



LABORATORY FUNCTION

Technology and Integrity Partners

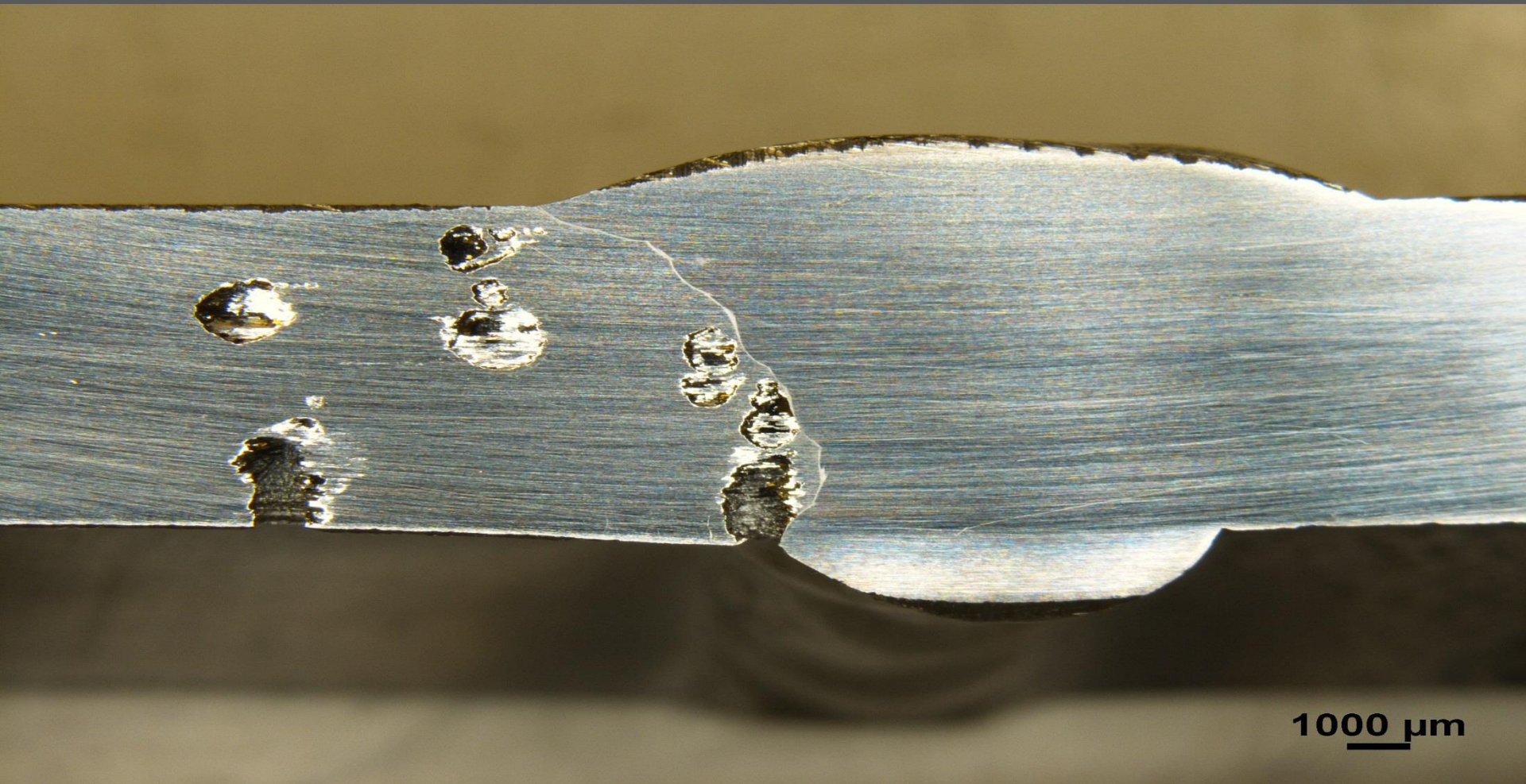


INDUSTRY REQUIREMENTS

- Routine verification of engineering materials.
- Laboratory support for welding processes.
- Fabrication to standards, e.g. ASME IX;AWS D1.1



INDUSTRY PROBLEMS



1000 μm

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ONE EIGHTY SOLUTIONS



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ONE EIGHTY SOLUTIONS

- We provide the laboratory function.
- Accredited ISO 17025 test certificates.
- Testing cannot delay production.



