

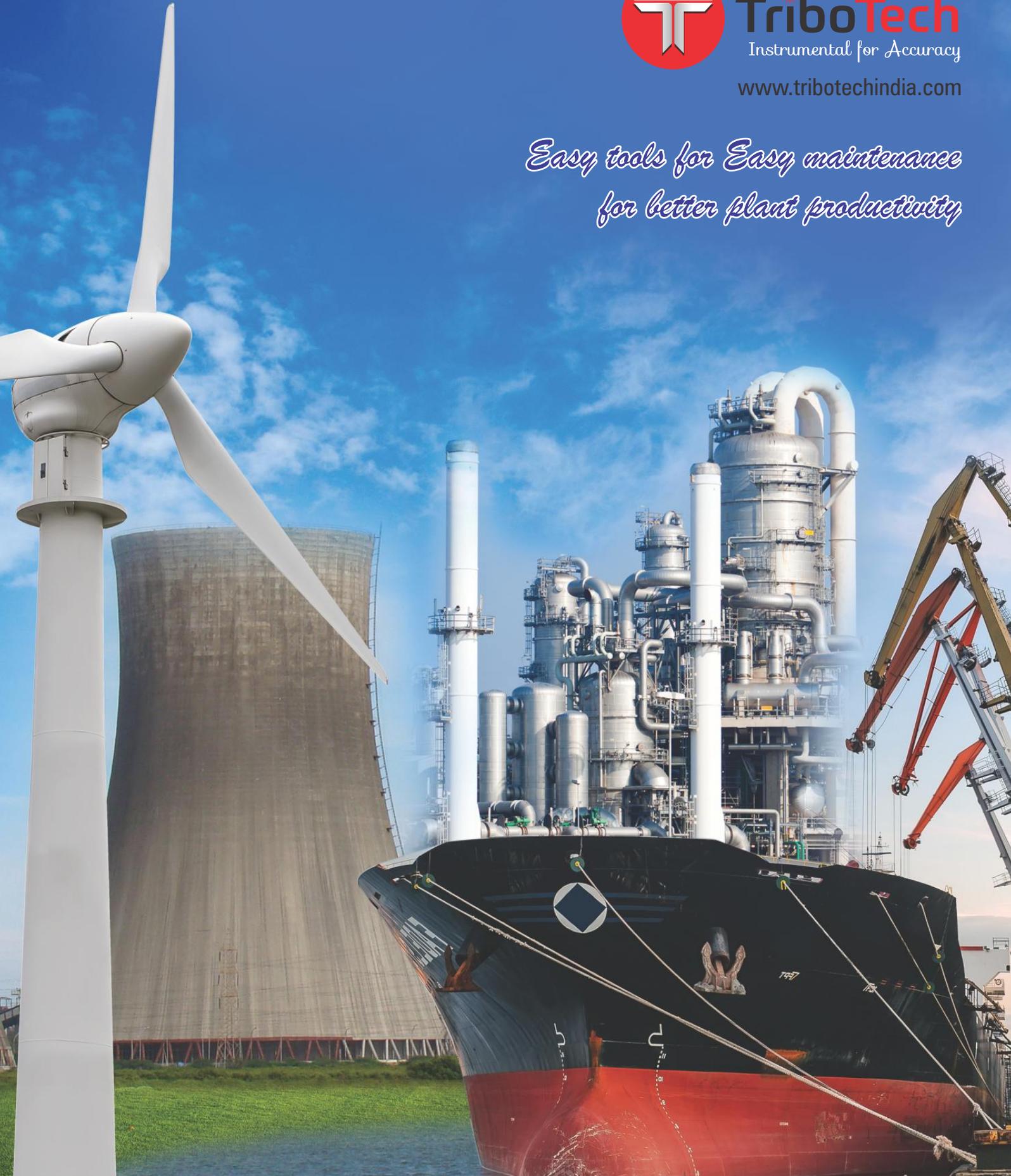


**TriboTech**

Instrumental for Accuracy

[www.tribotechindia.com](http://www.tribotechindia.com)

*Easy tools for Easy maintenance  
for better plant productivity*



LASER ALIGNMENT SYSTEMS



CONDITION MONITORING



MAINTENANCE PRODUCTS



MEASURING TOOLS



Tribotech established in 1994 is Instrumental for Accuracy in Maintenance and Inspection field for today's demanding industry. We have range of products to meet plant trouble free operations.

**WHY US**

- Best In Class Products and Brands
- Support and Repairs in India
- On time Sale Delivery & Reliable after sales service
- We represent world renowned companies
- We have a Good team work

T	Tougher Products
R	Reliable
I	Innovative
B	Better Service
O	Optimum Utilisation
T	Technologically Advance
E	Edge Over Competition
C	Customer Satisfaction
H	Higher Efficiency

**TechServices**  
Reliability Through Accuracy

**OUR SERVICE ARM**

- measurement services
- In House And Outdoor Training
- Wheel Alignment Services
- Repair & Calibration Services

We at TRIBOTECH have enriched in past 28 years to cater to the growing demand for quality and reliable technical support in repair and services we have launched our services company TECHSERVICES around 12 years back. TECHSERVICES is now full-fledged authorized center for repair and calibration facilities catering to India and neighboring countries customer.

**WE REPRESENT**

**LASER ALIGNMENT**

- EASY-LASER®**  
Swedish make Laser Alignment and Measurement systems
- EZY**  
Imported or Indian make Pre-cut and Custom Made Shims
- PRECISION BRAND**  
Patented American make Elastometric Shims

**CONDITION MONITORING**

- WV**  
Swedish make Vibration Measurement & Online Measurement
- compact INSTRUMENTS**  
Uk make Industrial Stethoscope and Speed Measurement
- LEAKSHOOTER**  
French make Leak Shooter and Steam Trap for Compresses Air Leaks
- LUNETTA**  
US make Condition Monitoring POD

**MAINTENANCE PRODUCTS**

- simatec® smart technologies**  
Swiss make Mounting tools
- POSI LOCK PULLER, INC.**  
US make Dismounting tools
- iDtools®**  
Holland make Flameless heaters
- NON SPARKING SAFETY TOOLS**  
Explosion proof Hand tools

**MEASURING TOOLS**

- HUK**  
German make Belt tensioner & Leak finder
- HUATEC industry instrumentation**  
Non-Destructive Testing meters
- PRISMATIBRO**  
Swedish make Crank Shaft deflection and Ovality Checker

# GENERATION XT



A declaration  
of independence



Easy-Laser® XT11/12 was awarded the iF DESIGN AWARD 2017 and Red Dot 2018 for its design, ergonomics and innovative features.



