



**The Global
Die
Company**



*Bharat Industries:
Manufacturers, Suppliers &
Exporters Of Dies.*

Approach The Die Specialists Today!

GREETINGS

**“
Our Vision is to
become India’s leading
metal tooling company
by going above and
beyond Customer’s
expectations through
consistent precision,
rapid delivery, and cost-
conscious services
across entire industry**



**Satish Singhal
-Proprietor**

WHO WE ARE

Radii, Angles, Holes, Projections or any compound curves- if you dare to dream them-Bharat Industries can make them for you! Our experience of over 40 years in manufacturing Tungsten Carbide Dies along with meticulous understanding of Wire-Industry requirements has enabled us in producing consistent, high-quality wear Tungsten Carbide products.

WHY CHOOSE US

Choosing Bharat Industries as your source for long-wearing, consistent, reliable high-performance dies is a very effectual business decision. Our services would lead you on path of reduced total production-cost, better competitiveness and more revenue. We have always maintained our prestigious reputation build over last 40 years for customization, “Raw-Material-to-Stock” quality and timely delivery.

Our Promise: Dedication to Service & Quality!

Bharat Industries pledges to:

- Ensure Accurate Geometry & Zero-defect Quality consistently.
- Provide Long-lasting, Abrasion-resistant wire Dies.
- Provide Well-organized Customer Service Throughout product-cycle.
- Be Your True business partner, delivering commitments consistently with quality.

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OUR PRODUCT RANGE

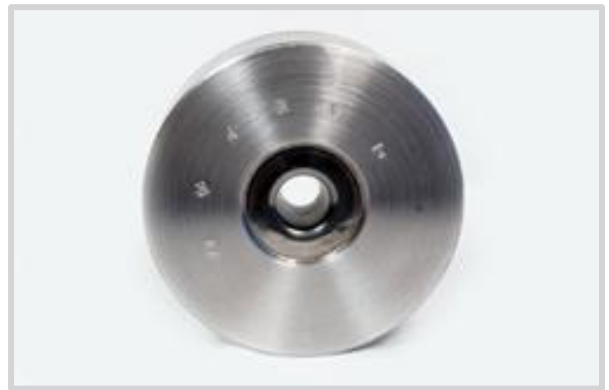
Wire-Drawing Dies:

In Wire-drawing, a wire of comparatively larger diameter is drawn through a die with a smaller bore-size. This eventually, reduces the diameter of the wire to the preferred size and tolerance, keeping the volume intact. The desired wire-size is achieved by drawing the wires through a series of dies having descending bore-sizes. The final die in this series, sizes the wire to the preferred final-size. We develop dies to achieve drawing of various steel alloys including High-Carbon steel, Stainless Steel, Mild Steel and many more.



Tube Or Pipe Drawing Dies

Drawing Dies used in tube or pipe drawing can be of any custom shapes, including commonly used round, hexagonal and square. The drawing process is very similar to wire-drawing. The major difference is usage of a *mandrel*. This mandrel is placed at the gorge of die and its size determines the Die inner diameter as well as wall-thickness. A well-finished mandrel achieves smooth surface on the inner side of the tube or pipe.



Rod & Bar Drawing:

Bars and Rods drawing is no different than Wire/Tube or Pipe drawing. The significant difference is that rod/bar tends to be much thicker than wires or tubes. Dies manufactured by Bharat Industries can be used for drawing Bars and Rods of various materials including steel and copper alloys. Bharat Industries produced dies, guarantee you longer life, thereby achieving maximum production of bars or rods before the dies have to be refurbished, thereby being very economical.



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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

Polycrystalline Diamond(PCD) Dies:

Polycrystalline Diamond has a very predictable wear along with a very high thermal stability, enabling it to resist fracture to a greater degree. This in turn is very economical for the industry with a lesser downtime. Bharat Industries, with its stringent quality provides you Polycrystalline diamond dies, with an unproblematic performance from manufacturing to refurbishing. Polycrystalline Diamond Dies can be prepared using various grades ranging from 5-25 microns depending on the customer needs in bore size ranging from 0.050-15.00 mm.



Wire Guide Nozzles:

Wire Guide Nozzles also known as Coil Winding Nozzles or PVC Coating Nozzles are used in industries manufacturing coils, relays, transformers and in industries manufacturing sensors for automotives and electrical equipments. These are used on multi-spindle wrapping machines during coil winding for guiding wire to wind in bobbin, pins and other desired material. These nozzles are custom designed to provide perfectly consistent route for enamelled copper wire to coil from reel; as per our customer's requirements.



