

Desired Outcome Achieved - Enhanced Coding Quality, Long-Term Efficiency, and Cost Savings

GL 3000 UV Laser Marking Systems

GL3000 is engineered to meet the specific needs of manufacturers requiring high-quality, reliable, and efficient marking solutions. The system's combination of precision, durability, and flexibility makes it a valuable asset for industries where quality and compliance are non-negotiable.



KEY FEATURES

1 High Contrast & Precision Marking

The Gressler GL3000 (5W) UV laser to produce high-contrast markings that do not heat or damage the product. This technology is specifically designed for creating permanent, easy-to-read codes that support effective track and trace capabilities throughout a product's lifecycle. UV wavelength enables precise and sharp marking on HDPE/LDPE materials without requiring additives or the need to revalidate packaging materials

2 Low-Maintenance Operation

Designed for continuous, high-speed marking applications with an air-cooled laser source that requires zero consumables and minimal maintenance, significantly reducing downtime and operational costs.

3 Flexible and Simple Usability

The adjustable scan-head of the GL3000 can be oriented both horizontally and vertically, accommodating various production line setups. This flexibility is complemented by the system's ability to mark codes in any orientation, enhancing the ease of integration and operation.

4 Uptime Advantage


This feature is essential for maintaining high productivity levels and reducing operational costs by avoiding the downtime and expenses associated with traditional maintenance and consumable replacements.

5 Ideal for High-End Markets


The system is particularly suited for markets that demand ultra-fine processing, such as cosmetics and pharmaceuticals. The precision and quality of UV laser marking meet the high standards required for luxury goods and sensitive products, enabling manufacturers to add value through superior packaging aesthetics and integrity.


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INDUSTRY & APPLICATION

- Food & Beverage
- Pharmacy
- FMCG
- Cosmetics & Personal Care
- Electronics
- Automotive

GL 1000 SPECIFICATIONS

Laser Type	Solid-State UV Laser	
Laser Power	5W	
Wavelength	355nm	
Laser Frequency	20 KHZ - 150 KHZ	
Focal Distance	215mm	
Speed	Max 8m / second (Linear)*	
Laser Beam Deflection	Digital High-Speed Galvanometer Scan	
Marking Size	110 x 110mm	
User Interface and System	10'2 Inch with Android System	

Coding Features

Machine Readable Codes	Alphanumeric, Text, Counter, Box/Lot, Date/ Time, Best Before Date, Julian Date, Shift code, Graphic, Database. 1D & 2D Codes, Code 11, Code 39, Code 128, EAN, QR, DataMatrix, GS 1 DataMatrix)	
Design Software Compatibility	CorelDRAW, AutoCAD, and Photoshop, and comprehensive compatibility with a range of file formats including AI, PLT, PCX, DXF, and BMP.	
Supported Font and Language	Standard Windows® TrueType® (TTF), PostScript® (PFA, PFB), OpenType® (OTF) Custom fonts tailored for high-speed or OCR applications and multiple selection of languages.	
Substrates	Flexible films, HDPE, LDPE, Other high-density plastics, Synthetic fiber materials, Acrylic, Glass, Silicone PE, PPE Automotive parts	

Operations & Integration

Operating Temperature / Humidity	0°- 40 °C / 10%-80% RH	
Electrical Power Supply	220V/50H/5A/IP	
Power Consumption	1000W	
Cooling System	Water Cooling	

Optional Accessories

Laser head bracket mount, user interface mount, sensor and sensor mount, print head cover, fume extraction

*Speed, resolution may vary depending on application on site and substrates type.

GRESSLER SERVICE & SUPPORT

- On-demand Consumables & Spares
- Consumables Agreement
- Service & Maintenance Agreement
- Online and Remote Service 24/7
- GSC (Gressler Service Center) Network
- Rapid Response Team
- Mobile Service Vehicle
- Site service
- Preventive Maintenance
- Trouble shooting
- Spareparts Installation