



FUSS & O'NEILL

Manufacturing Solutions, LLC
 "Enhancing Productivity"

Motor Cooling Fans – Accessibility

Equipment Name: Motors

X	Basic Skill
X	CounterMeasure
X	Accessibility
X	Safety
X	Mistake Proofing
X	Productivity



Mazak CNC Chucker

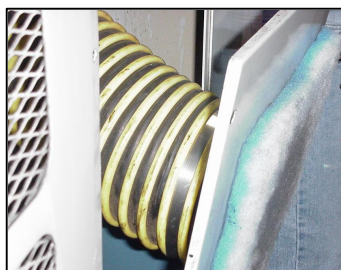
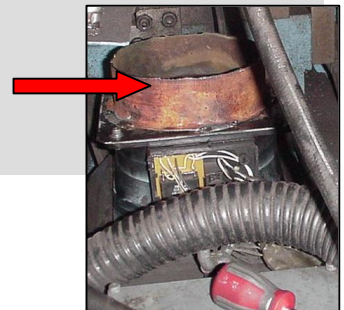
Large horsepower drive motors, require air blowers or fans, to cool them, eliminating overheating and providing more horsepower. By extending the filter to the outside of the enclosure, we allow cooler, clean air to enter the motor, and the filter can be visually inspected daily. With a filter blanket it can also be changed very easily. This will extend the life of the motor tremendously. Motor rebuilds can cost up to \$8,000 or more, in this size/range of motor..



With the fan on the inside of an enclosure, it draws dirty, hot air directly into the motor. This leads to accelerated deterioration of the motor.



As you can see, at the left, the motor fins, designed for maximum cooling, are plugged solid with dirt. After cleaning, the hose adapter is made and installed.



Flexible hose is run from the fan to the outside wall of the enclosure. Filter material is then velcro attached to the outside. It is now very visible to the operator, to inspect on a daily (notice the inspection #10) basis. If the filter blanket material is located nearby, it is easy and quick to change.

