

# Reproducible microscopy: Leica DM 6000 & ImageAccess image processing

## Technical data – hardware

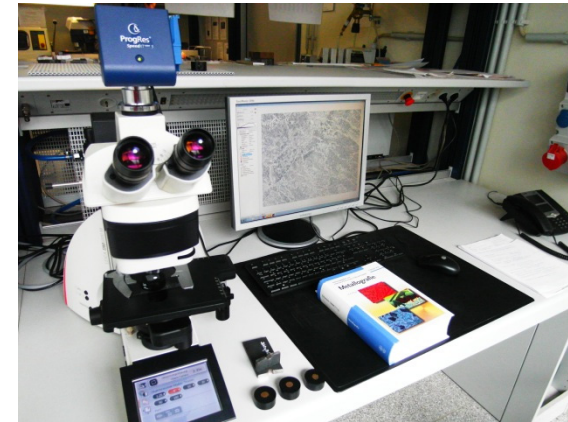
- Leica DM 6000 incident light & transmitted light microscope with high-quality lens
- Lenses: 1,25x (with reflection cap); 5x; 10x; 20x; 50x; 100x
- Eyepiece: 10x
- Contrast image: bright field, dark field, polarised, differential interference contrast
- Jenoptic ProgRes SpeedXT core 5 CCD digital colour camera with 5.02 Megapixel
- Automatic Z drive
- IT with direct connection to the in-house network

## Technical data – software

- Reproducible microscopy (extensive database/help functions)
- Automated layer thickness measurement
- Automated phase-ratio area measurement
- Automated particle size determination to DIN and ASTM
- Automated weld seam measurement
- Line / angle measurement
- Automatic multi-focus

## Fields of use / application

- Qualitative & quantitative (micro)structure analysis of metallic and non-metallic materials
- Extensive microscopic measurement possibilities
- Determination of material engineering relationships in conjunction with the other test institutions in the Fh AGP



Workstation with Leica DM 6000 and IT system



Microstructure of a weld seam  
"Weld material meltline coarse grain zone"