



# LASER MARKING



Size	SAO	ISO
Size A	3.65mm	3.65mm
Size B	3.97mm	3.97mm
Size C	4.29mm	4.29mm
Size D	4.61mm	4.61mm
Size E	4.93mm	4.93mm
Size F	5.25mm	5.25mm
Size G	5.57mm	5.57mm
Size H	5.89mm	5.89mm

## Laser Marking

The Sheffield Assay Office Laser Development Department has the knowledge, skills and laser equipment to engrave, cut and mark a range of materials.

The department offers a complete range of services from laser marking a traditional standard hallmark on precious metal to providing the expertise in transferring a design from scanned image to a computer graphic allowing a range of logos, signatures and serial numbers to be laser marked for decorative, promotional or engineering and industrial purposes.

## Benefits of Laser Marking

- Laser marking is an etching process and the metal is not moved, therefore laser marking does not cause bruising or distortion and setting back of metal is not required.
- It is possible to mark both flat and curved surfaces.
- The process is ideal for marking hollow or thin articles, and when minimum finishing of an item is required.
- The Laser Development Department can laser the marks at a specified depth, producing a skeletal/outline laser mark or a deep relief/3D laser mark.
- A skeletal mark is often useful in Hallmarking for hollow, semi finished or intricate jewellery products where a punch mark may be undesirable.
- A deep relief or 3D laser mark is suitable for larger marks on finished or semi-finished products particularly where a display or feature mark is used as it resembles a struck hallmark (These marks can be seen on a number of items such as key-rings, photo frames or silver gift ware.) It is possible to create a mark at precisely the required size, position and depth.
- The deep laser 3D laser mark is long lasting and retains excellent definition when polished.
- Our equipment and specially designed programmes allow the Laser Development Department to laser mark multiple items at the same time. This is an area of ongoing development at Sheffield Assay Office.

### Materials that can be marked include: -

Precious Metals, Leather Plastic, Acrylics Glass, Painted or coated metals, Ceramics Cloth, Marble, Melamine, Paper, Press board, Aluminium, Rubber, Fibreglass, Wood, Veneers, Stainless Steel, Tiles, Cork, Slate.

Further information is available on our website

[www.assayoffice.co.uk/Services/Lasermarking.asp](http://www.assayoffice.co.uk/Services/Lasermarking.asp)



ENQUIRIES AND TECHNICAL QUERIES  
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