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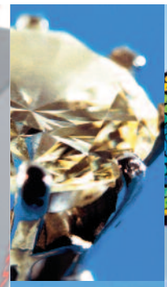

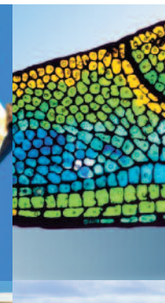

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FABULOUS PROSPECTS

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WE THINK LASER

WE THINK LASER

ENHACE YOUR CREATIVITY WITH ROFIN

Advanced laser technology from ROFIN takes your artistry and craftsmanship to the next level. Our company has been a pioneer in laser material processing for the jewelry industry since 1992. At that time we introduced the first all-in-one manual laser welding system. A host of inventions followed: patented pulse shaping, patented sweet spot resonator®, micro welding, swiveling optics and desk top design. The latest addition to this list is a laser marking system, especially optimized for jewelry manufacturing. Inside-marking even on wide or special shapes is now possible.

More than 4,000 laser systems installed in the jewelry industry are the result of constant development work and striving for perfection. We offer solutions for any kind of laser application in the jewelry industry – starting with a family of manual welding lasers to lasers and integrated solutions for cutting, marking and engraving. ROFIN partners with a number of well-known suppliers to the jewelry industry.

LASER WELDING

Laser welding allows all precious metals and many alloys to be joined together without using solder. Laser welds are strong and pure, even in areas which are difficult to access for conventional joining techniques. In general, if you can see the joint – you can laser weld it.

PERFORMANCE

- **Sweet Spot Resonator®**
  Consistently high weld quality on highly reflective materials, and very tolerant to focusing errors
- **Micro welding**
  Welds with a spot diameter smaller than 0.1 mm, standard is 0.2 mm
- **Perfect repairs**
  Strong and invisible high-quality repairs can be realized in a very short time
- **Only best material**
  Welding precious metals without filler material means avoiding impurities or potentially toxic alloys
- **Minimized thermal input**
  Welds can be applied right next to heat sensitive parts like precious gemstones, pearls or springs

LASER CUTTING

Laser cutting of precious metals allows producing complex components at highest precision in small and larger batch production. The laser cuts virtually all commonly used precious metal alloys with excellent cutting quality even in fine and filigree designs.

MPS FLEXIBLE

- **Fine kerf width**
  Kerf widths can be 20 microns small allowing filigree designs
- **Cut through in a single pass**
  Even parts which are thicker than 2 mm can be cut in a single pass at very high quality
- **Excellent edge quality at higher speeds**
  Fine cutting with excellent edge quality at high speeds means high cost-effectiveness
- **Minimum product finishing**
  Minimum burr generation on the cut edges means only minor post processing

LASER MARKING

Laser marking is a computer-controlled, environmentally friendly alternative to mechanical engraving, pad printing, stamping or chemical etching. The Easy-Jewel offers the benefits of non-contact, abrasion-resistant, permanent marking onto almost any type of precious material with high speed and high precision.

EASYJEWEL

- **EasyLoad**
  Quick and exact loading of regular and special shapes. One fixture for inside, outside and front-side marking
- **EasyPosition**
  Precise jogging function to reach optimum marking position. Software autocorrection, autosplitting
- **EasyView**
  Live preview with online camera
- **EasyMarking**
  Task-oriented, efficient job definition by entering part and material parameters
- **EasyMove**
  All-in-one solution, portable and compact desktop design