HI-TECH®
SCREW BARREL WORKS
Partner In Your Success

BIMETALLIC SCREW BARREL

Characteristics :

- Hi-Tech Screw Barrel Works utilizes cutting-edge thermal spray **HVOF coating** technology to apply extremely wear and corrosion resistant protective coatings to complex metals components of almost any size or geometry.
- The **High Velocity Oxygen Fuel (HVOF)** thermal spray system produces coating with the strongest bond and highest hardness compared to any other thermal spray process.
- Bimetallic screw barrels are made from a variety of materials, including **super alloys, carbides, borides, and performance alloys.**
- The material used depends on the application, including the compound being processed, temperature, pressure, and heat and abrasion possibility.
- Bi-Metallic Barrel are Superior wear resistance, excellent polishing, centrifugal casting, and high temperature quenching, high temperature resistance.

Application Industries :

- Plastics injection Moulding machines
- Plastics blow Moulding machines
- Rubber extrusion machines
- Cable Extrusion Machine
- Plastics extrusion machines
- Plastics reprocess machines
- Food processing machine
- Plastics film plant and sheet plant machine

Technical Details :

- Bimetallic screw barrels are coated with a protective layer that can be made from more than 20 types of metals. The coating can vary in thickness, from **250 micron to 500 micron per side of screw and 0.025mm to 25mm for the barrel.**
- Bimetallic screw barrels are available in a variety of diameters, ranging from **25mm to 200mm.**
- Bimetallic screw barrels are available in lengths **up to 6 meters.**
- Bimetallic coating on screw completely eliminates the necessity for **chrome plating, flame hardening, or Nitriding,** as the entire screw surface is encapsulated, including the **root, flight sides and flight lands.**
- Full Encapsulation provides the **highest wear and corrosion resistance.** ALL surfaces are completely covered with a **layer of carbide.** Use this option where screw core damage is likely or where corrosive attack is certain.
- **80-90% Bi-metallic Alloy** in a Cobalt or Nickel matrix for ultimate abrasion and good corrosion resistance. Hardness will be **68-71 HRC.**

+91 90990 67240
info@hi-techscrewbarrel.com
www.hi-techscrewbarrel.com

Hi-tech Avenue , Plot No -40 , Panchamrut -3 Industrial Park ,
Village-dhamatvan , Tal.daskroi, Ahmedabad-382445, Gujarat, India