



WORKING TOGETHER
OUR CORPORATE VALUES.



OPENNESS



ENTREPRENEURSHIP



PASSION



HAVING KNOW-HOW



INTEGRITY



SERVICES



HI-TECHTM

SCREW BARREL WORKS

Partner In Your Success

Who we **Are?**

22 Years work experience with standard and world wide plastic machinery manufactures company's and after past 8 years we make & Serve to export and pure quality/prise screw barrel for our valuable plastic product manufactures



Our only mission is that our plastic manufacturer family can actually evaluate the market. So they can buy good quality item. We are just enter in the market and screw and barrel related all problem are solve to our valuable plastic product manufacturer . We will always take care of the problems caused by our given item and try the best to overcome these problems



We will keep vision that our customers are completely satisfied with our items. We Serving Just like you think, export quality spare of plastic machinery, The plastic engineer choice Hi-Tech screw and barrel



We make
A screw and barrel for

● **Pipe Plant**

- PVC Pipe manufacturer (U PVC, R PVC, CPVC)
- HDPE pipe manufacturer
- PVC Braided pip plant
- PVC Suction House Pipe
- PVC Soft Tubing Plant

● **Sheet Plant**

- Air Bubble Sheet Plant
- PP Sheet Plant
- HIPS Sheet Plant
- PVC Sheet Plant
- Thermo Forming Sheet Plant

● **Film Plant**

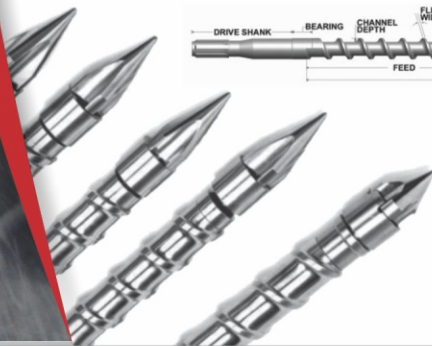
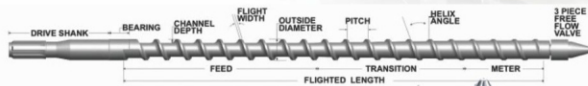
- PVC Film Plant
- Lamination Film Plant
- Blown Film Plant
- Tape Plant
- Multi Layer Film Plant

● **Cable Manufacturer (Any Type of Materials)**

- **Compounding Plant**
- **Injection Moulding Machinery**
- **Blow Moulding Machinery**
- **Foot Machinery**
- **Any type of Plastic Products Manufacturing**

INJECTION MOULDING SCREW BARREL

- We manufacture injection molding screw like plain and barrier screws with out state of the art manufacturing faacilities resulting in high quality and high performance.
- These can be hard faced, nitided with optional hard chrome plating we have all type of screw design available to match your process for LDPE , HDPE , PP, PVC and more.
- We also manufacture all type ring pln plunger sets (torpido material used H-13), barrel head, nozzle., adaptor.



■ EXTRUSION SINGLE SCREW AND BARREL

Hi-Tech Extrusions manufactures single screws and barrels starting from 20 mm to 150 mm screw diameter. Length Up to 6000 mm

Grooved feed barrel

The grooved feed barrel is used for achieving high shear and better transportation of material. As Co-efficient of friction between granules and screw and barrel should be higher to get proper melting of the material it's imperative to have grooved feed in the barrel for processing of polymers of olefin group.

Application :

- LDPE, HDPE, PP Film
- Raffia / Mono Filament application

Barrier screw

The barrier screw design separates melted material from unmelted solid material into separate channels. This unique mixing feature thoroughly homogenizes the melt with little or no increase in its average temperature. Mixing is achieved with an undulating root profile in the metering zone of the screw.

Application :

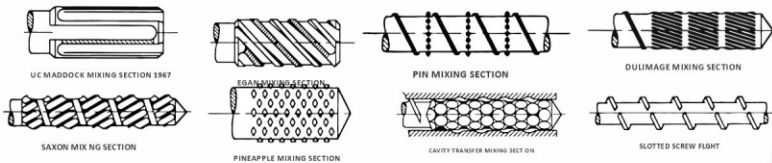
- LDPE/HDPE/PP/Film
- PVC cable
- ABS
- PVC Pipe/PVC profile

Maddoc - barrier screw

Maddoc barrier screw is used to break down particles by forcing material to flow over barrier flights, in a similar manner to barrier screws.

Application :

- HDPE Pipes
- Lay Flat Pipe
- PP film
- XLPE cables
- LDPE Tubing



■ EXTRUSION TWIN SCREW AND BARREL

We also offer twin screw pair which responds anticorrosion & wear resistant with high quality and high performance rate with bimetallic coating
New designed screws developed by us.

We manufacture twin screw pairs and twin barrel of all the well nown extruder making companies.

