

Performance Screws

with standard diameters ranging from 25mm to 200mm (1" to 8")



Performance. Productivity. Dependability.

Do you require these features in your Screw? With over 70 years experience, only Telford Smith Engineering has the resources, talent, imagination and advanced equipment to deliver them. We manufacture replacement screws, as well as recondition your existing screws, for injection moulding, blow moulding and extrusion.

The Screw is the heart and soul of the machine determining its plasticising capabilities.

Today's standards for Extruder output and extrudate quality are so advanced that no longer can one screw design be optimum for all materials and extrusion products. Each screw must be tailor made to suit the application for which it will be used. We continuously liaise with resin suppliers and screw design modellers to keep us at the forefront of screw technology ... far and ahead of our competition.

We have established our name, which is synonymous with quality, as well as an invaluable database of reference material. Telford Smith provides conventional screw design tailored to your output and quality requirements, covering the full range of thermoplastics from Vinyls to Elastomers.

Telford Smith provides the best screw for your product individually designed to obtain the proper balance between high output and quality homogeneous melts. The best screw may even be one of the Telford Smith's designed special application screws such as maddock mixing screws, 2-stage screws for vented barrels or even our barrier screws.

Telford Smith are consistently on the leading edge with High Performance Plastic Extrusion Screw Designs to maximize machine efficiency and product quality.

Extrusion

Telford Smith Engineering is the largest and by far the oldest manufacturer of extrusion screws in Australasia. Our designs cover all facets of the extrusion industry from thermoplastics to natural and synthetic rubber. We have a 70-year plus record in this industry from which we have built up significant data, soundly based on experience and results.

Screw construction is hard faced, nitrided or hardened & nitrided, for highly abrasive materials we can supply screws with Tungsten carbide coatings on the flight flanks and core diameters, or in the case of highly corrosive polymers such as Fluoro polymer, a Duranickle based screw is offered.

Designs are available for single flight metering screws, single barrier screws, double barrier screws, variable pitch flights, multi start flights and slotted flights. Two stage screws for vented extruders are also offered. Mixing sections, the more common of which, include Maddock (spiral or straight), Hoechst, dulmage, pinned, pineapple or combinations of these designs are available.

Injection Moulding

We manufacture screws for both thermoplastic and thermosets, standard metering design or QLT for improved melt homogeneity and mixing. These can be hard faced, nitrided or hardened and nitrided with optional hard chrome plating.

Whether you are manufacturing containers for packaging, duct joints for air conditioning or automotive components, we have a screw design available to suit your process for LDPE, HDPE, PP, PVC and more.



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TSE Range of Products:

Screws	Single Screws Twin Screws Screw Tips
Barrels	Bi-metallic Barrels Bi-metallic Twin Barrels Nitrided Barrels
Repairs	Screw and Barrel Repairs Tiebar and Toggle Repairs Complete Machine Repairs
Extruders	Single Screw

