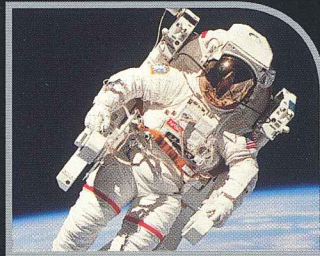


PERMANENT MOLD ALUMINUM CASTINGS



COST YOU LESS YET GIVE YOU MORE

The Permanent Mold process is the best choice for all of your casting needs. A permanent mold will provide you with a corrosion resistant, strong, attractive and cost effective product.

HIGHER PRODUCTION RATES:

The mold doesn't have to be re-made each time- it's permanent! That's why higher production rates are possible.

LOWER LABOR COSTS: Higher production rates means that productivity is increased. Increased productivity results in lower piece price.

WEIGHT REDUCTION: The higher strength properties produced by the permanent mold process permit castings with thinner walls. The resultant weight savings ultimately means cost savings — both material costs and shipping costs.

LOWER MACHINING COSTS: Closer dimensional tolerances made possible by permanent mold castings and the option of casting inserts such as studs, threaded steel inserts, nuts, bushings, and tubing into the casting minimize required machining.

SMOOTHER SURFACE FINISHES:

Smoother surface finishes, typically 125 to 300 rms, reduce polishing costs.

SOUNDNESS: Of the three basic types of castings- die, sand, and permanent mold- permanent mold gives the soundest casting overall.

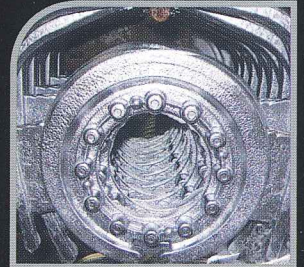
STRENGTH: The chilling effect of the metal mold produces fine grain structures which significantly enhance strength properties. Elongation is 50%-100% greater and other mechanical properties are from 20%-25% greater than with sand castings of the same alloy. Heat treatment further enhances those properties.

LOW POROSITY: Permanent mold castings are less susceptible to gas entrapment than are sand and die castings.

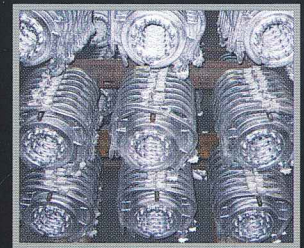
MINIMUM SHRINKAGE: Shrinkage resulting from the permanent mold process assures a minimum of variation from the intended casting design.

DURABILITY: Because of finer grain structures, lowest possible gas porosity, and minimum shrinkage, permanent mold castings are the best bet for years of dependable service.

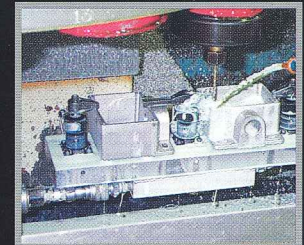
WHY CHOOSE PERMANENT MOLD ALUMINUM CASTINGS?



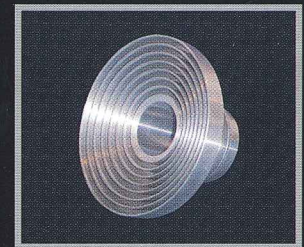
Nut Ring with Gate and Riser



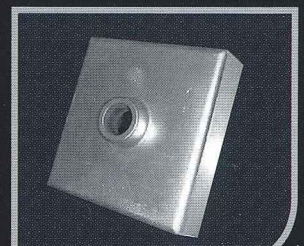
High Production Rate



Add Value with Machining



Precise Casting



Smooth Surface Finish