

Ambani
METALS

RELIABLE FOUNDATION, REMARKABLE FUTURES!

**DEEP DRAWING AND
STAMPING SOLUTIONS**

ELEVATING PRECISION!

Quality Facts

- ISO 9001:2015, MSME & MAASMA certified
- Product and raw material traceability along all the processes
- **Unrivalled Precision:** With over 20 years of expertise, Ambani Metals sets the standard for precision engineering in deep drawing and stamping parts. Our meticulous attention to detail ensures that every component meets the highest quality standards
- **Cutting-Edge Technology:** We leverage state-of-the-art machinery and advanced manufacturing processes to consistently deliver parts with exacting precision and exceptional quality
- **Stringent Quality Control:** Each part undergoes rigorous inspection and quality control measures to guarantee flawless performance and durability in every application
- **Industry-Leading Expertise:** Our team of skilled engineers and technicians brings extensive knowledge and experience to every project, offering innovative solutions tailored to your specific needs
- **Reliability You Can Trust:** Customers worldwide rely on Ambani Metals for dependable products that meet or exceed their expectations, backed by our unwavering commitment to quality and customer satisfaction

Engineering

- **Rapid Prototyping**
Using this rapid prototyping service allows our experienced metal stampings tool makers to look over your product and help with design for manufacture
- **Rapid Prototyping Tooling**
- **Tooling Design**
Our tool designers specify how each tool will be manufactured, ensuring correct steel selection
- **Dimensions And Tolerances**
About progressive die stampings
 - Material thicknesses: 0.1 to 7.0 mm
 - Finished part tolerances are as low as ± 0.02 mm
About deep drawn parts:
 - Wall thicknesses: 0.1 to 5.0 mm
 - Parts up to a length of 200 mm
 - Finished part tolerances are as low as ± 0.02 mm



Tooling & Toolshop

We have a fully equipped toolroom in our facility, with experienced mold toolmakers who collaborate closely with our design team. Our toolroom has all the main tools needed for making molds, including wire erosion, milling machines, grinding equipment, and turning machines. ISO 9001 certified key sub-suppliers.

We keep an eye on our mass production tools by sticking to regular maintenance schedules. Our skilled tool technicians, along with a range of protective systems for the tools, make sure they last a long time.

- **Type of tools:**

- Progressive dies
- Transfer dies for deep drawn metal parts (with thicknesses from 0.1 to 5 mm)
- Secondary in-line/off-line operations

Both Progressive and Transfer dies consist of separate modular tools, including carbide punching parts, punches, and anti-wear coated dies. They also feature in-tool protection systems and threading stations with automatic threading systems.



Deep Drawing

The deep drawn metal stamping process offers several advantages over traditional machining, turning, or molding methods for creating parts. The main benefits include **lowering manufacturing expenses** and **using less metal to form the part**.



Stamping

The company focuses on making precise and accurate metal parts with very small tolerances and thin materials. We use advanced automatic and precision metal stamping machines, like the Bruderer press, for our stamping operations.

Secondary Processes

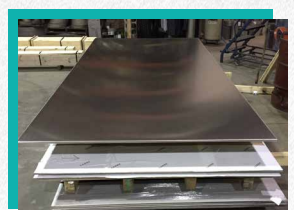
- **Mechanical Surface Treatment:**
 - Deburring
 - Tumbling polishing
 - Bright polishing
- **Cosmetic Surface Treatment:**
 - Degreasing
 - Electropolishing
 - Washing (in-house service)
 - Sandblasting
- **Electroplated Surfaces:**
 - Chrome plating
 - Nickel plating
 - Tin plating
 - Zinc plating
- **Painting:**
 - Powder painting
 - Cathaphoresis



Materials

We work with different types of metal coils such as:

- Stainless steel
- Steel
- Aluminum
- Beryllium copper
- Brass
- Bronze
- Copper
- Phosphor bronze
- Plated stock
- Galvanized steel
- Nicked alloys



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Products



Industrial Washer



Custom Metal Brackets



Custom Metal Enclosures



Electronic Components



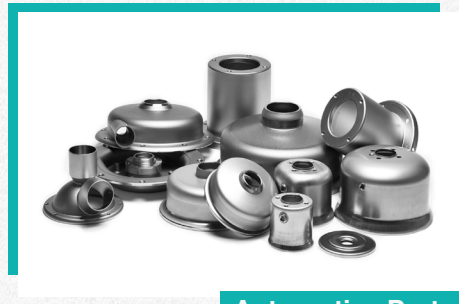
Appliance Parts



Surgical Instruments



Bubble Caps



Automotive Parts



Spray Balls

About the Company

Established over 25 years ago, Ambani Metals has built a solid reputation as a trusted provider of precision and deep-drawn machining services for metal parts and components. Our commitment to excellence extends beyond mere craftsmanship; it's ingrained in every aspect of our operation. From employing state-of-the-art technology to nurturing a highly skilled workforce, we ensure that our customers receive the highest quality products that meet their exact specifications. At Ambani Metals, we blend years of expertise with a relentless pursuit of innovation to deliver unparalleled precision and reliability in every project we undertake.



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