

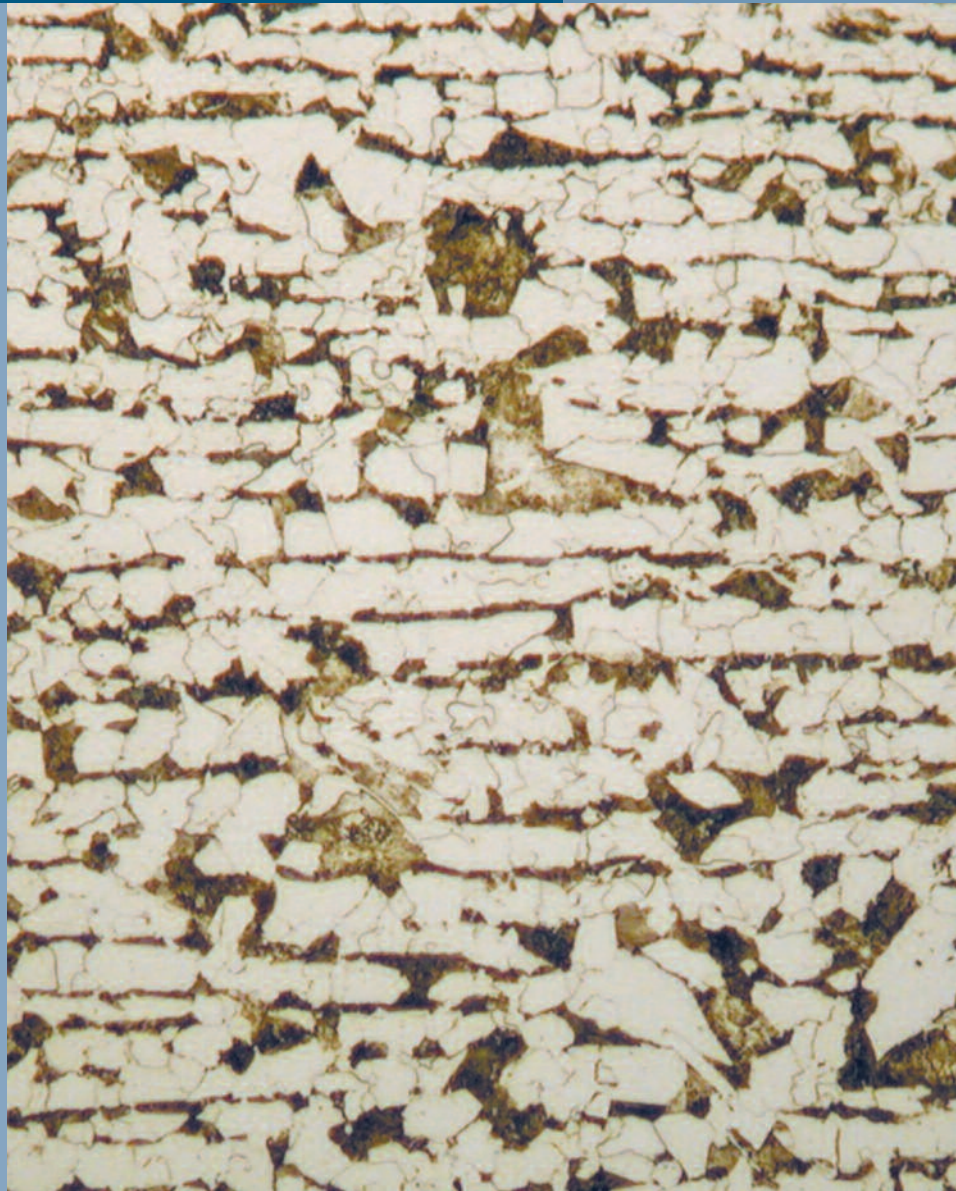
# BUEHLER®

## OmniMet®

### IMAGE ANALYSIS APPLICATIONS SOLUTIONS

#### *86-3700 Banding Assessment Module*

- Designed for the Accurate Determination of the Degree of Microstructural Banding to ASTM E1268-99
- Analysis to 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



**BUEHLER**

**The 86-3700 Banding Assessment Module** has been designed for use with either the OmniMet® Express or the OmniMet® Enterprise. Analysis of the degree of banding and microstructural orientation is provided according to the requirements of ASTM E1268-99 to give the following outputs:

- Statistics on feature and boundary intercepts
- Mean feature spacing
- Mean free path distances
- Anisotropy index
- Degree of orientation

**Automated Analysis** of microstructural banding relieves the tedium normally associated with undertaking a manual banding assessment.