GET YOUR EASY-LASER® XT11/12 WITH THERMAL CAMERA!



**XT980**  
**XT770**  
**XT660**  
**XT550** <sup>Ex</sup>  
**XT440**  
**XT290**  
**XT280**  
**XT190**  
**XT22**  
**XT20**



**All XT programs in one free app**  
All XT measurement programs in one straightforward application available for free. Functionality for iOS, Android and Easy-Laser® XT display units.



**Maximum flexibility and trainability!**  
Purchase multiple systems with various capabilities, train once! The training costs are minimized significantly since the app interface and basic functionality is identical for all systems.



**No lock-ins**  
Buy with or without the user-friendly, shockproof and waterproof Easy-Laser® XT11/12 display unit.



**Long operating times**  
The long operating times of up to 16 hours for the Display unit and 24 hours for the Measuring units mean even the toughest jobs will be finished on time with no interruptions.

## Generation XT features

\*Accessory required \*\*Also with XT550.

XT440						XT550 / XT660			XT770		
Horizontal	Vertical	Soft foot	V 0.00 H 0.00 Values (Digital dials)	Built-in help	Vibration *	Cardan/Offset mounted *	3 machine train	Continuous sweep	Machine train **	EasyTrend *	Basic flatness *
Multi-lingual	Wide live adjustment	9-12-3	EasyTurn	Belt alignment *	Level *	Multipoint	Uncoupled sweep	Twist	360° live adjustment	Adjustment guide **	Straightness *



# LASER ALIGNMENT

## EASY-LASER®

### SHAFT ALIGNMENT

### GENERATION XT

THE AGE OF MEASUREMENT INDEPENDENCE IS HERE!



#### Easy-Laser®XT770 - WIRELESS & DOT LASER-ADVANCE SYSTEM



Easy-Laser®XT770 is the most Advance Dot laser Generation XT alignment system. For solving measurement and alignment problems of all Kinds of machine types. **Easy-Laser®XT770 Features :**

- 360Live at any angle
- Machine movement over time with Easy-trend Program
- Continuous Sweep and multipoint measurements
- Uncoupled Sweep for uncoupled Shaft
- Programs for Horizontal and Vertical flange mounted M/c
- Unlimited Machine Train
- Cardan machine alignment with optional bracketing
- Twist/flatness measurement of machine base.

**Easy-Laser®XT770 Shaft / Geo.:** This version of XT770 includes GEO kit with Laser transmitter XT20.

#### Easy-Laser®XT660 - WIRELESS & DOT LASER - FOR LARGER MACHINES



Easy-Laser®XT660 is a powerful Dot Laser XT alignment system measures larger machines and longer spans for all major machine setup and maintenance. **Easy-Laser®XT660 features:**

- Continuous Sweep and Multipoint measurements
- Uncoupled Sweep for uncoupled Shaft
- Programs for Horizontal and Vertical flange mounted M/c
- Machine Train upto 3 machines
- Cardan machine alignment with optional bracketing
- Twist/flatness measurement of machine base.

#### Easy-Laser®XT550 WIRELESS & DOT LASER - INTRINSICALLY SAFE



Easy-Laser®XT550 Ex/ATEX approved system has the same basic functionality as XT660. The difference is that it comes with a different display unit (Ex-Tab®) for use in potentially explosive areas, and can handle unlimited machine trains, plus it has the adjustment guide feature.

Measurement Units are approved according to:

- II 2 G, Ex ib op is IIC T4 Gb, -10°C ≤ Ta ≤ +50°C
- Presafe 17 ATEX 10552X, IECEx PRE 17.0049X

