PYROTEC PACKMARK

markem·imaje
a DOVER company

5-Watt UV laser coder

# SmartLase® UV500

## Ultra Powerful. Ultra Fast. Ultra Flexible.

**Printer Intelligence** | Packaging Intelligence | Brand Intelligence

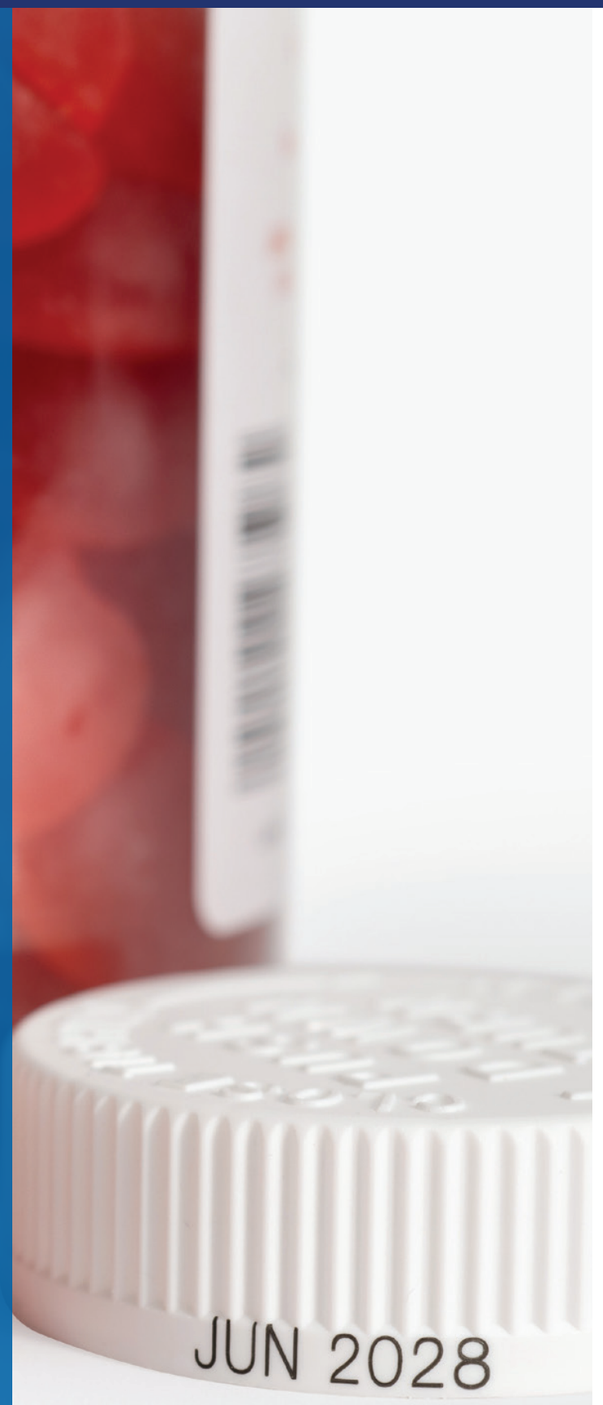
Together, We Grow

# UV laser technology is the perfect solution for challenging materials

The SmartLase® UV500 delivers the most precise, high-quality coding with the added benefit of minimal heat transfer. This leaves the substrate surface integrity intact - perfectly suited for high-density and delicate materials.

Benefit from exceptional performance in high-speed applications with the added value of solvent-free, chemical-free, permanent markings—even complex 2D codes. All with the Markem-Imaje signature reliability, ease of integration and operation.

- High definition, chemical-free and permanent coding on the most challenging substrates
- Lower operating expenses (OpEx) thanks to less maintenance and fewer line stoppages
- Industry 4.0 ready - enabling advanced packaging intelligence
- Compact, safe and powerful




## Ultra powerful, ultra fast, and ideal for high-density and delicate materials

**Standard Markem-Imaje laser accessories**
Encoder, sensors, beacon towers, fume extractors, etc.

**Industry 4.0 ready**
Supports industrial interfaces such as Ethernet/IP, PROFINET, NGPCL and full-featured CoLOS® software support

**Industrial grade**
Controller (IP54)
Printhead (IP52/IP55)

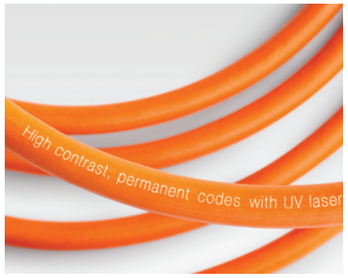
**Lens options for D8 90°**
150x150 mm
FL: 250 mm/WD: 342 mm
330x330 mm
FL: 511 mm/WD: 652 mm

**Powerful and fast**
High-speed 5-Watt UV laser printhead

**10" (250 mm) touch screen**
User interface (IP66)

# Applications

Markem-Imaje is committed to helping you achieve the best quality codes for your specific application. We provide sample print testing that considers your code, content, line speed and substrate to ensure you have the laser wavelength, power and lens solution ‘just right’.



