

Machining Capability Sheet – Metals, Engineering, Auto & Machine Tools

(IndiaUnbox Verified Plants & Foundries)

Foundry & Casting Facilities

- **Casting Types:** Sand casting, investment casting, pressure die casting, gravity die casting.
 - **Materials:** Steel, iron, aluminum, brass, bronze.
 - **Capacity:** From 0.5 kg precision castings → 5 MT heavy castings.
 - **Furnaces:** Induction, arc, cupola, rotary.
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Forging & Stamping

- **Forging:** Open-die, closed-die, hot forging, cold forging.
 - **Presses:** Hydraulic presses up to 10,000 tons.
 - **Stamping & Sheet Metal:** Progressive dies, blanking, deep drawing.
 - **Products:** Auto components, industrial fasteners, flanges, gears.
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CNC Machining & Tool Rooms

- **CNC Machines:** Turning centers, VMC, HMC, 5-axis machining.
 - **Tool Rooms:** Jigs, fixtures, precision cutting tools, dies.
 - **Processes:** Milling, drilling, grinding, honing, broaching.
 - **Tolerance:** ± 0.005 mm with CMM inspection.
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Automotive Component Manufacturing

- **Engine Parts:** Cylinder heads, blocks, pistons, valves.
 - **Chassis Parts:** Suspension, steering, braking systems.
 - **Transmission Parts:** Gears, shafts, clutches.
 - **Facilities:** IATF 16949-certified automotive plants.
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Machine Tools & Fabrication

- **Machine Tools:** CNC lathes, grinding machines, drilling, boring machines.
- **Fabrication:** Laser cutting, plasma cutting, bending, welding, assembly.
- **Assemblies:** Modular skid packages, heavy fabricated structures.

✅ Testing & Quality Control

- **Mechanical Testing:** Tensile, hardness, fatigue, impact.
- **NDT (Non-Destructive):** Ultrasonic (UT), radiography (X-ray), MPI, dye penetrant.
- **Metrology:** CMM, spectrometers, surface roughness testers.
- **Certifications:** ISO 9001, ISO 14001, IATF 16949, AS9100, CE marking.

🌱 Sustainability & Compliance

- Energy-efficient foundries & CNC shops.
- Recycling & reuse of scrap metals.
- ETP/ZLD for effluents & emissions.
- Compliance: RoHS, REACH, global automotive standards.

📍 Regional Strengths

- **Pune, Chennai, Gurugram:** Automotive components & assemblies.
- **Rajkot, Coimbatore, Ludhiana:** Machine tools, castings, pumps.
- **Jamshedpur, Bhilai:** Steel & heavy engineering.
- **Bengaluru, Hyderabad:** Aerospace precision machining.

✅ IndiaUnbox Assures:

- Access to **state-of-the-art foundries & machining centers.**
- Flexible production: **small-batch prototypes to mass production.**
- Strict quality standards & export packaging.
- On-time global delivery.

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