WHO IS ONE EIGHTY

- Most widely scoped ISO 17025 Accredited Testing Facility in Africa.

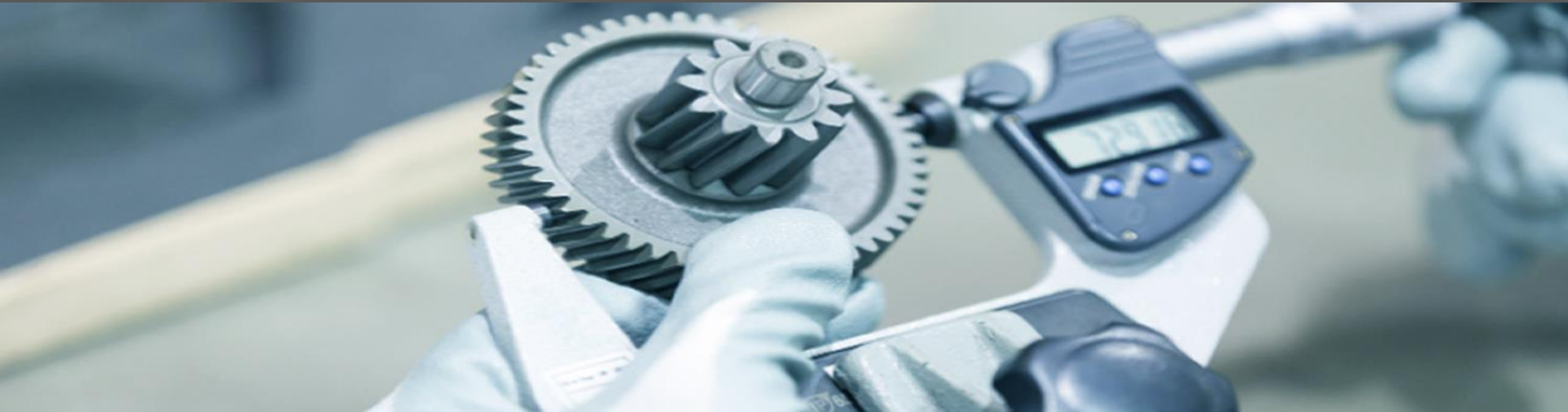


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SCHEDULE OF ACCREDITATION

- OE-TSP-03 TM01 *Tensile Test Metals*, based on ASTM E8
- OE-TSP-03 TM03 *Impact Test Metals*, based on ASTM E23
- OE-TSP-03 TM08 *Microstructural Analysis*, based on ASTM E3

