

# Application Note

## Measurement Solution for Can Punches & Dies



### Benefits

- Ease of use—place part to be measured, select program and library, select start.
- High accuracy—depending on the sensor used, you can achieve up to 0.000013 in. repeatability on punches and dies up to 4 in.
- No mastering or field calibration required.

**Contact Beta LaserMike to discuss  
your measurement application**

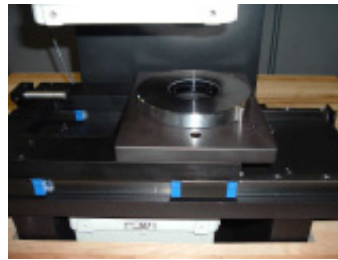
**Z-Mike**<sup>™</sup>  
by BETA LaserMike

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### Understanding the application

Punches and Dies are used in the manufacture of aluminum cans. Over the years, manufacturers of these cans have been able to significantly reduce the wall thickness of cans by being able to better control the sizes of their punch and die sets. In order to measure a punch properly, you must be able to measure the diameter at various locations as well as taper.

### Understanding the equipment



There are two elements to this application: Punch Measurement and Die Measurement. The punch rests on two 0.38 inch centerless ground shafts that create a v-block cradle assembly. The die sits on a precision fixture plate. Both punch and die fixture are attached to a programmable linear table.

The operator places either the punch or die onto the fixture. He selects the proper program and library and presses start. The linear table automatically positions the part, takes the measurement, and continues on to the next location. When measuring the die, the stage moves the center of the die across the scanner to capture the measurement.

All values reside in the PrecisionPro 6000 or can be transmitted via RS-232 to a printer, PC, or data collection device.

### Equipment Used:

- PrecisionPro 6000 Multi-dimensional Processor
- PrecisionScan 4120HP Laser Dimension Sensor
- Linear Table with Motion Controller
- Special Can Punch and Die Measurement Fixture

Visit our web site @ [www.betalasermike.com](http://www.betalasermike.com)

**When the quality of your measurement is as important as the quality of your product.**