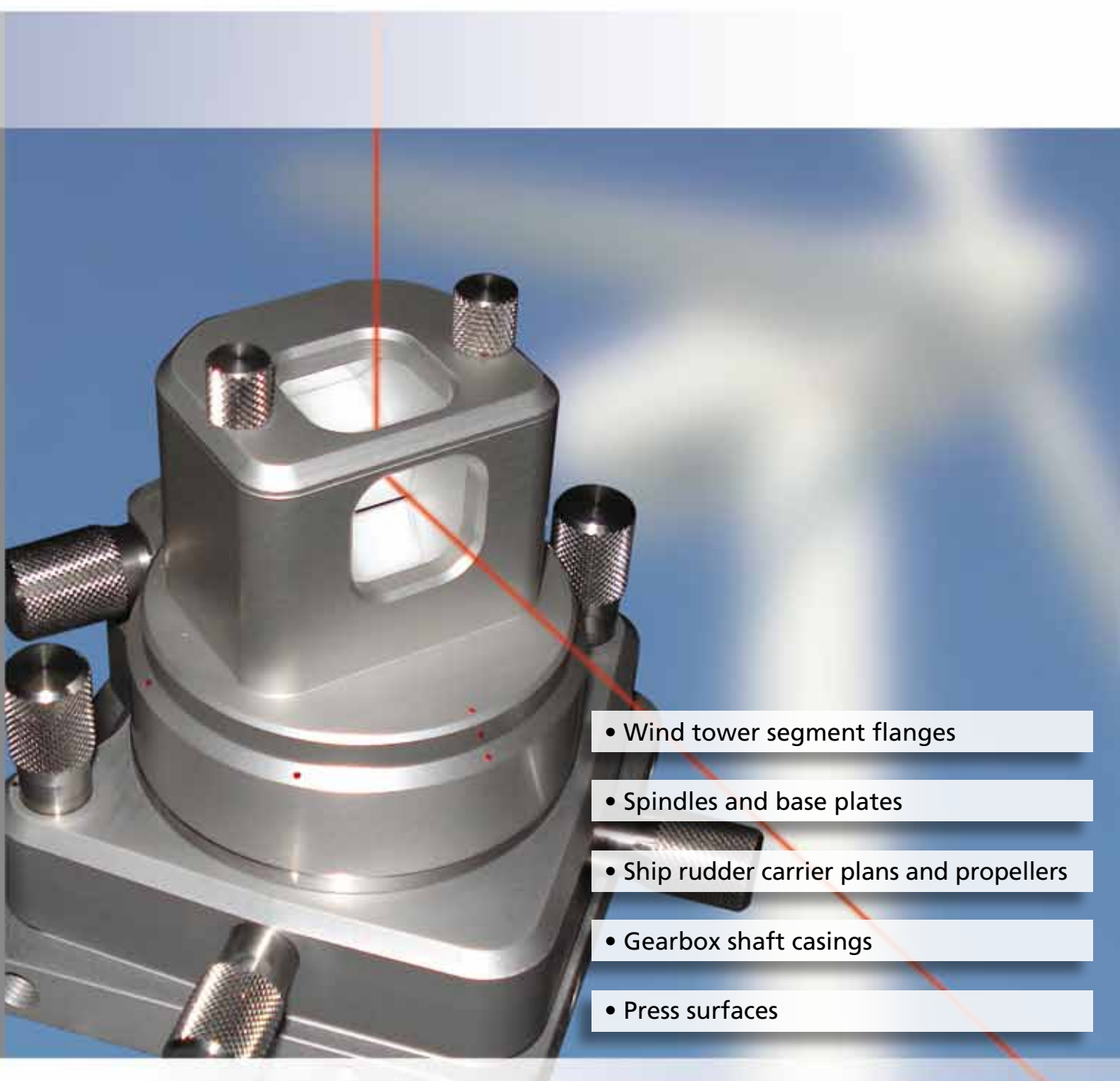


PENTALIGN®

Measuring perpendicularity and parallelism
of axes and planes



• Wind tower segment flanges

• Spindles and base plates

• Ship rudder carrier plans and propellers

• Gearbox shaft casings

• Press surfaces

PENTALIGN®

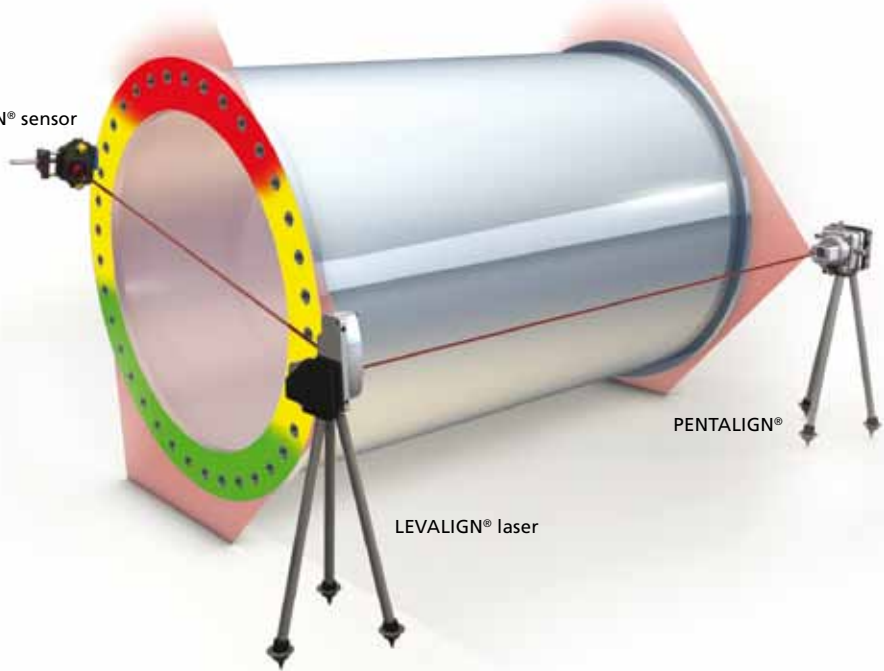
PENTALIGN® is a high accuracy rotatable pentaprism. Used in combination with an external laser source it creates a precise perpendicular laser plane to the incident beam.

Furthermore the centering sensor enables the accurate adjustment of the pentaprism rotating axis to the reference laser in order to minimise the deviation of the outgoing beam. The device can be adjusted with high precision on 5 axes: vertical and horizontal offset, vertical, horizontal and axial angle.

Its small size and various fixation possibilities such as magnets, tripods, rods and flanges make it the perfect tool to measure perpendicularity between spindle and base plate of drilling machines or ship rudder carrier plans. It can also be used to determine surface parallelism of wind tower segment flanges, gearbox shaft casings, press surfaces and ship propellers.



ROTALIGN® sensor



PENTALIGN® is the perfect complement to LEVALIGN® laser. Combined with the ROTALIGN® Ultra computer and ALIGNMENT CENTER PC software, they provide the ultimate surface parallelism measurement system.

Powerful features

5-axis fine adjustment base

