



MGM FORGINGS PVT LTD.
Mysuru



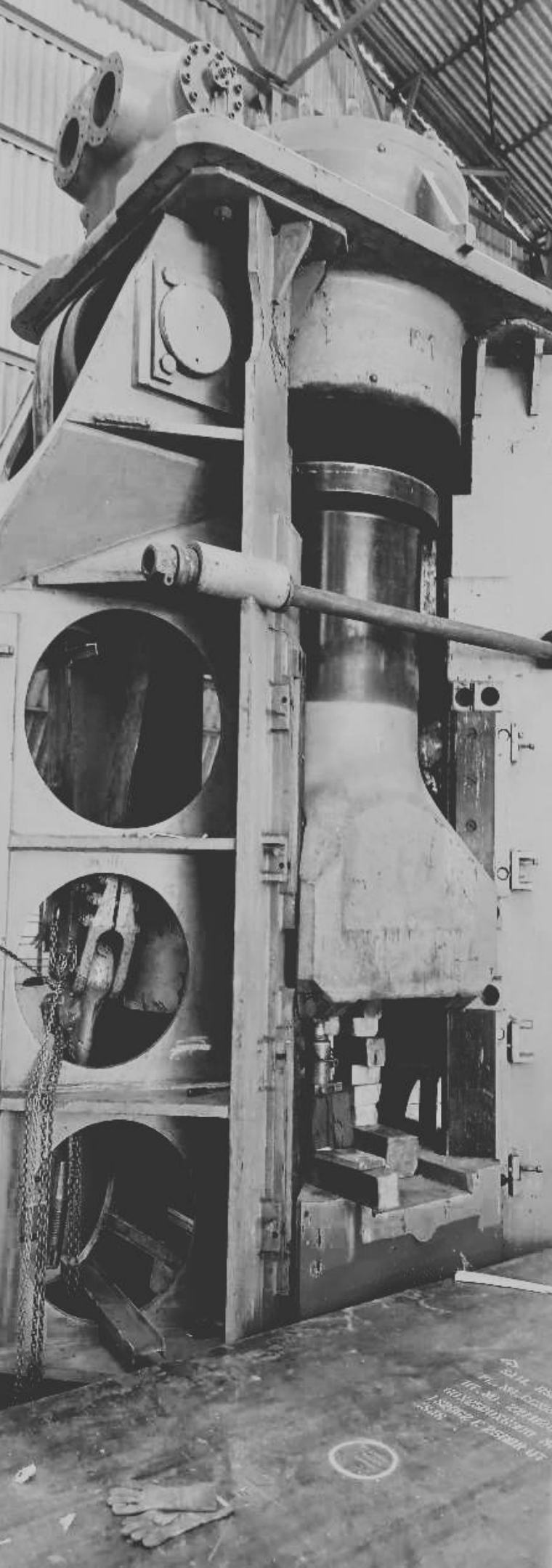
ABOUT MGM FORGINGS

- ▶ MGM group was founded in 1978 as a start-up in the name of M/s. Forge Tools (Mysore) Pvt. Ltd., initially as a Tool Room. on a bed of integrity, fuelled by burning ambition. Years of staying true to our principles and tireless endeavour has produced rich results and motivated us to start a Hammer Forging Company in the name of M/s. MGM Industries in 1982.
- ▶ Subsequently in 1995, we started M/s. MGM Forgings Pvt. Ltd., a Press Forgings unit, as an organized player with qualified and highly skilled employees to cater for the needs of the automobile industry. In the year 2008 assets of M/s. MGM Forgings Pvt. Ltd., was transferred to M/s. AMW Motors Ltd., and later to Siderforgerossi, Italy.
- ▶ Re establishing the new plant in Hebbal Industrial Area Mysuru and the same is under commissioning and will be functional from Dec 2023.



