



Fig.11. Schematic representation of proposed indenter point.

Alternatives to conventional hardness test procedures should be considered such as one based on fig.11. A secondary use of that device would be to assess toughness of shot particles. The device could be employed by monitoring the drop height needed to fracture particles.

Finally, it appears obvious that hardness measurement variability is unavoidable—even with the most careful application of existing specified procedures. ●

# Clemco Goes Green

**CLEMCO INDUSTRIES** has received a \$47,348.12 incentive from Ameren Missouri's BizSavers® program. Ameren Missouri is an American power company. It covers 64 counties and more than 500 communities including the greater St. Louis area. The incentive was presented to Clemco following extensive energy-efficiency renovations to the company's international headquarters located in Washington, Missouri.

"This is a great energy saver for us," said Mark Buersmeyer, Clemco Maintenance Manager. "The Ameren Missouri BizSavers team was easy to work with during this nearly yearlong process. We are now running a "greener" operation, which not only helps Clemco, but also the environment," he added.

Improvements to Clemco's office and manufacturing plant included replacing all interior lighting with highly energy-efficient LED lights, as well as replacing the majority of the facility's exterior lighting with LED lights. In its plant, Clemco replaced 268 high-bay fixtures, 114 ceiling-level fixtures, and 37 flat-panel fixtures. In the front offices, 670 lights bulbs were installed.

This new lighting will save Clemco an estimated \$32,700 a year in electrical costs, which likely means a complete return on the company's \$79,000 investment in 2.4 years. This translates into a savings of more than 348,000 (kWh) annually, which is equivalent to powering 43 average US homes for a year.

"Our BizSavers energy-efficiency program helps commercial and industrial customers reduce the cost of upgrading to more energy-efficient equipment," said Rich Wright, Manager, Ameren Missouri Energy Efficiency. "Companies like Clemco benefit by saving on the upgrade cost today and saving on energy costs for the life of the equipment." ●



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Representatives from Ameren Missouri present the incentive check for Clemco's energy-efficiency renovations.