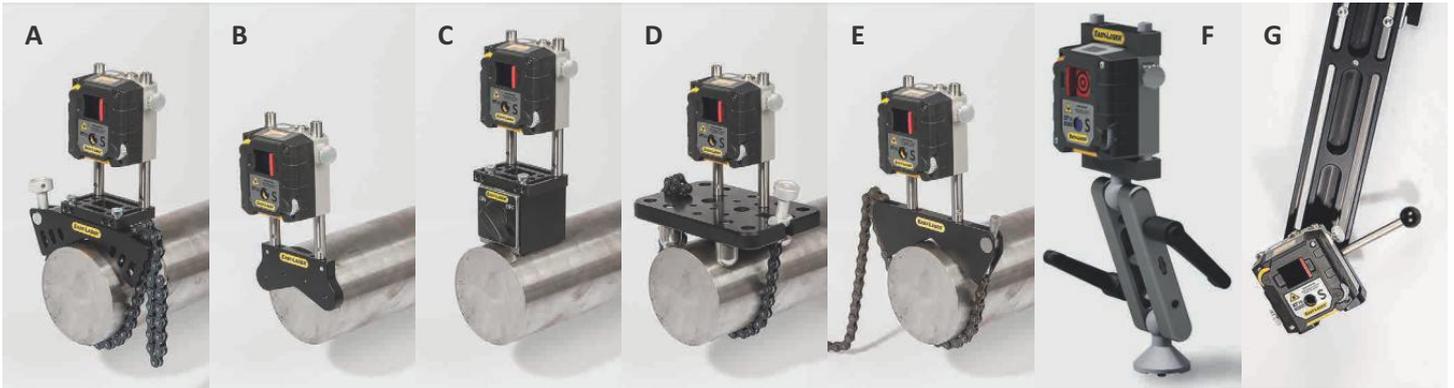


#### Easy-Laser®XT440 - WIRELESS AND LINE LASER - SHAFT ALIGNMENT SYSTEM



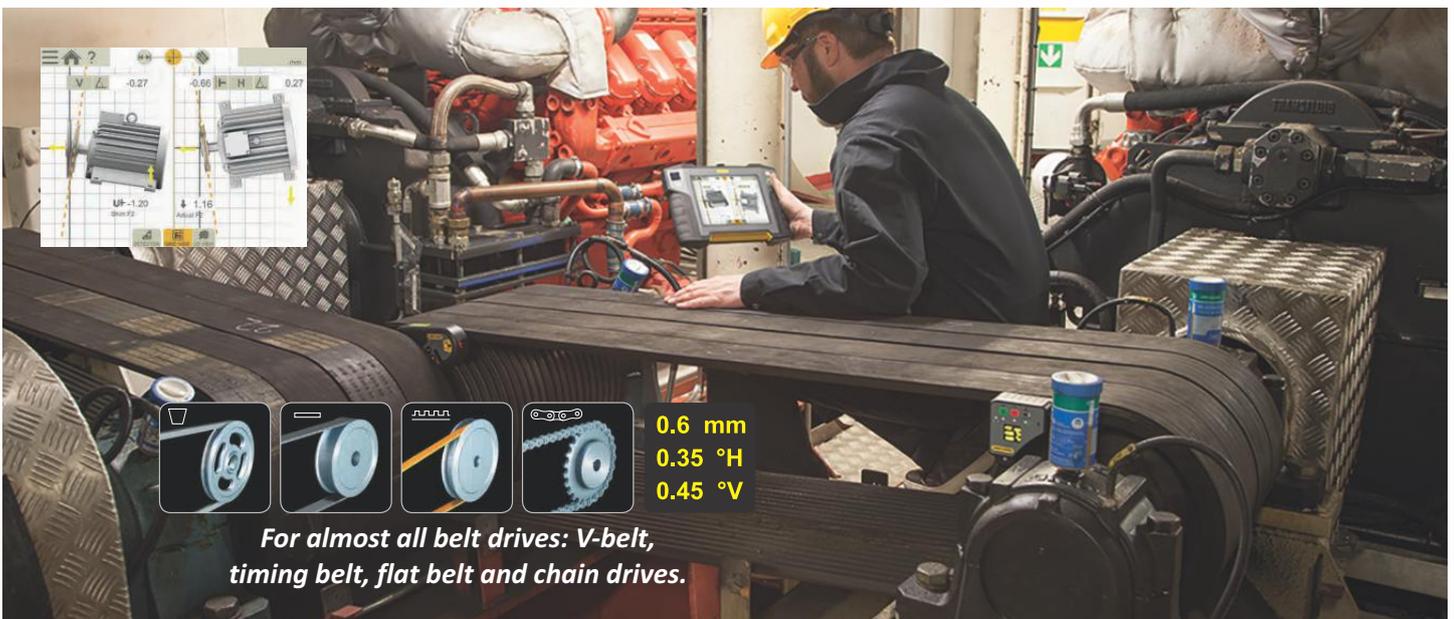
Easy-Laser®XT440 is the most versatile system with maximum flexibility in the market. It can do most application for normal Shaft alignment system required in today's demanding maintenance practices. **Easy-Laser®XT440** has functions which will cover most maintenance needs. Programs for Horizontal and Vertical flange mounted Machines. The system has programs to measure Horizontal, 9-12-3 measurements and Soft-foot.

## XT SHAFT BRACKETS



- A. Offset bracket
- B. Magnetic bracket\*
- C. Magnet base
- D. Sliding bracket
- E. Thin shaft bracket, Width 12 mm
- F. DM-bracket. For dynamic measurements. Complete kit with 2 brackets,
- G. Cardan bracket kit (Note: not all parts included shown on picture.)
- H. Extension rods (not pictured): Length 30 mm, 75 mm, 120 mm, 240 mm

## XT BELT ALIGNMENT



**Easy-Laser®XT190 BTA - DIGITAL:** Digitally displays the parallel and angular misalignment “live”. Use it as an add-on to the XT770/XT660/XT440 /E720/E710/E540 systems, or as a separate tool thanks to the built-in display. Or download the free XT Alignment app and use your iOS or Android phone/ tablet as display device! Align to specified tolerances, then document the result as PDF. Accuracy up to 0.01mm and 0.01mm per meter.

**Easy-Laser®XT92 BTA - VISUAL:** Laser tool with targets for accurate visual belt alignment. Accuracy up to 0.05mm

## XT VIBRATION MEASUREMENT

**Easy-Laser®XT280 VIB:** Easy-to-use vibration analyzer that quickly diagnoses vibration level, unbalance, misalignment, and looseness.

The direct readout of 1X, 2X, 3X RPM, total level as well as bearing condition provide necessary information during installation and alignment.

The XT280 connects to the XT alignment app, making it possible to document the result as PDF, with photo and comments for each measurement point.

7.5	ISO mm/s
23 BDU	0.4 g



## XT THERMAL CAMERA

**The Easy-Laser®XT11 / XT12 + THERMAL CAMERA**

The **Easy-Laser®XT11/XT12** Display unit has the option to add a thermal imaging camera (IR) along with the standard 13 MP digital camera. Shoot a thermal image before and after alignment and include with the documentation.



## XT DYNAMIC MEASUREMENTS

**Easy-Laser® XT DM-brackets:**

**Easy-Laser® XT DM-brackets** With the EasyTrend program for XT770 you can keep track of machine movement over time. For example you can check for thermal expansion and pipe strain issues. Requires optional DM-brackets.



## XT DIGITAL LEVEL

**Easy-Laser®XT290 Digital Level** - Digital levels are extremely useful tools for setting-up and aligning most types of machines. Use it for bases, rolls, etc. It is the must-have add-on to the **Easy-Laser®XT770/XT660/ XT440 systems**. Download the free XT Alignment app and use your iOS or Android phone/tablet as display, and/or the XT11/XT12. Document the result as PDF with photos. You can also use it as a separate tool thanks to the built-in display.



## XT GEOMETRIC KIT

Precision Laser Transmitter XT20 and XT22 with both transmitters can be used for flatness and straightness measurement. XT20 and XT22 both have inbuilt Bluetooth communication with Display Unit XT11/XT12 or Android device or any iOS device for calibration electronic precision vials. Both transmitters can also be used with E- Series detectors

- XT20 is IP55 can measure upto 20mts and 2 Digital levels Horizontal and Vertical.
- XT22 uses fiber laser technology it can direct the beam in 90 degrees plane to carry other applications like Squareness, parallelity etc. It can measure upto 40mts and 3 digital Levels two Horizontal and one Vertical.

