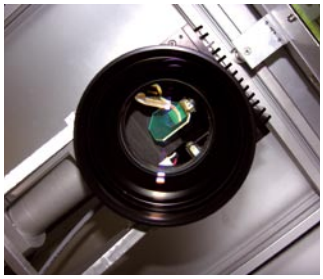
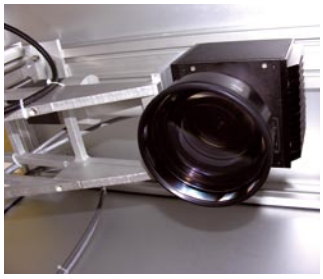
FiberMark

YAG Laser Coder





- State-Of-The-Art technology
- Yt:YAG Laser Module
- Power: From 10 up to 100 Watts
- Pulse Energy: From 0.5 up to 2 mJ
- Highest Reliability – 100000 h MTBF
- Low Maintenance Costs
- Permanent, Tamper-proof Codes
- High Quality Optics
- Mark-On-The-Fly
- Top Scanhead Speed
- Red-Dot-Pointer

Secure, Permanent Codes

Laser coding is a flexible, non-contact means of providing direct, permanent codes on products.

State-Of-The-Art technology

MarkIDent's diode pumped fiber laser **FiberMark** represents the consistent further development of the previous solid state lasers characterized by economic life-time and highest beam quality. **FiberMark's** pulse energy allows the processing of variable materials, e.g. metals and plastics, for both color change as well as engraved marking. Due to its long and flexible fiber the laser head can be used in problematic locations which are lacking space: The source of the laser beam and PC can be placed seperate from the scan head.

Crisp, Clean Codes

The **FiberMark's** optical design produces a more sharply focused beam, which results in crisper, cleaner codes. Whether you need to code complex characters or require high resolution codes, you can count on **FiberMark's** high quality optics and smooth vector-steered beams to achieve the highest coding quality possible. And a sharply focused beam generates greater energy densities, enabling higher coding speeds.

Straightforward Yet Sophisticated

Job setup is straightforward with **Fiber-Mark's** intuitive, feature-rich command set. Drop in text, serial numbers and bar codes with the click of a mouse. Generate any True Type fonts, including Asian and European characters. Orient them horizontally, vertically or radially. A vast library of single- and two-dimensional bar codes covers most bar code applications. Auto time, date and serializing allow for a myriad of coding possibilities. **Fiber-Mark** also contains powerful functions such as text merge, which can be accessed via a remote database through a network connection. Or import and execute one of many filetypes. FireMark offers remote control and monitoring through a networked interface.

MarkIDent
EIN UNTERNEHMEN DER BÜTEMA GRUPPE

MarkIDent GmbH
Winterspürer Straße 19
78333 Stockach, Germany
Phone +49 7771 91820
Fax +49 7771 918277
info@markident.de
www.markident.de

FiberMark

YAG Laser Coder

Technical Data

Laser Type and Power

Modular Yt:YAG Laser Source
(1064 nm) / 10, 20 and 100 Watts

Aiming and Pointer Beam

Red 650 nm Laser Diode (Standard)

Marking field (mm)

120 x 120 (Standard)
180 x 180 (Option)

Speed

Up to 665 characters/sec., 87 m/min.
(Font and Substrate Dependent)

Shutter

Electro-Mechanical Safety Shutter
and Shutter Sensor

Inputs

Start Sensor, Start Switch, Interlock, E-Stop, Quadrature Encoder, 6 User Inputs, RS-232 (RS-485 optional)

Outputs

5 and 24 V DC, 6 User Outputs, Fault Alarm, Ready, Mark-In-Progress, Warning Indicator Beacon

Communication Ports

RS-232, Ethernet, USB

Software Features

Import Graphic Types: PLT, DXF, EMF, CMX, AI, SVG, BMP, JOB, MCL, PCX;
Fonts: Any True Type Fonts, Asian, Laser Fonts, Hatched, Bold, Italic, Vertical, Horizontal, Radial;
Remote External Control of Software Features through Ethernet-Port (opt.);
Multilingual User Guidance;
Auto Date, Auto Time, Serialization, Text Merge, Batching, Arraying, Several Hatching Algorithms, Any Language Can Be Supported, Many Bar Code Types (incl. 1 & 2-D), Mark-On-The-Fly

Laser Head

Measures: 96 x 114 x 114 mm;
Weight: < 9 kg (Lens Dependent);
Length of connecting Fiber: 2–3 m
(2 m at 100 Watts)

Control Kiosk Specifications

17 Inch WYSIWYG Color LCD
(19 Inch optional);
Switches/LEDs: Start, Emergency Stop, 6 Operator Status LEDs for Mark-In-Progess and Ready State

Cabinet

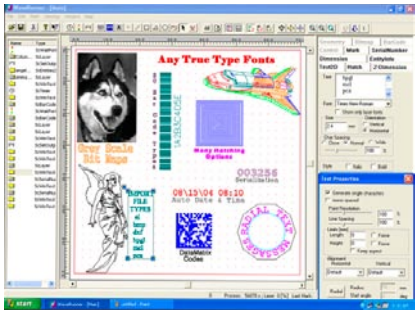
Steel with Laser Protective Window
(Air Conditioning optional)

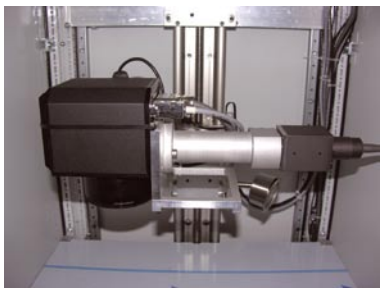
Options and Accessories

Remote External Control;
Bar Codes, Graphics;
Autofocus for Laser Head; Auto Height Adjustment for Laser Head;
Speed Sensor; Start Sensor;
Warning Beacon

Environmental

Electrical: 210–240 VAC, 50/60 Hz
(110 VAC Version optional)
Temperature and Humidity Range:
5 – 25 °C
(5 – 45 °C with Air Conditioning);
10 – 95 % N. C.





Coding || Solutions