

# CSDchek<sup>®</sup>

Checking crankshaft web deflection using laser technology



Number 1 in laser precision alignment



**PRÜFTECHNIK**  
Alignment Systems

# CSDchek®

A revolution in measuring web deflection.

## Features

Measurement mode: Five-point-measurement or SWEEP mode

Laser-based measurement system

Wireless data acquisition via Bluetooth® RF module

Results in 3 CSDchek® steps: Dimension, Measurement, Result

On-screen laser adjustment

Control Unit: Commercial mobile phone (Java program)

Magnetic brackets allow flexible mounting on top or on inner side of crankweb

Report saved in HTML format

No report saving limitations

No limitation on numbers of cylinders

Lightweight measurement system



## CSDchek® at a glance

Measurement of crankshaft web deflection

Wireless data acquisition by using Bluetooth®

No need to enter slippery and hazardous bottom of large engines

Uses laser beam technology

Send data via USB to PC/notebook

## CSDchek® benefits

Laser technology makes measurements easy

CSDchek® and SWEEP mode reduce measurement time significantly

Save reports in digital form

Report generation on PC in HTML format

Wireless Bluetooth® communication minimizes the risk of potential injury

Resume capability

Internal electronical inclinometer

PRÜFTECHNIK Alignment Systems, known for high precision laser shaft alignment systems, has developed a new laser measurement system: CSDchek®. CSDchek® does measure the crankshaft web deflection of large engines and reciprocating compressors.



## Crank Shaft web Deflection

The importance of verifying the distortion of crankshafts in large engines is common knowledge in marine and other related industries. PRÜFTECHNIK has developed CSDchek® - a safer, faster and reliable measurement system. CSDchek® uses wireless Bluetooth® communication and laser based measurement technology. With CSDchek®, we are using our vast experience in laser technology applications to cover key requirements in the maintenance assessment of large diesel engines - engines prevalent in the shipping industry - and reciprocating compressors.

### Three steps to result

- 1 Enter machine data and dimensions
- 2 Center laser beam by adjusting the reflector and rotate crankshaft
- 3 View horizontal and vertical results

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