The SmartLase® UV500 is perfectly suited for high-quality marking on a wide range of substrates including:

**Food and beverage:** HDPE, PP, PE containers and caps, monomaterial and laminated flexible packaging, laminated boxes and pouches, glass (decorative marking)

**Cosmetics and household:** HDPE, PP, PE, BOPP containers, monomaterial and laminated flexible packaging

**Pharma & Medical:** Transparent, white, and colored polymers, ABS, woven textiles (masks), medical pills (direct printing on tablets), silicone tubing, HDPE, stainless steel (medical instruments), polycarbonate (protective glasses), aseptic packaging, blister packs, PP containers, packaging and protective films, glass

**Electronics:** Wire jackets, steel and copper surfaces, silicon wafers, polymer electronic chip housing, nickel plating, polycarbonate, epoxy

**Automotive:** PA, glass, epoxy, PP, liquid-crystal polymers, PBT

**Industrial:** Extruded or molded polymers, rubber

# 5-Watt UV laser coder
# The SmartLase® UV500

### High-definition, damage-resistant, permanent codes

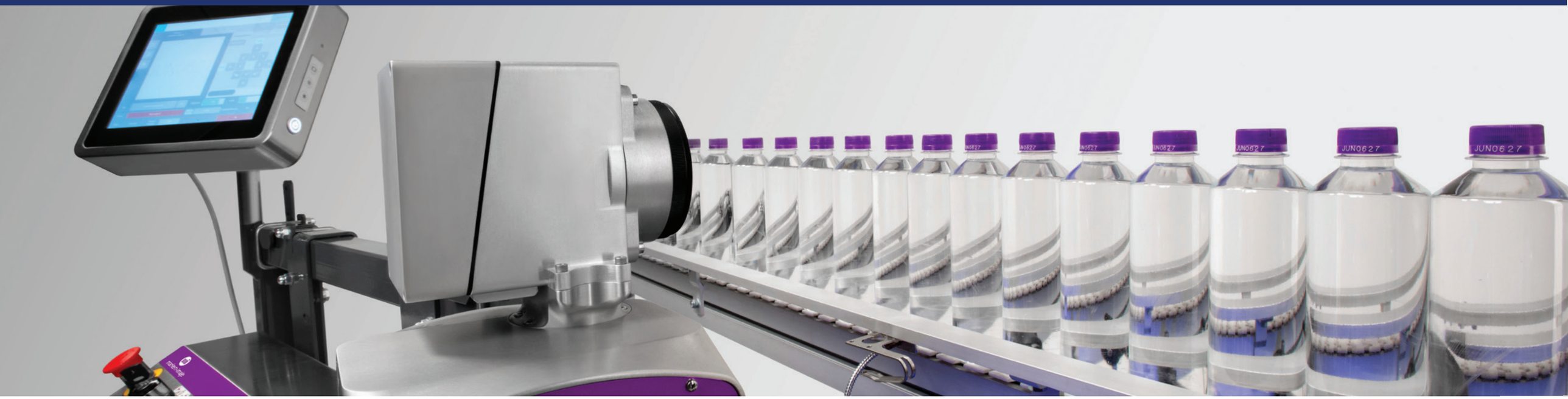
- Our unique combination of a proprietary marking algorithm, a high-speed digital scanning head and the fine laser beam provides ultra-fast and high-quality marking
- Minimal to **no interference with material integrity.**
- **Protection against counterfeiting** with permanent laser marking.

### Lower OpEx, higher efficiency and chemical-free

- **No consumables** needed.
- Virtually **maintenance-free.**
- Higher reliability means **higher productivity** and fewer line stoppages.
- **Clean and compliant** production supports your sustainability goals by eliminating chemical components.

### Industry 4.0 ready, reliable and safe

- **Industry 4.0 optimized** with industrial interfaces such as Ethernet/IP, PROFINET, NGPCL and full-featured support for CoLOS® software enabling seamless integration with complex plant automation and manufacturing execution systems (MES).
- Adoptable to challenging manufacturing environments with **IP52 and IP55 approved** marking units.
- Meets the **highest standard of safety** for E-stop and interlock circuits integration per ISO 13849-1 up to PLe.
- **Easy integration** into modern production lines.




# Intelligent solutions to connect and protect your products

We provide producers and machine manufacturers worldwide with a one-stop shop of innovative smart product identification, packaging intelligence and connected product solutions to unlock the power of intelligence in codes. By seamlessly integrating the most comprehensive range of proprietary coding technologies with software, services and certified consumables, we empower our customers with the right information across the supply chain—keeping products and consumers safe and connected—this is intelligence, beyond the mark. Our Connected Product solutions yield proven software applications to support our customers from simple code and message design, through code and packaging validation, to traceability, authentication and digital, connected product experiences, created for consumer engagement:

- Make production lines more efficient and reliable
- Achieve critical sustainability and compliance objectives
- Connect, protect and track products across the supply chain
- Strengthen consumer confidence in your brand

Packaging Operations | Distribution | Point of Sale | Consumer

# Markem-Imaje reliability and service support

Markem-Imaje ensures peace of mind with our comprehensive service portfolio. Our global team of technical experts is here to help you increase production output, reduce downtime and optimize printer performance—from startup and training through upkeep and repairs.

We are committed to providing the best customer service and support possible, using the method that's most convenient for you.

### Online and remote expert resources

Quickly recover from unexpected technical and mechanical issues with live helpdesk support including remote video capabilities

Resolve technical issues yourself anytime with the help of our AI-powered Virtual Assistant

### On-demand consumables, repairs and spares

Plan ahead with consumable and maintenance agreements tailored to meet your business needs

Order and track spare parts and consumables as you need them with our online portal

### Personalized, scalable rental program

Design a turnkey coding solution that perfectly fits your unique needs with our flexible rental program, giving you cost predictability