

Manufacturing Of NDT Products & Accessories



LED UV Lamps

We manufacture highest quality of LED UV Products in accordance with international standards ASTM E3022. The AUL Series of LED UV Lamps are considered to be the benchmark in the NDT Industry. These Lamps are light weight, rugged and cost effective which makes them a perfect combination to be used for Fluorescent Inspection.

AUL Series - LED UV Handheld Lamps

The most unique feature of AUL Series of LED UV Lamps is that depending on the application, operator can choose the model from AC to Battery Operated.



AUL-100

AUL-100D

AUL-125

AUL-150

Salient Features:

- Ergonomically designed robust aluminium housing
- Instant ON/OFF, No Warm-Up time for full intensity
- Long Lasting LED's (40,000 Hrs.) Life
- Even beam profile without hotspots
- UV-A Pass Filter
- Rechargeable Li-Ion Battery*
- Switchable between UV & White Light**
- Mechanical passive cooling system

* Not Applicable for AC models

**Applicable for AUL-100D Series

Kit Contains:

- LED UV lamp
- Neck strap
- Protective UV goggles with pouch
- Battery charger
- Operation manual & certificate of conformity
- Soft carry case

Order Part No.	Internal Battery
AUL-100	2 UV-A LED
AUL-100D	2 UV-A LED + 1 White LED
AUL-125	3 UV-A LED
AUL-150	4 UV-A LED

Order Part No.	AC Mains
AUL-100 AC	2 UV-A LED
AUL-100D AC	2 UV-A LED + 1 White LED
AUL-125 AC	3 UV-A LED
AUL-150 AC	4 UV-A LED

AUF Series - LED UV Flood Lamps

We manufacture top-quality LED UV products that comply with international standard ASTM E3022. Our AUF Series of LED UV Flood Lamps are recognized as the benchmark in the NDT industry. These Lamps are rugged and cost effective which makes them a perfect combination to be used for Fluorescent Inspection. A unique feature of the AUF Series is their interconnectivity; they can be linked together on either side, allowing you to extend the coverage area as needed.



Salient Features:

- Instant ON/OFF, No Warm-Up Time for Full Intensity
- Long Lasting LED's (40,000 Hrs.) Life
- Even beam profile without any spots
- UV-A pass filter
- Robust aluminium housing
- Interconnected with each other
- Switchable between UV & White Light
- Intensity control with pot knob (optional: Remote control through wired remote)
- Mechanical active cooling system with fans

Kit Contains:

- LED UV Flood Lamp
- Power Cord Cable
- Chains with Hooks
- Operation Manual & Certificate of Conformity

Technical Specifications - AUF Series

Order Part No.	AUF-350	AUF-500	AUF-1000
Light Source	8 UV-A LED's/2 White LED's	16 UV-A LED's/4 White LED's	32 UV-A LED's/8 White LED's
Max Beam Coverage Area	356 x 266 mm	609 x 279 mm	1066 x 279 mm

Technical Specifications - AUF^{Eco} Series

Order Part No.	AUF-350 ^{Eco}	AUF-500 ^{Eco}	AUF-1000 ^{Eco}
Light Source	4 UV-A LED's & 1 White LED's	8 UV-A LED's & 2 White LED's	16 UV-A LED's & 4 White LED's
Max Beam Coverage Area	356 x 203mm	558 x 203 mm	1041 x 203 mm

Customized LED UV Flood Lamp

Apart from standard flood lamp (AUF series) we can customize the flood lamp as per customer specific requirement in terms of length, width, angle of inspection, specific UVA intensity etc.



AUT 90 - LED UV Torch

AUT 90 LED UV torch is light in weight, rugged and cost effective which makes them a perfect combination to be used for Fluorescent Inspection. The most unique features of AUT- 90 LED UV Torch is we can use it from the lowest possible distance, Because of its uniform intensity with no hotspot.

Salient Features:

- Ergonomically Designed Robust Aluminum Housing
- Instant ON/OFF, No Warm-Up Time For Full Intensity
- Long Lasting LED's (40,000 Hrs.) Life
- Even Beam Profile Without Hotspots
- UV-A Pass Filter
- Rechargeable Li-Ion Battery

Kit Contains:

- LED UV Torch
- Neck Strap
- Battery Charger
- Operation Manual & Certificate of Conformity
- Soft Case
- Protective UV goggles with pouch



AUB 150 - LED UV Bulb

The AUB-150 LED UV Bulb perfectly replaces the conventional mercury vapor bulb. It is light weight, rugged and cost effective which makes it a perfect combination to be used for Fluorescent Inspection. The most unique feature of AUB-150 LED UV Bulb is that it comes with standard E27 holder where the operator just needs to unplug the conventional mercury vapor bulb and plug in the AUB-150 LED UV Bulb and he/she is ready for inspection.

