

# OLSON

ALUMINUM CASTINGS

Quality Aluminum  
Castings Since 1945



9001:2000  
REGISTERED



# Olson Aluminum Castings

## Pressure tight and leak free castings

Total customer returns for porosity related defects within the last three years are less than 1/10th of 1 percent.



Olson Aluminum Castings specializes in high integrity, pressure tight and leak free castings. A proprietary alloy cleansing and degassing technique is

utilized to remove harmful contaminants known for creating hard spots, shrinkage, gas porosity and sub-standard physical properties. Attention to pattern design, layout and optimum solidification model assures a tradition of success.

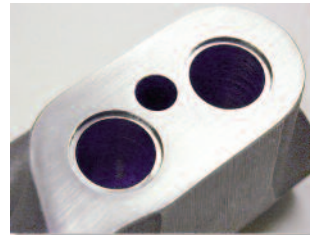


Quality parts start with quality aluminum

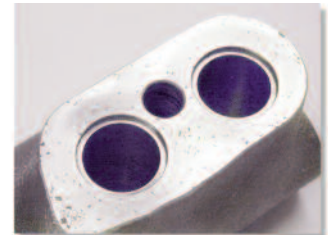


Mechanized Cope & Drag Lines

## Machined Surfaces

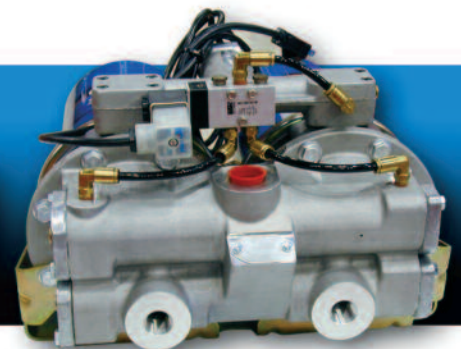
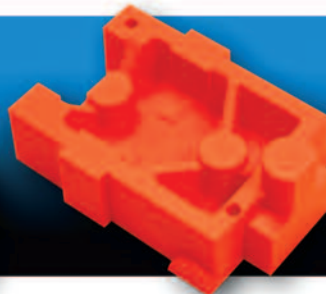


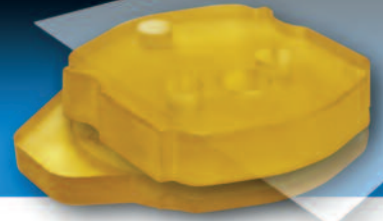
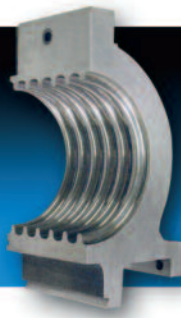
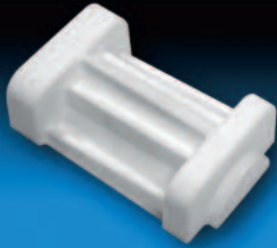
Olson Aluminum Casting



Competitor's Casting

"Machined Surfaces" shown in these examples contrast the solid metal integrity consistently achieved by Olson Aluminum and a typical example of what passes for acceptable quality in much of the casting industry.





# Specialties

## Superior Surface Finishes

Our "Petro Bond" green sand mold processing assures consistent mold compaction producing exceptional cast surface finishes and aesthetic qualities.

In addition, our surface finish provides a superior base for secondary processing such as powder coating, plating, anodizing, zinc plating or traditional wet painting. Olson Aluminum will provide exceptional cast surfaces typically exhibited in investment castings.



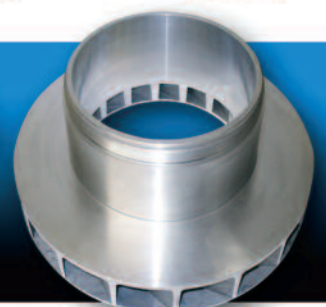
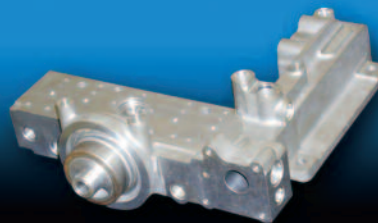
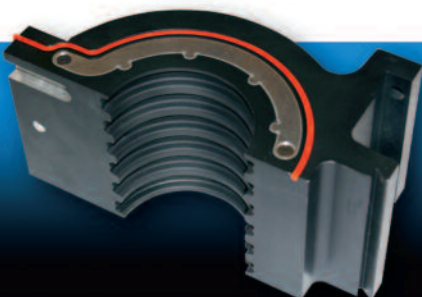
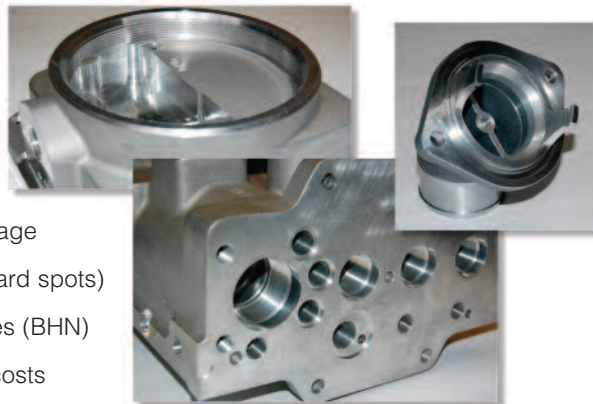
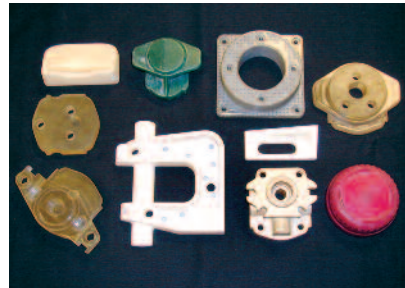
## Superior Machining Characteristics

Chemical property requirements for incoming aluminum ingot combined with programmable controlled in-house heat treating produces consistent T6 heat treatment results assuring consistent brinell hardness (BHN). Consistent material hardness and alloyed ingot improving internal grain structure is critical to producing the superior machining characteristics described below...

- Extended tool life
- Superior micro surface finishes
- Improved dimensional control
- Improved machine cycle times
- Ability to utilize diamond tooling
- Elimination of porosity and shrinkage
- Reduction of aluminum oxides (hard spots)
- Consistent Brinell Hardness values (BHN)
- Reduction of burrs and removal costs

## Prototype Castings and Design

We provide customers with prototype programs for challenging casting requirements, assuring successful designs and timely pattern start ups.



# Our Commitment to Quality

## Tradition of Quality and Integrity

A history of supplying demanding industries including...

Hydraulics	Pneumatics	Fluid Controls
Valves	Communications	Gear Boxes
Power Tools	Industrial Controls	Construction
Instrumentation	Off Road Truck	Railroad
Electric Motors	Machine Tools	Recreation
Power Transmission	Medical	Lab Equipment

Our foundry is ISO 9001:2000 registered, demonstrating our commitment to high industry standards in efficiency, operational controls and manufacturing processes.

## We routinely excel in the following:

- Pressure tight and leak free castings
- Exceptional machine-ability
- Superior surface finishes
- Cutting edge production lead times
- Envious quality and PPM ratings
- Prototype casting development

We welcome you to share in our success and invite you to make an informed and educated decision as to whom you should entrust the success of your casting program.



*We work toward one goal, "a timely and successful project implementation".*



Member  
American Foundrymen's Society



# OLSON

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EST. 1945

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