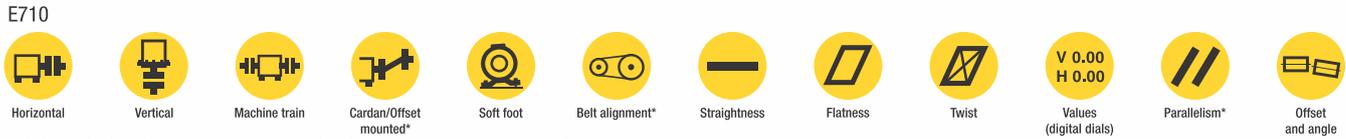


# EASY-LASER XT ALIGNMENT APP FOR GENERATION XT

	XT190	XT280	XT290	XT40-M/S XT440	XT50-M/S XT550	XT60-M/S XT660	XT20 XT70-M/S XT770	XT22 XT70-M XT980
<b>HORIZONTAL 9-12-3</b>				●	●	●	●	
<b>MACHINE TRAIN (UNLIMITED)</b>					●		●	
<b>MACHINE TRAIN (3 MACHINES/2 COUPLINGS)</b>					●	●	●	
<b>SOFT FOOT</b>				●	●	●	●	
<b>EASYTURN™</b>				●	●	●	●	
<b>MULTIPOINT HORIZONTAL SHAFT</b>					●	●	●	
<b>CONTINUOUS SWEEP HORIZONTAL SHAFT</b>					●	●	●	
<b>UNCOUPLED SWEEP</b>					●	●	●	
<b>WIDE LIVE</b> Allows for live adjustment at larger angles, vertically and horizontally separately.				●	●	●	●	
<b>360 LIVE</b> Allows for live adjustment at any position, in both directions simultaneously.							●	
<b>ADJUSTMENT GUIDE</b> Simulate effects of shimming to decide optimum adjustment. For programs Horizontal and Machine train.					●		●	
<b>VERTICAL/FLANGE MOUNTED</b>				●	●	●	●	
<b>CARDAN/OFFSET MOUNTED</b> (NOTE: Requires the Cardan bracket kit.)					●	●	●	
<b>VALUES (Digital Dial Indicator)</b> V 0.00 H 0.00				●	●	●	●	●
<b>LEVEL</b> Part of Values program. (NOTE: The level function requires XT290 Level.)			●	●	●	●	●	●
<b>TWIST</b> Check base twist and flatness with the M and S measuring units.					●	●	●	
<b>BASIC FLATNESS</b> Measure two rows of points, 2 to 8 at each. To be used with separate laser transmitter like the XT20, XT22 or D22.							●	●
<b>STRAIGHTNESS</b> For use with separate laser transmitter (e.g. XT20/XT22/D22).							●	●
<b>EASYTREND™</b> Monitor and record machine movement over time. (NOTE: The EasyTrend™ program requires DM-brackets.)							●	
<b>BELT TRANSMISSION ALIGNMENT</b> (NOTE: The Belt alignment program requires XT190 BTA.)	●			●	●	●	●	●
<b>VIBRATION MEASUREMENT</b> (NOTE: The Vibration measurement program requires XT280 VIB.)		●		●	●	●	●	●
<b>ONE FREE APP</b> All measurement programs in one app. Available functionality based on which measuring unit is connected.	●	●	●	●	●	●	●	●
<b>SHARE FILES</b> Share via email directly from your display unit.	●	●	●	●	●	●	●	●
<b>BUILT-IN HELP</b> Searchable Users Manual which opens the relevant chapter depending where in the process you are.	●	●	●	●	●	●	●	●
<b>MULTI-LINGUAL</b> The XT Alignment App is available in multiple languages: en / de / sv / es / pt / ru / ja / ko / zh / it / fr / pl / fi	●	●	●	●	●	●	●	●
<b>DOT LASER TECHNOLOGY – 2 AXIS</b>							●	●
<b>DOT LASER TECHNOLOGY – 1 AXIS</b>					●	●		
<b>LINE LASER TECHNOLOGY</b>	●			●				

## Programs E-series

E980 / E970 / E960 / E950 / E930 / E920 / E915# / E910#



#Only includes Flange programs and Values. \*Accessory required.

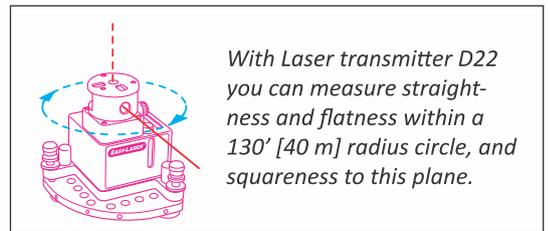
### Easy-Laser® E710 - HIGH END SHAFT / GEOMETRICAL SYSTEM



Easy-Laser® E710 handles all stages of machine set and alignment :

- Measure the base twist
- Correct Soft foot
- Measure misalignment
- Align the machine
- Measure Thermal Growth
- Documents the results

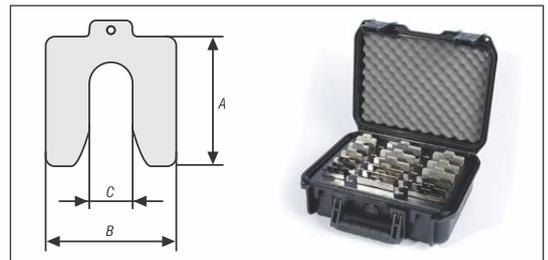
Optionally add Easy-Laser® Transmitter D22 the system is now ready to measure Straightness of pipes and Shafts, Flatness of base and surfaces. Easy-Laser® E710 + D22 is complete Geometrical system can perform any kind of machine set-up, quality check and alignment



### PRE-CUT MACHINERY SHIMS

EZY

Pre-punched, high-quality stainless-steel shims made of SS304 or other material of choice, makes alignment of your machines safer and easier. Shims are etched with size and thickness and quickly identifiable, burr free shims which are safe to handle. Small handy shim cases available of 180 shims and 360 shims for easy transport. Custom size shims and shapes available.



### SOFTSHOE® PATENTED ELASTOMER SHIMS



SoftShoe® elastomer shims solve angular soft foot alignment problems on motors, pumps, generators, turbines, and other plant machinery in minutes. SoftShoe® cures angular soft foot and extends bearing and motor life. It is an inexpensive alternative when compared to more time consuming and expensive options such as milling the base or foot, hand cutting graduated shims, replacing base, or rebuilding base with poured epoxy.



