SmartLase® F500 | TURNKEY SOLUTION FOR BEVERAGE CAN CODING

Fiber Laser Technology

The SmartLase F500 fiber laser delivers a reliable turnkey coding solution for high-speed beverage can lines and other high throughput applications. The SmartLase F500 produces crisp permanent codes and meets your financial and sustainability goals.

Lower OpEx, fewer stoppages, clean and green

Eliminate the cost of consumables

With the F500 there is no need for ink and consumables, so the impact to your operating expenses (OpEx) is immediate.

Increase efficiency, reduce maintenance

The F500 improves production efficiency by maximizing the Overall Equipment Effectiveness (OEE) and minimizing losses caused by line stoppages. With the ES500i+, extraction and cooling are achieved with one unit; no additional cooling costs.

• Clean, sustainable and compliant

The SmartLase F500 helps achieve your sustainability compliance goals by eliminating chemical components. The F500 helps you make your beverage production truly environmentally friendly.



• Clean, readable, traceable

Even at the highest line speeds and product throughput, the SmartLase F500 provides reliable traceability that minimizes rework and recall costs.

Permanent

Indelible marking produced by the fiber laser reduces counterfeiting - no rubbing, smudging, fading or faking.

Ultrafast

High-performance digital galvanometers with lightweight mirrors are driven by a proprietary lasing algorithm. This unique scribing method enables high quality consistent codes much faster than conventional vector lasers in both static and dynamic applications.

Proven reliability, global service

Designed for most challenging environments

Complete IP 55* controller and printhead ingress protection enables long and reliable operation in humid and sugar-infused beverage environments.

Install it and forget it

With the F500 and its excess of 100,000 hours meantime between failure (MTBF), you can count on laser source reliability of 98% in the first few years of service. This maximizes your total return on investment and delivers maintenance-free peace of mind.

Easy to operate

Intuitive touchscreen interface simplifies and automates code updates, minimizing user errors.

Markem-Imaje reliability and service support

Wherever you are, a Markem-Imaje representative is just a phone call away. 24 or 48 hour on-site repair service level agreement (SLA) available in most geographic locations.



