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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 <u>almost a half an hour to cool the part to 600°F</u>, 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).