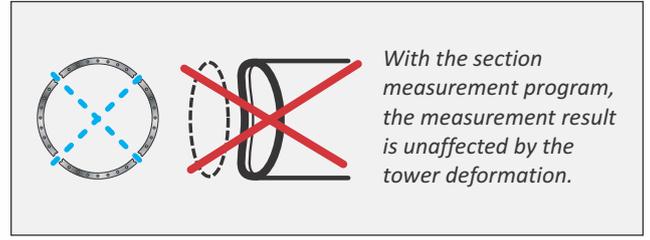
## Easy-Laser® E915 / E910 FLANGE FLATNESS

2 AXIS PSD  20 m / 66'  BARCODE SYSTEM 

For flange flatness measurement. See the result as a true 3D image in the display unit directly after measuring. Evaluate the result easily with different calculation settings directly on site without having to stop to go to a PC with separate analysis programs. This makes production much more efficient. Two Flange systems are available:

Easy-Laser® E915 with Spin Laser.

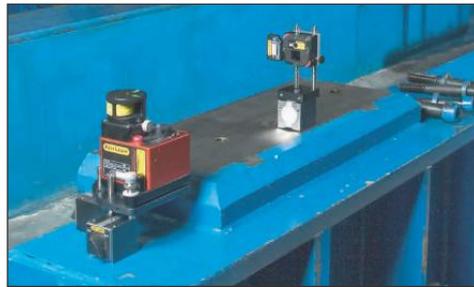
Easy-Laser® E910 with Swivel Laser.



## Easy-Laser® E920 GEOMETRICAL MEASUREMENT

2 AXIS PSD  40 m / 132'  BARCODE SYSTEM  HyperPSD™ 

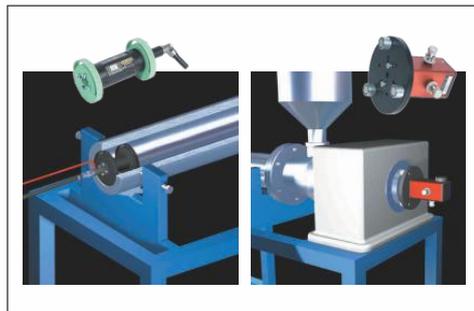
Easy-Laser® E920 system is a versatile system can be used to carry out all the most common geometric measurements; straightness, flatness, squareness, plumb and level. Measurement is quick and precise. Displayed resolution is 0.001 mm. The system can provide full documentation, with direct generation of PDF reports, and database programs for PC. The laser transmitter is our well known big seller, the D22 with leveling table, strong magnetic feet, and a range of up to 40 m.



## Easy-Laser® E930 EXTRUDER

2 AXIS PSD  40 m / 132'  BARCODE SYSTEM 

The Extruder system E930 is designed to measure straightness and pointing direction, primarily on extruder gearbox and barrel. Another application can be hydraulic pipes for example. Diameters down to 50 mm can be measured. The programs guide you through the measuring procedure, which speeds up the work.



## Easy-Laser® E950 BORE ALIGNMENT

2 AXIS PSD  40 m / 132'  BARCODE SYSTEM 

• E950 makes measuring and aligning bearings and bearing journals easier thanks to wireless detector and versatile brackets. • Measures both full bores and half bores. • Multipoint measurement. • Bore Ovality measurement. • Calculate waviness (short and long) and best-fit

Available configurations:

E950-A and E950-C

for Diesel engines, Compressors, Gearboxes etc.

E950-B and E950-D

for Propeller shaft drive lines with sterntube.



## EASY-LASER® E960 TURBINE ALIGNMENT



Easy-Laser® E960 Turbine alignment systems make the measurement and adjustment work of diaphragms and bearings easier thanks to the wireless detector unit and measurement programs that guide you through the measurement process.

- Measures both full bores and half bores.
- Bore Ovality measurement
- Multipoint measurement
- Calculate waviness (short and long) and best-fit



**Available configurations:** E960-A: Suitable for gas turbines and smaller steam turbines. E960-B: Suitable for large turbines.

## EASY-LASER® E970 ROLL PARALLELISM



Easy-Laser® E970 is designed mainly for Roll alignment when just one or two rolls are to be replaced or adjusted at the same time. The E970 use a new revolutionary detector and digital precision level and quick machine up. Work with E970 can be done in even short stoppages. Easy-Laser® E970 is versatile system when rolls to be aligned are at long distances. Same system can also be used fro flatness on wire sections, flatness of bases and straightness of rolls.



## EASY-LASER® E980/XT980 SAWMILL

The Easy-Laser® E980 Sawmill system will help you increase efficiency and save money in your sawmill. The system measures straightness, flatness and squareness. Saw blades, band wheels, reducers and steerings are aligned and positioned. It can be used equally well for circular saws and band saws. Easy-Laser® XT980 Sawmill: This is the Generation XT system for sawmill alignment jobs. Get it with our rugged XT11 display unit, or use a tablet of your choice.





# CONDITION MONITORING

## LEAK FINDER

### LEAK DETECT



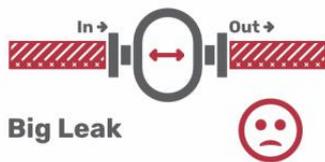
H&K Leak detect for leaks are found by non-audible ultrasonic sound by LED display. With Parabolic dish with inbuilt laser pointer and long goose probe is helpful to find the direction of the leak. The intensity of the leak is found by color on LED indicator. Leak detect particularly is effective in noisy environment where it is not audible by ear.



## LEAKSHOOTER



Ultrasonic air is costly form of Energy, 20-40% of it is lost through leaks. Hence finding and eliminating leaks is considers as Energy saving for any industry. With Leakshooter one can find Leaks, thermal Imaging & Steam Traps to find live steam losses. Professional Strap Shooter program helps detect defective trap in minutes.



