



TWS FEEDSCREW & BARREL ENGINEERS

www.tws-ltd.com



**Serving the Plastics, Rubber & Feed Industries
with parts & repairs since 1983**

New Screw Manufacture



TWS manufactures feed screws to be a direct replacement for your worn, damaged OEM parts, our manufacturing capabilities range from 20mm Ø up to 180mm Ø.

Our standard screws are manufactured from EN41B nitriding steel, we also offer high wear resistant bimetallic screws & speciality coatings are available, hard chrome plating, armoloy & tungsten.

New Barrel Manufacture



- Extrusion
- Injection Moulding
- Blown Moulding
- Compounding
- Recycling
- Cable Industry

TWS manufactures barrels to be a direct replacement for your worn, damaged OEM parts. Our barrels are either made from EN41B nitriding steel or from a selection of high quality bimetallic blanks.

Size range from 18mm Ø up to 450mm Ø & over 6 metres in length.

- EN41B Nitrided barrel general purpose applications.
- TWS 100 Standard bimetallic lining suitable for lightly filled materials.
- TWS 200 Bimetallic lining offering corrosion & abrasion resistance.
- TWS 800 Superior bimetallic lining for maximum corrosion & abrasion resistance.

Screw Refurbishment



When refurbishing screws we can also renew or add additional surface coating e.g.

- Nitriding
- Hard Chrome plating
- Extrusion

TWS has been refurbishing screws for over 30 years & can comfortably refurbish up to 450mm Ø & 6200mm in length.

Screws in most cases can be refurbished quite a number of times, we currently refurbish screws in either Stellite 6, 12, 1 & Colomony 56. Corrosion resistant hastelloy screws can be refurbished with a C276 alloy.

Barrell Refurbishment



TWS can refurb most types of barrels used in the plastics, rubber & feed industries, sizes range from 25mm Ø up to 250mm Ø & over 6 metres in length.

This process is one of the most cost effective ways of getting extended life from your screw & barrel, this involves honing the barrel parallel to remove wear, this makes the barrel oversize. In doing this the screw also has to be refurbished bringing tolerances between screw & barrel back to their original standard.

Partial barrel re-sleeving

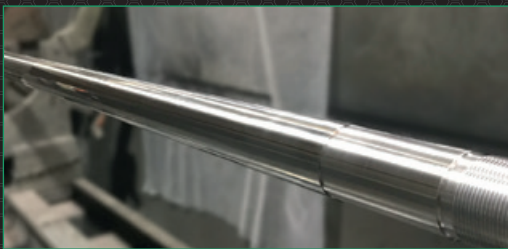
In certain circumstances barrels can have a partial re-sleeve, we do this by boring out the worn end of the barrel & then inserting a new short piece of barrel section, this can be done up to 5 x Ø of the barrel bore.

- Nitrided EN41B
- Bimetallic
- H13 through hardened

This process is commonly used to refurbish injection moulding barrels, but can be also be applied to any other type of barrel.



Tie Bars



Broken tie bar repair is one of TWS's specialities, we can repair tie bars up to 350mm Ø & over 6 metres in length. The main advantages of repair are the cost saving & the lead time.

The chrome on tie bars can be repaired if not severely scored. New tie bars can be manufactured, we can offer new chromed tie bars from 40mm Ø up to 250mm Ø & over.

- Tie bar repair
- Tie bar chrome repair
- Tie bar nut repair or new
- Chromed tie bar manufacture

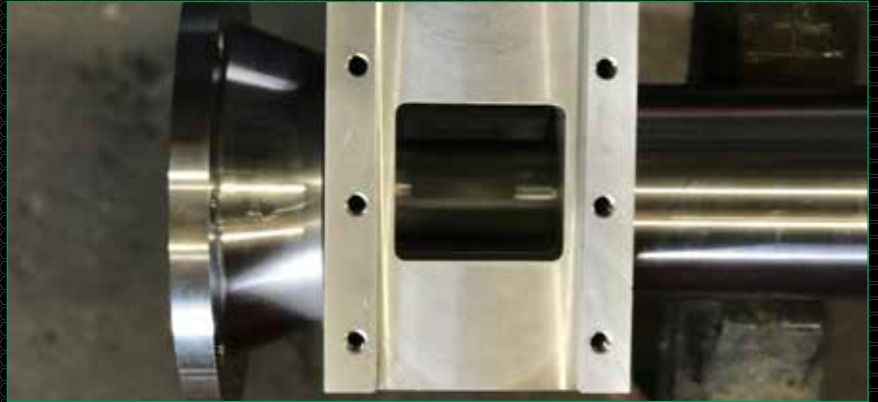
Feed Housing & Liners



TWS can manufacture feed liners to be a direct replacement for the OEM part, as with all parts used in the processing of plastics & rubber they can wear which can severely reduce the optimum performance of your extruder.

- Nitrided or Bimetallic liners
- Plain or grooved
- Complete feed housing with or without water cooling
- Feed housing re-sleeves

Ancillary Parts



TWS can manufacture most ancillary parts in the process for plastics, rubber & feed.

- Screw tip assemblies
- Breaker/Die plates
- Nozzles
- Mixing noses
- Barrel end caps
- Barrel clamps



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