

NEW Lasers For
Jewellery Industry

Bespoke Jewellery Lasers

Jewelase



Better sharpness

50% increase in laser power

Better contour marking

More backlash protection

Consistent quality

Improved field of focal distance

Special effects



Cutting of precious metals

All precious metals like Gold, Silver, Platinum can be easily cut by MARKOLASER *Jewelase* technology. Infact a new laser has been developed for cutting gold sheets upto 0.75mm with low weight loss of gold. The weight loss depends on many factors like design, depth, thickness etc.

Laser cutting of jewellery by cutting of sheets made of Gold and Silver is increasingly required to make fine cut jewellery items. *Jewelase* is completely equipped with a wide range of laser systems to meet such challenges. These jewellery lasers has cut silver sheets upto 1mm to make pendants rings and earrings. We have options of 20/30/50/70 Watts laser for this purpose. The time of operation decreases with increase in power but the quality remains fairly consistent.



Deep engraving of precious metals

Beautiful and complicated designs can be easily etched into precious metals. Laser engraving can be done on most metals like Steel, Tungsten, Titanium, Gold and Silver. Engraving can be used to mark logos onto the jewellery. *Jewelase* can engrave any sides of a jewelry piece be it front, back or even the inner side. Engraving by these jewellery lasers is quite deep and gives very high contrast to produce a crisp, sharp, clear and smooth results in reasonable time.



Picture engraving on precious metals

Low depth, excellent contrast, sharp and consistent picture marking. These are the features of *Jewelase* by MARKOLASER. A new avenue is opened for jewellers who can personalize design on polished silver or gold coins, pendants or even invitation cards. This feature will be provided on special request.



These are example of laser cutting, Deep Engraving and picture Engraving on silver, no commercial use

Deep engraving of hardened metals to make coin & punch dies

MARKOLASER *Jewelase* produces genuine 2.5 D & 3D lasers with features comparable to the best engraving machines in the world. 3D engraving on dies is a very important application for making coin dies used to make silver or gold coins. It can also be used for making punch dies for jewellery casting and the ceramic dies can be made with highest accuracy.



JEWELASE 2.5D & 3D - 20W - DE fiber laser machine
Also available options
20w/30w/40w



Marking on precious metals

The MARKOLASER HALLMARKER is a specialist of marking on precious metals. The different ways of marking on gold / silver makes it most versatile and thus stand out from the rest of the competition. The different ways of marking with HM - 10/ 20W are:

- Marking of crisp, sharp and thin lines on the metals ensures extremely low loss of Gold for giving a permanent mark on the jewellery.
- On very shiny polished Gold or Silver jewellery, micro patterns can be done in such a manner that it becomes difficult to copy such watermarks, hence the product cannot be replicated.
- Another requirement of Gold Hallmarking institutions is DEEP but very fine marking. MARKOLASER HM - 20/30 watts gives these results in one pass ONLY reducing the loss of gold.
- MARKOLASER is still undergoing more research in developing more economic and sustainable competitive advantage in jewellery marking applications.
- HM - 20 is a very small table top version for jewellers and hallmarking industry. Its is economic solution for entrance into Gold marking business. Although machine is very economical but still has the best features comparable with other laser machines from Europe.

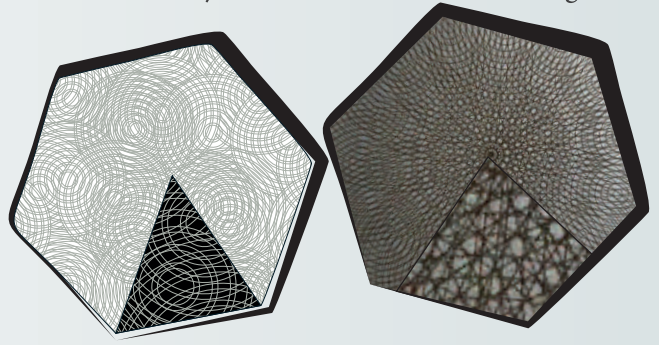


HALLMARKER - 10w / 20w

Surface texturing/micro marking on jewellery

Jewelase offers extremely fine engraving and micro patterning on jewellery objects giving it the highest decorative value, not yet realized by many, giving the designer a free hand in creativity. Benefits of Micro marking on jewellery / watches/objects of art.

- Micro marking makes the art difficult to copy.
- It gives extremely fine aesthetic value to the piece.
- Not generally visible to the naked eye, the marking/engraving is sometimes used to give a polished or smooth look to the art piece.
- It can replace the polluting chemical process of acid etching.
- Even very complicated textures can be made.
- Texturing can be done on uneven polished metallic surfaces.



TECHNICAL SPECIFICATIONS

| | HM-10 | HM-20 | JL-20 | JL-30 | JL-50 | JL-70 |
|---|------------|------------|------------|------------|------------|------------|
| Type | Fiber | Fiber | Fiber | Fiber | Fiber | Fiber |
| Model Specs | 10W | 20W | 20W | 30W | 50W | 70W |
| Wave Length | 1064nm | 1064nm | 1064nm | 1064nm | 1064nm | 1064nm |
| Focal length | F-100mm | F-100mm | F-100mm | F-160mm | F-254mm | F-254mm |
| Cooling Type | Air cooled | Air cooled | Air cooled | Air cooled | Air cooled | Air cooled |
| Marking | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Deep Engraving | ✗ | Limited | ✓ | ✓ | ✓ | ✓ |
| Cutting | ✗ | ✗ | Limited | ✓ | ✓ | ✓ |
| Rotary (O) | ✗ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Suction (O) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Class IV <small>(Customer must ensure proper handling of laser safety while using)</small> | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

N.B : As the power increases the speed of cutting increases, (O) = Optional, HM = HALLMARKER, JL = JEWELASE.

Optional Units:



Marketed by :
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DELHI

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MUMBAI

device for bangles & rings
B-342, Oshiwara Indi Centre Opp - Oshiwara Bus Depot, New Link Road, Goregaon (WEST) Mumbai -400104
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PUNE

Suction unit for collection of expensive metals
Current Address - Gat-37, Mauje Chimbali, Taluka Khed, Pune, Maharashtra 410501
(M) +91 9975090374 +91 8983043440
New Address - Plot No. A16, MIDC, Chakan, Behind hyundai, Pune, Maharashtra



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