### DIFFERENT VERSIONS

LKS1000	V2+	V2+IR	V3+	V3+PRO
Leak detection (compressed air, gazes, steam, vacuum)	X	X	X	X
Infrared camera 80x60 px			X	
Infrared camera 160x120 px		X		X
MANUAL basic analysis for steam trap condition			X	X
AUTOMATIC expert diagnosis for steam trap condition				X

### DIFFERENT FUNCTIONS

LKS1000	V2+	V2+IR	V3+	V3+PRO
Leak detection (Compressed air-Vacuum-Process gazes-Steam...)	X	X	X	X
Cost and flow estimator – K function (Gives an estimation about leak size)	X	X	X	X
Infrared camera 80x60 pixels (Looking for thermal heating problems)			X	
Infrared camera 160x120 pixels (Looking for thermal heating problems)		X		X
High voltage default detection (Corona-Partial discharge-Arcing...)	X	X	X	X
Tightness or seal integrity control with dome use* (Looking for leaks without using gas)	X	X	X	X
Electronic stethoscope** (To listen to mechanics, trap, valves, hydraulic...)	X	X	X	X
Basic analysis of steam traps** (REAL TIME ultrasound curve +T° measurements)			X	
Expert analysis of steam traps** (REAL TIME ultrasound curve +T° measurements + AUTO diagnosis algorithm)				X

-   
 Bluetooth
-   
 Wireless headset (option)
-   
 Wireless speaker (option)
-   
 USB Connection



# CONDITION MONITORING

## BASIC VIBRATION MONITORING DEVICES



	VIBER X	VIBER X1	VIBER X2 / X2 PRO
<b>Display</b>	Digital display, showing total vibration level or bearing condition	Digital display , showing total vibration level or bearing condition	Digital screen showing total vibration value, Bearing condition, and other functions
<b>Frequency range</b>	default 10 to 1000Hz and 2 to max HZ	2 -1000Hz ,10 - 1000Hz 2-max 10 -max. User selectable	2-400Hz, 10 -1000Hz, 6-1600Hz, 11 -3200Hz user selectable
<b>Additional analysis capability</b>	No	No	Displays peaks at 5 highest frequency.
<b>Bearing condition</b>	0.5 to 16KHz	0.5 to 16KHz	0.5 to 16KHz
<b>Measurable parameters</b>	Total vibration, Brg. condition	Total vibration, Brg.condition	Total Vibration, Brg. condition, Displacement
<b>Selectable measurement quantities</b>	g, mm/sec,	g, mm/sec,	g, m/s <sup>2</sup> , mm/sec, inches/sec, mils, microns
<b>Amplitude presentation</b>	RMS	RMS	RMS, Peak, Peak to Peak
<b>Communication with PC</b>	No	No	No
<b>Storage</b>	No	No	No. 100 measurement can be stored in Viber X2 Pro model

## VIBRATION PEN



Huatec Quick testing one button Vibration Pen for field engineers

- **HG6410** is used specially for velocity testing.
- **HG6430** is used for acceleration, velocity and displacement testing
- **HG6500** series available as standard or for lower frequency with integrated accelerometer or inbuilt accelerometer. To measure displacement, velocity, acceleration and optionally Temperature.
- **HG908** series available in Intrinsically Safe version.



# PORTABLE VIBRATION INSTRUMENT



## ADVANCE VIBRATION ANALYSERS



VIBER X3	VIBER X4	VIBER X5/MK III
Digital screen showing total vibration value, Bearing condition, 3 Point balancing and other functions	3.5 inch TFT Digital screen showing total vibration value, Bearing condition with route function and single plane balancer	5inch CCD Digital screen showing Graphical interphase, Applications organised in hierarchial order in FFT analyser.
2-400Hz, 10 -1000Hz, 6-1600Hz, 11-3200Hz user selectable	400, 1600, 3200, 12800Hz	400, 1600, 3200, 12800, 25600Hz
Displays 5 highest peaks and their frequencies, Trend analysis, Temperature, Sound	Displays 20 highest peaks and their frequencies, Trend analysis, Temperature, Sound, Balancing, Phase, Spectra, Enveloping etc.	Upto 3 Channel analyser, Spectra, envelop, datalogger, Phase, orbit, balancing, Temperature, Sound
0.5 to 16KHz	0.5 to 16KHz	500-6400, 500-32000, 1000-32000, 3000-32000
Total Vibration , Brg. condition, Displacement, Balancing, Temperature, Sound	Total Vibration, Brg. condition, Displacement, Balancing, Temperature, Sound, Speed & Balancing	Total Vibration, Brg. condition, Displacement, Balancing 1 and 2 plane, Temperature, Sound with Triaxial transducer, Orbit, Run up/Coast down, Bump test and MCA
g, m/s <sup>2</sup> , mm/sec, inches/sec, mils, microns	g, m/s <sup>2</sup> , mm/sec, inches/sec, mils, microns	g, m/s <sup>2</sup> , mm/sec, inches/sec, mils, microns
RMS, Peak, peak to Peak	RMS, Peak, Peak to Peak	RMS, Peak, Peak to Peak
Yes, Trend View software	Yes, Trend View software and Spectra Pro X	Spectrapro AND Vibshape
100 mesurments can be saved	32 GB	4 GB micro SD Card.

## X-BALANCER™

Wireless X-BALANCER™, personal don't need to be close to noisy and hazardous environments, they can be up to 20 meters away from the machine being balanced. Easy to use, all necessary knowledge is available in the hand unit, can be used for all rotating machines like Pumps, Fans, Mills, Mowers, Stirrers and Blowers. Balancing can be performed in accordance with ISO Standards 1940, easy to afford, best price/performance ratio, balancing in 1 or 2 planes, balancing can be stored in the Machine Library. Ability to measure the spectra before and after balancing to present spectra graph into the balancing report and also perform Coast up and coast down. Balancing results can easily be reported.



# ONLINE VIBRATION

## VIBER MP™

**VIBER MP™** System is a machine guard standard up to 16 channels. Each channel can measure temperature, vibration and Bearing condition. There are adjustable measure levels and 2 alarm levels that can give an alarm or stop the machine if failure. **VIBER MP™ System** is designed for standalone guard, but can send information into a programmable controller or to other monitoring system.



## VIBER M2™

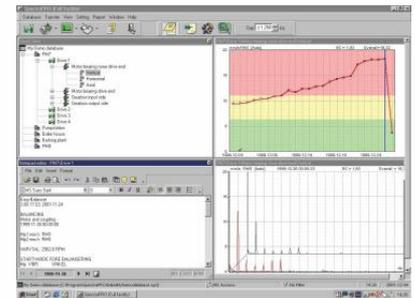
**VIBER M2™** is a 1 or 2 channel machine guard. The M2 can give an alarm or stop the machine if vibration indicates failure. The M2 is designed for standalone guard, but can send information into a programmable controller or to other monitoring system.