Pulling-in-Dogs:

Pulling-in-dogs are an accessory to Wire-Drawing process, particularly, Ferrous Wire Drawing. They are used to drag the inlet wire around drawing blocks of machine, until there is an adequate 'wraps' of wire around blocks for the machine to continue feeding automatically. In case desired, Bharat Industries also provides spare-parts for pulling-in-dogs including Jaws, Hooks, Links & Compressive Springs.



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Wire Cutters:

Bharat Industries has an immense experience of over 35 years in providing various types of cutters needed in Wire-Industry. Our expertise extends from:

- **Bolt Cutters** for cutting heavy materials including rods, heavy steel wires, metal bolts, screws, etc.
- **Wire Cutters** are used specifically for purpose of cutting wire.
- **Cable Cutters** used mainly in cutting insulated copper and aluminium cable



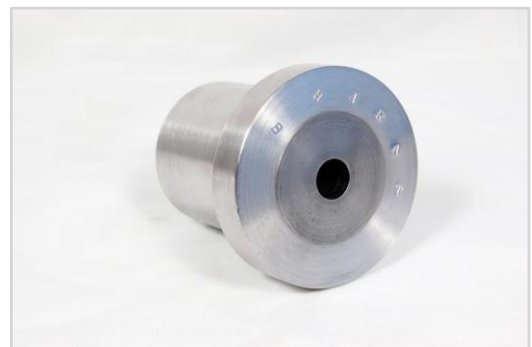
Charcoal:

Bharat Industries has an immense experience of nearly 40 years in production of premium Charcoal Powder & Granules. We prepare Charcoal Powder of excellent quality as per the customer's requirement using the finest selected charcoal woods acquired from reliable vendors. Owing to our enormous experience in the Charcoal-Domain, we have developed a prominent lead over other domestic vendors & emerged as a leading exporter of Charcoal in India.



Extrusion Dies:

Extrusion Dies are used in processes involving pushing of slug through die to generate the desired cross-sectional area. Bharat Industries takes proper care of 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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Stranding Dies:

Stranding Dies also commonly known as bunching dies, compacting dies, or cabling dies, are used in manufacturing compact cable. These dies allow multiple wire strands to come into same die, thereby creating compact-cable. Stranding dies can be used for guiding or moving through and even exit for wire strands while forming compact-cable. We manufacture Stranding dies with different nib materials, including Tungsten Carbide, Polycrystalline Diamond (PCD), and Synthetic Single Crystal (SSD) in sizes ranging from 0.38 mm to nearly 35mm.



Heading Dies:

Heading Dies are typically used in metalworking processes for forming an enlarged "head" on end of any metal rod, which would eventually be used a component of a finished-product. Bharat industries has been an excellent manufacturer of "Heading" die over the years. Initial elements such as core-pins, valve-pins or return-pins are uniquely configured having head on one end for limiting travel or for adjusting components, so that they can be used in final preparation of ejector pins. These initial elements are prepared using heading dies.



Gripper Dies:

Gripper Dies are those dies which are used in making nails in fasteners industries. Coiled wire after being fed in to the nail-making machine is gripped by a pair of gripper dies. The desired shape of the nails is already machined into the end of gripper dies. These dies hold the wire tightly in place, whereas the free-end wire is hit by mechanical hammer, which causes deformation of wire within die-cavity forming head of nail. Bharat Industries has a vast experience of nearly 30 years in preparing Gripper dies.



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Wire Straightening Dies:

Wire cannot be straightened like any-other product due to inherent force and torque-related influences. In preparation of products like welding electrodes, weld mesh and other products, wire is used as primary product,



which has to be straighten from its coiled form prior to usage. **Wire Straightening dies** are used for deflection free drawing of wire for lowering frictional contact while usage in such products. Bharat Industries produces wire-straightening dies in sizes ranging from 1.50mm to 15.00mm as per your requirement.

Microscope:

Bharat Industries provides you range of wire die inspection microscopes, assisting you to maintain stringent quality control standard. Specially Designed BI-15(Monocular Microscope) & BI-25 (Stereoscopic Microscope) help you to examine surface finish along with wear patterns of your dies, thereby playing a vital role in your quality control system.