Salient Features:

- Instant ON/OFF, No Warm-Up Time For Full Intensity
- Long Lasting LED's (40,000 Hrs.) Life
- Even Beam Profile Without Hotspots
- UV-A Pass Filter
- Replaces Conventional Mercury Vapor Bulb
- Less Fragile than Conventional Mercury Vapor HID Bulb
- Cooler Than Mercury Vapor HID Bulb With Passive Cooling

Kit Contains:

- LED UV Bulb
- Operation Manual & Certificate of Conformity



Acumen³⁶⁵ UVA Meter

The Acumen³⁶⁵ is a battery powered handheld UV-A meter/photometer used to measured ultraviolet -A light, used for fluorescent inspection (non-destructive testing). The Acumen includes dual wavelength sensor detector used to measure both Ultraviolet and Visible light. The compact size, shape and its lightweight make this device ideal to use for applications in industrial plant or in the research labs, where the intensity measurement of UV-A and visible lights is required.

Salient Features

- Big and colorful LCD screen Display
- Compact & light weight
- Rechargeable Li-Ion Battery
- Continues 8 hours of battery back up in single charge
- Able to measure both UV-A and visible illuminance in LUX or in foot-Candle.



Yokes

AC Magnetic Yoke AY-7A

The AY-7A yoke is available in two variant 230-volt 50-Hz or 110-volt 60-Hz . It provides powerful AC magnetic field for detection of crack on surface during magnetic particle inspection. The AY-7A Yoke has adjustable leg from 65 to 260 mm (Center to center) making yoke ideal for different geometries. It is widely used with either dry or wet method, fluorescent or non-fluorescent magnetic powder, in the inspection of welds, forging, casting and in service applications.



Salient Features

- Accessible grip, angled body for better position
- Powerful AC Magnetic Field
- Exceed ASTM E709 & ASTM E1444 lifting Specifications
- Durable rugged construction
- Adjustable leg spacing
- Detachable power cord

Permanent Magnetic Yoke Fixed/Wire Type AY-M5-F/AY-M5-W

Permanent Magnetic Yoke Fixed/Wire type are ideal for MPI since they are completely portable & are used where access to AC power is impractical or impossible. It is easy to use, simple & highly economical.



Salient Features

- Light Weight & Compact
- Completely Portable
- No power required
- Suitable for both dry & wet inspection
- Strong magnet with no requirement of re-magnetization

AC/HWDC Magnetic Yoke AY-7D

The AY-7D is most versatile magnetic yoke which offers AC and HWDC single phase supply for magnetizing ferromagnetic material. The two outputs (AC or HWDC) are independently adjustable to balance the magnetic field intensity. The AY-7D provides either constant AC or Pulsed HWDC field for finding surface and subsurface defects.



Salient Features

- Accessible Grip for Better Position
- Powerful AC and HWDC Magnetic Field
- Durable Rugged Construction
- Articulated Adjustable Leg
- Demagnetizing Capability
- Exceed ASTM E709 & ASTM E1444 lifting Specifications

Battery Operated Yoke AY-7B

Battery operated yoke is designed to stand up to the most rugged applications. True portability for magnetic particle inspection in the field and remote locations is achieved through a battery pack.



Salient Features

- Portable with battery pack
- Effectively useful in remote areas and in yards
- Exceeds ASTM lifting specifications
- Perfect for subsurface defects & demanding environment

APP Series Magnetic Power Pack

The APP Series has movable wagon type mobile power pack. These Magnetic Power Packs are available in ten configuration that offers 1500 Amps to 15,000 Amps range of Alternating Current (AC), Half Wave Direct Current (HWDC) or Full Wave Direct Current (FWDC).

The APP Series is an industrial magnetic particle inspection machine, which can rapidly and easily magnetise the job which can further be inspected for surface and subsurface defects in ferromagnetic material without any destruction. The machine can be widely used in any field that need defect inspection, quality control, safety inspection and in-service inspection. The precise amount of desired current is delivered to the output circuit when the magnetizing shot is initiated. The thyristor based step-less control is provided to control the output current.



Salient Features

- AC, HWDC or FWDC Mag facility
- True Calibrated Digital Ammeter
- Low-voltage output for operator safety
- Overload and short circuit protected switching
- Emergency cut off
- 2.5 meter long low resistance prod cable (optional extra cable length available)
- Powder coated rust proof MS Housing with matt finish
- Lockable caster wheels for controlled movement of the machine
- Tray on the top for storage of cable and other MPI Accessories
- Locate defects in any direction using Prods, Central Conductor, or Coil

Kit Contains

- Power Pack
- 2.5 meter long Prode Cable (1 Pair)
- Operational Manual
- Certificate of Conformance