# VIBRATION SOFTWARE

## SpectraPro™

**SpectraPro™** is an analysis program for several of our instruments. Easy Database design with templates and machine pictures. Calculations of machine fault frequencies including a bearing data base, belt drives, gear boxes and electrical motors. All fault frequency calculations are based on the selected speed. Spectra-Pro has band analysis that helps analysing the trend of a singular frequency or fault. Spectra-Pro has several automatic reports like, Spectrum, Trend and Transfer reports.



## VibShape™

**VibShape™** With the animation program VibShape you will "understand" how a machine vibrates and what measures should be taken. VibShape has functions for drawing of cubes, boxes, and cylinders. With the manually input the program is suitable for all instruments that can measure vibration and angle. It is easy to change the mode shape frequency at animation. Automatic max and min deviation for print out or copying.



## X Tools™

**X Tools™**, software to be used with VIBER X5 MKIII™ helps you to import all measurements made by VIBER X5 MKIII to PC, look at each individual measurement and make an analyse. You can also make a report from one or more measurements. Typical is Special Spectra, Coast up/down, Orbit, Sync and Cross Spectra, Bump test, Data logging, MCSA, Balancing and thermal measurements.



# HANDHELD THERMOMETERS



Electronic Temperature Instruments, is pioneer in Digital thermometer manufacturing for producing digital and infrared thermometers for food as well as Industrial application. Different models to suit your needs are as follows:

## THERMAPEN

for Surface -50 to +300°C



## RAYTEMP 3

-60 to +500°C



## RAYTEMP 6

-60 to +500°C



## RAYTEMP 8

-60 to +500°C



## RAYTEMP 38

-60 to +1000°C



# INDUSTRIAL STETHOSCOPE



## ELECTRONIC STETHOSCOPE

The STE3 electronic stethoscope is designed to help locate the source of excess bearing and machine noise easily at low cost. It is an ideal easy to use listening device for mechanical generated noise in all types of applications.

The 3.5mm jack socket tape output on this electronic stethoscope can also be fed into an audio tape recorder to store the data for either further analysis or as a reference for future comparison.



# CONDITION MONITORING POD



LunetaLLC is reimaging machine inspection technology to meet the ever increasing needs of maintenance personnel to make important decisions by Visual or CMP technology. Luneta develops advanced machinery lubricant inspection technology for machine condition monitoring and reliability. Some of the products made are highlighted below:

## HUB



## COLUMN



## BOWL



## SIGHT GLASS



## POD



**HUB** : 4 lateral ports for any compatible attachment or meeting any kind of sampling needs.

**COLUMN** : Crystal Clear Oil Level sight glass for visual inspection in pumps gear boxes, etc.

**BOWL** : Its contour design allows for visual inspection and early detection of potential contamination like water, sediment etc.

**SIGHT GLASS** : Clear and long lasting protruding Sight glass which is made Titran material.

**POD** : Multi-paramter inspection pods lets you quickly find oil level, color, aeration, foaming, corrosion, wear debris and much more.



# MAINTENANCE PRODUCTS

## MOUNTING TOOLS



### FITTING TOOLS



Fitting tools : Mounting of small bearings, sealing pulley and much more for bore diameter from 10-50mm. Mechanical fitting is done with 3 impact sleeves, 33 impact rings and mallet in a handy case



### INDUCTION HEATERS



Perfect solution for clean and economical heating of bearings and components from diameters 10 to 800kgs and bearing diameters from 10 -850mm. Volcano model is portable which can be hand carried and can heat upto 10kgs of bearing. All other Models are bench type.

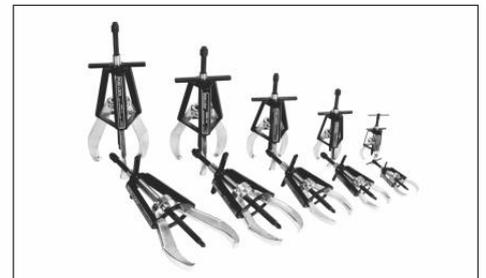


## DISMOUNTING TOOLS



### MANUAL PULLERS

The Posi Lock® line of quality manual gear and bearing pullers sets the standard for quickness, ease and convenience. The T-handle and Cage® control the jaws at all times. Opening, Closing, Locking and Aligning of the jaws are all done automatically by simply turning the T-handle. These pullers have been designed for effective removal of stubborn gears, bearings, pulleys, and other press fit items from any machine in diverse industries ranging from 1- to 40-ton capacity.



### HYDRAULIC PULLERS

Posilock Hydraulic Pullers are available in 2 or 3 jaw models and range from 5 - 200 tonnes capacity. Known for safety, high quality, durability and ease of use, Posilock pullers are designed to help you extend bearing life in your applications through proper installation, removal and service.



### INTERNAL PULLERS AND SEAL PULLERS

- Internal Puller BP61 ideal for the removal of many tough internal pulling jobs such as crankshaft pilot bearings, bearing cups, needle bearings, bushings, seals and grease retainers.
- Seal Pullers SP50 is ideal tool for dismantling rotary radial shaft seals and seals of all sizes.



## IDUCTOR - HEATING TOOLS



The iDuctor is the ultimate precision heating tool. This electronic tool applies heat by means of induction technology, allowing a wide range of ferrous metals to be heated from the inside out. The crucial characteristic of induction heating is that the outermost components are heated, contrasting with the use of a gas burner which heats everything simultaneously. One of the greatest features of the iDuctor is its usability and adaptability. The spirals through which the induction heating is conducted can be switched of and changed by other spirals. Available in basic and professional models.



## AUTOMATIC LUBRICATORS



### SIMALUBE



II 1G Ex ia IIC T6 Ga  
II 1D Ex ia IIC T80 °C Da  
I M1 Ex ia I Ma

SIMALUBE, the compact automatic single point lubricator is economical, universally adaptable, for a clean and reliable application. Simalube lubricators guarantees a consistent supply of lubricant in the pre-adjusted proportioning within seconds it can be fixed to the lubricating point. The lubricating amount can be sleeplessly adjusted by means of an Allen key. Simalube can be filled as well as refilled by using a standard barrel pump that is typically used to fill grease guns. The reliable simalube lubricator operates 24 Hours, 7 days a week and is continuously adjustable from one to twelve months. It is driven by the unique worldwide patented gas producing dry cell.

