

AUTOMATED DIAMETER MEASUREMENT

Task

In a drawing die production facility the need for diameter testing, sorting, and documentation is paramount and time consuming. Diameter testing can be costly in terms of time, labour costs and test equipment. In order to increase production volume, reduce production cost, and improve the quality of the finished product the wire and cable industry needs to improve these processes.

Solution

Conoptica delivers an Automatic Die Feeder & Sorter (ADFS) that combines with a measurement instrument to make up a powerful team. Dies are fed one by one into the instrument from input tubes, automatically measured, and then sorted according to measurement results. The ADFS can be combined with the Conoptica Electro-Optical Frames CU4 or CU5 for diameter and ovality measurement, or CU10 to also test the profile data (reduction angle, blending radius, bearing length, etc.).

Benefit

A Conoptica measurement system gives substantial efficiency gains compared to other methods. Automating it with ADFS takes full advantage of these gains by freeing up personnel resources for other tasks and eliminating human handling mistakes.



Step by Step

Typically a batch of dies is processed like this:

- Fill input tubes with dies and insert them in the ADFS
- Choose sorting options
- Click the start button
- While the dies are measured and sorted, and data are automatically saved in a spreadsheet and/or database, the operator is free to prepare the next batch of tubes or to perform other tasks.