

Ultra-Sensitive Bar Testing

NOVAFLUX inspection system

As a producer of black or bright metal bars, you are confronted with customer demands for high quality products – and for good reason, since semi-finished products are often used in safety critical parts for public transport, automobiles, construction, etc.

We can help you find cracks reliably and reduce scrap and material expenses effectively. The NOVAFLUX flux leakage system provides a dependable and reasonably priced method for ultra-sensitive bar testing: It detects cracks as small as 0.1 mm in depth.

NOVAFLUX: Cost-saving and compatible

- **High-speed testing:** High throughput, test frequency, and rotational speed
- **Cost-saving:** Facilitates the retrieval of repairable material
- **Cost-effective:** Reasonably priced test unit
- **User-friendly:** Easy-to-operate touchscreen technology, no mouse or keyboard needed
- **Documented test results:** Reliable and comprehensive
- **Compatibility:** Can be combined with existing rotating units or testing electronics of other manufacturers



✓ Ultra-sensitive testing

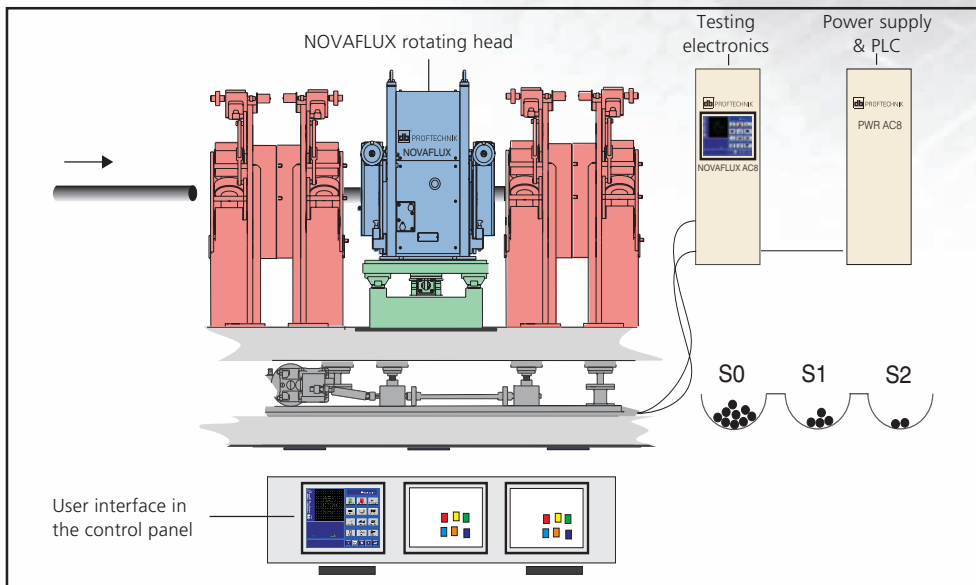
✓ Offline inspection

✓ Black/bright bars

✓ Seamless tubes

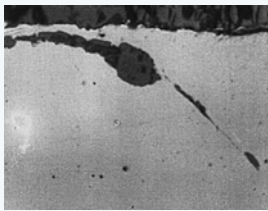


NOVAFLUX in your finishing shop



- ▶ **Integrated** in a testing line, e.g. between material testing and ultrasonic inspection
- ▶ **Three sorting classes** to optimize the retrieval of repairable material
- ▶ **User interface** can either be integrated in the control panel or remain part of the testing electronics cabinet

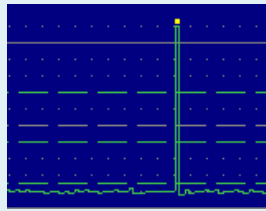
Sensitivity at work



0.1 mm

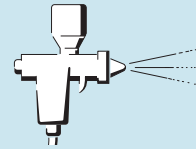
Typical small defect

Cross section showing typical small surface defect on a bar, mostly invisible to the eye.



Defect signal

This defect is distinctly visible in the NOVAFLUX signal display, unobscured by pseudo signals from uneven surfaces.



Mark for repair

Defects can be marked anywhere on the test piece for easy identification after the defective test piece is sorted out for repair.



Test reports

Save or print out test reports for use during repair or for later verification of testing. Reports can contain test results from NOVAFLUX or from the entire testing equipment of the finishing shop.

NOVAFLUX technical data

- Weight 600 kg
- Size W 746 mm; total depth 904 mm; H 920 mm, peak height 270 mm
- Inspection speed Up to 3 m/s depending on the test piece diameter
- Defect resolution 0.1 mm or more
- Defect length 15 mm or more
- Sorting classes S0 (good), S1 (repairable), S2 (scrap)
- Display 8 channel

NOVAFLUX application fields

- Production type Bars and seamless tubes
- Materials Ferromagnetic round black or bright steel; rolled, straightened or sand blasted
- Diameter 15–140 mm (black bars), 5–140 mm (bright bars)
- Production line Offline (single bars and tubes)

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