

# GEOMETRY TOLERANCE TESTING

## Task

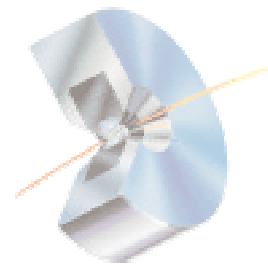
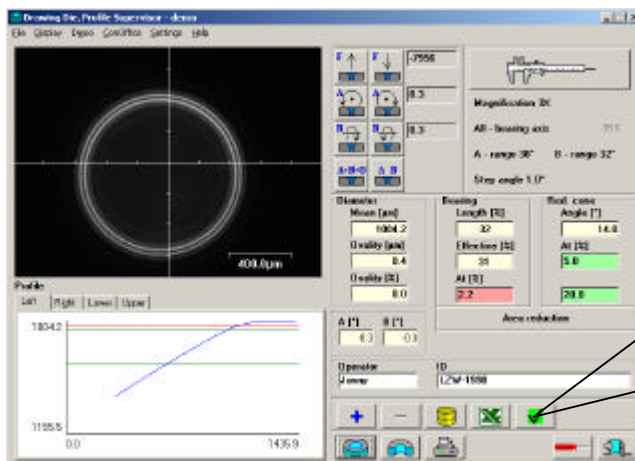
In a drawing die production and recutting environment, the geometric parameters of the dies must be measured several times during production. Parameters such as diameter, bearing length and reduction cone angle are important. The measurement system must be fast, flexible and accurate, giving detailed results. It is important to provide simple conclusions as well: Is the die good or bad?

## Solution

Conoptica delivers fast and accurate measurement systems for the wire and cable industry. All relevant geometric parameters of the drawing tool can be extracted. They can be tolerance tested and combined into simple tests. For example, if the bearing, blending and reduction angle lie within certain bounds, the die is Accepted. Otherwise it is Rejected. These tests can be saved for later use. Several different tests can be defined if the demands vary along the production line. For large volumes this can be combined with an Automated Die Feeder and Sorter.

## Benefit

With an automated tolerance test, the operators only need to select a predefined test, and then watch the result of a check after each measurement. This reduces the need for highly skilled operators, and also reduces human errors during routine testing. Die quality is improved. Since the die is evaluated by the measurement system instead of the operator, measurement speed also increases.



Accepted



Rejected

## Step by Step

- Select a predefined tolerance test.
- Place a die on the table and measure it.
- If the die meets the specified criteria, the Tolerance Button indicates Accepted by turning green. Otherwise, the button is red.
- For detailed information about the test results, press the Tolerance Button.