

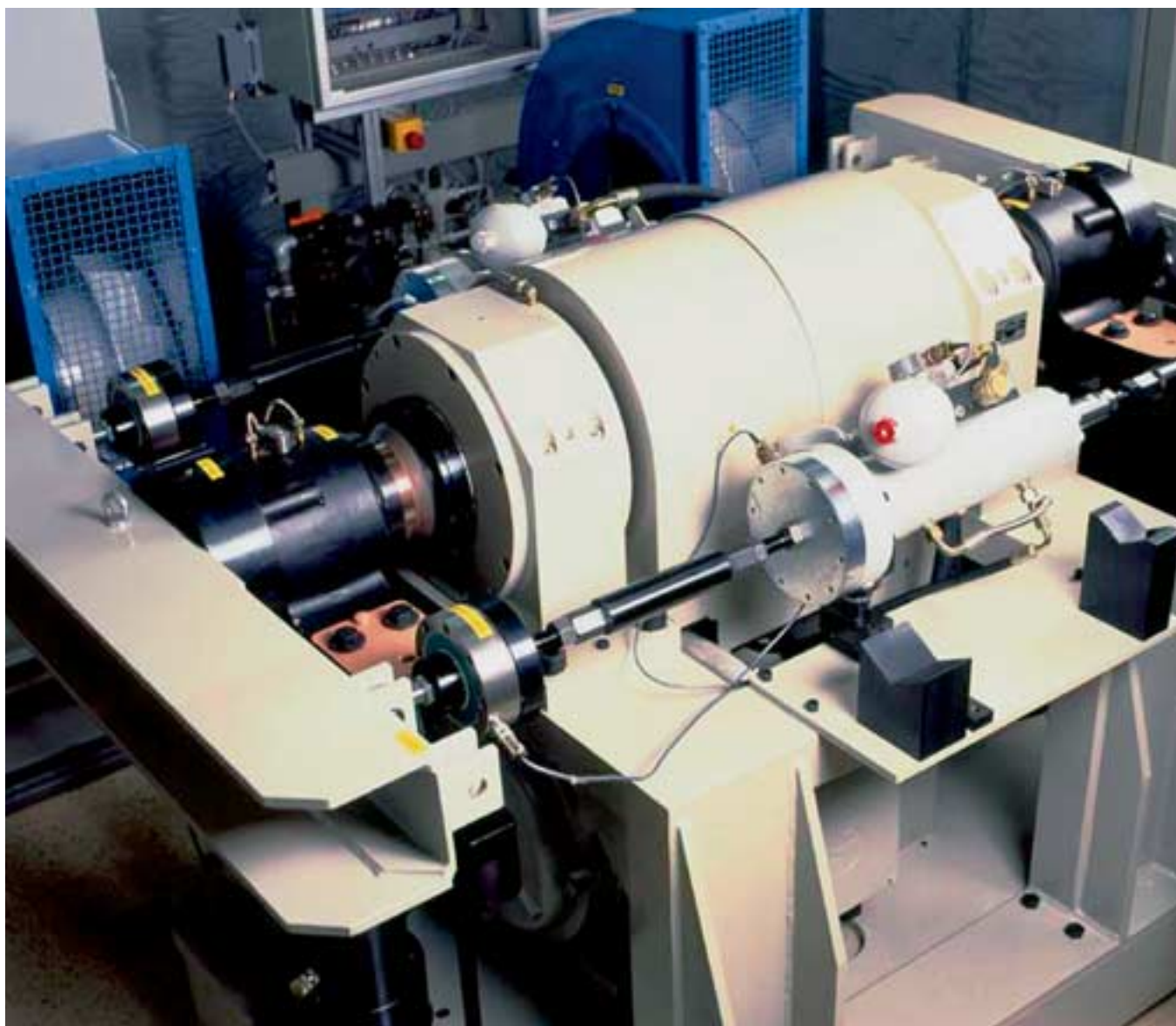
FAG Standard AN55 Test Rig for Wheelset Bearings

FAG

Rolling Bearings

Example from Application Engineering

Publ. No. WL 07 525 EA



Standard AN55 test rig: built according to FAG specifications

The new test rig, built according to FAG specifications and complying with the testing requirements of the European standard, is a smaller,

simplified version of the universal AN46 test rig. It allows more cost-efficient testing than the universal test rig in cases

where no simulation of line operation is required and where a simulated wind of 10m/s is sufficient.

Standard AN55 test rig

The AN55 test rig is belt driven. The load application is less complicated than with the universal AN46 test rig. A constant radial load is applied together with changing axial load.

Technical data

- Testing of radially and axially loaded wheelset bearings
- Bearing dimensions
 - Outside diameter $\leq 300 \text{ mm}$
 - Bore diameter $\geq 90 \text{ mm}$
- Load
 - axial $\pm 30 \text{ kN}$
 - radial $+ 140 \text{ kN}$
- Axial load/frequency $< 1 \text{ Hz}$
- Speed $\pm 3.000 \text{ min}^{-1}$
- Simulated wind velocity $< 10 \text{ m/s}$



Standard AN55 test rig

Measuring signals

- Radial load
- Axial load
- Temperatures
- Shaft speed
- Vibrations (noise)

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