AREX400 AF - EASY MULTI-LEVEL MARKING. FIT THE TIGHTEST SPACES. AUTOMATE WITHOUT LIMITS.

Bologna, March 19th, 2026 – Datalogic, a global leader in Industrial Automation and Automatic Data Capture, today announces the launch of the AREX400 AF, an innovative fiber laser marking system designed to eliminate one of the most common constraints in laser marking: manual refocus when marking parts with different heights.

Building on the proven success of the AREX400 family, the AREX400 AF features software-controlled Adjustable Focus technology, enabling instant focus adjustment directly within the marking software. With a working range from ±20 mm up to an industry-leading ±60 mm, manufacturers can now manage height variations and multi-surface components without manual intervention.

No Refocusing. More Uptime.

Traditional fixed focus laser markers require manual adjustment when switching between parts with different heights. The AREX400 AF eliminates this constraint.

Focus can be adjusted instantly through LIGHTER™ 9 software, allowing operators to adapt to new geometrically different parts in seconds. This reduces setup time, minimizes production interruptions, and keeps manufacturing lines running smoothly with an increased throughput at less cost.

Mark Multi-Level Parts Without External Axes.

Complex components with multiple surfaces or different height levels can be marked within a single cycle — without external axes or dedicated fixtures. By removing the need for mechanical adjustment or additional hardware, the AREX400 AF simplifies machine integration and enables flawless marking across diverse assemblies with minimal setup effort.

Instant Product Changeover.

Switching between products or batch sizes becomes fast and seamless. Working distances can be adjusted instantly via software, keeping production lines running and supporting agile manufacturing environments.

Designed for Robotic Automation.

The lightweight 3.5 kg scan head and robotic-grade cabling make the AREX400 AF ideal for robotic integration and marking on the move applications. Its low weight allows integration even with low-payload robots while maintaining performance in continuous-motion applications.

Compact Design for Space-Constrained Lines.

The IP64-rated scan head features a compact footprint, allowing installation in dense production lines and tight robotic environments, while protecting critical components and reducing maintenance needs.

Best-in-Class Safety. Maximum Reliability. Zero Wear.

The TÜV-certified Solid-State Safe Laser Off (SLO) module ensures fail-safe laser shutdown using circuitry not subject to wear. This guarantees unlimited safety cycles and supports Performance Level PLe in suitable integrations.

With AREX400 AF, laser marking becomes simpler, faster, and more adaptable — empowering manufacturers to automate without limits.

"Our new AREX400 AF represents a fundamental transformation of the market, filling the gap between 2D fixed focal distance laser markers and expensive 3D systems—think of it as a kind of 2.5D solution," said Lorenzo Bassi, Laser Marking Product Line Manager - Industrial Automation Division at Datalogic. "Unleashing new standards in flexibility and cost efficiency, the AREX400 AF produces permanent and durable marks on multi-step workpieces accurately and repeatably."