Optional

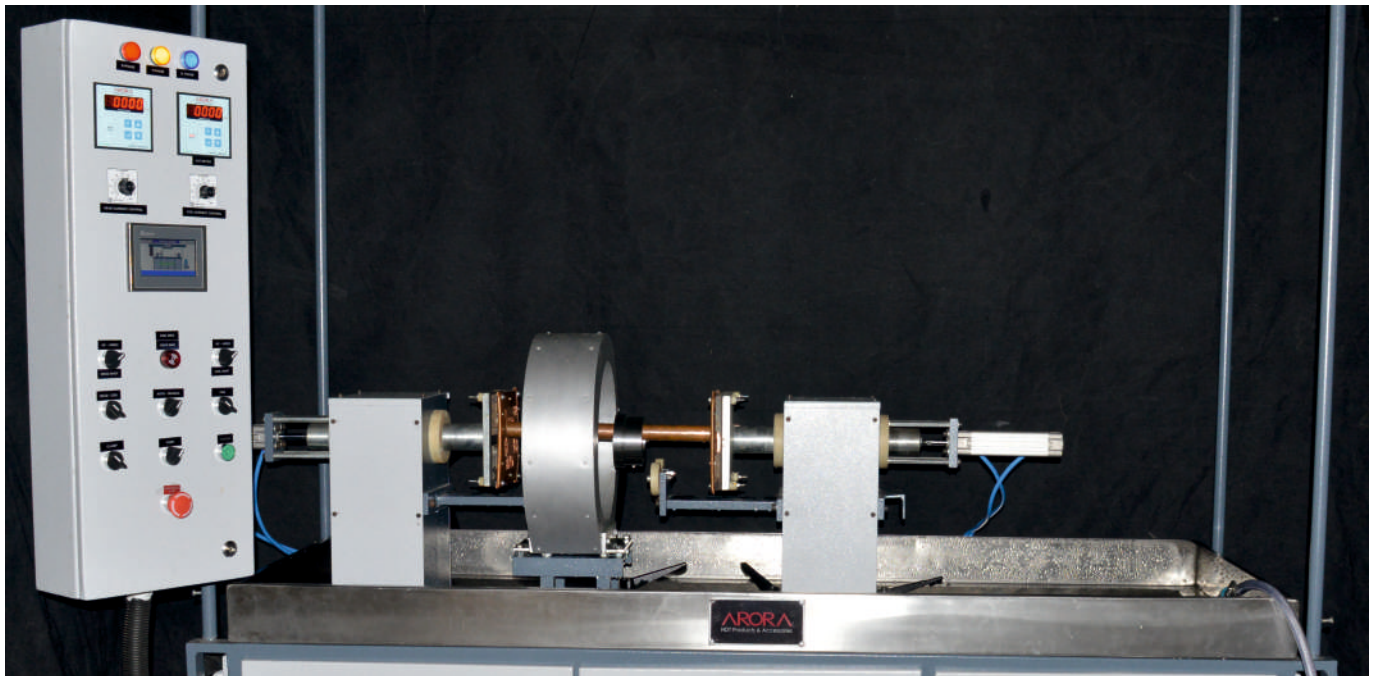
- In built demagnetizer in AC
- FWDC
- Step based current control

ABM Series Magnetic Bench Machine

The ABM Series are heavy duty bench machine designed for MPI inspection. The ABM Series magnetic benches are available in Seven configuration and three sizes (Small/Medium/Large) that offers 2000 Amps to 10,000 Amps range of Alternating Current (AC), Half Wave Direct Current (HWDC) or Full Wave Direct Current (FWDC).

The ABM Series magnetic benches are industrial magnetic particle inspection machine, which can rapidly and easily magnetise the job which can further be inspected for surface and subsurface defects in ferromagnetic material without any destruction. The machine can be widely used in any field that need defect inspection, quality control, safety inspection and in-service inspection e.g. manufacturing industry, iron & steel metallurgical industries, metalworking, aerospace, and railway transportation etc.

The Head and coil shots both offer AC, HWDC or FWDC magnetization and are independently adjustable to set each magnetic field i.e. circular or longitudinal magnetization.



Salient Features

- AC, HWDC or FWDC Mag facility
- Auto AC Demagnetization facility with coil only
- Current assurance indication & audible alerts
- Thyristor based stepless current control
- Two large, easy-to-read digital meters confirms amperage sent through the part
- Low-voltage output with overload & short circuit protected switching
- Powder coated rust proof MS housing with matt finish
- Anti vibration mount
- Pneumatic headstock makes it faster & easier to position & remove longer parts
- Foot Switch & push button (at control panel) for ease of operation
- Emergency Cut Off
- Dark room with black curtain & ventilation fan to facilitate inspection under UV/Black light
- Provision for sliding flood lamp (flood lamp to be purchased separately)
- APP Auto Cut-Off with temperature sensor
- Linear guide for easy & precise movement of tail stock & coil
- Conveniently placed amperage meters for coil & head shot
- 20 liters SS tank for water/oil based magnetic powder bath
- External pump system for particle bath agitation, circulation and application
- PLC based reliable control & precise operation
- Automatic sequential mag shot
- Mag-shot-activation with 1-touch control to enable / disable this feature through HMI & foot switch
- User-controlled security systems with password protection, supervisor locks & customizable operator access profiles
- User friendly operator interface for control parameter in-feed and operation mode selection and display

Optional

- Combined Magnetization (with two transformers)
 - 2000 Amps for 7.5 KAT
 - 3000 Amps for 15 KAT



Salient Features:

- High Sensitivity
- Superior Flaw Resolution
- Low in Sulphur & Halogen Content
- Processing Temperature Range 0 to 49°C

Magnetic Particle Testing (MPT) is a highly effective method for surface and sub-surface examination of ferro-magnetic materials. This technique relies on the fundamental principle that ferrous particles are attracted to magnetic fields. During the process, the material or component under scrutiny is magnetized, and magnetic particles are then applied to the targeted surface. These particles are subsequently drawn to any areas of magnetic flux leakage, thereby forming visible indications of potential defects. Notably, these indications are typically significantly larger (approximately 10 times) than the actual defects, facilitating easier detection.

