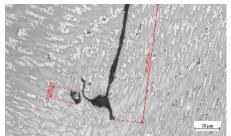
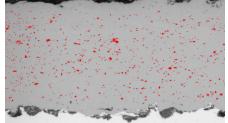


ZEISS Optical Microscopes with ZEN core

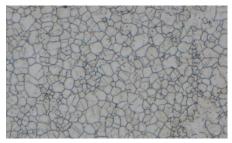
Your Complete Digital Toolkit for Metals Characterization





Assess features

Segment phases

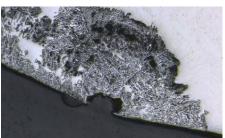




Quantify grains

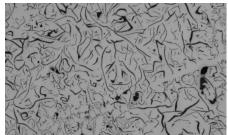
Analyze welds

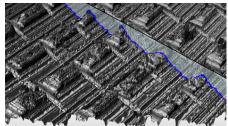




Classify inclusions

Investigate failures



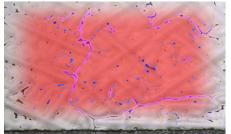


Evaluate graphite

Measure layers

Appraise roughness^[2]





Machine learning

ZEN core: A complete, intuitive metallography toolkit for fast, precise results in a multi-user software environment

- Full control of motorized ZEISS microscopes, advanced image acquisition, processing and analysis, and concise reporting
- Designed for the industrial metals research or quality laboratory, select only the modules you need in one user-friendly interface
- Easy to configure and use.
 Set up the adaptive user interface to control users, ensure repeatability, compliance and traceability.
- Total control of workflows, user profiles, roles, permissions, technical parameters to ensure total quality management
- Combine with ZEISS Shuttle & Find and electron microscopy for connected data in multiscale research or failure investigation.







ZEISS Optical Microscopes with ZEN 2 core

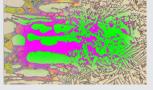
Your Complete Digital Toolkit for Metals Characterization

Configure your motorized microscope and camera

- Modular software: ZEN Core
- Full control of the motorized microscope and image processing
- Internal file archive with optional fully functional image database
- Optional management of correlative workflows by connecting light, digital and electron microscopes

Powerful Add-on Solutions

ZEN Intellesis



Unique, revolutionary, integrated, easy to use machine learning option for advanced segmentation of complex phases

ZEN GxP



Secure, traceable, auditable option for all microscopy workflows with data integrity, audit trail and disaster recovery capability

ZEN Metallography Configurator

1. Choose your microscope

Brilliant optics, advanced features as standard, touch control



Axio Imager upright



Axio Observer inverted

2. Configure your system

Stage size, shape, heat
Contrast modes
Confocal laser module ^[2]
Objectives
Digital camera
Correlative microscopy

Motorization & encoding
Automation
Particle analyzer
Polarization
Illumination
Light & contrast manager

3. Build your modular software toolkit in ZEN 2 core

Grain size
Interactive measurement
Multiphase
Layer thickness

Non-metallic inclusions Intellesis Machine Learning Cast iron graphite analysis GxP auditability

Motorized and encoded [1], robust and powerful, cost effective



Axioscope upright



Axio Vert inverted

[1] Full motorization and encoding currently available on Axio Imager, Axio Observer and Axioscope 7 models only [2] LSM 800 MAT confocal laser scanning upgrade available on Axio Imager.Z2m with ConfoMap[®] surface imaging and analysis software Some samples courtesy of TWI Ltd, UK















