



# Fq10 Laser Marking System Telesis

**E Durkheim**



## **Fq10 Laser Marking System Telesis:**

*Implementing New Methods of Laser Marking of Items in the Nuclear Material Control and Accountability System at SSC RF-IPPE*, 2009 For over ten years SSC RF IPPE together with the US DOE National Laboratories has been working on implementing automated control and accountability methods for nuclear materials and other items Initial efforts to use adhesive bar codes or ones printed painted onto metal revealed that these methods were inconvenient and lacked durability under operational conditions For NM disk applications in critical stands there is the additional requirement that labels not affect the neutron characteristics of the critical assembly This is particularly true for the many stainless steel clad disks containing highly enriched uranium HEU and plutonium that are used at SSC RF IPPE for modeling nuclear power reactors In search of an alternate method for labeling these disks we tested several technological options including laser marking and two dimensional codes As a result the method of laser coloring was chosen in combination with Data Matrix ECC200 symbology To implement laser marking procedures for the HEU disks and meet all the nuclear material NM handling standards and rules IPPE staff with U S technical and financial support implemented an automated laser marking system there are also specially developed procedures for NM movements during laser marking For the laser marking station a Zenith 10F system by Telesis Technologies 10 watt Ytterbium Fiber Laser and Merlin software is used The presentation includes a flowchart for the automated system and a list of specially developed procedures with comments Among other things approaches are discussed for human factor considerations To date markings have been applied to numerous steel clad HEU disks and the work continues In the future this method is expected to be applied to other MC A items Computer Analysis of a Laser Marking System Carol Conti, 1980 **TEA-CO2 Lasers & Laser Marking** Teck Yong Tou, 1997

Laser Marking and Serializing Peter M. Baker, Society of Automotive Engineers, 1982 **Ultraviolet (UV) Lasers for Aerospace Wire Marking** AE-8A Elec Wiring and Fiber Optic Interconnect Sys Install, 2006 Ultraviolet UV laser marking for aerospace wire and cable is now a well established and accepted process The purpose of this report is to provide general information on the technical basis of marking systems that apply UV laser energy to the wire surface This includes materials for UV laser marking the key characteristics of UV lasers suitable for this application in terms of the mark process requirements and operational requirements the various types of UV lasers which meet the general requirements for wire marking and the generic components of UV laser marking systems Subjects beyond the scope of this report include other wire marking systems not utilizing UV lasers legibility and contrast measurement The contents of this document are for information only It is not intended that it should be used as the basis for marking process specifications or standards which are covered by AS5469 Wire and Cable Marking Process UV Laser This report provides background information and general guidance required by users who need to implement UV laser marking technology for wire identification during the process of preparing wires and cables as part of the process of wire harness manufacture It has been updated to reflect the current

state of knowledge and best practice      *The Industrial Laser Annual Handbook* ,1990      **Laser Engraving Guide** Joseph Kusky,2021-03-29 Laser engraving is the practice of using lasers to engrave an object Laser marking on the other hand is a broader category of methods to leave marks on an object which also includes color change due to chemical molecular alteration charring foaming melting ablation and more The technique does not involve the use of inks nor does it involve tool bits that contact the engraving surface and wear out giving it an advantage over alternative engraving or marking technologies where inks or bit heads have to be replaced regularly They always say that Time is Money So why spend hours if not days of valuable time learning to create beautiful engravings Get the most benefit out from your home laser engraving machine and the Scarve software with this handy reference guide      *Laser Scribe Optimization Study. Final Report* ,1996 The laser scribe characterization optimization project was initiated to better understand what factors influence response variables of the laser marking process The laser marking system is utilized to indelibly identify weapon system components Many components have limited field life and traceability to production origin is critical In many cases the reliability of the weapon system and the safety of the users can be attributed to individual and subassembly component fabrication processes Laser beam penetration of the substrate material may affect product function The design agency for the DOE had requested that Federal Manufacturing and Technologies characterize the laser marking process and implement controls on critical process parameters      **The Effect of Laser Marking on Material Structure** Jane Woolrich,University of Wales Swansea. School of Engineering,2002      **The Analysis of Laser Marking Surface Roughness on Different Materials by Using Carbon Dioxide Gas Laser System** Filipi Tuah,2010

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