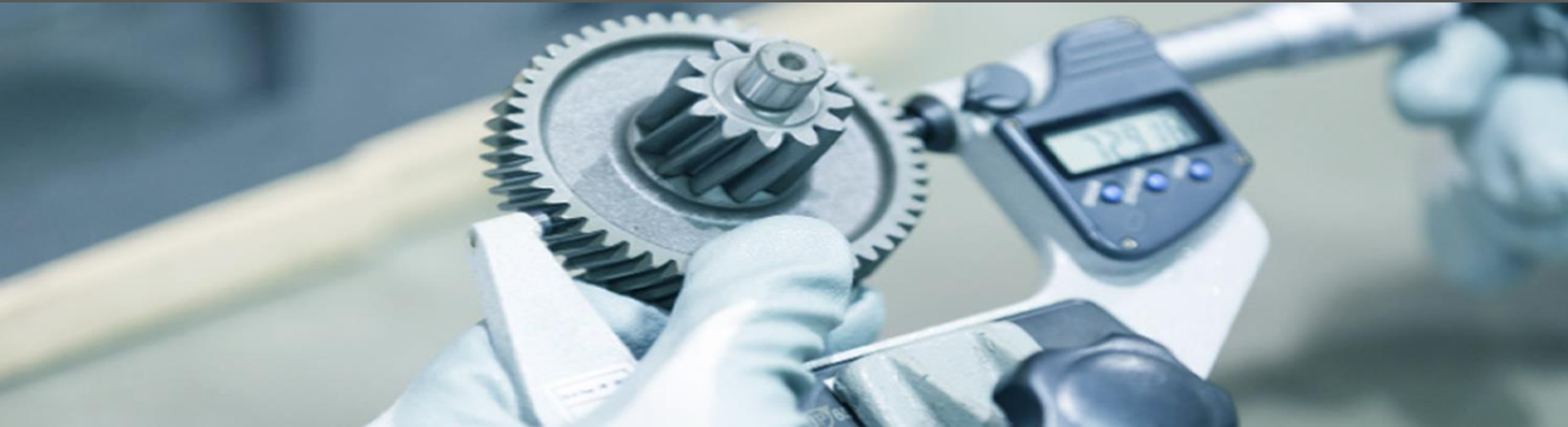


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SCHEDULE OF ACCREDITATION

- OE-TSP-03 TM13 Ferrite Count and Ferrite percentage, based on ASTM E562 and ASTM E1245
- OE-TSP-03 SOP13 Micro Examination, based on ASTM E1351
- OE-TSP-03 TM24 Macro Examination, based on ASTM E340



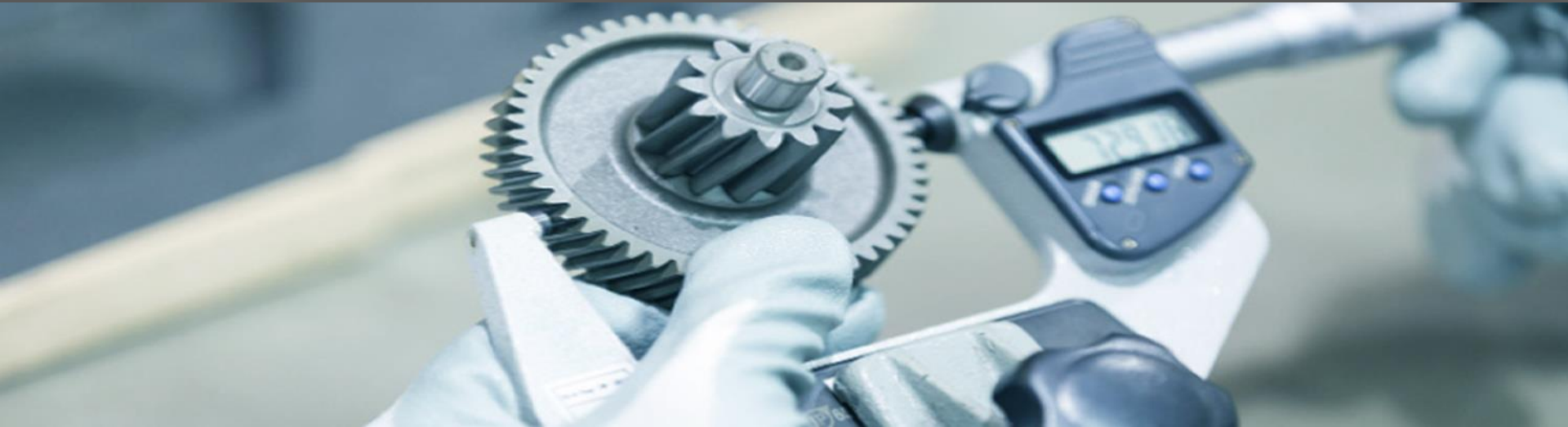
SCHEDULE OF ACCREDITATION

- OE-TSP-03 TM05 **Vickers Hardness Testing**, based on ASTM E384 and ASTM E140
- OE-TSP-03 TM19 **Portable Hardness Test**, based on A956 and E110



SCHEDULE OF ACCREDITATION

- OE-TSP-03 TM11 **Bend Tests**, based on ASME IX, AWS D1, ASTM A370, ABS Rules and BS EN ISO 5173
- OE-TSP-03 TM06 **Spectrographic Analysis**, based on ASTM E415 and ASTM A751



SCHEDULE OF ACCREDITATION

- OE-TSP-03 TM15 **Corrosion Test: Intergranular Corrosion Attack**, based on ISO 3651-2
- OE-TSP-03 TM18 and TM22 **Corrosion Test: Mass Loss per time**, based on ASTM A262C and ASTM G48
- OE-TSP-03 TM16 **Corrosion Test: Pitting under 20x Magnification**, based on ASTM A923C



WHY ONE EIGHTY

INTEGRITY RELIABILITY EFFECTIVENESS



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EIGHTY

INTEGRATED ENGINEERING SOLUTIONS

THANK YOU

www.one-eighty-degrees.com

