



Latest AVV-701Pro – Advance Laser Geometrical and Shaft Alignment System with Precision and Reliability

The AVV-701Pro professional geo system has been developed by experiences engineers to solve measurement and alignment problem. Application requirement option means that user no longer need to pay huge amount for geometrical alignment system. AVV-701Pro allows system capability to expand with add-on accessories and adapt it to the specific situation.

Measurement programs and built-in features include:

- Horizontal machines with reduced angle (min.60°) at any 90° position
- Vertical shaft and flange mounted machines,
- Bore pocket for engine, stern-tube, bearing housing, extruder,
- Flatness for machine foot, crane pedestal, machinery casing,
- Straightness for machine guide rail,
- Spindle on lathe milling machine
- Save hundreds of measured result with data management capability within device
- ConSpect Database software for data archive, maintenance management and report print just via USB communication.



New! KOHTECT C911 – Dual Channel Data Collector, Signal Analyzer with Bearing condition & Balancing or add-on Shaft Alignment

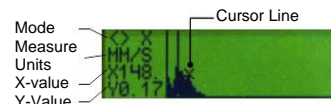
The C911 offers a high performance 6400 lines, extra power and convenience of two-channel FFT data measurement and signal analysis. It can be used in almost every industrial maintenance for quick monitoring, bearing condition check and FFT signal diagnosis of machine condition. It also allows correction of dynamic imbalance machine with up to 8-planes mode. The analyzer is compact and weight only around 800g with IP 65 rugged housing design to withstand for harsh field environment.

Option of *add-on laser alignment capability* delivers a premium return on investment for C911-SA.



New! Intrinsically Safe EX Vibration Pen

STD500: Vibration Data Collector pen is an ultra-portable vibration-measuring instrument with internal spectrum analysis functions. It is used for regular machinery condition monitoring. Intrinsically safe for hazardous area with approval IEC Ex 1ExibIIBT3



Latest Intrinsically Safe EX Instrument!

STD510: FFT Vibration Data Collector & Analyzer

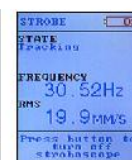
STD-510 is a portable one-channel vibration measuring and analyzing instrument with internal spectrum analysis functions. It has external sensor, color display and input for stroboscope for rotating parts monitoring and dynamic balancing.

Intrinsically safe for hazardous area with approval IECEx 1ExibIIBT4



Analysis mode 3200 lines on Screen

Stroboscope operation Screen





Latest! METZIN MVB-55001: Palm Portable Flexible Industrial Video Boroscope

The new revolutionary palm-sized portable flexible video Boroscope with integrated monitor and video/ image capture offers operators a video image of the inspection area. This Boroscope is equipped with a powerful LED Light Source; Ø 5.5 mm tube and 3.5" TFT display screen can perform all types of remote visual inspections with inter-changeable video probes that allow access to nearly any area. Interchangeable tube of working length available: std 1m and optional of 2m, 3m or 10m.

Seiffert SX-5100: RollCheck alignment system

Laser for accurate visual check on roll / press – Rolls are align vertically and parallel alignment with simple, fast and effective RollCheck system by Seiffert Industrial from USA. System angular accuracy up to 0.0005"/foot. Suitable for application: steel mills, pulp & paper & newspaper printing industries



Laser Pulley Alignment

Laser pulley alignment system is a lightweight, compact and durable device with magnetically attaches to the inside or outside face of any pulley or sprocket and has no small parts to get lost. Using proven **reflected beam technology** for maximum angular resolution and thus provide the most reliable and accurate readings that no other method or tool can match.

DIMETIX contact less laser distance monitoring and measuring device by Swiss Technology – DLS laser from Swiss precise measurement in extreme situations. DLS measure absolute distance of up to 500m with a precision of 1.5mm.



Best products awards for Year 2007 and 2008!

Date (Time)	Location	Measured (mm)	Results of diagnosis, recommendations	Reading	OK
5/14/2007 10:50:00 + 2000	80	7	22 14 The generation of debris of bearing, badness condition of lubrication. Repair action of lubrication.	☹️	☹️
5/14/2007 10:57:34 + 1000	80	21	25 The generation of debris of bearing, badness condition of lubrication. Repair action of lubrication.	☹️	☹️
5/14/2007 10:58:46 + 2000	80	27	25 The generation of debris of bearing, badness condition of lubrication. Repair action of lubrication.	☹️	☹️
5/14/2007 10:59:02 + 3000	80	31	24 High temperature, badness condition of lubrication. Repair action of lubrication.	☹️	☹️
5/14/2007 11:00:20 + 1000	80	38	38 38 38 Significant defect.	☹️	☹️
5/14/2007 11:00:36 + 1000	80	34	27 23 The generation of debris of bearing, badness condition of lubrication. Repair action of lubrication.	☹️	☹️
5/14/2007 11:01:52 + 3000	80	38	38 38 38 The generation of debris of bearing, badness condition of lubrication. Repair action of lubrication.	☹️	☹️
5/14/2007 11:04:46 + 2000	80	28	21 16 The generation of debris of bearing, badness condition of lubrication. Repair action of lubrication.	☹️	☹️
5/14/2007 11:05:16 + 1000	80	25	24 24 The generation of debris of bearing, badness condition of lubrication. Repair action of lubrication.	☹️	☹️
5/14/2007 10:11:44:46 2020	23	4	4 4 4 Good state of bearing. Good state of oil.	☺️	☺️

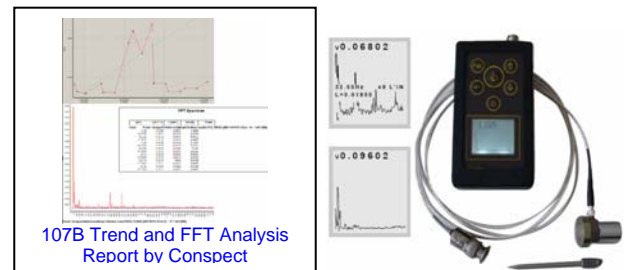
BT-77 Bearing & lubrication Report

KOHTECT BT-77: Bearing Diagnostic Tester

Simple in-situ bearing tester by proven shock pulse technique to measure roller bearing lubrication & operating condition. Indicate lubrication film fan bearing surface defect. Save hundred of bearing data in device, transfer to PC high speed USB cable interface for database management and report print. Built-in IR non contact tachometer measured: RPM= 50-30000.

