



Wire Guide Nozzles

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

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.



Bharat Industries makes these nozzles from Tungsten carbide as well as from Polycrystalline Diamond(PCD). Coil Winding Nozzles manufactured by Bharat Industries assure you maximum yield and have following advantages:

- ✓ Exceptionally superior rigidity
- ✓ Concentricity as low as 0.01mm
- ✓ Perfect finished wire entrance, bore surfaces as well as wire-exit
- ✓ Dimensions as per your specifications

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Features

- 1. High Wear Resistance:** Tungsten Carbide possesses a very high Hardness value in excess of Vickers 1500, approximately 1.7 times more than that of hardened carbon steel making it perfect material for Nozzles.
- 2. Surface-Roughness:** These Nozzles are surface finished to a roughness of 0.05-1 microns or 2-4 micro inches Ra, which assures least friction-resistance, reduces film damage during wire-insulation as well as provides stable wire tension.
- 3. Concentricity & Stiffness:** These nozzles permit wire to exit concentric to the nozzle within 0.01 mm with or even without load.
- 4. Accurate Exit Radii:** The exit radii of the nozzles determine the angle of wire exit from one coil to the next. This makes it essential to maintain the exit radii to utmost tolerance limit, which is done using the right calibrating instruments.



Technical data

Bore Diameter(mm)	Outside Diameter	Length
0.5-5.00	Customized, Wall thickness Governing	Customized, Aspect Ratio Governing.

The production of these nozzles occurs in our plant assuring you personalized specifications, quicker response for special requirements as well as security of paramount quality. If there is any unique requirement, then you may as well specify wire gauge as well as the nozzle-tip diameter, along with your CAD diagrams(if needed) and rest be assured for having the best wire guiding nozzles for your requirement!