

# EM10 DIE PROFILEMETER

The EM 10 from ECOFORM provides a simple, quick and high precision assessment of any drawing die geometry. The EM 10 measures the average and local approach angle, bearing length, and diameter of the die. The EM 10 features reliability and speed in generating measurements which allows you to check every die before being put into production eliminating problems before they occur. Data analysis is quick and informative to production, not just in the die shop.



## EM 10 advantages:

- Improve wire quality by reviewing the die geometry before and after the wire drawing.
- Increase production by checking wire contact point in the die before it draws wire.
- Physically traces die on two sides to accurately pick up die geometry.
- Store the dies information for statistical data to research its effect on wire quality.
- Detect poor quality and/or imperfections in the approach angle surface such as wear rings that other die measuring systems working with light diffraction or laser can not see.

## Description of measurement process and data evaluation

The die is mounted on the working table and is centered using a conical tip. It is then locked into place. The profilometer needle scans across both sides of the die. During scan the die profile data will be automatically recorded and the profile will be on-line displayed on the computer screen. The entire measurement and evaluation process lasts approximately 1 minute. The data analysis software permits the user to instantaneously obtain quantitative evaluations of the die and to display them on the screen. A hard copy can also be printed if required.



## EM10 Supplies

All EM10 needles are made from tungsten carbide for long life. The ring gages are custom made with lead angle to test the EM10 properly.

<u>Range</u>	<u>Part No.</u>	<u>Probe Diameter</u>
.030-.47" (0.7-1.2mm) Needle	60403600	0.45mm
.047-.138" (1.2-3.5mm) Needle	60403700	1.0mm
.138-1.125" (3.5-28mm) Needle	60403800	3.0mm
.150" (3.80mm) Setting Ring Gage	60402300	-
.250" (6.35mm) Setting Ring Gage	60402400	-
.350" (8.90mm) Setting Ring Gage	60402500	-
.500" (12.7mm) Setting Ring Gage	60402600	-
.650" (16.5mm) Setting Ring Gage	60402700	-
.800" (20.32mm) Setting Ring Gage	60402800	-

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