The ASTM Standard requires the use of a number of test grid lines both parallel and

perpendicular to the rolled direction, in order to count feature boundary intercepts. Additionally, the ASTM standard requires the determination of various statistics (average, standard deviation, 95% confidence intervals, percentage relative accuracy) on the intercept measures.

**Benefits of the Automated Analysis of Banding** with OmniMet® Express and OmniMet® Enterprise:

- Increased productivity with rapid measurement and statistical calculations for feature intercepts
- Improved measurement repeatability
- Less operator strain
- The Microsoft® Excel based ASTM E1268 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\*

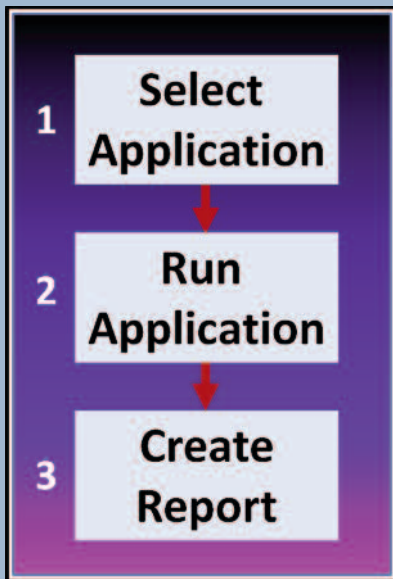
**Industry Use:**

Rolled Steel Producers and Fabricators, Quality Control Labs

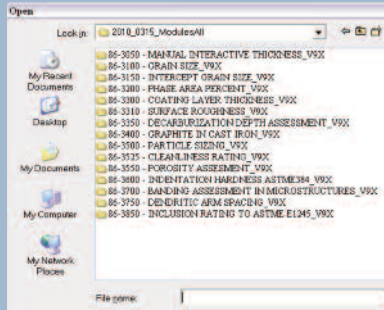
**Running the 86-3700 Banding Assessment Module is as simple as 1-2-3!**

\*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**



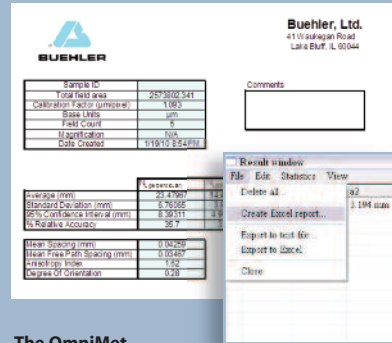
**Step 1.**  
Select the application from the folder.



**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 banding assessment according to ASTM E1268 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.

© 2010 BUEHLER®, a division of Illinois Tool Works, Inc. Printed in U.S.A. 5M0105 FN01194 Rev. 2 \*For metallurgical consumables produced by BUEHLER®  
© 2004 Microsoft Corporation. All rights reserved.



**BUEHLER**  
BUEHLER®, a division of Illinois Tool Works, Inc.  
– Worldwide Headquarters  
41 Waukegan Road • P.O. Box 1  
Lake Bluff, Illinois 60044-1699 USA  
Tel: (847) 295-6500 • Fax: (847) 295-7979  
Sales: 1-800-BUEHLER (1-800-283-4537)  
www.buehler.com  
Email: info@buehler.com

**BUEHLER GMBH - European and MESA Headquarters**  
In der Steele 2 • 40599 Düsseldorf  
Postfach 16 03 55 • 40566 Düsseldorf  
Telefon: (49) 211 974100 • Telefax: (49) 211 9741079  
www.buehler-met.de  
Email: info@buehler-met.de

**BUEHLER FRANCE**  
Téléphone: 0800 89 73 71  
Télécopie: 0800 88 05 27  
www.buehler.fr  
Email: info@buehler.fr

**BUEHLER UNITED KINGDOM**  
Telephone: 0800 707 6273  
Fax: 0800 707 6274  
www.buehler.co.uk  
Email: sales@buehler.co.uk

**BUEHLER CANADA**  
10 Carlow Court, Unit #2  
Whitby, Ontario L1N 9T7  
Telephone: (905) 430-4684  
Fax: (905) 430-4647  
Sales Telephone: 1-800-268-3593  
Email: info@buehler.ca

**BUEHLER, ASIA-PACIFIC**  
5/F Vogue Centre  
696 Castle Peak Road  
Lai Chi Kok, Kowloon  
Hong Kong, SAR, China  
Telephone: (852) 2307 0909  
Fax: (852) 2307 0233