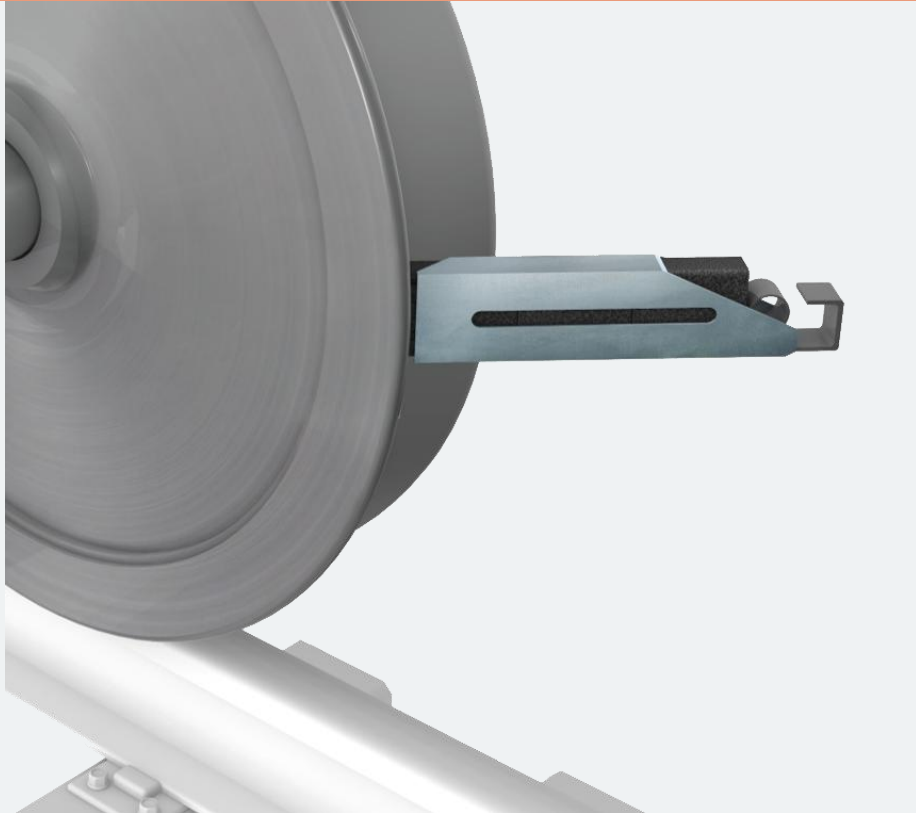


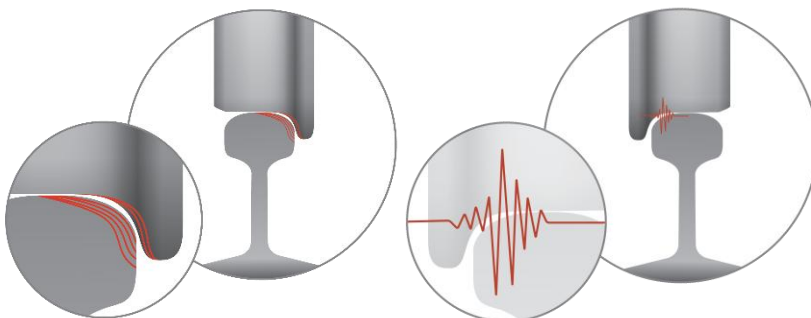
RAILWAYS & TRANSIT

SOLUTIONS FOR WHEEL FLANGE LUBRICATION



A COMPLETE OFFER DEDICATED TO WHEEL FLANGE LUBRICATION

- New grade made of natural graphite
- One standard design of stick
- A range of applicators
- Effective reduction of noise and wear usually caused by poor lubrication:



Wheel and rail wear / noise, major challenges for lubrication

BENEFITS OF MERSEN'S LUBRICATING STICKS

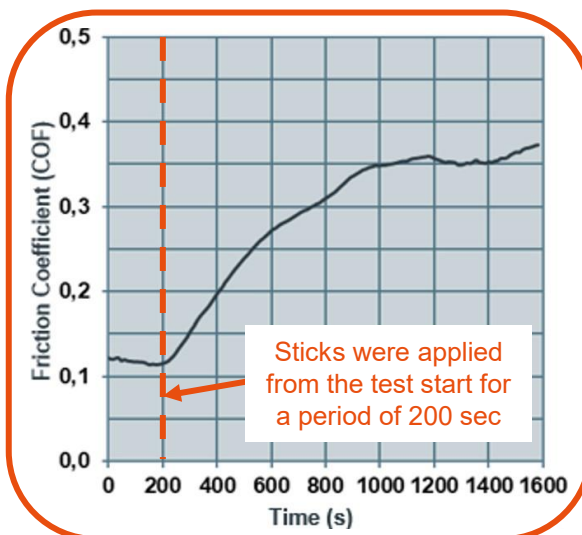
- **OPERATION**
 - increase equipment reliability
 - reduce downtime
 - reduce energy and fuel consumption
 - improve equipment reliability and profitability
- **MAINTENANCE**
 - reduce labor costs
 - reduce maintenance calls
- **SAFETY**
 - eliminate manual lubrication
 - reduce the risk of derailments
- **ENVIRONMENT**
 - reduce noise
 - eliminate pollutant for unit as well as environment

NEW GRADE AND STANDARD STICKS

- Natural graphite for outstanding sliding performances
- Meet the high-level requirements of European standards (EN 15427-2-1)
- Stackable design with pins for transition from one stick to another
- Cross section complies with existing applicators



Mersen stick design



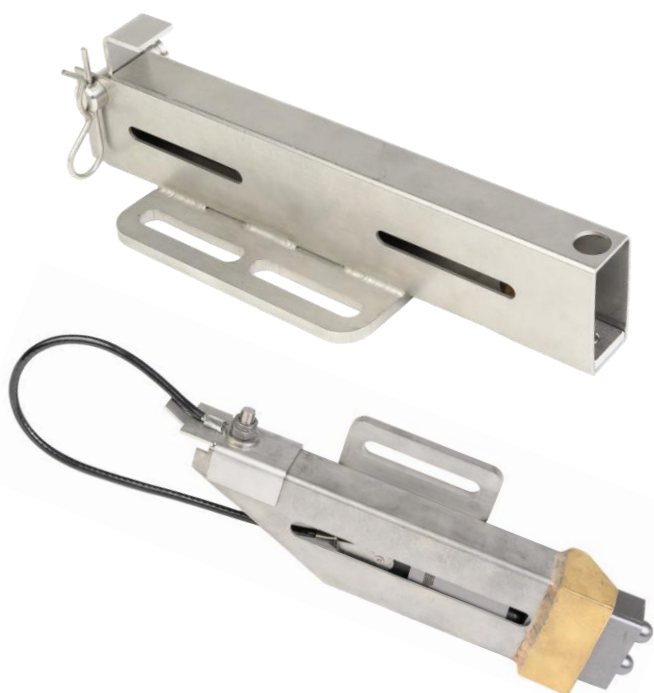
Two-disc Amsler test according to EN 15427-2-1

APPLICATORS

A RANGE OF APPLICATORS TO FIT EVERY BOGIE:

- Stainless steel body for corrosion resistance with bronze extremities
- Constant-force spring clip
- From standard design to compact one when the available space is limited
- Tested according to EN 61373 (shock and vibration tests)

The applicator design can be adapted upon request.



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