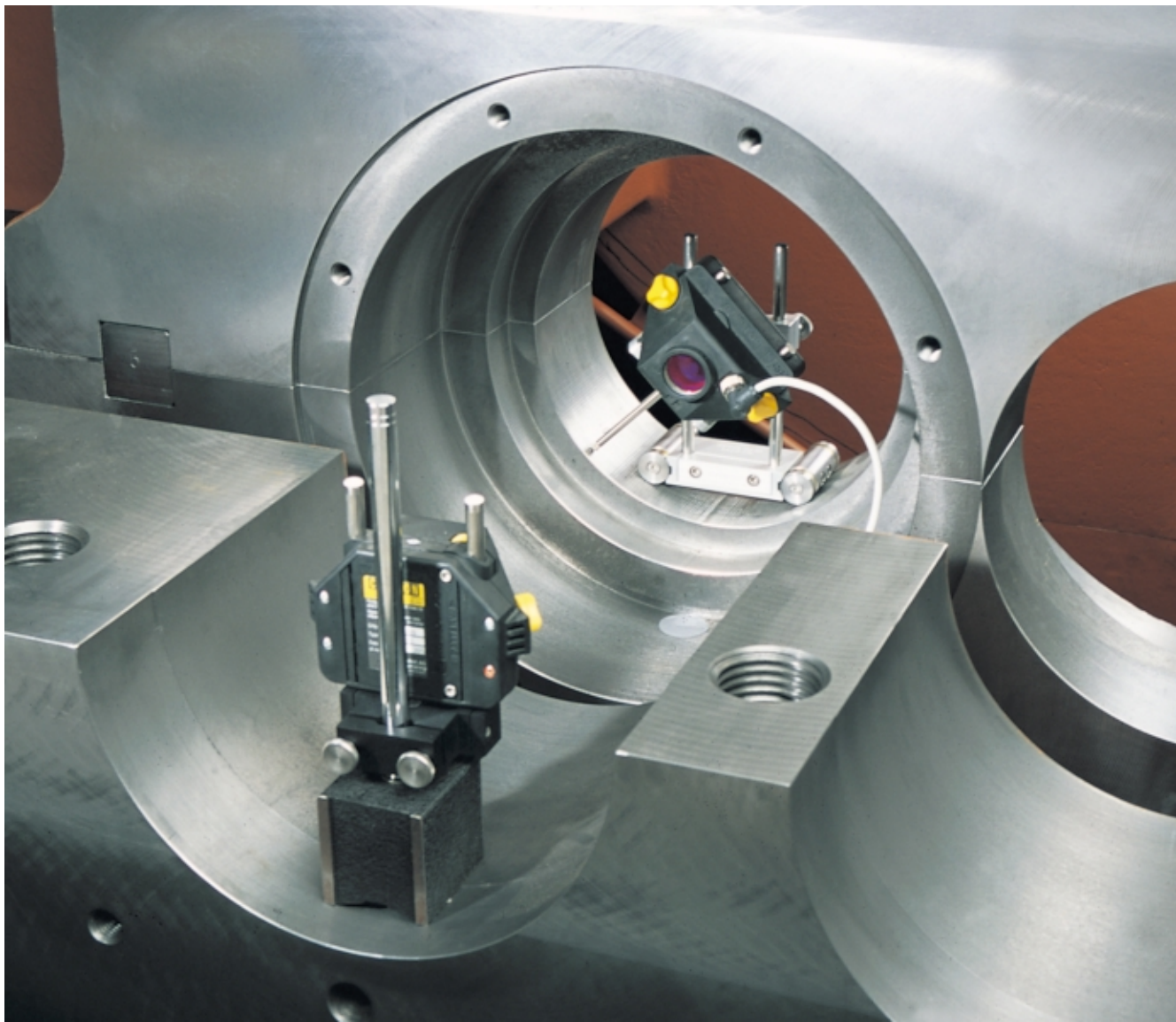


**Also available  
as an add-on to  
ROTALIGN® PRO**

**db**® PRÜFTECHNIK

## **BORALIGN®**

**Bore alignment in diesel engines,  
compressors, pumps and gas turbines**



# BORALIGN® simplifies the task

- True bore center measurement, not just the straightness of bores
- User independent measurements and results
- Ease of handling, lightweight components & laser technology make equipment setup simple
- View the minimum corrections required

Repair and reconditioning of diesel engines and compressors requires exact measurement of the alignment of crankshaft and camshaft bores, cylinder bores and cross-head guides. This is usually accomplished by optical or wire-based methods. BORALIGN® is a precision laser alignment system designed to replace those older and more time-consuming technologies. It is much faster, very precise, highly repeatable (even when used by different operators), and not subject to any wire sag since it uses a laser beam.

