

AVV-701Pro

The **Professional** alignment system that quickly and accurately measures to align at higher level

- ▶ Coupling shaft alignment
- ▶ Bore & engine pockets alignment
- ▶ Spindle alignment
- ▶ Cardan shaft
- ▶ Flatness measurement
- ▶ Straightness measurement



Advantages at glance

- ☺ Complete hardware, software and various brackets option to meet application and budget requirement
- ☺ Simple and quick setup from benefits of direct single plane 2-axis detector reduce set-up time & measuring process
- ☺ User defined fix/reference points for bore & flatness
- ☺ Up to 1600 flatness points in single flatness work piece, i.e. no more complication in joining of data file.
- ☺ Tolerance setting
- ☺ True measurement of bores any 3 /4 /8-points by high accurate rotating center bracket
- ☺ Flexible plane sequence on any bore
- ☺ True graphical of actual bore position at every 1° rotation
- ☺ Analysis of bore roundness and measurement reliability
- ☺ Variety of flatness plane selection, Abs, BestFit & Ref. fixed.
- ☺ Result value in all positive (+), all negative (-) or negative & positive (±)
- ☺ PC report for documentation and database management via USB communication
- ☺ Customize report detail with company logo
- ☺ More fundamental shaft alignment advantages can be read from std AVV-701 brochure

AVV701Pro system support and offer application solutions as on:

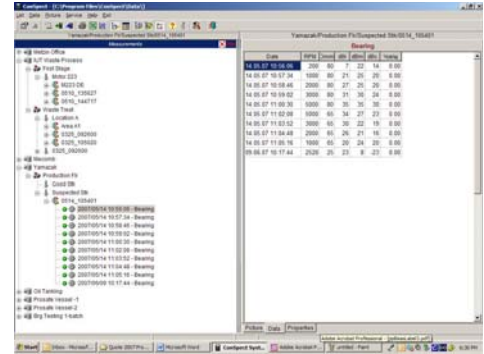
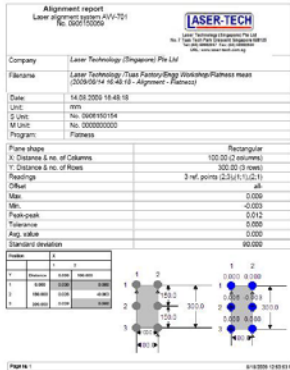
Profile of any of the following surface:

- Machine foundations
- Crane slewing rings
- Compressors, pump and turbine half casing
- Bed plates and flatness tables
- Any rectangular and circular flanges
- Gear pedestal
- Measurement of perpendicularity

Profile of any of the following bore:

- Engine pockets
- Stern-tube
- Pump bearing housing
- Small turbine diaphragm

AVV-701Pro from world leading laser measurement system for better machine availability and productivity



Sample Flatness & Bore Alignment Reports from ConSpect Software

ConSpect PC Window Software for Database Archive and Reports of Measured Values

Optional Hardware for Application requirements



KRL-25 Rotating Laser
(Front and top view)



KLR-20 Long Range Laser
(Front & side view)



Bore Rotating Bracket



Straightness Bracket

Distributor

TECHNICAL SPECIFICATIONS

System & Display

- | | |
|--------------------------|--|
| Housing | Aluminum alloy |
| Environmental Protection | IP 65 (water spray resistant, shock and dustproof) |
| Display Size & Type | 61x61mm; Backlite dot matrix LCD |
| Display Resolution | 0.01mm, 0.001mm |
| Rechargeable battery | 4x 1.2 Volts |
| Memory | 2Mb (expandable to 1GB optional) |
| Data Storage Format | User defined folder and real-time |
| User Interface | Alphanumeric direct 17 key |
| Output Interface | Two-way high speed USB |
| Operating Temperature | 0°C to 55°C |
| Power Supply | Built-in Rechargeable or AC adaptor direct |
| Component Weight | approx.600g |

Transducers (Std Laser & Sensors)

- | | |
|-------------------------|-----------------|
| Measurement Resolution | 0.001mm |
| Electronic Inclinometer | 0.1° resolution |
| Detectors | 10x10mm PSD |
| Measurement Range | max. 10m |
| Operating Temperature | 0°C to 55°C |
| Component Weight | approx. 255g |

KRL-25 Rotating Laser

- | | |
|-------------------------------------|--|
| Beam diameter | approx. 5mm |
| Laser Class & Wavelength | Class-II safe Diode Laser; 635-670nm visible |
| Accuracy | < 0.02 mm/m |
| Output | < 1mW |
| Beam Divergence | < 0.2mrad |
| Working Range | 25m radius |
| Leveling Range | ±40mm/m |
| Squareness H / V Beam | 0.01mm/m [2arc sec.] |
| Offset Over 360 | < 20um |
| Cone Resolution | <0.02mm/m |
| Fine Adjustment Resolution | ±5mm/m |
| Operating Life | 50hrs continuous |
| Power Supply | 9Volts Alkaline |
| Housing | Anodized Aluminum |
| Component Weight incl. Base Bracket | approx.2kg |

KLR20 Long Range Laser

- | | |
|--------------------------|--|
| Beam diameter | approx. 5mm |
| Laser Class & Wavelength | Class-II safe Diode Laser; 635-670nm visible |
| Accuracy | < 0.02 mm/m |
| Output | < 1mW |
| Beam Divergence | < 0.2mrad |
| Max. Range | 25m |
| Laser Adjustment | ± 2° (±35mm/m) |
| Operating Life | 40hrs continuous |
| Power Supply | 9Volts Alkaline |
| Housing | Anodized Aluminum |
| Component Weight | approx. 600grams |