

Machining Capability Sheet – Pharma, Biotech & Medical Devices

(IndiaUnbox Verified Plants, R&D Labs & Device Units)

Pharmaceutical Manufacturing

- **API Plants:** Reactors (SS/GLR), centrifuges, dryers, distillation units.
 - **Formulation Lines:**
 - Tablets & Capsules → granulators, compression machines, coating pans, blister packing.
 - Injectables → sterile filling lines, lyophilizers, ampoule/vial washers.
 - Ointments/Creams → mixers, tube fillers, homogenizers.
 - **Capacity:** Pilot runs (kg scale) → MT-scale production.
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Biotech & Life Sciences

- **Fermentation Units:** Bioreactors (1 L → 20,000 L).
 - **Downstream Processing:** Chromatography, ultrafiltration, centrifugation.
 - **Cell Culture Facilities:** GMP-compliant cleanrooms, incubators, biosafety cabinets.
 - **Applications:** Vaccines, enzymes, recombinant proteins, biosimilars.
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Medical Devices Manufacturing

- **Plastics Processing:** Injection molding, blow molding for syringes, IV sets, disposables.
 - **Metal Components:** CNC machining, laser cutting, polishing for implants & instruments.
 - **Assembly Lines:** Semi-automated & automated device assembly, ultrasonic welding.
 - **Sterilization:** Gamma irradiation, ETO sterilizers, autoclaves.
 - **Products:** Surgical instruments, catheters, diagnostic kits, orthopedic implants.
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Testing & Quality Control

- **Pharma Testing:** Stability chambers, HPLC, GC, dissolution testers.
 - **Biotech Labs:** Bioassays, immunoassays, molecular biology labs.
 - **Device Testing:** Biocompatibility, tensile strength, leakage, dimensional accuracy.
 - **Certifications:** WHO-GMP, USFDA, EMA, CDSCO, CE, ISO 13485, ISO 9001.
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Sustainability & Compliance

- Effluent Treatment Plants (ETP) & Zero Liquid Discharge (ZLD).
 - Clean energy-powered manufacturing (solar/biogas units).
 - Use of biodegradable packaging for pharma & devices.
 - Compliance: GMP, GLP, GCP, environmental certifications.
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Regional Strengths

- **Hyderabad (TS):** Pharma & biotech hub.
 - **Ahmedabad, Ankleshwar (GJ):** APIs, formulations.
 - **Bengaluru (KA):** Biotech startups, R&D.
 - **Chennai, Delhi NCR:** Medical devices & diagnostics.
 - **Pune, Mumbai (MH):** Pharma research & formulations.
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IndiaUnbox Assures:

- End-to-end support from **lab scale** → **pilot** → **commercial production**.
- Verified facilities with **global certifications**.
- **Strict quality standards** for regulated markets (US/EU/Asia).
- On-time export-ready deliveries.

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