



CAPACITALK™

MYRON ZUCKER INC.

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No. 103

A Letter to CAL (Blowing Fuses During Machine Setup)

Dear CAL,

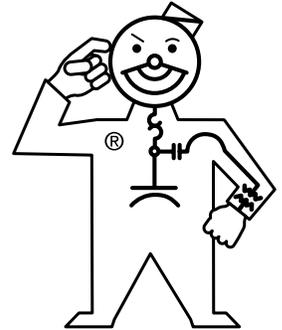
I work for a major machine tool manufacturer. We use Myron Zucker, Inc. Calmount capacitors on each of our motors.

While we are setting up the machine to test, we sometimes have a problem with blowing one or more of the fuses in the capacitor unit.

Are we doing something wrong?

Signed,
"Confused in Connecticut"

I can help!



Dear "Confused,"

Thank you for using Myron Zucker, Inc. **Calmount**® brand capacitors.

What you are experiencing is not uncommon in the machine tool industry.

First, we will break down what is happening when you are setting up your machine for testing. More than likely, you are checking for the rotation of your motor. You are probably energizing the motor circuit very quickly once or twice to see which way the motor is rotating. When you do this, the capacitor is being charged and recharged very rapidly. The capacitor has not had time to fully discharge before being recharged.

During this process, the capacitor is being energized at one point of the voltage sine wave, and then, with no time to discharge, the capacitor is recharged at another point on the voltage sine wave. This creates a very large inrush current to the capacitor.

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