

Machining Capability Sheet – Gems & Jewellery

(IndiaUnbox Verified Workshops & Industrial Units)

Jewellery Manufacturing Capabilities

- **Casting Machines** → Centrifugal & vacuum casting for gold, silver, platinum.
 - **CNC & Die-striking** → Precision die-stamping, CNC engraving.
 - **Electroforming & Plating** → Gold, silver, rhodium, palladium, anti-tarnish finishes.
 - **Laser Welding & Cutting** → High precision joins, engravings, and stone placements.
 - **Enameling Units** → Cloisonné, meenakari, resin enameling.
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Gemstone Processing & Setting

- **Diamond Processing (Surat)** → Laser cutting, bruting, faceting, polishing.
 - **Colored Stone Cutting (Jaipur)** → Tumbling, cabochon, carving, precision faceting.
 - **Setting Techniques:** Prong, bezel, pave, channel, tension, invisible.
 - **Capacity:** Small batches (50 pcs) → industrial runs (50,000+ pcs/month).
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Prototyping & Design Support

- **CAD/CAM Design** → Rhino, MatrixGold, JewelCAD.
 - **3D Printing** → Wax/resin models for prototyping.
 - **Handcrafted Models** → Master artisans for unique, bespoke designs.
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Compliance & Quality Control

- **Certifications:** BIS Hallmark, GIA, IGI, SGL.
 - **Metal Standards:** Nickel-free, cadmium-free, lead-free.
 - **International Compliance:** REACH (EU), CPSIA (US), CPSC standards.
 - **Testing Labs:** XRF analysis, plating thickness, stone authenticity.
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Sustainability & Responsible Sourcing

- Lab-grown diamonds & moissanite supply chains.
- Recycled gold and silver refining facilities.
- Fair-trade gemstone sourcing.

- Conflict-free certification (Kimberley Process).
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Regional Strengths

- **Surat (GJ):** Diamond cutting & polishing.
 - **Jaipur (RJ):** Colored gemstone cutting & jewellery.
 - **Mumbai (MH):** Diamond trading, gold jewellery exports.
 - **Kolkata (WB):** Handmade gold jewellery, filigree work.
 - **Hyderabad (TS):** Pearl processing & studded jewellery.
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IndiaUnbox assures:

- End-to-end co-development: concept → CAD → sampling → bulk production.
- Access to certified workshops & global trade hubs.
- On-time delivery with export packaging & documentation.

 [Download Machining Capability Sheet \(PDF\)](#)