VISION & MISSION

- ▶ Continuous improvement in our processes and products through training, automation, motivation and through an effective Quality Management System.
- ▶ Create a value supply chain for all our Customers by reliable supplies in a continuous manner.
 - Enhanced customer satisfaction
 - Timely quality product delivery
 - Seamless Customer Interaction and Feed Back for continuous improvement in Quality and Technological Improvements
 - Competitive pricing for a win-win situation



SERVICES OFFERED



Forged Components from 25 Kgs to 250 Kgs range



Heat Treatment Services:

- Normalizing
- Hardening
- Tempering
- Annealing
- Stress Reliving



TYPE OF MATERIAL

FORGED



FERROUS

- ▶ Carbon Steel
- ▶ Low Alloy Steel
- ▶ Medium Alloy Steel
- ▶ Stainless Steel
- ▶ Boron Steel



INFRASTRUCTURE

COMPLETE FORGING SOLUTION

- ➔ **Die Design & Die Manufacturing**
- ➔ **Die Welding**
- ➔ **Die Simulation & Production Software's**
- ➔ **Forging**
- ➔ **Heat Treatment**
- ➔ **Testing**
- ➔ **Machining**
- ➔ **Finishing**
- ➔ **Packing & Dispatch**

FORGINGS

- 1.5 MW power has been sanctioned by KEB and power will be serviced by October 2023
- The entire forging line will be commissioned and functional by December 2023 & Trial Production will be during January 2024
- Commercial Production will start from February 2024
- ISO 9000, IBR Approval will be done during February 2024

FORGING LINE
(under commissioning)



- ➔ **32 T Beche Counter Blow Hammer**
- ➔ **25 T Beche Counter Blow Hammer**
- ➔ **13 T Hydraulic Counter Blow Hammer**
- ➔ **1.5 Ton Pneumatic MPM Make Forging Hammer 2 Nos**
- ➔ **Induction Billet Heaters (IBH)**
- ➔ **Billet / Forging Re-Heating Furnace - Electric**
- ➔ **Trimming Presses 800 T HMT & 600 T Weldor**

FORGING LINES



Line 1: For Forging Component ranging from 80 - 250 Kgs

- 32T Pneumatic Beche Make Counter Blow Hammer (Under final commissioning)
- 25 T Pneumatic Beche Make Counter Blow Hammer (Foundation Completed Commissioning in progress)
- 1200 KW IBH with capacity of 2.5 Ton heating capacity per hour (Ordered & Delivery due in Nov 23)
- HMT 800 Ton 4 Crank Wide Ram Trimming and Hot Coining Press (Under Commissioning)
- 12000 T per Annum Installed Capacity



32 T Counter Blow Hammer - Beche DG 32



**25 T Counter Blow
Hammer – Beche DG 25**

FORGING LINES



Line 2 : For Forging component ranging from 25 - 80 Kgs

- ▶ 13 Ton Hydraulic Beche Make Counter Blow Hammer
- ▶ 1.5 Ton Pneumatic MPM Make Pre Forging Hammer
- ▶ 600 KW IBH with 1.5 Ton Heating capacity per hour
- ▶ 600 Ton Trimming Press
- ▶ 6000 T per Annum



13 T Hydraulic Counter Blow Hammer – Beche HG 13



600 T Weldor Trimming Press



800 T HMT Trimming Press



**1.5 T MPM
Pre Forging
Hammer 2 Nos**



HEAT TREATMENT & SHOT BLASTING PLANT



HEAT TREATMENT LINE

(to be operational by mid August 2023)

- ➔ 4 Nos 1.5 T Capacity Hardening / Normalizing / Annealing furnace**
- ➔ 2 Nos 1.5 T Capacity Tempering furnaces – Auto Firing : Furnaces equipped with PID controller, Modular drive & Ratio control valve**
- ➔ Fuel : PNG**
- ➔ Paperless Data Logger**
- ➔ Polymer & Water Quenching facility – 14000 L capacity equipped with Heat Exchanger & Cooling tower**
- ➔ Submersible Type Agitation System for better heat extraction**
- ➔ Charging & Un-Loading Machine – transfer time : 50 sec**
- ➔ Temperature Uniformity conforms to API & AMS 2750 E
Installed Capacity 9000 T per Annum will be upgraded to 18000 T per Annum shortly**
- ➔ 1500mm Dia Swing table Double Door Shot Blasting Machine**



Semi Automatic Charging Machine for Unloading and Transfer of Hot Forgings from furnace to Quenching tanks (Polymer and Water within 45 Sec)



