

# On Your Mark Get Set Track™

w3.nutrace.net



## NuTrace NUX-20<sub>NG</sub> 1064nm MOPA Fiber Laser

The most flexible, efficient, low cost, complete ready to use surgical instrument laser marking process in the world



NuPossibilities  
NuSimplicity  
NuAffordability

 NuTrace®

# UDI Surgical Instruments


The migration of surgical instruments in healthcare is a well-known problem. It is extremely difficult to determine which instrument belongs where, or which instrument goes to a set when they all look alike.

## HUMAN READABLE

For hospitals currently without a surgical instrument tracking software, we have developed a different way to permanently laser identify any surgical instruments. By immediately removing the old and dangerous tape, we have added a visual identification that professionals in SPD/OR will easily be able to identify the owner of each instrument.

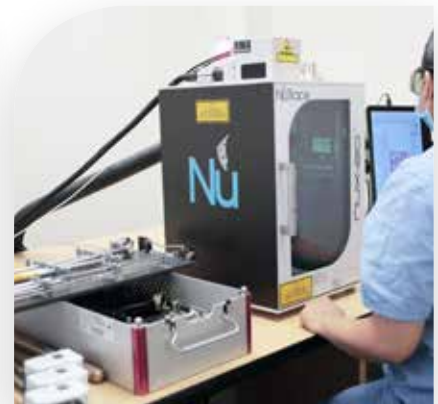
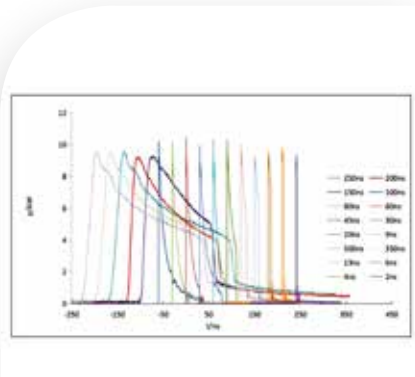
## DATAMATRIX UDI

For hospitals currently using a tracking system capable of tracking at the instrument level, we have developed a unique sequence of numbers recognizable for each tracking system. Each instrument, regardless of color or material, will be easily identifiable within your sterile processing supply chain.



Titanium Orthopedic Instrument.  
Knee replacement Set #3

## Laser Marking /Reading Capabilities



### EXTREME COMPONENTS (MOPA)

A remarkably simple construction, yet the most powerful synergy between the NuTrace M7+ MOPA (Master Oscillator Power Amplifier) laser, the NuTrace R+ Max and the ultra-easy, ready to use templates from the NuTrace CAD computer program. The MOPA M7+ laser reaches the required performance in terms of linewidth, wavelength tuning range, beam quality and pulse duration cleaner and faster when compared with other lasers.

### EXTREME CAPABILITIES

After laser marking hundreds of thousands of surgical instruments (UDI/human identifiable), NuTrace completely understands the exact needs of SPD and OR. The SPD and the OR require the ability to uniquely identify each surgical instrument in the current supply chain. From the biggest retractors, or smallest Titanium eye instruments, to the complex specialized Neuro instruments; the NUX-20NG will deliver the ID mark that you need.

### EXTREME FLEXIBILITY

The legacy of the NUX-20 taught us that space in healthcare is extremely tight. By keeping the limited space challenges in mind, we not only reduced the NUX 20NG cabin size by half, but we made it a full CFR Class 1/4 \* laser without sacrificing internal any space. Go ahead and mark the long Da Vinci instruments without the need to open side doors. You can also choose to work standing up, or comfortably seated while marking surgical instruments.



It is cost-effective to have instruments marked, avoiding mistakes not only with hospital-owned instruments, but with loaners as well.

## NUX-20<sub>N3</sub> AT A GLANCE



### INDEPENDENT LASER MODULE

#### NuTrace M7+ Laser Module:

- 20W 1064nm MOPA air cooling laser.
- 110/220V 50/60Hz 10Amp.
- Marking Area: 105mm X 105mm.
- 5 ft fiber cable for easy module location.
- Top handle for easy carrying.

#### Module Dimensions:

13.5" X 11" X 6"

Laser Module Weight: 24 Pounds.

#### Cabin Dimensions:

12" X 24" X 14" Max. Marking height 8"

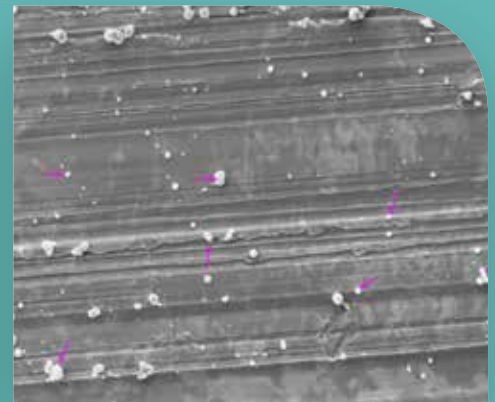
Laser Cabinet Weight: 32 Pounds.



### LASER CFR CLASS 1 - 4 CABINET

#### All that you need in just one place

- Spacious cabin to accommodate large surgical instruments.
- Manual Z-axis for ultra-quick and precise laser marks. (Hover table)
- Built-in Windows Microsoft tablet with all the needed templates inside NuTrace CAD, no learning curve.
- NuTrace R+ Max built-in for quick DataMatrix verification.
- Multiwave length (OD8-1064nm) glass protections front for easy instrument positioning and viewing.



SEM PIC. 900X Showing microparticles residue after laser marking. Courtesy NuTrace Lab

### INSTRUMENT MICRO CLEANING

#### The Passivation Process

NuTrace developed Ratero an acid-free solution currently used by dozens of hospitals to clean and remove microparticles left on the surface quickly and efficiently after laser marking. Passivation is an expontaneous process that happens all the times, Chromium produces a thin layer of oxide on the surface of the steel CrO<sub>2</sub> the "Passive" layer, that prevents surface corrosion. Ratero removes any particles that could become trapped under that passive layer.

# Contact us

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## Our Mission

We have created a seamless organization with a global perspective, able to focus unparalleled resources to serve the changing needs of the healthcare industry.

Maintain our position as the most dynamic and creative surgical instrument laser marking by offering unrivaled service, excellent value for your money, and products of the highest quality.

We run our business with respect for our customers and consideration for our employees.

We encourage them to strive for excellence, develop talents, and care for our customers.

We value cooperation above all else because it is only by working together that we can achieve these objectives.

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