

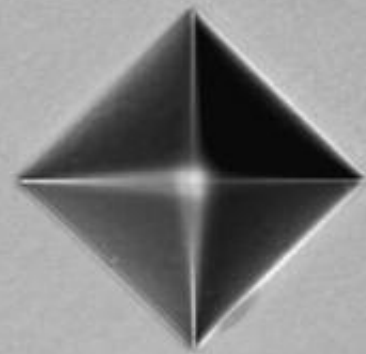
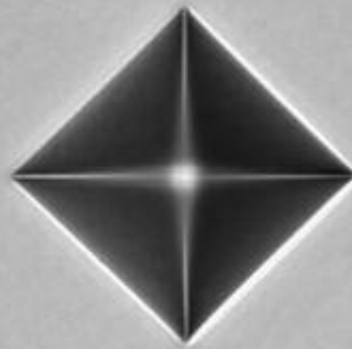
BUEHLER®

OmniMet®

IMAGE ANALYSIS APPLICATIONS SOLUTIONS

86-3600 Hardness Assessment Module

- **Designed for the Accurate Determination of Hardness from Vickers and Knoop Indentations to ASTM E384-99**
- **Provides Conversion to Rockwell C and B Scales According to ASTM E140**
- **Automated Measurement Assures Ease-of-Use, Repeatability and Reproducibility**
- **Impressive Report Generated in Microsoft® Excel in Just a Few Mouse Clicks**



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The 86-3600 Hardness Assessment

Module has been designed for use with either the OmniMet® Express or the OmniMet® Enterprise and provides automated measurement of Vickers or Knoop hardness indentations according to the requirements of ASTM E384-99.

Automated Analysis takes away the tedium normally associated with measuring Vickers or Knoop hardness indentations since no measuring filar eyepiece is needed.

Instead, the indentation image is captured from a camera mounted on a suitable video port of the tester and the indent is automatically measured with the OmniMet.

Once all the indentations have been automatically measured by the OmniMet, the applications module then calculates the

hardness and other parameters according to customer settings such as:

- Statistics only
- Hardness profile
- Effective case depth
- Rockwell HRC/HRB conversion per ASTM E140

If a hardness profile or effective case depth determination is required, then there are prompts to type in the distance values when the module requires information for the position of the indent.

Benefits of the Automated

Measurement of Hardness Indentations with OmniMet Express and OmniMet Enterprise:

- Increased productivity with rapid measurement of hardness indentations
- Improved measurement repeatability

- The Microsoft® Excel based ASTM E384 reports may be saved in the OmniMet PC, printed or emailed
- 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*

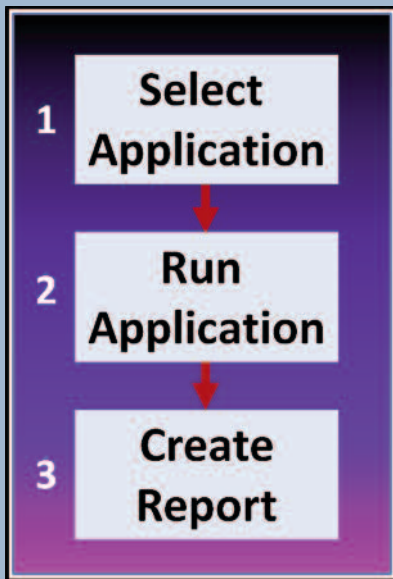
Industry Use:

Heat Treatment Verification (including Case Depth Determination), Fastener Quality, and Weld Assessment

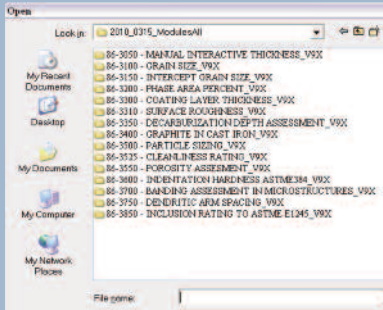
Running the 86-3600 Hardness Assessment Module is as simple as 1-2-3!

**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



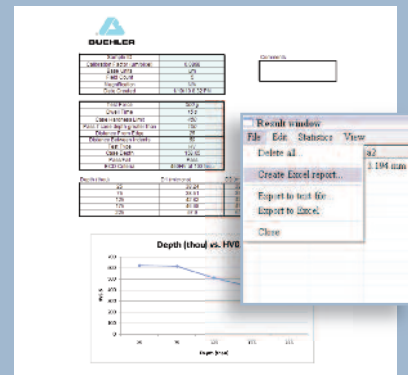
Step 1.
Select the application from the folder.



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 hardness calculated according to ASTM E384 and displayed based on customer needs to see statistics or hardness profile with effective case depth.

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

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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