



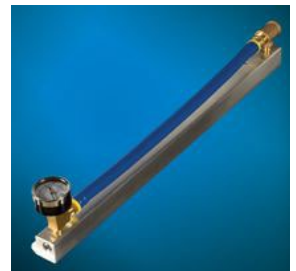
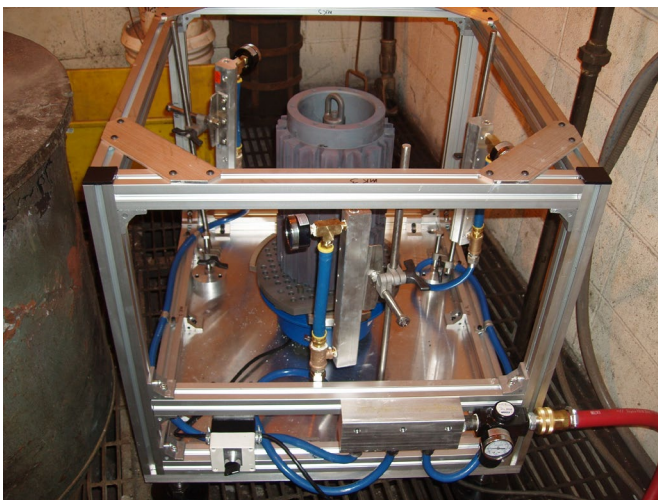
APPLICATION GOAL: To decrease the cooling time of heat-treated tooling after it was removed from the furnace.



BEFORE EXAIR: Customer was using (3) 24" (610mm) industrial shop fans to cool the tooling piece from 1,725°F to less than 600°F. The engineer's intent was to provide a turntable system to rotate the part, while blowing it with a greater volume of air, to effect faster cooling. The fans needed almost a half an hour to cool the part to 600°F, and their goal was to reduce this to 20 minutes or less.

AFTER EXAIR: The customer designed and fabricated the cooling system using three [Model 110012 12" \(305mm\) Aluminum Super Air Knives](#), equipped with [Model 9060 Universal Air Knife Mounting Systems](#), and [Model 9076 Air Knife Plumbing Kits](#), as shown below.

The resultant total air flow of 4,176 SCFM from the 104.4 SCFM consumed by the 3-unit system provided better-than-anticipated results, by cooling the tool to 200°F in about 20 minutes. Not only did this meet their operational goal, but it also provided for safer handling of the parts by their operators.



Customer's cooling system (*left*), comprised of EXAIR Super Air Knives, Universal Mounting Systems (*above left*) and Air Knife Plumbing Kits (*above right*).