

EXTRUSION SINGLE SCREW BARREL



HI-TECH Screw Barrel Works is the most trusted and leading manufacturer of single screw barrel with latest technology & compact design, to give best quality to his customers. We manufacture screws in different sizes from dia. **14mm to 300mm & length up to 6000mm**. Barrels are available in groove feed type & without groove feed type.

Characteristics :

- ☆ Made from MUSCO grade **EN 41B - 38CrMoALA**.
- ☆ Hardness up to 68HRC in depth **0.6mm**.
- ☆ Superior finish
- ☆ Latest Technology
- ☆ **Bi-metallic Alloy Coating** on screw for better life.
- ☆ Groove feed sleeve is made from HSS material for internal cooling system.

Application Industries:

- ➔ PVC / HDPE Pipe Industry
- ➔ Food Industry
- ➔ Chemical Industry
- ➔ Packaging Industry
- ➔ Rubber Industry
- ➔ Cable Industry

Material Process :

- ➔ PVC
- ➔ LDPE
- ➔ HDPE
- ➔ MDPE
- ➔ PP
- ➔ RP
- ➔ LLDPE

Technical Details :

- ➔ Screw Barrel Made from **MUSCO grade EN 41B - 38CrMoALA**. Hardness up to **68 HRC in depth 0.6mm**.
- ➔ Barrier screws are a way to increase throughput of single-screw extruders and improve melt quality.
- ➔ Medoc barrier screw is used to breakdown particles by forcing materials to over barrier flights, in a similar manner to barrier screws.
- ➔ The use of groove feed in an extruder for higher output & better process stability. It includes the benefits like increased output, reduced melt temperature, improved mixing quality and liner consistency.
- ➔ Groove Feed Barrel also enables higher processing rates with a lower melt temperature.
- ➔ Groove feed in the barrel for processing of polymers like **HDPE, PP, LLDPE, LDPE** etc.
- ➔ Groove feed body is made from **M.S** & housing is made from **EN 8**.
- ➔ Groove sleeve is made from **HSS material** for internal cooling system.
- ➔ Two Types of Groove Sleeve. **(A) Normal Type Groove Sleeve (B) Spiral Type Groove Sleeve**.
- ➔ Hardness of HSS sleeve is **60-62 HRC through vacuum hardening process**.