360° axis rotation

Built-in magnets for easy and flexible fixation

Optional mounting offset table for adjustment of big offsets

Optional 2-axis high accuracy centering sensor

Compact and light housing

The compact 5-axis fine adjustment base with built-in magnets, fixation holes and tripod thread adapter offers an extremely flexible mounting to suit a variety of application requirements.

More adjustment freedom

The PENTALIGN® offset table is an important add-on when large offset adjustments are required. It offers a wide range of installation possibilities for tripods, flanges, walls and foundations. An ingenious mechanism offers 2-axis offset adjustment independent of vertical or horizontal installation.

Why center the pentaprism?

Pentaprisms reflect laser beams precisely through 90 degrees. As soon as they are rotated to create a laser plane, any offset between the laser and the rotation axis of the prism impact the resulting plane flatness accuracy with twice the offset value. An accurate initial adjustment minimizes the offset position of the laser plane. The high precision 2-axis adjustment sensor allows the alignment of the pentaprism rotation axis to the laser beam for accurate flatness measurement of perpendicular surface.



PRUFTECHNIK
Alignment Systems GmbH
Freisinger Str. 34
85737 Ismaning
Germany
Tel. +49 89 99616-0
Fax. +49 89 99616-100
info@pruftechnik.com
www.pruftechnik.com