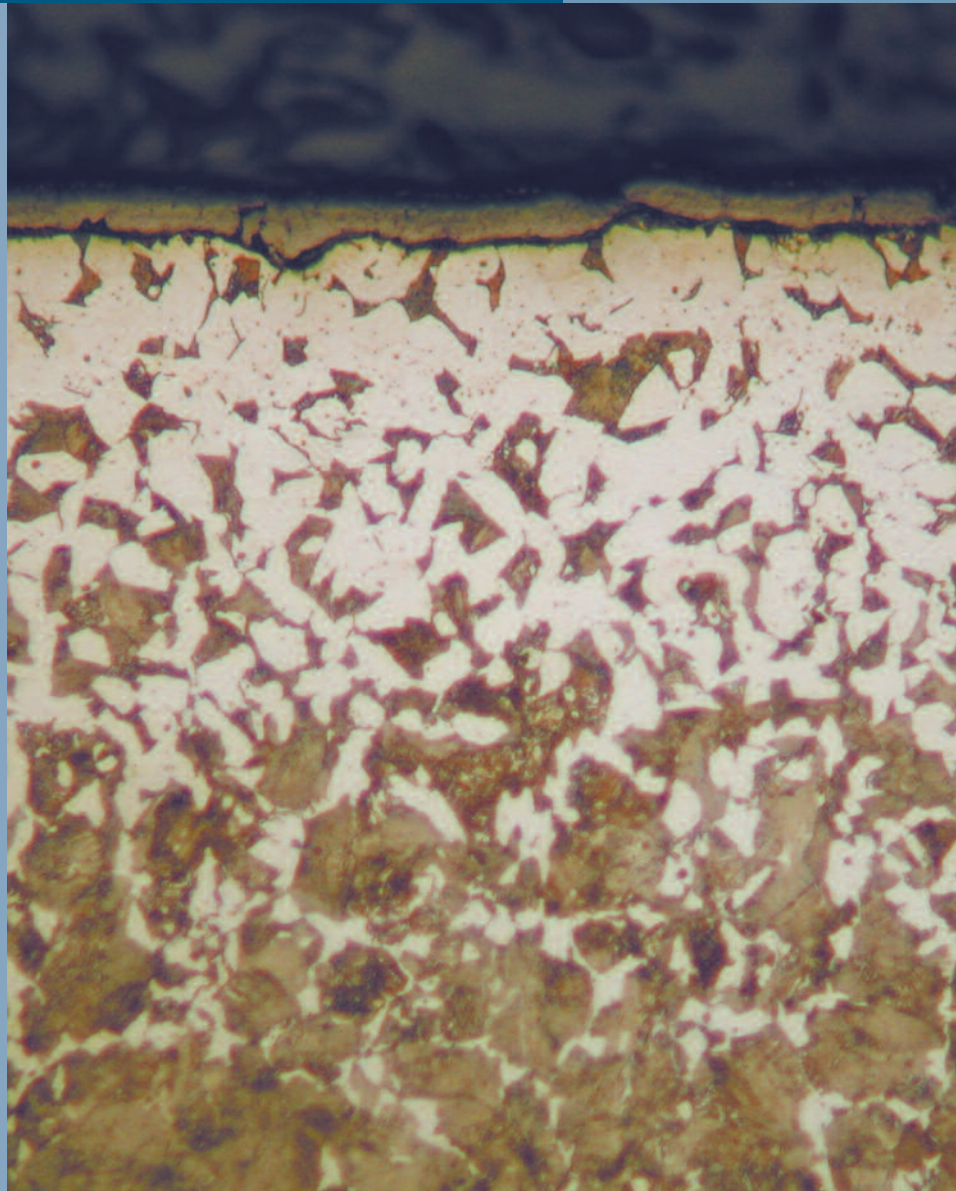


# BUEHLER® OmniMet®

## IMAGE ANALYSIS APPLICATIONS SOLUTIONS *86-3350 Decarburization Assessment Module*

- Designed for the Accurate Determination of the Decarburization Depth in Steels According to ASTM E1077-01
- Depth is Determined at 3 User Defined Percentages of Decarburization
- Automated Measurement Assures Ease-of-Use, Repeatability and Reproducibility
- Impressive Report Generated in Microsoft® Excel in Just a Few Mouse Clicks



**BUEHLER**

**The 86-3350 Decarburization Assessment Module** has been designed for use with either the OmniMet® Express or the OmniMet® Enterprise and provides analysis of the depth of decarburization in steel according to the requirements of ASTM E1077-01.

This test method provides guidance on the determination of the depth of both total and partial decarburization according to the relative amount of free ferrite present in the microstructure.

**Automated Image Analysis** and measurement of decarburization in steel with the 86-3350 module provides a number of benefits:

- A number of intercept lines are drawn automatically over the image allowing for increased accuracy through higher sampling
- Up to three different decarburization percentage levels may be defined to give various measures of partial decarburization as well as total decarburization depths
- Increased productivity with rapid measurement and calculations for the intercept lines in the decarburization zone
- Less operator strain
- Improved measurement repeatability
- The Microsoft® Excel based ASTM E1077 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\*

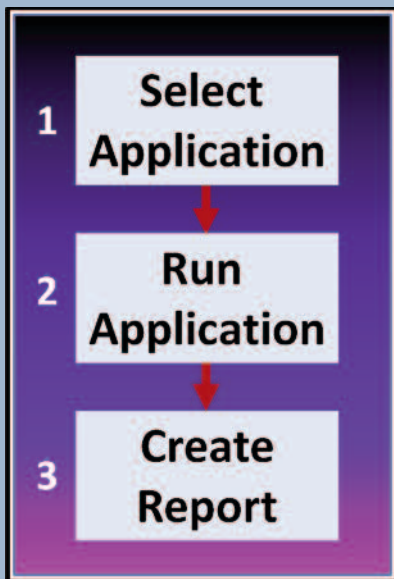
**Industry Use:**

Ferrous Heat Treatment, Hot Finished Steel Products, Quality Control Lab

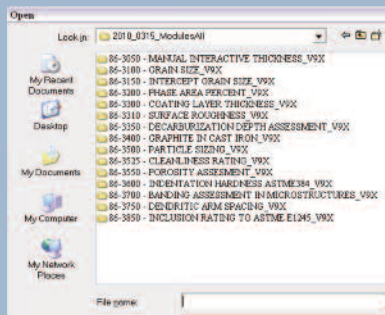
**Running the 86-3350 Decarburization Assessment Module is as simple as 1-2-3!**

*\*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**



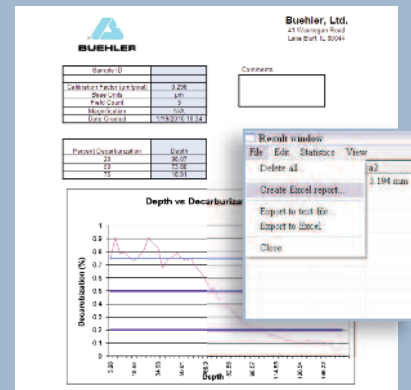
**Step 1.**  
Select the application from the folder.



**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 decarburization depth assessment according to ASTM 1077.

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 FN01189 Rev. 1 \*For metallurgical consumables produced by BUEHLER®  
© 2010 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