**Cycle Process of Polymer Quenching is Less than 45 Sec
from Furnace to Quenching tank**

Quality Control Instruments



**18 Channel Paperless
Data Logger for
Temperature recording**



**Infrared Thermometer
for spot checking of
temperature**




**Refractometer for
Checking Strength
of Polymer bath**



**1500mm Dia Swing table
Double Door Shot
Blasting Machine**



- 9 point uniformity check according to AMS 2750 E was completed
 - 2 Nos. Hardening furnaces: Class 5
 - 1 No. Tempering furnace : Class 3
- Furnaces meets the requirement of AMS 2750 E
- Furnaces also meets the requirement of API 6A




FLOW CAL

TRUSTED AND RELIABLE CALIBRATION

NABL Accredited Calibration Lab as per ISO/IEC 17025:2017

#71, Koorgalli Industrial Area, Mysuru-570 018. Mob: 98865 02708. Email: vinay1flowcal@gmail.com, www.flowcal.in



CAL CERT No. FCL/23/2299-01 Page no. 2 of 4

Results: Starting time: 15-06-2023 08:48:51 TO Ending time: 15-06-2023 10:40:53

Logging start time: 15-06-2023 10:42:53 Logging end time: 15-06-2023 11:40:53

SET TEMPERATURE-610 °C									
	sensor-1 in °C	sensor-2 in °C	sensor-3 in °C	sensor-4 in °C	sensor-5 in °C	sensor-6 in °C	sensor-7 in °C	sensor-8 in °C	sensor-9 in °C
Minimum temp	610.0	602.9	510.0	610.1	610.2	610.4	608.7	611.4	605.1
Maximum temp	619.7	619.1	619.8	619.2	619.7	619.9	619.9	619.8	613.9
Average temp	615.2	611.8	614.4	614.6	614.7	617.4	615.5	615.7	607.7

Logging start time: 15-06-2023 15:12:53 Logging end time: 15-06-2023 16:10:53

SET TEMPERATURE-890 °C									
	sensor-1 in °C	sensor-2 in °C	sensor-3 in °C	sensor-4 in °C	sensor-5 in °C	sensor-6 in °C	sensor-7 in °C	sensor-8 in °C	sensor-9 in °C
Minimum temp	880.0	880.0	880.3	881.9	890.4	890.7	880.1	880.1	880.0
Maximum temp	889.9	889.9	889.8	889.9	899.9	899.6	889.6	899.6	889.8
Average temp	887.3	886.6	887.6	888.4	899.9	899.6	889.6	899.6	889.8


Logging start time: 15-06-2023 18:14:53 Logging end time: 15-06-2023 19:12:53

SET TEMPERATURE-960 °C									
	sensor-1 in °C	sensor-2 in °C	sensor-3 in °C	sensor-4 in °C	sensor-5 in °C	sensor-6 in °C	sensor-7 in °C	sensor-8 in °C	sensor-9 in °C
Minimum temp	955.3	962.4	960.4	950.1	950.4	955.2	961.6	960.5	961.2
Maximum temp	959.5	967.5	965.8	969.9	955.2	958.8	969.4	966.9	967.9
Average temp	957.6	965.0	963.1	962.0	952.7	957.2	965.2	964.3	965.1



Logging start time: 15-06-2023 21:34:53 Logging end time: 15-06-2023 22:32:53

SET TEMPERATURE-1050 °C									
	sensor-1 in °C	sensor-2 in °C	sensor-3 in °C	sensor-4 in °C	sensor-5 in °C	sensor-6 in °C	sensor-7 in °C	sensor-8 in °C	sensor-9 in °C
Minimum temp	1048.6	1048.1	1047.4	1047.5	1049.2	1049.0	1047.1	1051.2	1053.0
Maximum temp	1051.8	1050.4	1055.4	1057.1	1067.3	1069.8	1049.9	1069.9	1065.5
Average temp	1049.6	1049.2	1051.7	1052.8	1054.0	1062.4	1049.2	1062.6	1060.4

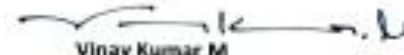
Calibrated By



Hemanth K
(Calibration engg)