Two main categories of magnetic particles are employed: non-fluorescent particles for observation under white light, and fluorescent particles for examination under UV light. Additionally, these particles can be further categorized based on application method, including the dry method and the wet method. In the wet method, magnetic particles are dispersed in either oil or water.

The selection of high-quality testing chemicals is paramount to the success and accuracy of magnetic particle testing. The FlawGlo series offers a comprehensive range of magnetic particle testing chemicals tailored to various applications, including oil-based, water-based, and dry applications, available in both visible and fluorescent formulations.

Technical Data of Aerosol Cans:

Part No.	Description	Approval & Specifications	Application/Industry
WCP 104	White Contrast Paint	IS 3703:2004, ISO 9934-2, ASME B&PV, ASTM E709, ASTM E1444, ASTM E138	• For Better contrast with BMI 106 / OV 106
BMI 106	Black Magnetic Ink	IS 3703:2004, ISO 9934-2, AMS 3042, ASME B&PV, ASTM E709, ASTM E3024, MIL-STD-271, MIL-STD-2132, NAVSEA 250-1500-1	• Machined & Finished surface • Spot inspection • In-service inspection
FMI 800	Fluorescent Magnetic Ink	IS 3703:2004, ISO 9934-2, AMS 3044, API RP 5A5, ASME B&PV, MIL-STD-271, MIL-STD-2132, NAVSEA 250-1500-1, ASTM E709, ASTM E3024, ASTM E1444	• Automotive • Aerospace • Railway • Oil & Gas

Technical Data of Wet Powders:

Part No.	Description	Dilution	Approval & Specifications	Application/Industry
WF 10	Water Fluorescent Powder (2-5 micron, average particle size is 3 micron)	10gm/ltr	IS 3703:2004, ISO 9934-2, ASTM E 1444, ASTM E709, ASTM E3024, AMS 3044, ASME B&PV, MIL-STD-271, NAVSEA 250-1500-1, NTR-1E	• Automotive • Steel manufacturing • Forging • Oil & Gas
WF 834	Water Fluorescent Powder (2-5 micron, average particle size is 3 micron)	5gm/ltr	IS 3703:2004, ISO 9934-2, ASTM E 1444, ASTM E709, ASTM E3024, AMS 3044, API RP 5A5, ASME B&PV, MIL-STD-271, MIL-STD-2132, NAVSEA 250-1500-1	• Automotive • Steel manufacturing • Forging • Railways
WF 418	Water Fluorescent Powder (2-18 micron, average particle size is 7.5 micron)	6gm/ltr	IS 3703:2004, ISO 9934-2, ASTM E 1444, ASTM E709, ASTM E3024, AMS 3044, API RP 5A5, ASME B&PV, MIL-STD-271, MIL-STD-2132, NAVSEA 250-1500-1	• Oil & Gas • Billet/bar inspections • Heavy Engineering
OF 800	Oil Based Fluorescent Powder Water Fluorescent Powder (2-5 micron, average particle size is 3 micron)	1gm/ltr	IS 3703:2004, ISO 9934-2, ASTM E 1444, ASTM E709, ASTM E3024, AMS 3044, API RP 5A5, ASME B&PV, MIL-STD-271, MIL-STD-2132, NAVSEA 250-1500-1	• Automotive • Aerospace • Railway • Oil & Gas • Steel
OV 106	Oil Based Visible Powder Water Fluorescent Powder (0.5-4 micron, average particle size is 1.5 micron)	9.5gm/ltr	IS 3703:2004, ISO 9934-2, ASTM E709, ASTM E3024, AMS 3042, ASME B&PV, MIL-STD-271, MIL-STD-2132, NAVSEA 250-1500-1	• Machined & Finished surface

Standard Packaging:

- Aerosol Can (1 Box of 10 Cans), each can with Net Qty 400 ml
- Wet powders are available in 1 kg.

MPT Accessories

TesMx 200 - Digital Gauss Meter

TesMx 200 is designed to detect residual magnetic fields present in the metallic part surfaces. These are low intensity static fields remaining in the part after the application of a strong magnetic force on that part. It is very important to inspect these residual fields remaining in metal parts to maintain quality and safety standards. TesMx 200 provides the solution for this problem by detecting the magnetic density present in the metal accurately & precisely.