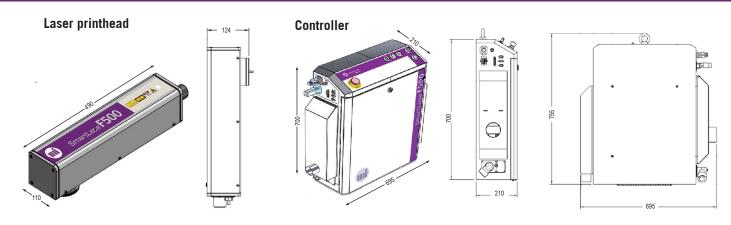








SmartLase F500 - Specifications



Model name	SmartLase F500
Laser type and properties	50 W 1064 nm Ytterbium pulsed fiber laser Digital galvanometers, pulse frequency 50 kHz and higher
Applications/substrates	 Aluminum and steel beverage cans, flexible film, bare metals, some plastics and polymers (e.g. HDPE, PP, PVC, PS, etc.) * Coding in stationary or moving "on the fly" applications
Beverage can line speed (max.) in cans per hour	• Up to 120 m/m or 1750 cans per minute (18 alpha-numeric characters 2.6 mm high in two lines, on 66 mm diameter cans) *
Marking speed (max.)	• Up to 640 m/m or 2400 characters/s *
Print features	 Number of text lines: limited only by character height and allowable print area Character height: from 1 mm to allowable print area Fonts: English/Latin character/numerals; Unicode: Katakana/Hiragana/Kanji (JIS Level 1 and Level 2); Chinese (GB2312 No.1 and No.2)/Symbols; Laser Font: arabic, arialpro, crossfree, haspalver, hspal, newmod, newpal rus, newpal, ocr-a, ocr-b, ocr-b2; CrystallFont: cryst5x5 RUS, cryst5x5, cryst7x5 RUS, cryst7x5 RUS, cryst7x5 RUS, cryst7x5 RUS, cryst7x5 RUS, cryst7x5 1D and 2D barcodes (static or dynamic) NW-7, JAN (EAN)/UPC, GS1 DataMatrix, JAN(EAN)/UPC CC-A, CC-B GS1 DataBar: Standard, truncated, stacked, stacked omnidirectional, limited, expanded, expanded stacked: CC-A, CC-B GS1-128 CC-A, CC-B, CC-C – with message design software. Logos, graphics in DXF, BMP, JPG, GIF, PNG, ICO, VGF, PLT, PCX, TIFF, TGA formats Sequence and serial numbering, automatic date, shift and time coding, real-time clock; online coding of individual data (weight, contents, etc.), timestamps Linear, circular, angular text marking; rotation, reflection, expansion, compression of marking contents, etc.
Interface and control	 Standard I/O: Ethernet, RS-232/422, encoder, photocell/sensor, extractor controls, alarms, remote interlocks (dual channel) Direct laser control with TCP/IP or RS232 Event-handler allows flexible integration by configuring the laser to send or receive data via TCP/IP, extract data from files or write to files in response to printing or operator events Standard pointing diode (635 nm red) Message storage capacity: 512 MB for resident jobs
Options and accessories	 All stainless steel variable height laser stand, ES500i+ cooler/extractor, contactless encoder for beverage can lines, custom guarding tunnel, conventional photocell/sensor, conventional encoder, alarm beacon, touch screen interface, handheld terminal, optional lenses (see below) 6" touchscreen interface in English (Default); Chinese; Czech; Deutsch; Finnish; French; Greek; Italian; Japanese; Korean; Polish; Portuguese; Russian; Spanish; Turkish.
Coding area and focal distance (mm)	Lens 55 x 55 mm / FD 162 mm (standard) Lens 160 x 160 mm / FD 254 mm Lens 212 x 212 mm / FD 346 mm Lens 242 x 242 mm /FD 346 mm
PC software	 Software available for message editing in Arabic; Chinese; Czech; Danish; Deutsch; Dutch; English (Default); Spanish; French; Hebrew; Hungarian; Indonesian; Italian; Japanese; Korean; Malaysian; Polish; Portuguese (Brazil); Russian; Serbian; Thai; Turkish; Vietnamese; Swedish. CoLOS support upon request
Physical characteristics	 Ingress protection: Controller: IP55, Printhead: IP55 EN ISO 13849-1 and -2 safety performance level: PLd Operating temperature range: +5°C (41°F) to +40°C (104°F) at 100% duty cycle Operating humidity: 10 to 95% non-condensing Electrical power supply: 1 phase 115/230 V 50/60 Hz, 700VA Dimensions: Controller: 210 x 700 x 695 mm; Printhead: 490 x 110 x 124 mm; Interconnecting cable length: 3 m Weight: Controller: 35 kg, Printhead: 7 kg Outer material: Controller: stainless steel, Printhead: stainless steel and anodized aluminum Laser source MTBF: 100,000 hours Cooling: air cooled. No plant air required for cooling; ES500i+ cooling/extractor

*Depends on the substrate and size/complexity of printed message. Please consult with Markem-Imaje representative for your application.

We reserve the right to amend the design and/or specifications of our products without notice.

ПКФ "Аллюр"

официальный дистрибьютор в Украине ул. Левитана, 110, 65114, г. Одесса тел/факс: (0482) 37-54-87; 37-75-02 info@allur.com.ua allur.com.ua

markem-imaje.com

Markem-Imaje Global Sales & Marketing Division 9, rue Gaspard Monge B.P. 110 26501 Bourg-lès-Valence Cedex France

Tél.: +33 (0) 4 75 75 55 00 Fax: +33 (0) 4 75 82 98 10





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