### IMPULSE

Simalube IMPULSE is the perfect complement to the tried-and-tested simalube lubricator – wherever high pressure is required. Simply affix the simalube IMPULSE to the lubrication point, then screw on and activate the desired simalube lubricator. That is all it takes to overcome counterpressures of up to 145 psi. No further adjustments need to be made to the device. The LED display provides information at all times on the condition and functionality of the simalube IMPULSE.



## NON SPARKING TOOLS



Non-Sparking tools are used where there is a serious risk of fire or explosion or whether there is a particular demand for specially designed Non-sparking, Non-magnetic or corrosion resistant tools. Non-sparking tools are an ideal choice for use in hazardous environments of the offshore industry such as natural-gas installations, oil tankers, gas works, oil drilling platforms, oil-refineries, petrochemical plants and shipyards. They are also ideal for other fields that are also characterized by the need for safety tools, such as aircraft factories, dye and varnish factories, etc.



# MEASURING TOOLS

## BELT TENSIONER



### CONTACTLESS - TRUMMETER

Contactless measurement for finding Belt tension. For optimum belt performance belt pulley alignment and belt tension is very important. With Trummeter belt tension will appear in Display in Hertz or in tension in Newtons. Your measurement results will appear on the display straight away, in either hertz (frequency) or newtons (tensile force). This allows you to log your results clearly for commissioning and monitoring purposes (in accordance with DIN EN ISO 9001 et seq.



## SPEED MEASUREMENT



### HAND HELD TACHOMETER

Compact UK make **ADVENT** hand held tachometers: It features 5 Digit LCD Inverting screen measures speed in revolutions per minute , meter/feet, yards/minute or second

- **A2103** – Optical- Contact Tachometers
- **A2105** – Petrol Engine Tachometers
- **A2106** – Diesel Engine Tachometers
- **A2108** – Optical Contact Laser Tachometers
- **A2109** – Intrinsically Safe Optical- Contact Tachometers



The **CONCORDE CT6** and **CT6/LSR** Optical-Contact Handheld tachometers are available in a variety of models to suit most applications, with large Bright LED displays and a wide selection of excellent features, including standard optical system range up to 1 meter or with a Laser system with a range up to 2 meters for enhanced optical performance, these handheld Tachometers have facilities for both Optical and Contact measurements. Also available with Contact Adaptor and remote Optical Sensor.

### DIGITAL STROBOSCOPE

The Digital Stroboscope can be hand-operated to observe fast repeated motions as well as to determine RPM or rate of machinery components. The turning or oscillating machine part can be visualised as a stop motion picture. by adjusting the light flashes synchronously to the rate of the movement.



## NON DESTRUCTIVE TESTING



### HARDNESS TESTER RHL SERIES

Portable Hardness Tester : Hardness tester is used for checking hardness in HL, HV, HB, HRC and HS integrated with D or C or any DL type impact device for any ferrous and non-ferrous material. Backlit, memory, battery power are standard features. Shore Durometer tester is for hardness of Rubber, plastic or elastometric material.



# NON DESTRUCTIVE TESTING

## ULTRASONIC THICKNESS GAUGE TG SERIES

It is easy to use and measure from 1.2mm – 300mm thickness on a 4 Digit display unit. It supports automatic non-linear compensation with computer software to correct the nonlinear errors of the probe for the purpose of improving the accuracy. It is a Self-compensating device with 5 preset sound velocities for repeating application. RS232 Serial Port. Two point calibration function. Capable for material including metals, plastic, ceramic composite, etc



## COATING THICKNESS GAUGE TG SERIS

The gauge adopts two thickness-measuring methods: magnetic induction method and eddy current method. The range of applications is indicated by the probes available.

- F probes work on the magnetic induction principle and should be used for non-magnetic coatings such as aluminum, chrome, copper, zinc, paint and varnish, enamel, rubber etc., on an iron or steel substrate; they are also suitable for alloyed and hardened magnetic steel.
- N probes work on the eddy-current principle and should be used for insulating coatings on all non-ferrous metals and on austenitic stainless steels, e.g. paint, anodizing coatings, ceramics, etc. applied on aluminum, copper, zinc die-casting, brass, etc.
- The system meets ISO2178, iso2361 and DIN, ASTM and BS standards



## DIGITAL SURFACE ROUGHNESS SRT SERIES

Digital Surface Roughness : The device is Aluminium design, light weight anti electromagnetic interference and low power consumption. It measures surface roughness either in Ra, Rz Rq and Rt over sample area. Compatible with ISO, DIN 53505, ASTMD 2240 AND JISK 7215 standards. Stores data, connects to PC and printer.



## CRANK SHAFT DEFLECTION INDICATOR AND OVALITY CHECKER

### DEFLECTION INDICATOR

### OVALITY KIT



● **Prisma Deflection Indicator** to measure crankshaft deflection of engines available on both vessels and power plants It is engineers professional tool for regular measurement of distance between crank webs, at different crank positions upto 0,001mm resolution

● **Prisma Ovality Kit** is an accessory to **DI-5/DI-5C** and it's mainly designed to measure the cylinder liners ovality and wear on diesel engines with cylinder diameters from 180-600 mm and stroke length up to 870 mm. The transducer associated with Prisma DI-5C enables Prisma DI Ovality Kit to measure the differences down up to 1/1000 mm. Prisma DI-5C with associated software makes it possible to transfer the measured data to a Windows PC and even export the data to an Excel sheet for further data process and comparison

## Our Valuable Customers



*For more information contact us today*



**TriboTech**  
Instrumental for Accuracy

📍 718, Swastik Chambers, 7th Floor, CST Road,  
Chembur (E), Mumbai - 400 071. (Maharashtra, India)

☎️ +91-22-6799 7857 / +91-22-6799 7858 / +91-22-6799 7859

✉️ SALES: info@tribotechindia.com | SERVICES: services@tribotechindia.com

🌐 www.tribotechindia.com

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