Salient Features

- Compact and handheld
- Compatible with axial & transverse probe
- Big and colorful LCD screen Display
- Comes with reference magnets for verification



Ketos Ring



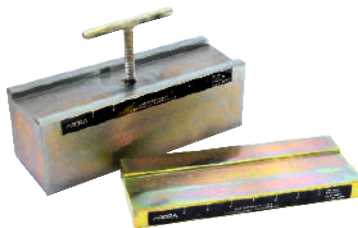
Pie Gauge



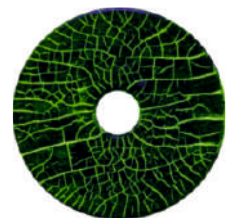
Centrifugal Tube with Stand



Burmah Castrol Strips



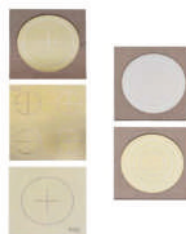
Lifting Blocks



MTU Test Block



Copper Pads



Quantitative Quality Indicators



ASTM Yoke Test Bar



Salient Features:

- Vivid, high contrast color
- Low in sulphur and halogens
- Good in wettability, viscosity & capillarity
- Superior flaw resolution
- Solvent type penetrant
- Excellent reliability
- High flash point
- Suitable for detecting leaks in castings
- Compatible with any metals & many synthetic materials (compatibility for synthetic and ceramic materials must be checked before use)

LPT Chemicals

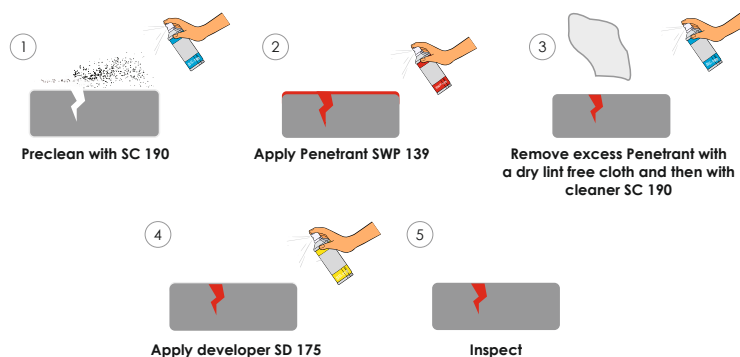
Liquid Penetrant Testing Chemicals

Liquid Penetrant Testing is commonly known as LPT/PT or DPT. This is suitable for open to surface cracks for almost every product & materials regardless of their properties. It utilizes natural accumulation of fluid around a discontinuity to create a recognizable indication of crack or other surface opening defects. Usually, LPT materials are composed of Penetrant, Developer & Remover. Penetrant inspection depends mainly on the ability of liquid Penetrant (SWP 139) to wet the surface of the solid workpiece and penetrate into the discontinuities on the test surface.

Capillary action attracts the fluid penetrant to the discontinuity as compared to its surroundings. To locate the defects, developer (SD 175) is applied to draw the penetrant out of the crack which can be seen in visible light.

Cleaner (SC 190) also plays most important role in pre and post-cleaning of Liquid penetrant testing.

Best Way to Perform Liquid Penetrant Testing (LPT):



Part No.	Description	Conforms to Following Standards	Standard Packaging
SC 190	Solvent Cleaner	ISO 3452-2 ASTM E165 ASME B&PV	Aerosol Can of Net Qty 400 ml (1 Box of 10 Cans)
SWP 139	Solvent Removable Red Dye Penetrant	ISO 3452-2 ASTM E165 ASME B&PV	Aerosol Can of Net Qty 400 ml (1 Box of 10 Cans)
SD 175	Solvent Suspensible Developer	ISO 3452-2 ASTM E165 ASME B&PV	Aerosol Can of Net Qty 400 ml (1 Box of 10 Cans)

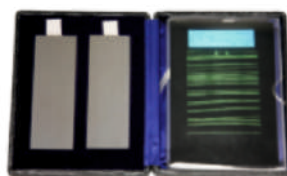
LPT Accessories



TAM/KDS Twin
Test Panel



Aluminium Comparator
Block



Ni-Cr Test Block



Reference Block
Type 2

FV Series LED Film Viewers

We manufacture highest quality LED Film Viewers over a decade now. The FV Series LED Film Viewers are considered to be the benchmark in the Indian fabrication industry. All big companies have been using this series since long. Over the period of time these LED Film Viewers have become the preferred choice for overseas customers too.



