

Cost-effective, reliable, industry-proven – Coherent laser markers

In 2016 Coherent – one of the world's leading providers of laser-based technologies – acquired ROFIN – a recognized leader in laser markers and laser marking machines and applications. Today our customers in marking applications are enjoying the benefits of this synergistic merger thanks to

- An expanded range of superior laser markers from the PowerLine series through complete marking machines, that now support virtually any application from marking plastics to black marking of steel and aluminum.
- Global applications support with multiple application labs around the world, all with access to a comprehensive portfolio of laser types and applications knowledge.
- Fast local support from a larger global service team with unmatched experience and over 50 service locations.
- A Center of Excellence near Munich, Germany that acts as a single, centralized hub for all Coherent marking resources.

PowerLine – Better than Ever

No area of our marking portfolio highlights these benefits more than the popular PowerLine family of laser markers. These proven sub-systems include the laser, scan head and operating software Visual Laser Marker, all housed in a tailored solution package. This flexible software allows straightforward implementation of complex tasks such as 3D marking on curved surfaces, on-the-fly marking, engraving, and mark serialization. PowerLine products have been widely used for many years for both marking and surface texturing applications in industries such as microelectronics, medical disposables and consumer goods.

The PowerLine series has been continuously developed over the years and its capabilities have been greatly extended through access to a significantly larger portfolio of laser sources. Originally, these marking products were available with a choice of diode-pumped solid state (DPSS) or fiber lasers, and with the choice of infrared, visible or ultraviolet wavelengths to match the absorption characteristics and the type of required mark (e.g. color change, engraved features, etc.).

Now they are also available with the Coherent industry-leading ultrashort pulse (USP) lasers including the Rapid NX, as well as the Coherent AVIA and MATRIX family of high-power ultraviolet lasers. This unmatched range of laser types opens new horizons of applications – from re-usable stainless-steel medical devices to cosmetic designs for automotive lights and dashboard components – all in the same proven PowerLine package.



Figure 1. The PowerLine series continues to be among the world's most popular laser markers.



Figure 2. Ultraviolet lasers can mark colorless materials such as silicone rubber without affecting the outer surface.



Figure 3. Black marking creates high contrast marks on steel and aluminum surfaces without affecting surface anodization or passivation.

Global Experience – Local Applications Labs

Every successful laser marking application starts in the applications lab, where Coherent evaluates and matches the optimum laser marker configuration, and then troubleshoots and perfects the process. Coherent now runs 17 applications labs, strategically located around the world, all with access to the industry's broadest portfolio of lasers, sub-systems and machines, including fiber lasers, DPSS lasers, USP lasers and high-power ultraviolet lasers. Just as important, these labs draw on all the marking experience and knowledge from within Coherent and from the former ROFIN constituents. The end result is an optimum solution matched and locally developed to the customer requirements in terms of marking quality, speed and cost.

Global Service and Support

Developing and optimizing the application solution and then installing the laser markers at the customer's facility is just the beginning. A marking partnership with Coherent is usually an ongoing relationship. Both Coherent and ROFIN were well-known for their high levels of service and support. Today the combined Coherent service and support resources for marking applications are larger and better than ever. The company currently employs over 500 field service technicians. No matter where you're located, when you need help with your marking system or your application, timely expert help is only a phone call away. Help is around the corner instead of around the world.



Figure 4. Global service and support for all marking and texturing applications and products is now centralized in Coherent's expanded Munich Center of Excellence.

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