



Total Plastics utilizes a diverse combination of both CNC and manual equipment to provide quality machined parts in a wide variety of material formulations. Requirements that call for standard or tight tolerances, basic or high performance materials, or small or large quantities are fulfilled by the capabilities of Total Plastics' AS9100B & ISO9001 certified facilities.

Turning operations are handled by skilled machinists, with extensive experience in machining. TPI only uses state-of-the-art equipment and can fulfill your need for any required precision component. Since TPI machines plastics only, tight tolerance parts such as bushings, bearings, gaskets, spacers, seals and rollers can be provided without the risk of contamination.

Milling and routing operations utilize the strengths of several Total Plastics facilities. Matching part size, shape and quantity with the capabilities of the proper location means parts such as wear pads, fixtures, manifolds and guides are produced in the most efficient and economical manner. Whether your need is for tight tolerance milling or simple cutting processes, large or small parts, stock shape or cast blank conversions, each Total Plastics location offers a different machining advantage.

### Machining Services & Advantages Over Molding:

#### SERVICES

- Assembly
- Cutting
- Drilling
- Milling
- Multi-Head Drilling
- Planing
- Polishing
- Routing
- Turning
- Welding

#### ADVANTAGES OVER MOLDING

- Lower Tooling Costs
- More Design Flexibility
- Closer Tolerances
- Faster Delivery
- No Gate Scars
- Low Stress, Less Part Distortion
- No Weld Lines
- Uniform Structure, No "Skin"
- Requires No Draft Angle
- Better for Heavier Cross-Sections

### Machinable Materials:

- |              |                 |           |
|--------------|-----------------|-----------|
| • ABS        | • Noryl®        | • PVC     |
| • Acetal     | • Nylon         | • Teflon® |
| • Acrylic    | • PEEK®         | • Torlon® |
| • Celcon®    | • Phenolic      | • UHMW    |
| • CPVC       | • Polycarbonate | • Ultem®  |
| • Delrin AF® | • Polyethylene  | • Vespel® |
| • Delrin®    | • Polypropylene |           |
| • Kel-F®     | • Polystyrene   |           |
| • Kynar®     | • Polysulfone   |           |