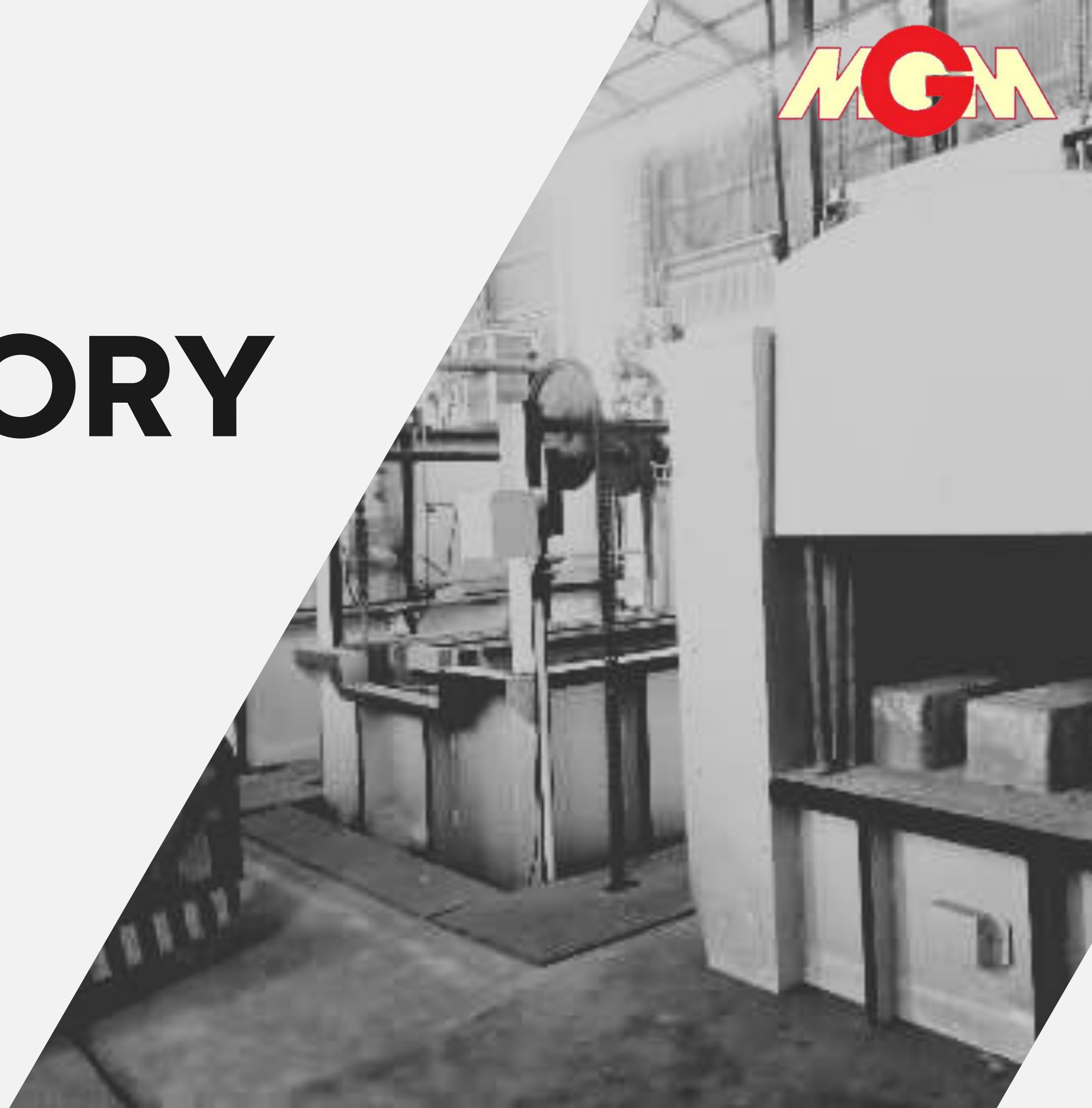
Authorised By



Vinay Kumar M
(Quality Manager)



TESTING LABORATORY





Chemical : Optical Emission Spectro photometer



Mechanical:

- Brinell, Rockwell, Portable Hardness Tester
- Universal Testing : Tensile, Bend & Compression
- Impact Testing