Application :

- PVC Pipe manufacture (R PVC, U PVC, C PVC)
- PVC Profile manufacture (R PVC, U PVC)

Technical Specifications / Heat Treatment Process

Toughening hardness	: HB 240 to 280
Nitriding layer depth	: 0.4 to 0.6
Hardness of nitride process	: 65 to 72 HRC
Tungsten carbide coating hardness	: 70 to 75 mm
Tungsten carbide coating layer	: 0.8 to 1.5 mm
Plazma or gas nitrided	
PTA melt welding	
HVOF thermal spray coating	
Vacuun hardening D2/M2 Tool Steel Material	
Chrome plating	

■ HOW CAN WE IMPROVED SCREW & BARREL LIFE

■ Bimetallic Screw

Boron & Tungsten Carbide hardfacing protect screw against Abrasion & Corosion
Suitable machine :- injection/extrusion/blow

Process method :- PTA Spray

Description : by spraying high qulity imported alloy powder on screw flight with layer thickness 1.5-2.0 ,we can get higher performance in both wearing & corrsion resistant performance with bimetallic screw

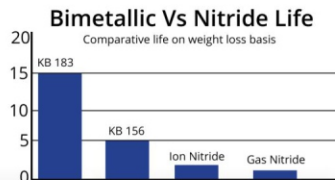
Application :- Common plastics & engineering plastics with below 15 % glass fiber filling

Surface hardness :- 58 - 64 HRC Up to 0.5 to 0.6 mm depth

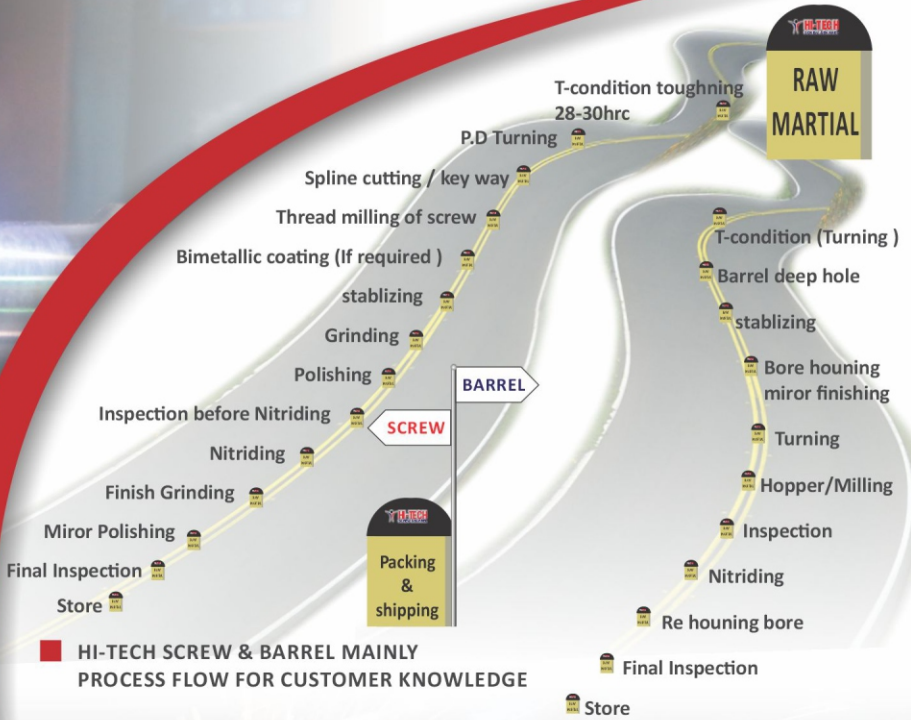
Specialist in wear resistance products & solutions

Polymers can be used : Minerals, Glassfibers, Pigment, Carbon fibers

■ Bimetallic barrel



Screw and barrels processed with bimetallic alloy hardface coating have many virtues, such as high hardness, stronger wear & corrosion resistance. Its general properties are three to fifteen times more compared to the nitriding steel. They are wildly used for highly abrasive & corrosive materials like engineering polymers and pvc compounds. The main machining methods are as follows: spot spray, spray coating, cover coating, mould, butt welding etc. The bimetallic process used in world as advanced technology for better life with consistent production and quality. It is the best choice for production special screws. Polymers can be used : Minerals, Glassfibers, Pigment, Carbon fibers



HI-TECH REBUILDING/REPAIRING OF SINGLE & TWIN SCREW BARREL



Screw and barrel combination of these two parts the quality of work, the plastics materials, products quality and production efficiency, have a significant impact. Their work quality and accuracy of two parts manufacturing and assembly space related. When the 20 were badly worn extruder output decline, they should be arranged on the screw, barrel maintenance.

We are a premium quality screw barrel manufacture & exporter
with under the experienced engineers

The Revolution Is Here

The Taste Of Success

We are Committed



We Can Handle The Pressure

Satisfy Your Needs

We Work Best When We Work With You

HI-TECH SERVICES

We serve following service all over the world

- Screw design and mixer patented
- Retrofitting projects
- OEM replacement
- Bimetallic hard facing coatings & Linings
- Rebuilding & Refurbishing services with inspection
- At sight drawing service
- Erection and installation
- Turnkey project for extrusion lines



www.hi-techscrewbarrel.com
www.bimetallicscrewbarrel.com

📍 **OFFICE & FACTORY :**
HI - TECH AVENUE, Plot No. 40,
Panchamrut - 3 Ind. Park,
Village Dhamatvan, Tal. Daskroi,
Ahmedabad - 382435
(Gujarat) INDIA

✉ info@hi-techscrewbarrel.com
✉ sales@hi-techscrewbarrel.com
✉ dphitech@gmail.com

📞 **Cell + 91 - 90990 67240**
98795 83066