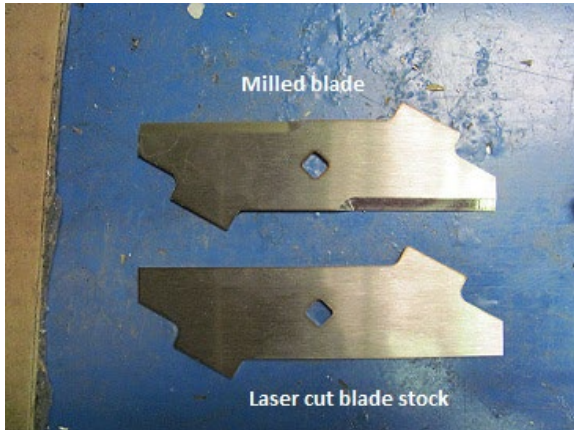




APPLICATION GOAL: To provide cooling on a milling operation which is being run dry to protect the integrity of a food grade 400 series stainless steel blade product.



BEFORE EXAIR: The blade manufacturer eliminated any oils and lubricants from the process because it caused a secondary cleaning operation, increased the time to manufacture each blade and increased manufacturing costs. They switched to blowing open line compressed air on to the blade to provide some cooling. This process did improve the milling operation by removing some heat but they still saw premature tool wear. The open air line was also loud and consumed a great deal of compressed air.

AFTER EXAIR: This customer installed a [Model 5330 High Power Cold Gun](#) with two cold outlets on to his milling operation. The two cold outlets were positioned to blow cold air on to each side of the tool and on the blade to remove heat. They were able to continue milling without any coolant or lubricant but with enhanced results over the open blow-off. They were able to increase the speed of their operation by 20%, thus increasing production. They achieved a 30% increase in tool life, contributing to lower manufacturing costs. And, they also realized the benefit of decreasing the noise compared to the old style open blow-off.