Salient Features:

- High Power SMD LED's
- Viewing screen adjustable shutters (FV-Series)
- Digital masking in FV^{Pro} series
- Adjustable viewing angle (adjustable stand)
- Integrated Densitometer with LCD Display (FV^{Pro} Series)
- Brightness control with pot knob
- Foot switch power On/Off
- Corrosion resistant aluminium body

Kit Contains:

- LED Film Viewers
- Power Cord Cable
- Foot Switch
- External SMPS in FV-PXL models
- Detachable Densitometer Pencil Probe (FV^{Pro} Series)
- Density Strip
- Operation Manual & Certificate of Conformity

Technical Specifications - FV Series

FV Series lets you easily adjust the screen size with a strong, powder-coated aluminum shutter

Order Part No.	LED FV - PC	LED FV - PCS	LED FV - PXL	LED FV - FP
Viewing Area (LXW)	60mm X 200mm 2.5" X 8"	100mm X 300mm 4" X 12"	110mm X 400mm 4.5" X 17"	355mm X 430mm 14" X 17"

Technical Specifications - FV^{Pro} Series

FV^{Pro} Series has an integrated densitometer with digital masking screen that can change into five different sizes by pressing a switch on keypad

Order Part No.	LED FV - PC ^{Pro}	LED FV - PCS ^{Pro}	LED FV - PXL ^{Pro}
Viewing Area (LXW)	60mm X 200mm 2.5" X 8"	100mm X 300mm 4" X 12"	110mm X 425mm 4.5" X 17"

Rhythm 5D - Digital Densitometer

The Rhythm 5D is a battery powered handheld densitometer for measuring the transmission density of x-ray film combining ease of use with high accuracy and repeatability.

The measuring probe of this instrument is of pencil design with ABS casing and it is connected to the instrument using flexible cable length of one meter. The battery is charged with a standard DC Charger and ensure an operating time of up to 8 hours.

Salient Features:

- Big and colorful LCD screen Display
- Compact & light weight
- Rechargeable Li-Ion Battery
- Continues 8 hours of battery backup in single charge
- Complies with ASTM E-1079 standard



Ultrasonic Pulsar Receiver APR-20



The Microprocessor Based Ultrasonic Pulsar Receiver Model APR-20 is compatible with other Ultrasonic Instruments and allows great flexibility when configuring systems for high frequency application or for attenuative materials.

The front panel keypad allows the operator to choose various parameters for precise settings. TFT display allows operator to view all parameters. Gain, Damping, Mode, Energy etc. provided on front panel. RF Output available through BNC Connector.

Applications & Advantages:

- Probe/Transducer characterization in research & development
- Non-destructive material testing
- It has other uses, such as thickness measurement, In addition to flaw detection
- It is highly accurate in determining reflector position and estimating size and shape
- It is sensitive to both surface and subsurface discontinuities

UT Accessories

General Purpose Probes

Ultrasonic probe/transducer is the heart of any ultrasonic test. Inappropriate transducer selection or a poorly manufactured or malfunctioning transducer can severely affect test results regardless of instrumentation capability. We manufacture full range of general purpose straight beam, angle beam and TR probes. These probes are available in 2 or 4 MHz with Lemo female connectors on the probe side.



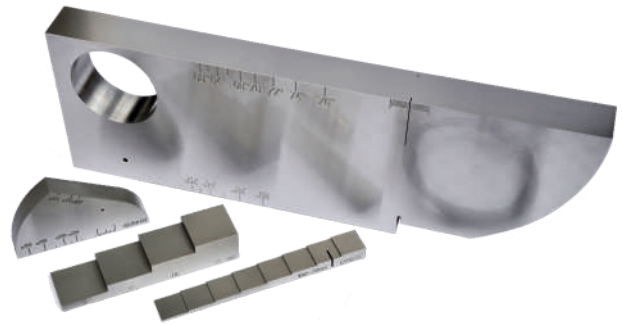
Cables

We manufacture full range of ultrasonic testing cables. These cables are manufactured with reinforced junctions between the cable & the connector. Cables are available in single, dual with Lemo, Mini Lemo, BNC, Microdot or Subvis connector. We can also offer customized cable depending upon your needs or application.



Calibration Blocks

We manufacture a wide range of Ultrasonic Test blocks which are precisely machined, and quality tested as per specified ASTM, ASME and ISO standards. Standard Test Blocks are available in steel, stainless steel, and aluminum. Test Blocks in alloys are also available, like alloy steel, inconel, titanium, copper-nickel, Duplex steel and others. All Test Blocks are permanently engraved with the part no and serial number.



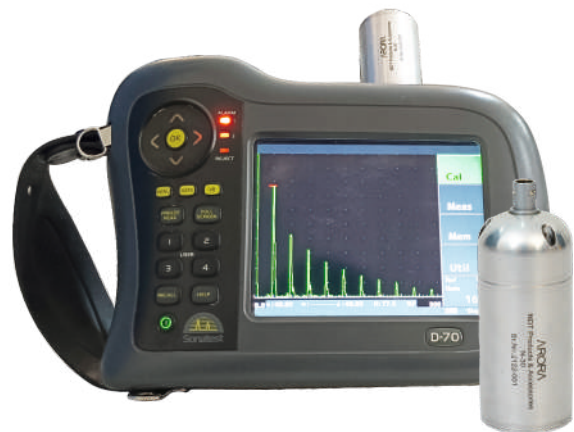
All test blocks are offered with wooden case and test certificate which include dimensional report and positive material identification report. Carbon steel blocks are Nickel coated for rust protection.

