



# Extrusion Dies

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*Approach The Die Specialists Today!*

## Experience the BI Competitive Edge

- **Lowest Price Per Cost**

High Quality Raw-Material used by us reduces hidden costs associated with lower quality products.

- **Precision Parts & Superior Design**

Our Products have long-lasting lifespan, thereby ensuring lesser die-requirement, helping achieve saving on downtime, labor and dies cost, as fewer dies do MORE!

- **Premium Customer Service**

For any rush or any clarification about your dies, don't worry! Rest assured! We are dedicated to your success, making your job easier!

## Contact Us

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**MANUFACTURER'S & SUPPLIER'S OF QUALITY PRODUCTS:**

WIRE, TUBES & ROD DRAWING DIES - DIAMOND - PCD - COMPACTING - COATING - WIRE STRAIGHTENING  
- HEADING - GRIPPER - EXTRUSION DIES - WIRE GUIDING NOZZLES - POWDERED & GRANULAR CHARCOAL -  
WIRE DRAWING LUBRICANTS - WIRE CUTTERS - PULLING-IN-DOGS - METALLURGICAL MICROSCOPE FOR DIE TESTING

**Extrusion Dies** are used in processes involving pushing of slug through the die to generate the desired cross-sectional area. Extrusion can be carried out on different products at range of temperatures to attain various desired properties of extruded product.



## Working Conditions of Extrusion Dies

- Harsh thermal conditions generated through heated billet along with deformation and friction the dies go through
- Process is carried under high pressure along with heat adding to harshness of conditions
- Particularly, in aluminum extrusions, a hard oxide film formed immediately on the surface of the extruded metal, causes considerable die-abrasion.

Accordingly, a finest choice of tool steel along with optimum heat treatment has to be selected for elongating lifespan of Extrusion dies & tooling which are continuously subjected to extreme thermal conditions.

**Bharat Industries** takes proper care of above said working conditions while preparing Extrusion Dies. We ensure that at die-designing stage, there is proper allowance for elastic deformation and shrinkage. We also take care that the die-profile remains straight when used for extrusion of complicated profiles, as it would be subjected to highly uneven velocity distribution at that time.

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## Criteria of die-design and manufacture:

- Proper Die-Geometry, ensuring avoidance of expensive reworking
- Attaining Maximum die-life by using superior raw-materials and giving it proper heat treatment
- Extremely tight tolerance, ensuring proper weight per unit length of extruded product
- Best finished land-surface



## Applications:

Extrusion dies can be used for extruding materials including copper, tin, aluminum, steel, nickel, lead for producing various products with wire, tubes, pipes, rods and welding electrodes being the foremost.