

DYE PENETRANT INSPECTION SYSTEM



DYE PENETRANT CHEMICALS AND ACCESSORIES

Dyeglo offers a comprehensive range in Dye Penetrant material used for inspection of surface flaws on components, regardless of configuration, material and size orientation.

The chemical range has acceptable levels of sulphate and hydrogen contents, are low in toxicity, non-corrosive and free of some depleting substances.

Daylight Visible Non-Fluorescent Red Dye Penetrant Material: comprises of solvent removable and water washable Red Penetrant, Developer & Cleaner packed in several cans or economical packs of 1 liter, 5 liter, 10 liter.

Fluorescent Dye Penetrant Material: comprises of solvent removable and water washable Fluorescent Penetrant, Developer & Cleaner packed in several cans or economical packs of 1 liter, 5 liter, 10 liter.

Fluorescent Portable Test Kits: comprises of set of Fluorescent Penetrant material in several cans, UV LED Torch, Link free Cloth, Test Piece, Operating Manual.

Accessories include: Test Blocks, No-D Test Plates, TMM Panel, UV LED Torch, Digital UV Meter, etc.

Fluorescent Dye Penetrant Inspection System: Inspection System is a fixed installation of modular units with built-in processing & special tank. Units comprise of stainless steel tanks for mixing, application of Penetrant, Developer, Inspection Booth with dark room facility. This system is designed to meet customer requirement, to provide precise and repeatable process and high inspection reliability, productivity which in turn reduces inspection cost.

Approvals / Conforms to:

- Nuclear Power Corporation of India
- ASTM E 165, BS 569, ASME BAFV Code Section V



DYEGLO PVT. LTD.

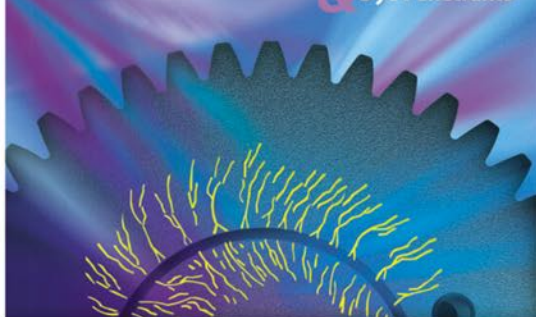
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REGISTRATIONS
AND
APPROVALS:



DYEGLO
Dyeglo Pvt. Ltd.

Magnetic Flaw Detection Systems & Dye Penetrants



www.dyeglo.co.in

We manufacture Magnetic Flaw Detection Systems and Dye Penetrants.

We have strong mechanical design engineering capabilities to solve specific client requirements in an innovative and effective method.

We have world class manufacturing and design facilities and follow stringent quality standards.

MAGNETIC PARTICLE INSPECTION MACHINES For detection of surface / subsurface flaws in ferromagnetic material

Salient Features

Designed to suit specific customer requirement based on geometry of test part, desired inspection rate (per day / per shift) etc.

Suitable for mass inspection of test parts.
Micro-Processor / PLC controlled operations.

Digital meters & display that can be easily viewed in the dark room.

Built-in / separate demagnetization facility.

Automatic or semi-automatic functions of loading, processing, conveying, rotating, demagnetization and discharge can be provided for consistent and effortless processing.

Stepless controls ensure precise value of magnetization. Machines designed to consume less power.

Solid State Control circuit used, to rapidly switch ON/OFF Phase control of the transformer is by Silicon Controlled rectifiers.

Self contained AC/DC power supply available.



BAR/TUBE/BILLET TESTING

AVAILABLE IN 1000 AMPS TO 15000 AMPS RANGE

Designed for inspection of bars / tubes in full length or in segments.

Detection of surface / sub-surface flaws.

Facility of material handling system can be provided



SPECIAL PURPOSE AND CUSTOMIZED

AVAILABLE IN 1000 AMPS TO 15000 AMPS RANGE

Customized designs to suit specific customer requirements e.g. geometry of the job, inspections per day / per shift etc.

Facility of material handling systems and automated processes to permit inspection at required production rate

Provision of demagnetizer of suitable port size

PLC Controlled functions and HMI screen or LCD

Sliding type / Split type / Collapsible type
Dark Room

AUTOMATIC MPI SYSTEM FOR BEARING RACE



COIL TYPE

AVAILABLE IN 1000 AMPS TO 15000 AMPS RANGE

Machine with Circular, longitudinal magnetization and combined magnetization comprising of systematically energized output circuits in rapid sequence to reveal multi-directional cracks.

Change over facility for magnetization mode sequences.

Built-in demagnetization facility.

Capable of accommodating the largest components envisaged for testing.



ELECTRO - MAGNETIC YOKE

Adjustable legs permit changing contact spacing and relative angle of contact to accommodate irregular shaped parts.

Built-in AC/DC facility and calibrated for lifting capacity as per standards.

Highly portable and can locate discontinuities in any direction with proper yoke orientation.



MOBILE / PORTABLE UNITS

AVAILABLE IN 100 AMPS TO 15000 AMPS RANGE

For inspection of big size or odd shaped components that cannot be accommodated on stationary machines.

Detection of surface & sub-surface defects.

Mounted on trolley for easy manoeuvring.

Built-in demagnetizer



INTENSITY METER

White and Black Light combined intensity Meter with high light LCD display.
• Steep keyed with UV and White light sensors.
• Multiple unit facility available.

ACCESSORIES



Magnetic powders and inks - Fluorescent and Non-Fluorescent type, oil and Water Based, available in powder or concentrate form.
Residual field indicators, white contrast paint (fast drying), Carrier Oil.
Black powder in aerosol can, UV LED Torch, Keros Ring, Glass centrifuge tube with stand, Intensity meter, Gauss Meter.
Artificial flaw sheet / Insert & circular configuration)
Copper Mesh Pad, Test Blocks

UV TORCH

• Light weight UV Torch with 365nm UV LED's
• Intensity > 2000 mW/cm²
• White adjustable in battery operated version
• Rechargeable with 1.5A-hr rechargeable batteries.



GAUSS METER

• Digital Gauss Meter with backlight LCD display
• Check keyed with Hall's Sensor
• AC / DC facility with multiple units feature.

