CAD ASSISTED SHAPED DIE MEASUREMENT

Task

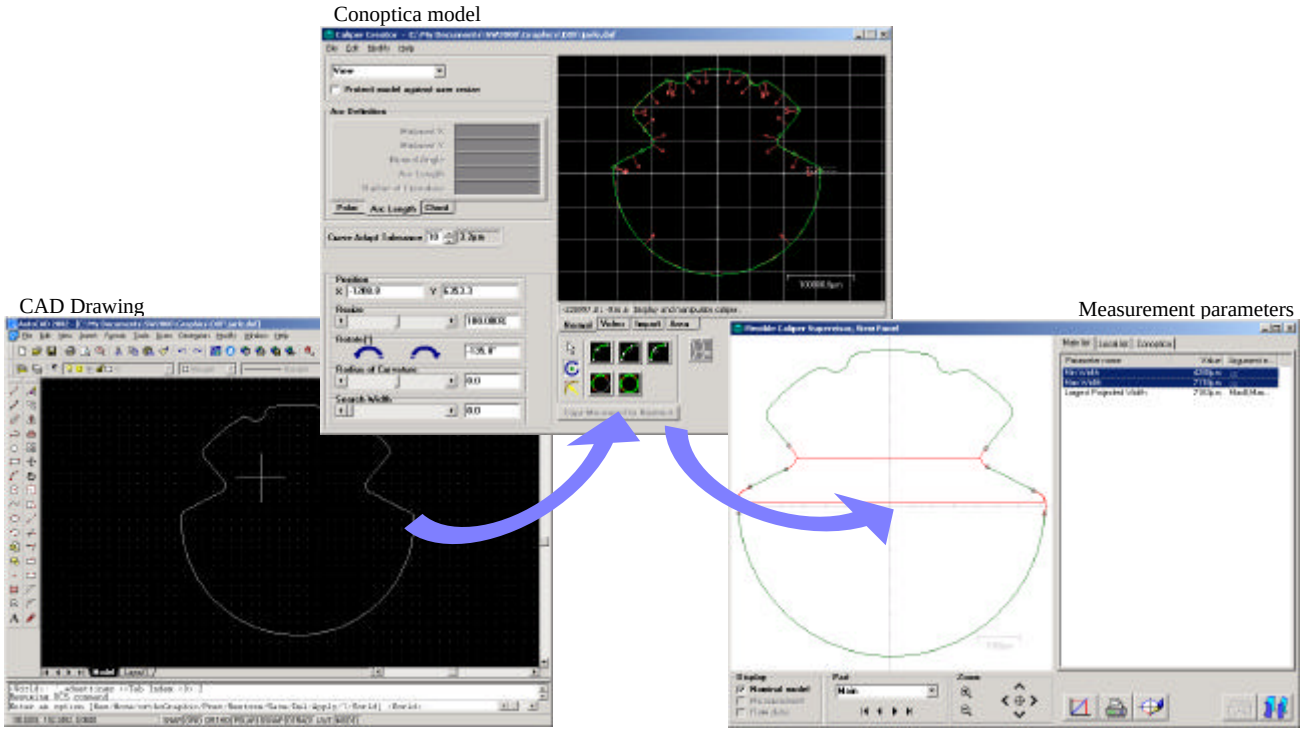
When creating drawing tools for the wire industry it is important that they meet the specifications. These specifications are usually available as CAD-files. Comparing the finished tools with the nominal geometry is essential to discover if the finished products matches the customer requirements. Measuring if and how much the tools deviate from the specification can be difficult.

Solution

If you have a CAD-file describing your tool, advanced measurement results are just a few mouse clicks away. The Conoptica Shaped Die Measurement System uses your CAD-file as a nominal template for measurement, and compares the results to these nominal data. For easy comparison, measurement parameters can be defined to match those in the CAD-file.

Benefit

By use of your CAD-specifications and the measurement system from Conoptica, you can quickly get detailed information about your finished tools and how they compare to specifications. This information eliminates drawing interpretations. You can also get intermediate measurements of the tool while it's being produced, to help adjusting your manufacturing process. This reduces the number of bad products and reduces production time. Conoptica's measurements are both objective, accurate and reproducible.



Step by Step

- Open the 'Conoptica Caliper Creator', and load your dxf-file by 'File→Load…'
- Ensure that the arrows point toward air, and connect all the imported curves to get a continuous model.
- Open the advanced measurement result view panel.
- Add parameters to your model.
- Optionally, you may save your model for later retrieval.
- Go to the main panel! You are now ready for automatic measurement.