N-30 Calibration Block

The N-30 is an integrally attached calibration block to verify Vertical, Horizontal & Amplitude Control Linearity. It can be used for routine calibration of ultrasonic flaw detectors using conventional pulse echo method. N-30 is an aluminum block of 48 mm long and 38.5 mm diameter (Solid cylindrical shape) attached to a 24 mm diameter 2 MHz longitudinal transducer.

Salient Features

- Ability to self-calibration
- Single transducer with attached Aluminium block for calibration
- Connects directly to flaw detector
- Produces multiple echoes in aluminium
- Check instrument gain over long time period
- Easy to handle and carry



Couplant

The FlawGel Ultrasonic Couplant is specially designed to work effectively on both horizontal and vertical surfaces. It showcases durability, allowing it to be used on moderately heated surfaces up to around 75°C. Additionally, FlawGel is non-corrosive, making it safe for use on various metal surfaces without causing any harm. A key benefit of the FlawGel Couplant is its quick and easy application across large areas. It is offered in two variants: FlawGel GF and FlawGel PF, both crafted to enhance the efficient transfer of sound energy between the transducer and the test piece during inspections.

Salient Features:

- Acoustically exact on vertical, horizontal, and overhead surfaces
- Typical concentration: 40 grams per liter, but a thinner or thicker gel can be obtained by altering the concentration of the powder per litre
- Self and quick Deaeration
- Excellent coupling properties on smooth to rough surfaces
- Non-toxic & cost-effective
- Quick gel time at ambient temperatures in less than 5 mins
- Low in Sulphur & Halogens



Remote Visual Inspection

ATVISION Videoscopes

ATVISION series of multifunctional videoscope offers impeccable video quality for inaccessible areas in tubes, pipes, bores, engines, castings, etc. It has a flexible probe with high-definition 360° articulating camera at tip with ceramic based light source for necessary illumination.



ATVISION ensures detection of surface discontinuities, like cracks, deposits, corrosion, wear & tear, etc. It plays vital role in detection of inner surface discontinuities and monitoring the assets integrity in HVAC, chemical, oil & gas industries. It also serves automotive, aerospace industries for inspection of hard to reach areas.

Salient Features

- High Definition 1080P/720P image/ video quality.
- 5" IPS (in plane switching) colour display allows viewing at lower angle
- 3X zoom capability.
- 360° omni directional bending (articulation)
- Wireless transmission of image/video for multiscreen viewing
- Long lasting batteries (8 hours of operation with 2 fully charged batteries)
- Real time temperature display, with high temp alarm function

Kit Contains:

- Videoscope with carry case
- 16GB TF card
- Card reader
- Battery charger
- USB Cable
- Certificate of Conformance & Operation Manual

ATVISION PTZ Camera System

ATVISION PTZ 33-300 is a Pan Tilt Zoom (with Manual Focus function) Camera System packed in a very compact and versatile form factor. Due to its size it is ideal for inspection of small pipes, hard to reach areas etc. With its durable construction and advanced functionality it's a must have tool for remote visual inspection professionals.



Application areas include detection of blockages, corrosion, erosion etc. in existing pipelines which ensures minimum downtime of piping systems. The System Consists of three parts viz Pan Tilt Camera, Camera Control Unit, Cable Reel and Skids

Salient Features

- Camera with 360° Pan & 180° Tilt
- Manual Focus function (Far focus & Near focus)
- 8 inch IPS LCD screen
- Waterproof IP68 Grade Camera System
- Wireless transmission of image/video for multiscreen viewing
- Wireless Keyboard Real Time Typewriting
- Digital Meter Counter
- Long Lasting (6 Hrs) Li-ion Batteries for Site Conditions

Kit Contains:

- 33 mm PTZ Camera
- 30 meter Reel
- Skids for 65 mm & 105 mm
- Charger, Keyboard, USB Flash Drive, Remote Control
- Certificate of Conformance & Operation Manual

ATVISION Pipe Inspection Robots

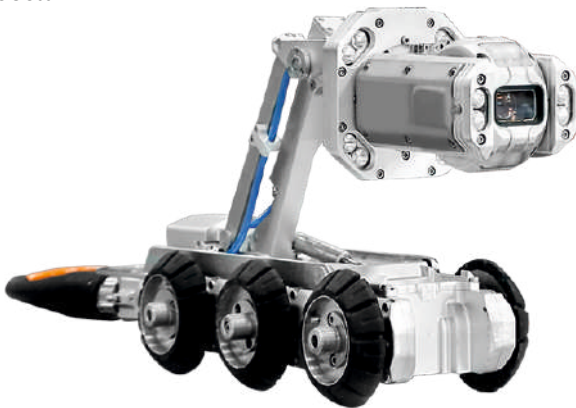
ATVISION PIR 100

ATVISION PIR 100 is a Portable MINI Pipe Inspection Robot which is small in size and suitable for pipes with a diameter of 100 to 300mm. Applications include inspection of small diameter pipelines, box culvert detection, tunnel culvert inspection, mine inspection and other hidden limited spaces for real-time image detection.



