

NEW
**Lasers For
Hallmarking Industry**



Fastest in Industry

Better sharpness

50% increase in laser power

Better contour marking

Heavy duty backlash protection on gold/silver

Consistent quality, Long life

Improved depth of focal distance

Special effects

Viewed Images are Zoomed

No chinese component used



Why laser for hallmarking?

The hallmarking industry is facing a lot of challenges. Many cheap low quality machines are being used to mark the jewellery resulting in low quality marking or sometimes even broken letters are marked. Facing this challenge we have developed a special laser which can mark with excellent sharpness even upto .3mm small fonts.

A breakthrough in hallmarking technology

MARKOLASER is pleased to introduce a new technology in Laser Hallmarking industry. This laser has many new features which are incorporated after continuous learning experience from industry & special emphasis is laid on micro marking, depth of focal distance & many other firsts in Hallmarking.

Key technical features of MARKOLASER hallmarker

- +10,000/+100,000 Hours of expected laser lifetime.
- Small yet functional design merges the components of laser into a compact cabinet yet the Z motion motorized table on top of the cabinet provide great flexibility and accuracy. (Optional Motorised Z)
- Highest marking quality beam diameter. (Needed for sharp, small logos)
- No chance of damage to intra cavity optics from contamination due to sealed system.
- Low energy consumption does away with high energy costs incurred with traditional laser.
- Compact rugged air cooled design.
- Red pointer for mark preview
- Optional special suction system for longer life and quality and collection of expensive metals. [Our Innovation]
- High speed, versatile & user friendly.
- Reliability and quality assured with all European components.
- Digitally editable parameters ensure hassle-free marking experience.
- Markolaser software license
- Excellent after sales services by a highly qualified & experienced technical support team.
- Zero consumables & negligible maintenance ensures low cost of ownership.

Additional Benefits

- No Excise Duty
- No Installation charges
- Free Online Diagnostics & Technical Supports

Compulsory extras:

- Air conditioner
- Online UPS
- Computer / Laptop
- Monitor
- Original genuine windows operating software are not in the supply of Markolaser



*Packaging, Freight & Taxes Extra at actuals
*Please read warranty terms carefully

Advantages of Markolaser Hallmarking Machine

More Sharpness: A Crisp & Clear thin line is the most important aspect of a good laser. Markolaser has been specially optimised for marking on Gold & Silver. Platinum being very hard is even better marked.

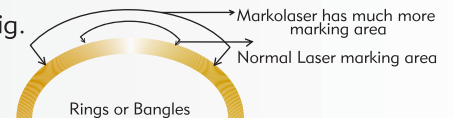
Increased Power: Normally fiber lasers need two passes to etch gold. First one to frost the gold and second to engrave. This makes the marking less sharp. One clean mark must be preferred for hallmarking Gold and Silver Jewellery. When buying a Fiber laser for hallmarking it must be kept in mind that it should do the hallmarking in ONE pass only and not TWO passes. Markolaser has been optimised for this special need.

Better Contour Marking: Marking small circle by normal laser is a real test of quality. Check out our test plate which has circle marked up to 0.5mm diameter. This help when curved artwork are marked in a very small spaces.

Backlash Protection: The laser has to hallmark on a very highly shiny & polished surfaces. Hence the chances of beam bouncing off are very high. So the hallmarking laser should block the returning beam to avoid damaging its own resonator. Markolaser has inbuilt backlash control device to protect its resonator.

Consistent quality: At MARKOLASER, we set very high standard for quality by rigorous quality control system, 2 years warranty on complete laser system and excellent after sales services. we bring to our customers extraordinary European technology at very reasonable prices. MARKOLASER hallmarking laser are incomparable in terms of price performance ratio. Very reliable European components make the lasers uncompromising and are optimized for Gold and Silver laser marking.

Improved Field of Focal Distance: This is a very important requirement of Hallmarking Industry. Marking on curves is very tricky as focal point change can make the artwork become smudgy edges. On bangles and rings this aspect is very important. Specially when many rings are marked together which are placed on single jig.



Special Effects: Marking of micro textures can be used to make it very difficult to imitate logos. This is something special from Markolaser. Almost hollowgraphic effects can be generated.

After Sales Service: MARKOLASER laser system strong industrial cabinets and work table. Our after sales services unmatched to extent that we provide online diagnostics and solutions in case of any breakdown. While buying any hallmarking laser machine remember 'cheap is not always cheap'. Having a dependable laser from a reliable company is very important, as one need services after years of usage.

We offer warranty of 12 / 24 months on our machine. However even after 24 months we provide instantaneous support to our clients with nominal service charges. Qualified Laser Engineer will be sent to customer's company for maintenance.

*For complete warranty details please refer warranty terms available on budgetary offer.



Micro Minnie Desktop Marker
HM 10
Ideal for jewelery showrooms



Desktop Marker 20W
HM 20
Ideal for Hallmarking centres



Markolaser Minnie With Motorized
Z Movement 20W
JL 20
(Very sharp)

Ideal for heavy duty cycle hallmarking centres & jewelery manufacturers

N.B. Markolaser reserves the right to change the design to upgrade the technology from time to time.
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(No chinese component used)
Logos & Artworks Shown are Property of Respective Companies

TECHNICAL SPECIFICATION FOR HALLMARKING CATALOGUE

MODEL NUMBER	HM-10	HM-20	JL-20
Laser Type	DPSS	Fiber	Fiber
Wave Length (nm)	1064nm	1064nm	1064nm
Average Output	10W	20W	20W
Modes of Operation	Pulsed	Pulsed	Pulsed
Frequency	10-100kHz	20-100kHz	20-500kHz
Pulse Width	7-50 ns	20-200 ns	20-200 ns
M2	≤1.3	≤1.5	≤1.3
Marking Area	100 mm x 100 mm	110 mm x 110 mm	120 mm x 120 mm
Focal Length of Optics	160 mm	160 mm	160 mm
Marking Speed	MAX10,000 mm/s	MAX15,000 mm/s	MAX15,000 mm/s
Mode of Operation	Pulsed	Pulsed	Pulsed
Operating Temperature	35° C	35° C	40° C
Safety Regulation	class 4	class 4	class 4 (class 1 opt)
Power Supply	230 V (AC), 500W	230 V (AC), 600W	230 V (AC), 650W



Marketed by :

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