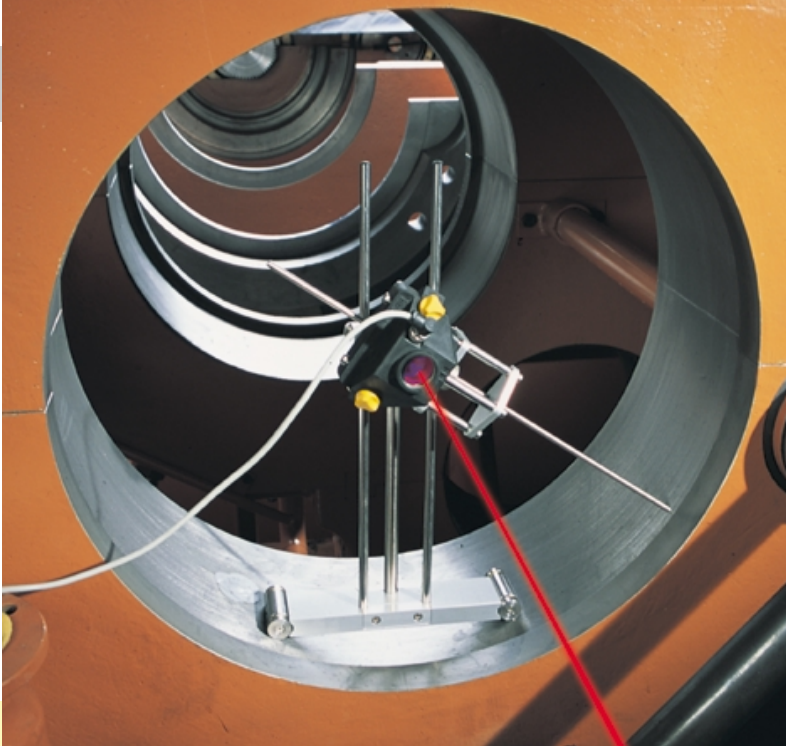
BORALIGN® is a portable laser-based instrument for aligning bores, bearing pedestals and other circular machine elements. BORALIGN® also includes a measurement procedure for the alignment of work pieces to boring heads. It uses the proven ROTALIGN® PRO shaft alignment components, a dedicated program and bracketing systems for bore alignment.

The BORALIGN® instrument can be upgraded to include Shaft Alignment, Soft Foot Wizard, Straightness and Flatness programs. BORALIGN® is available as a stand-alone system or as an add-on package to ROTALIGN® PRO shaft alignment system.



## Extendable to

- Shaft Alignment
  - Straightness
  - Flatness
- using same system components!

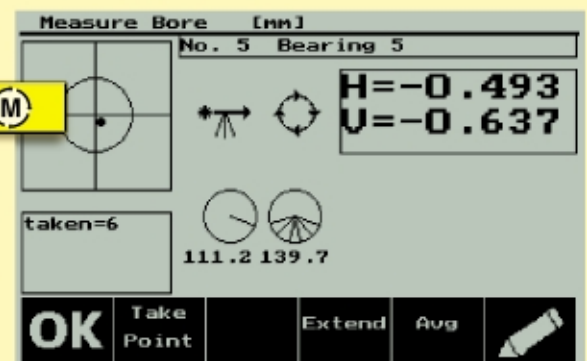


## 3-Key bore alignment: Quicker, easier, more flexible



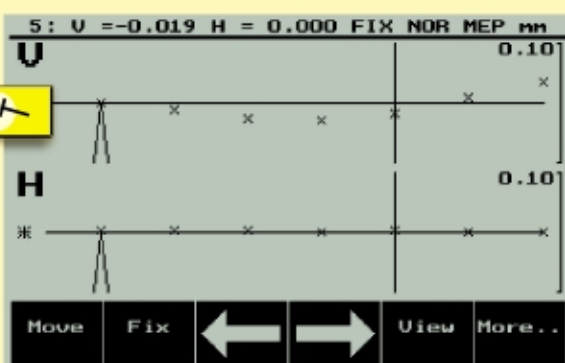
### Configure Bore Setup

- Choice of different bore types including narrow, long and complex bores for evaluating bore position and angles
- Add bores to new or existing setups
- Input of compensation values for thermal growth or shaft sag



### Perform measurements

- On-screen guidance for laser setup - no need to center laser before starting measurement
- Graphics lead you through the measurement procedure
- Measurement table to review measurement repeatability
- Measurement table and standard deviation table confirm accuracy of measurement and shape of bore.