ATVISION PIR 150

ATVISION PIR 150 is a digital high-definition pipeline inspection robot, mainly used in pipeline inspection, the minimum can enter DN150mm pipe diameter. The PIR 150 is equipped with a powerful illumination source & a high-precision metering cable retraction device, which can automatically match the take-up and pay-off speed according to the travel speed of the car body, and automatically arrange the line during the take-up process



ATVISION BIR 150

ATVISION BIR 150 is mainly used for remote visual inspection of wind turbine blades, which can remotely detect defects such as bulging, wrinkles, degumming, and cracks inside the blades. The robot is designed to be compact and lightweight, with a long detection distance, reaching more than 85% of the blade length. The robot has climbing and obstacle crossing capabilities, with a climbing angle of 35°



Eddy Current Sorter (ECS 5000)

The **Eddy Current Sorter (ECS-5000)** is an advanced metal sorting unit that is capable of separating non-ferrous metals such as aluminium, copper, brass, alloy from dry recyclables. In all industries mix-up of metals in the form of raw, semi-finished or finished products may occur in transit, storage or at different stages at manufacturing processes and is segregated by chemical, Spectro analysis or metallurgical tests.



When proper coils are selected, Eddy Current Sorter is used for segregation of ferrous and non-ferrous metals without even a scratch on job or when bulk materials having external similarity are mixed up. Eddy Current Sorter can segregate metals of all forms and conditions when proper coils are selected. This instrument is widely used for segregation of mixed-up of metals in the form of bars, pipes, tubes, rods, bolts, nuts, gears, machined components, forged parts, and various types of metal components in automobile industries, heat treatment shop, fastener industries, forging unit, metal processing unit, fertilizer, refinery, and petrochemical projects & also final inspection in quality control department.

ECT Bobbin Probes & Calibration Tubes

We offer full range of ECT Bobbin Probes which are light weight, durable and used to inspect non-ferromagnetic tubes. Suitable for detection and sizing of metal discontinuities, such as corrosion, erosion, wear, pitting, baffle cuts, wall loss, and cracks. Apart from ECT Bobbin probes we also offer calibration tubes in almost materials as per ASME Sec. V Article 8.



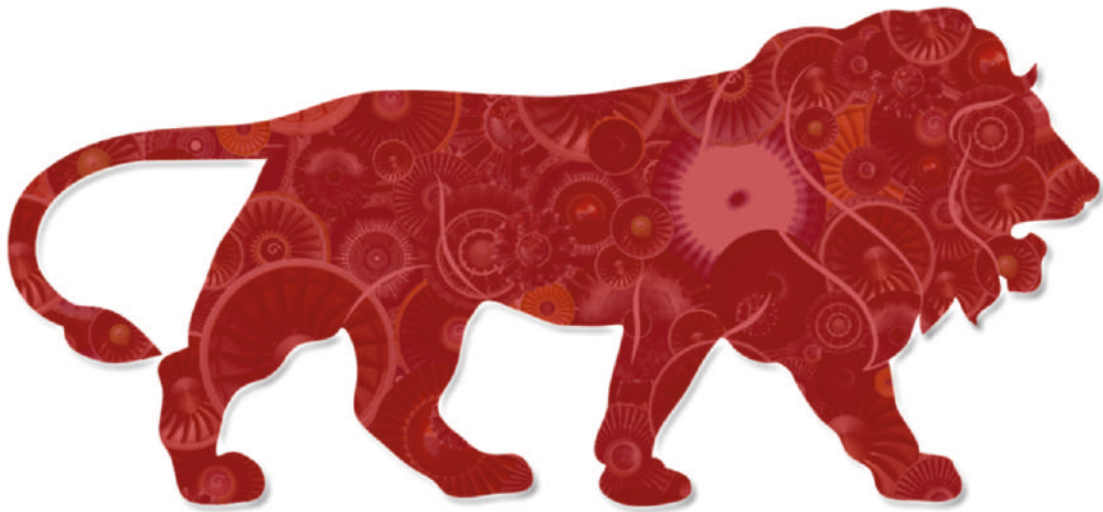
Salient Features

- Coils are potted by a wear resistant material
- Stainless steel wear guides at front & rear ends
- Light weight advance polymer kink-resistant cable
- 4-pin Amphenol connector
- Probes available from 12.6 to 47.6 mm
- Cable length available in 15, 20 & 30 metres

About Us

Keeping the vision of "Make in India", M/s. Arora Technologies (P) Limited is focusing on Manufacturing and Distribution of NDT Products & Accessories.

Our vision is to Innovate, design and manufacture NDT Products, Systems and Accessories for global markets by incorporating Quality & Excellence in our DNA. We are committed to build long-term relationships with our customers and pursue our business through innovation, latest Technology & unrelenting quest for excellence.



FlawGlo[®]
Series of MPT/LPT Chemicals

ATVISION
Series of Remote Visual Inspection

Arora Technologies (P) Limited

Plot No. D-183/8, MIDC, TTC Nerul, Navi Mumbai, Maharashtra 400706, India
T: +91-22-6138 0600 | E: info@arorandt.com | W: www.arorandt.com

