

METZER-M
HIGH-TECH OPTICAL INSTRUMENTS

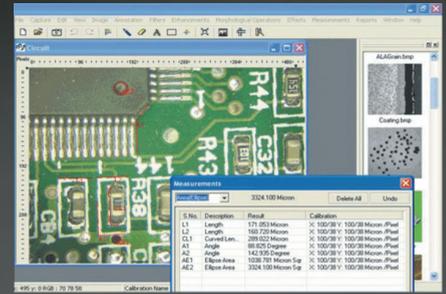
ADVANCE SOFTWARES
TO MAKE IMAGING
SIMPLE

**METALLURGICAL MICRO IMAGE
ANALYSIS SOFTWARES**

SPECIFICATIONS

Measurements : Spatial calibration, Line measurements for Distance, Length, Width, Perimeter, Angle, Three Point Radius. Area by enclosed line controlled by four arrow keys available on keyboard arrows with zoomed preview.

Report Generation : Direct printout with original image processed image & Tabular results or Export to MS Office or Excel for further modification.

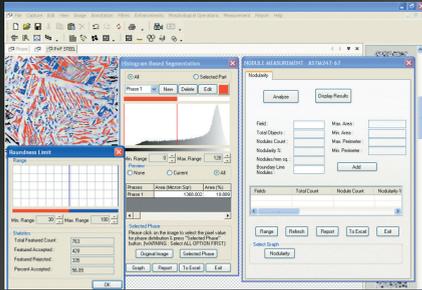


METZER-M CALIPER PRO SOFTWARE

SPECIFICATIONS

The software is a comprehensive solution to all the micrographic methods used to test metal and metallic products. The available wizards (modules) are :

1. Grain size
2. Phase Segmentation
3. Graphite Flakes
4. Nodularity
5. Porosity
6. Decarburization
7. Coating Thickness
8. Case Depth
9. Non Metallic Inclusion



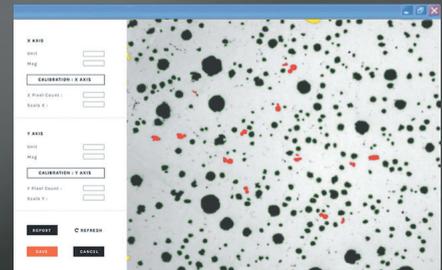
METZER-M MICROCAM METALLURGICAL MICRO IMAGE ANALYSIS SOFTWARE

SPECIFICATIONS

The software is completely automatic tool to perform calculations relating SG/ Ductile iron. The nodules are separated from non nodules on the basis of spheroidity. The nodules I to IV (based on shape) & their sizes are reported.

SG Iron Analysis : The module automatically analyzed & calculate Nodules/Non Nodules percentage. It Determine its class and number from 1 to 8 as per ASTM, JIS, BIS & ISO standard, Nodules per square mm is also on Etched sample is reported. Also Determine percentage of pearlite, graphite, ferrite and carbide.

Cast Iron Analysis : The software determines flake size from 1 to 8 as per ASTM, JIS, and BIS & ISO standards. The type distribution percentage A, B, C, D, E can also be calculated. Flakes per square mm is also calculated simultaneously. Percentage of pearlite, ferrite, graphite and carbide is calculated from Etched sample automatically with their respective values.



METZER-M FOUNDRY PLUS METALLURGICAL MICRO IMAGE ANALYSIS SOFTWARE

SPECIFICATIONS

Material plus is a fully automatic comprehensive micrographic solution for metallographic studies. The available software modules meet all equivalent national and international standards.

The available wizards are:

Grain Size : Determine ferritic and austenitic grain size in steel.

The available methods are: 1. Automatic lineal intercept method. 2. Jeffries planimetric method. 3. Automatic and Semiautomatic Snyder and graff open scale intercept method. 4. Comparison method. 5. ALA grain size. 6. Selected grain size. 7. Manual count etc.

Lamellar Graphite : This module evaluate and quantify Graphite in a fully automatic and consistent way.

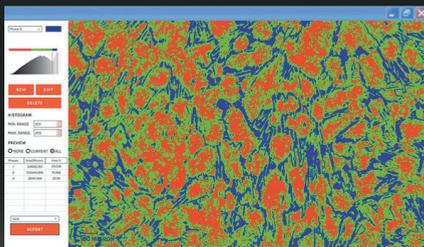
Phase Segmentation : Segmentation module in a sample measures the volume percentage of phases in a fully automatic way.

Porosity : Pores in casting are estimated and reported on the basis of intensity. The percentage is calculated.

Spheroidal Graphite : The software determines proportion of graphite of non-round shape, for instance vermicular graphite. Nodules for (designated by Arabic no 1to 8) is reported along with calculated Nodules/sqmm.

Non-Metallic Graphite : Determines contents of non metallic. Inclusion in rolled or forged steel products according to ASTM standards.

Coating Thickness : The test method covers measurement of the local thickness of metal and oxide coatings by microscopical examination of cross section.



METZER-M MATERIAL PLUS SOFTWARE

METZER

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