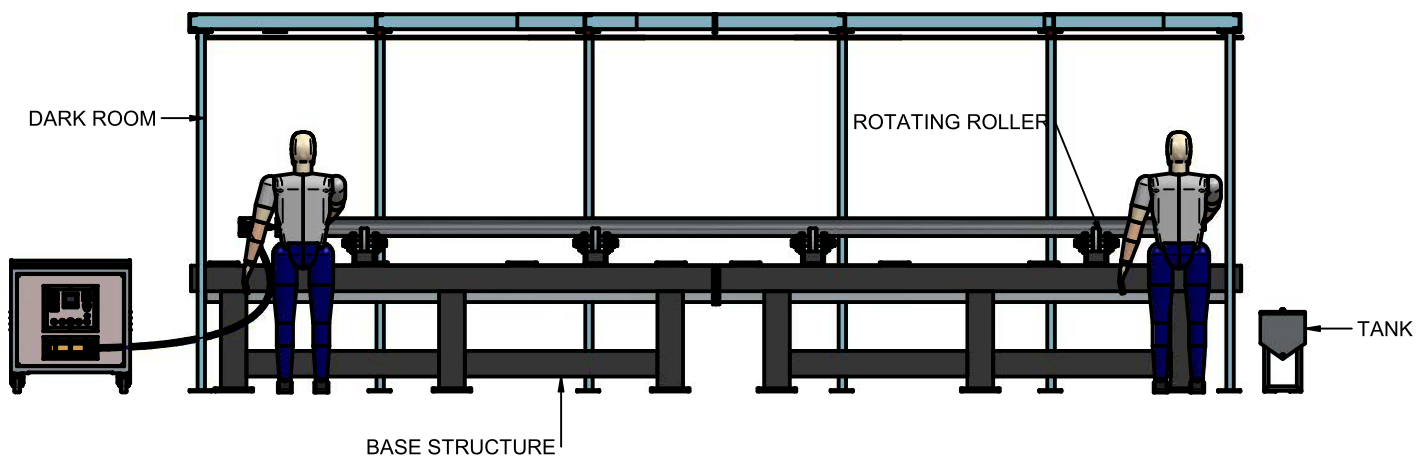
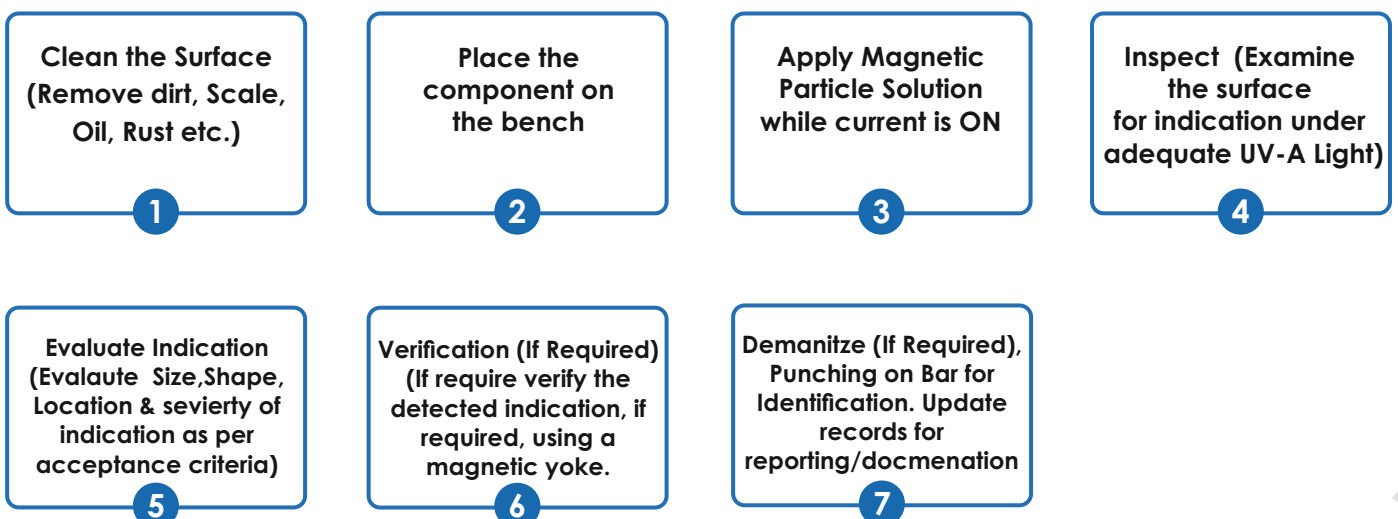


Manual Bars & Billets Inspection Services



We provide Magnetic Particle Testing (MPT) services for testing ferromagnetic bars and billets. To optimize the inspection, we have designed inspection flow chart/methodology which helps in identifying critical surface and near-surface discontinuities and support reliable quality assessment before material is released for further processing.

Inspection Flow Chart:



Inspection Capabilities:

Parameter	Specification
Bar Diameter Range	20 – 120 mm dia.
Bar Length	Up to 6 m
Loading / Unloading	Crane / Manual handling
Magnetizing Current	Up to 8,000 Amps
Primary Defect Orientation	Axial / Longitudinal
Magnetization Technique	Head Shot / Prod Technique
Magnetic Particle Powder	Water Fluorescent Powder (2-5-micron, average particle size is 3 micron)
UV-A Lamp	5000 Micro Watt Per cm ²
Inspection Accessories	Centrifugal tube to monitor contamination level of the bath on weekly/agreed basis
	Pie Gauge to verify direction of magnetic flux on a surface
	As per new ASTM Standards measurement of field strength during magnetization is mandatory. We use Digital Field Strength Measurement Meter to measure the same.
	Use of QQI/Shims to verify field direction and relative strength.
	Gauss Meter to measure the residual gauss (whenever required)
	UV-A and white Light Meter to ensure minimum light intensity and permissible white light during inspection
	Magnetic AC/HWDC Yoke for reverification (whenever required)

Trained & Qualified Manpower:

Inspection personnel are trained and qualified in accordance with applicable standards like ASNT SNT-TC-1A or ISNT 13085 or ICN (ISO 9712) Scheme.

On-Site Supervision:

Dedicated supervisor is offered at every plant, with supervision coverage for up to 4 machines to ensure consistent inspection practices, quality control and adherence to approved procedures.

Bar Punch / Identification:

Individual bars will be identified through bar, punching/ marking as per customer requirement.

Optional Services:

- Ultrasonic Flaw Detection on bars
- PMI by XRF Method

