the UK, US & Hong Kong for same day dispatch
- Round the clock global support network with rapid response to any issues and 24 hour telephone hotline support
- 15 dedicated field service engineers based in 3 continents, and sales and service representatives in over 26 countries.
- Optional diagnostic software for remote assistance via internet.

quality, accuracy and performance

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