

# TITANIUM CASTING FACILITY

**CLIENT:** Precision Castparts – Titanium Plant  
**LOCATION:** Portland, Oregon

Evergreen oversaw all project phases, including architectural, structural, mechanical, and electrical engineering disciplines.

**Phase 1** - 58,000-square foot conversion of a telephone equipment manufacturing facility to a Titanium Investment Casting Facility. Included all functional areas.

**Phase 2** - 28,800-square foot concrete tilt-up addition to Phase 1 building. Addition included investing dip, investing drying, investing sand storage vault, baghouse, kaowool, investing wax, tool/die areas, mechanical mezzanine, and 7,200 square feet of second level offices served by a new elevator.

**Phase 2A** - Two pre-fabricated metal building additions to rear of Phase 1 building. 7,500-square foot foundry/heat treating addition and 2,400-square foot receiving building with concrete loading ramp.

**Phase 2B** - Entry, façade, first/second level office, and restroom modifications totaling 4,800 square feet. Project involved panelized sheet metal/louvered entry façade with matching exterior exit stair turrets.

**Phase 3** - 46,800-square foot concrete tilt-up addition to Phase 1 building. Additions included shipping, inspection, welding, grinding, marking, restrooms, first aid, offices on the first level, and 14,400 square feet of offices on the second level. A two-story concrete tilt-up addition was also adjacent to the Phase 3 main addition. Each floor was 625 square feet and held process support mechanical equipment.

**Phase 3A** - 7,300-square foot pre-fabricated metal building extension to Phase 2A buildings. Added Titanium Furnace Room and Foundry Annex. Project also included a 300-foot-long by 6-foot (average height) concrete retaining wall to create a fire lane at the rear of the building and three new cooling towers.

**Phase 3B** – 352-square foot modification to Phase 3 building to create a new personnel cleaning shower/locker room. Included monitoring of radioactivity levels and personnel area zoning control.

**Phase 4** - Modification of 9,060 square feet of Phase 1 building to create small parts cells. Cells included salvage/grinding, welding, and x-ray areas. Project also included the creation of a 256-foot by 10-foot fire-rated exit corridor connecting the Phase 2 and Phase 3 additions.

**Phase 4A** - Inter-tie of boilers installed in Phase 1 and Phase 3.



**EVERGREEN ENGINEERING**

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