Checking crankshaft web deflection using laser technology

Number 1 in laser precision alignment
Crankshaft web deflection

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

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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