Carbolap Paste:

Carbolap Paste is most economical Lapping Medium available today for finishing of any hard materials including Tungsten Carbide and other also hardened steels, mainly due to the Boron-Carbide from which this powder is made. Its unsurpassed and rewarding performance outshines all other standard abrasives including aluminium oxide & silicon carbide. It is used extensively in Carbide-industry for production of numerous tools and components and in for finishing and lapping of numerous items.



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Diamond Files:

Diamond Files have a broad-spectrum usage in industries related to gauge, mould and die instruments. Diamond Files are used extensively for grinding harder materials including Tungsten Carbide Rough and Fully-sintered Carbides. Diamond files are available in different grit sizes and different shapes as per the requirement.



Diamond Powder:

Diamond Powder is an abrasive exclusively used for mirror polishing and sizing of Tungsten Carbide, Polycrystalline Diamond and Diamond dies. The two most commonly grades are:

- D3, D7 are used as final finishing grades for achieving mirror polish and final finish on Tungsten Carbide dies, moulds.
- D30 is used as pre-finishing grade for rapid stock removal thereby attaining better uniform finish surface.



Polishing Pins:

Bharat Industries has been engaged in producing Polishing-pins right from the very beginning, giving us an experience of over 40 years in Polishing-pin manufacturing. We manufacture various types of Polishing-pins including Wood & Steel Polishing-Pins and Steel Lapping-Pins for your usage in Die-Polishing. These Pins are recognized as being useful for providing fine polish without altering their shape during polishing procedures.



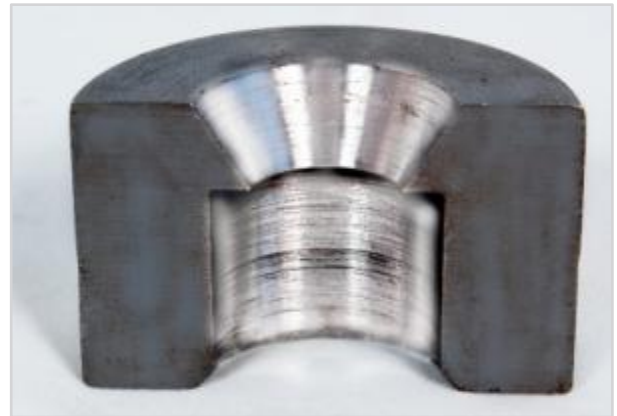
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SERVICES

Wire drawing dies have to always be in perfect condition for producing consistent higher quality wires. The finest wire-drawing machines being operated by skilled personnel having best lubricant and wire material would fail to give good end-product, if the die bore hole doesn't have ideal precision, geometry and surface.

Need For Recutting & Repolishing

The usable life-span of a die depends on the geometry as well as the frictional and thermal loads it goes through while drawing. The finest and most durable hard-metal drawing die and the most compact diamond drawing die is bound to lose its flawless surface and eventually its geometry, mostly forming indents in reduction core/bearing region. A decline in excellence of wire drawn is symptomatic of initiation of wear in die being used. This is a clear sign for substitution of the drawing dies being used on an urgent basis.



Restoring the precision of drawing dies accurately cannot always be carried out within your own die-shop. You need to hire specialists having best working equipment with right working materials and calibrating instruments for the enlargement of diameter to be carried.

Repolishing & Recutting

Bharat Industries provides these essential Repolishing and Recutting services for all types of wire-drawing dies- Tungsten-Carbide, Synthetic Single Crystal Diamond and Polycrystalline Diamond dies.

Wherever feasible and also defects are not severe, the dies are just **Repolished** removing all defects and keeping the original diameter, assuring a longer life-span.

In Certain cases, scratches and defects develop in the cylindrical as well as conical area of the die. **Recutting** eliminates any defects and wear the die might have undergone and also recalibrate the die to new diameter suggested by the client. These services are carried out with the ultramodern technology, ensuring higher productivity and finest wire quality.

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CONTACT US

Experience The BI EDGE!

The Bharat Industries(BI) Competitive Edge, bestows you an advantageous position in the market, assuring you success. Bharat Industries uses the highest quality raw-materials for producing its dies. Bharat Industries assures you highest level of professionalism along with strict tolerances for all products, which eventually means more money in your pocket!

- **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 replacement, helping achieve saving on downtime, labor and nozzle-replacement cost, as our fewer nozzles do MORE!
- **Premium Customer Service:**
For any rush or any clarification about your products, don't worry! Rest assured! We are dedicated to your success, making your job easier!

Contact Us

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