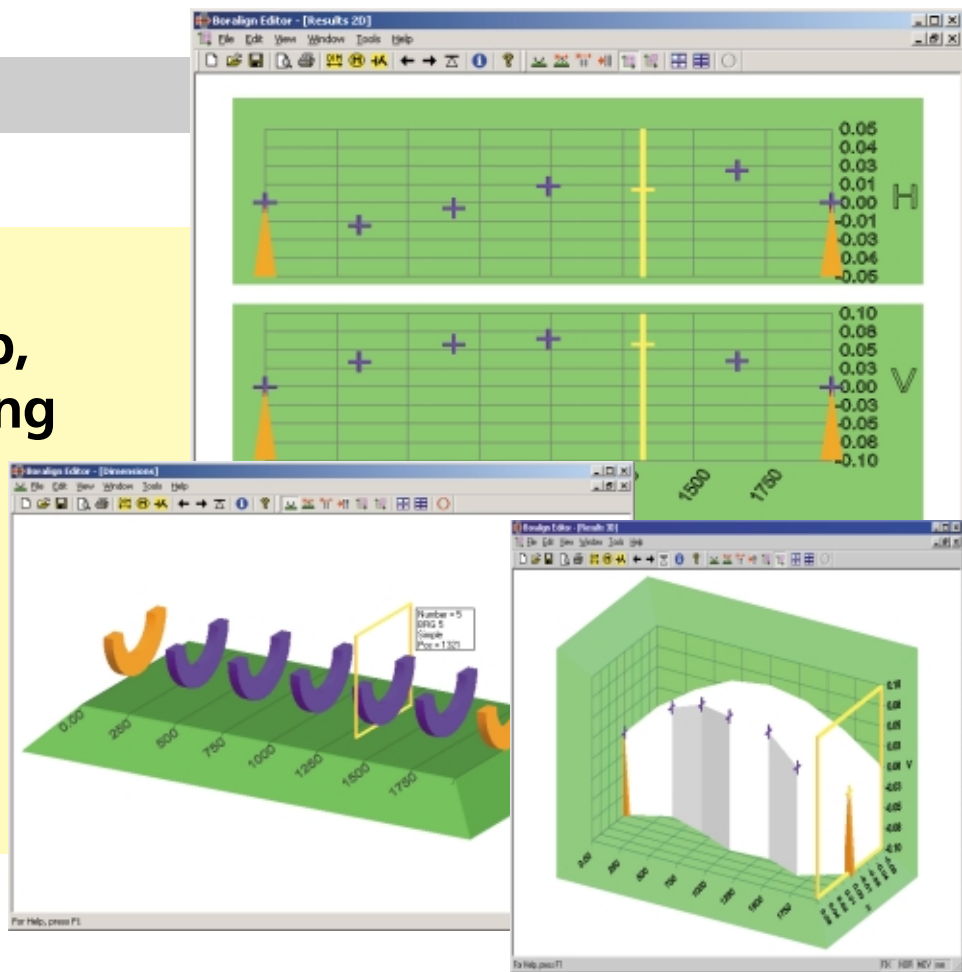


### Review results

- Results traceable to National Standards
- Set the centerline relative to any fixed bores

## PC software for advance job setup, archival & reporting

BORALIGN® Editor lets you set up bore alignment jobs in advance, permanently archive measurement files with Alignment Explorer, and create versatile customized color reports complying with ISO standards - all with the convenience of Windows. It displays 3D views of bore setups which can be rotated and viewed from different perspectives. The results are also displayed in 2D and 3D views.



## Patented system brackets

The BORALIGN® range of brackets are specifically designed for ease of use and extremely high accuracy. They can be inserted in bores from as small as 120 mm in diameter to 4000 mm. An integrated magnetic fixture keeps the bracket frame in place within the bore. A rotating component permits the sensor to be quickly centered and rotated within the bore. Readings can be taken in Sweep, Multipoint, or Static Modes. Brackets come with all components in their own carrying case. Bracket assembly and installation instructions are also included. (U.S. Patent 5,717,491)



Please see the ROTALIGN® PRO leaflet for technical specifications.



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Printed in Germany ALI 9.682.09.01.LUD  
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