

# BUEHLER®

## OmniMet®

### IMAGE ANALYSIS APPLICATIONS SOLUTIONS

#### *86-3850 Inclusion Rating Module*

- **Designed for the Accurate Determination of Oxide and Sulfide Inclusion Content in Steel According to ASTM E1245-00**
- **Analysis is Run Over a User Defined Number of Fields**
- **Automated Measurement Assures Ease-of-Use, Repeatability and Reproducibility**
- **Impressive Report Generated in Microsoft® Excel in Just a Few Mouse Clicks**



**The 86-3850 Inclusion Rating Module** has been designed for use with either the OmniMet® Express or the OmniMet® Enterprise and provides analysis of inclusions in ferrous metals according to the requirements of ASTM E1245-00

The ASTM E1245 test method describes the determination by image analysis of statistics for the area and length of sulfides and oxides as well as area percent measures, mean free path and the average number of intercepts.

The ASTM E1245 standard recommends that the analysis is performed over a minimum of 100 fields of measurement; as such, a motorized stage is recommended but not mandatory.

**Automated Analysis** and measurement of inclusions provides a number of benefits:

- Improved rating accuracy compared to the comparison chart method
- Less operator fatigue
- Improved repeatability

**Additional Advantages** with the 86-3850 Inclusion Rating Module for the OmniMet® Express and Enterprise:

- The Microsoft® Excel based ASTM E1245 reports may be saved in the OmniMet PC or to a networked drive, e-mailed or printed
- All images are calibrated and may be archived in the OmniMet database and retrieved later

- Professional reports showing images and databased information are easily generated in Microsoft® Word® using the built in OmniMet Report Generator\*

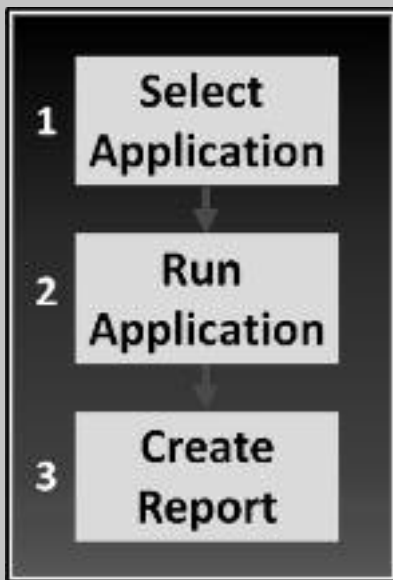
**Industry Use:**

Customers needing to assess the internal cleanliness of rolled steel

**Running the 86-3850 Inclusion Rating Module is as simple as 1-2-3!**

*\*The built in Report Generator is available in version 4.0 and later OmniMet® Express and OmniMet® Enterprise*

**With the OmniMet® Applications Solutions Simplicity is the Essence**



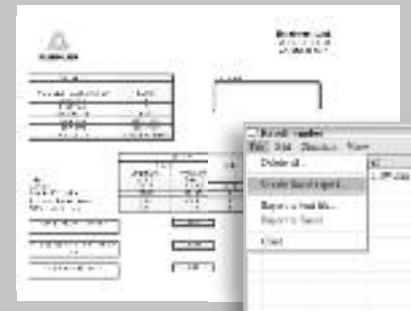
**Step 1.**  
Select the application from the folder.



**Step 2.**  
Push the "Run multifield" button to run the analysis for as many fields as needed. Open the results window to see the data collected.



**Step 3.**  
Run the OmniMet application macro to generate the desired report.



The OmniMet application macro quickly generates a professional report for inclusion assessment according to ASTM E1245 and can be easily customized with your company logo and contact information.

Buehler continuously makes product improvements; therefore, technical specifications are subject to change without notice.

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