KOHTECT 107B: Compact FFT Vibrometer w/database Software

The most compact and robust FFT Vibrometer with spectrum that provide up to 800 lines spectrum in logarithmic/linear view, and overall ISO 10816 vibration measurement reference: Measure Acceleration, Velocity and Displacement machinery vibration. Save hundred of data in device, upload to PC for data management and print vibration data via USB cable. Two-way PC com for set-up measurement route on device.





*Automatic! Very Easy to Use!!
Perfect Tool for Predictive
Maintenance!!!*

ALL-Test Pro 31 & ALL-Test VI Pro 2000: Motor Winding Tester / Motor Winding Analyzer is a unique electrical predictive instrument that performs a series of impedance-based tests, (phase angle, impedance, and a current / frequency ratio) on each winding. These measurements and their balance across the three phases provide a clear picture of the condition of the motor circuit and quickly indicate the presence of a fault, even at its earliest stages. The tests are preformed at low AC voltages, so there is no stress to the windings.

Turn, coil, and phase shorts, broken rotor bars, casting voids, winding contamination, poor connections, phase imbalances... you can identify or eliminate them all when you troubleshoot with an ALL-TEST PRO™.

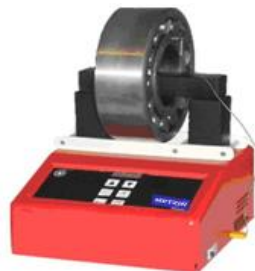
Ultrasonic SteamTector from USA – For industrial steam trap testing nothing can compare! The contact sensor is a proprietary design that delivers a clear signal which is surprisingly free of hiss or electrical "noise". The SteamTector 2 will accurately test steam traps and valves for internal leaks. It will allow you to accurately record the ultra-sonic sound signatures of bearings and other moving machinery to gauge the extent of wear, and predict failure BEFORE it occurs.



METZIN Induction Heater – *Faster, easier and safer way to shrink fitting in workshop or at site.*

Induction Bearing Heater by Eddy current principle similar to a transformer, is the superior method of expanding bearings, gears, sprockets, couplings and sleeves. For placement on shafts, it is the safest, quickest, most economical method of applying heat.

It resulted with perfectly even heating of only inner ring, with avoid damaged of parts that due to overheating. Apart bearing, it is ideal for shrinking gears, pinions, couplings, belt wheels, pistons, seal, sleeve and linings of all sizes.



Line Belt Tension Optical Measuring kit. provides as easy, reliable method for accurately measuring static tension in flat, V, cog or toothed belts of rubber, leather, fabric, plastic and composite materials. The LED-optical sensor converts the signal to a pre-selected reading of either Belts Vibration Frequency (Hertz) or Belt Tension (Newtons [N] pr pounds/ force [lbf] .



METZ™ Alignment Precut Shim: Precut Shims are made of stainless steel 304 full hard material protected against rust and deformation.. All shims are laser treated and marked with thickness and size to facilitate identification and re-use. It come in a durable light-weight air-tight storage carrying case with size divider kits. Each size is available in individual packages for convenience transport. Seven most common use shim thicknesses allow all possible shim change combination with a max. of 3 shims. Burr-free for higher accuracy and safety in precision machinery alignment work.

New Innovative & Technology Maintenance - for perfect maintenance quality!



TIME Handy Ultrasonic Thickness Gauge - T series measured 1.5mm up to 300mm thickness materials thickness with quick, ease and accurate readings. Suitable for most metallic and non-metallic materials and memory for 500 stored values.



TIME Surface roughness tester - TR200 series is a compact surface roughness tester with stylus position indicator to measure metal and non-metal parts with digital display. Result can be output direct to printer or PC using RS232 interface.



New METZIN AR300: Non-contact Infrared Thermometer

The new handy and economical Non-contact IR Thermometer for light to heavy industry – Food QC., electrical panel, machinery casing, body temperature, etc



Still tape measure? Smallest & economical Leica D2 and D3 DISTO™ laser distance meter - the smallest and lightest innovative hand-held laser meter from the inventor for fast and easy distance measurements of length, squares, angle and volumes with the press of a button. Save time and money and emphasise your competence with modern measuring methods.



Alignment training rig – Special designed portable alignment training rig on shaft and pulley offer to industrial training center.



Anything About Maintenance and Reliability – we can help you!

Apart from products consulting, we are also providing training course, **industrial & technical services consulting** to improve your maintenance performance



In-house Training on laser alignment & Vibration

Industrial Field Services, alignment, vibration, boring, flatness, milling

Operation Office:

METZIN Technologies & Consulting Pte Ltd.
No.7 Tuas, Tech Park Crescent
Singapore 638125
Co. & GST Reg. No: 200614670Z

Tel: +65 6898 2957 / 9738 8913
Fax: +65 6259 0892
Email: info@metzin.com
www.metzin.com

New Innovative & Technology Maintenance - for perfect maintenance quality!