

# DRAWING DIE PROFILE

## INNER GEOMETRY MEASUREMENT

### Task

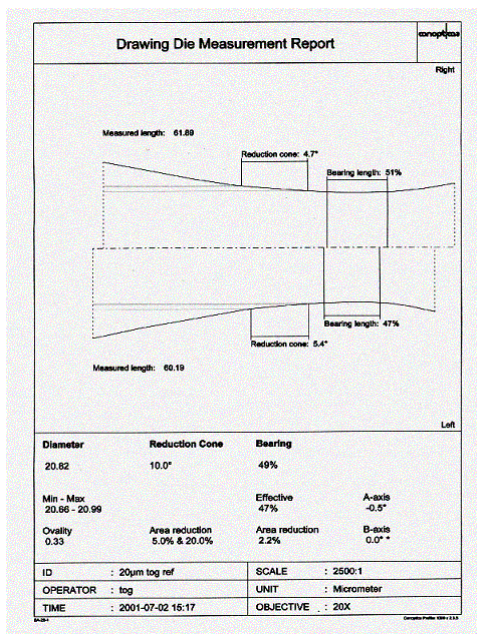
Drawing die profile holds the key to smooth production and wire quality. To meet specifications it is crucial to have full control of all die production aspect. Parameters such as the reduction cone angle, blending radius, bearing length and back-relief radius all play an important part in die quality. Depending on drawing speed, material and processes specifications differ from one customer to another. Since drawing dies are tools produced in high quantities the control must be fast and simple.

### Solution

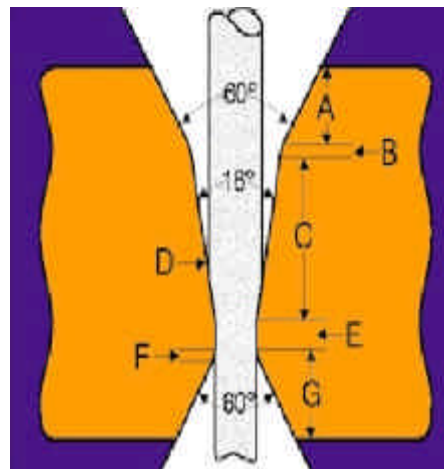
By using the Conoptica Profile Supervisor with one of the Electro-Optical Frames you get detailed die profile data with high accuracy and repeatability. You can use the standard measurement panel for most of the parameters. For more detailed and complex measurements the advanced measurement panels are available. For the measurement of large number of dies Conoptica provides an Automatic Die Feeder and Sorter.

### Benefit

The measurement results are achieved in short time without having to rely on making rubber replica or studs. No material is required, and the results are operator independent. Measurements are automatically entered into database or spreadsheet and can follow the delivery. Improved die quality will reduce the amount of rejected dies, reduce wire production halts, and possibly help increase wire drawing speed.



Measurement Report



Die Specifications

### Step by Step

- Place the die on the measurement table.
- Click the measurement button.
- Measurement results are stored in the Excel spreadsheet and/or in a database.
- The profile is printed out in a measurement report.
- Optionally, study other parameters in Advanced Panels.