

SINGLE LASER TECHNOLOGY UNIBEAM

The unique single laser / sensor technology guarantees that the laser set-up and beam adjustment for all PRUFTECHNIK alignment systems remain quick and straightforward even in case of extreme angularity, compared to technologies using two laser beams.

sensALIGN®

Unique and patented sensor technology with an in-built inclinometer using MEMS, a 7-axis measurement system with an XXL HD PSD sensor. The sensALIGN® technology powers the intelligent shaft features intelliSWEEP®, intelliPOINT, intelliPASS, vertiSWEEP®, Simultaneous Live Move and Quality Factor for repeatable precision and any misalignment condition.

INTELLISWEEP®

The intelligent intelliSWEEP® HD measurement mode actively supports the user by detecting error influences such as coupling play, rotational angle or environmental vibration and automatically eliminates poor quality measurement points. As shaft rotates, a large number of points are automatically and continuously recorded. This enables far higher measurement precision and greater usability when compared to methods based on three measurement positions.

INTELLIPASS

Intelligent measurement mode for uncoupled machines, based on intelliSWEEP®. Rotate the sensALIGN® measurements heads past one another in several different rotational positions and measurements are automatically taken when the laser beam passes through the middle sector of the sensor.

QUALITY FACTOR

Real-time measurement data quality assessment based on a unique set of factors such as coupling play, rotation speed and backlash. It even includes environmental vibration, which is unique to PRUFTECHNIK systems. Poor quality measurement points are automatically eliminated, or can be manually removed from the measurement by the user.

MULTI-COUPLING SIMULTANEOUS LIVE MOVE

Multi-coupling Live Move enables monitoring the machine corrections for up to 6 couplings simultaneously, cutting the alignment time in half compared to non simultaneous move assistants. Both vertical and horizontal adjustments are monitored and displayed in real time and can be started at any sensor position.

VERTISWEEP®

Intelligent measurement mode for vertical shafts, based on intelliSWEEP. Vertical measurement becomes as easy as horizontal alignment thanks to the vertical continuous measurement mode vertiSWEEP. Just rotate the shaft continuously to automatically measure flange-mounted vertical machines.

MOVE SIMULATOR

The Move Simulator is a very useful and popular feature that enables the user to simulate shim values and horizontal movement corrections before adjustment. This is especially useful in case of space and shimming restriction.

MULTI-COUPLING LIVE TREND

With Multi-Coupling Live Trend, entire machine trains with up to 6 coupling shafts can be monitored simultaneously. Live Trend is used to monitor and analyze thermal or process-related machine positional changes during run-up and coast-down phases, while recording machine vibration. The resulting target values or alignment presets can be used during shaft alignment to ensure optimum alignment of the machine in operating condition.

VIBRATION CHECK

The sensALIGN® sensor, used with the vibration check probe measures vibration velocity. Vibration measurement after alignment confirms good alignment and ensures optimum operation.

CARDAN SHAFT ALIGNMENT

Unique and patented measurement method enabling cardan shaft alignment in-situ, i.e. without removal of the shaft.