

ENERGY ASSESSMENT AND RECOMMENDATIONS

ABOUT C S PRECISION MANUFACTURING, INC. C.S. Precision Manufacturing, Inc., is a family-owned business in Gering, Nebraska, founded in 2000 with 3 machines and 12 employees. The company's primary line of business is in manufacturing hydraulic fittings and couplings for a variety of applications ranging from oil fields to agricultural uses. Most of the fittings are machined on either a multi-spindle or CNC lathe. The company goes through about 100,000 pounds of steel per week, while producing about 70,000 individual pieces per day. C.S. Precision is located in a 65,000 square foot facility in Gering Nebraska and currently employs approximately 70 individuals.

THE CHALLENGE. When meeting with the staff of the Nebraska MEP, part of the MEP National Network™, C.S. Precision discussed being interested in continuous improvement strategies that could result in cost savings, or cost avoidance. The Nebraska MEP informed C.S. Precision of the energy assessment capabilities available through the MEP and the College of Engineering at the University of Nebraska - Lincoln. Scott James, president of C.S. Manufacturing thought that this was something that could be beneficial and felt there was room for improvement that just needed to be identified and quantified. Arrangements were discussed and made to have their Gering facility reviewed by the energy assessment team.

MEP CENTER'S ROLE. A team from the College of Engineering, under the leadership of Dr. Robert Williams, reviewed C.S. Precision's Gering facility looking for ways to improve the plant's energy efficiency. The team spent a full day reviewing the facility for areas where energy savings could be found such as air leakages, lights and motorized equipment in use. Additionally, the team reviewed the company's energy use history. Upon completion they put together a multi-page report which was presented to C.S. Precision's leadership team for review with recommendations to consider. After their review, the leadership team implemented a number of recommendations to improve the company's efficiency.

"The strategies and energy assessment we received from the College of Engineering and Nebraska MEP at the University of Nebraska-Lincoln helped provide tangible improvements at C.S. Precision."

-Scott James, President

RESULTS



New investment of **\$30,000** on a new air compressor and \$10,000 on lighting.



\$5,000 in cost savings through using the services of the Nebraska MEP and College of Engineering.



\$2,000 per year in reduced labor, materials and energy costs by

CONTACT US



University of Nebraska-Lincoln
3 Agricultural Communications
Building, 3625 East Campus
Loop South
Lincoln, NE 68583-0939



(402)472-5993



nemep.unl.edu

