



CGM CIGIEMME S.p.A.

Controlli Non Distruttivi - Non Destructive Testing



TAM 190466 "SWING" COMPARATOR



DESCRIPTION

The Tam 190466 "Swing" Comparator presents highly fluorescent, sharp-angled "feeler gauge" style traces for linear and round indications. This comparator is made of transparent plastic and is used in the inspection booth to evaluate the size of defects ranging from 0.2 to 3.0 mm. The "Swing" Comparator features markings on the tapered ends for narrow radius comparisons

USER INSTRUCTIONS

- 1. Before using the comparator, it is necessary to perform the PT inspection**
 - Clean the test surface to remove dirt, oil or grease.
 - Apply the penetrant.
 - Remove penetrant excess from the surface.
 - Apply the developer to highlight the penetrant in the discontinuities.
 - Inspect the surface to identify indications.
- 2. Once a discontinuity has been detected, perform the measurement**
 - Select the correct foil: the comparator is composed by several transparent foils,



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each with fluorescent markings of different sizes, from 0.005 to 0.180 inches (or from 0.2 to 3.0 mm).

- **Comparator positioning:** place the appropriate foil directly over the indication on the piece under inspection.
- **Comparison:** the comparator marking is designed to be highly fluorescent, allowing for a clear visual comparison with the indication on the part.
- **Measure the indication:** compare the width of the indication on the piece under inspection with the calibrated lines and circular indications on the dial gauge to determine the defect size.
- **Evaluation:** once taken the measurement, compare the results with the acceptance criteria specified in the reference standard (e.g. ASTM) to determine whether the part under inspection is acceptable or not.

AVAILABLE MODELS

PART NUMBER	DESCRIPTION	REF.
04099816	TAM 190466 "Swing" comparator	98.16



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