Macro Etching Facility



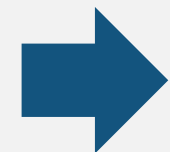
Zoom Stereo Microscope : X 25



Microscope with Image Analyzer Software



Sample Preparation Facility for Micro & Macro



Hardenability : Jominy Testing Apparatus



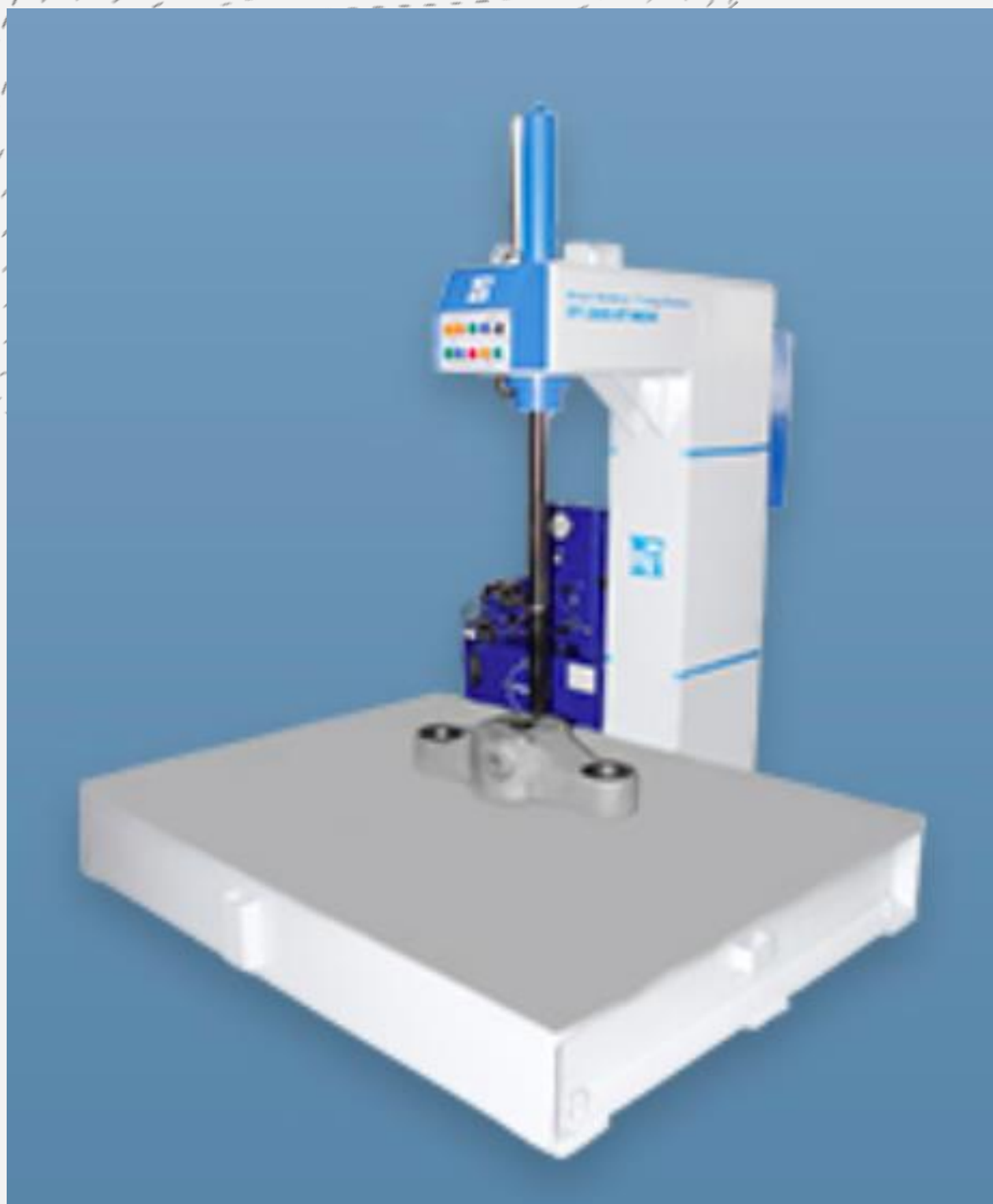
NDT Facility:

- Magnetic Particle Testing
- Ultrasound
- Liquid Penetrant



Mechanical Testing





**Deep Throat Brinell Hardness
Tester for Heavy jobs**



**Rockwell
Hardness Tester**



Brinell Hardness Tester



**20 T Universal Testing Machine -
Electronic**



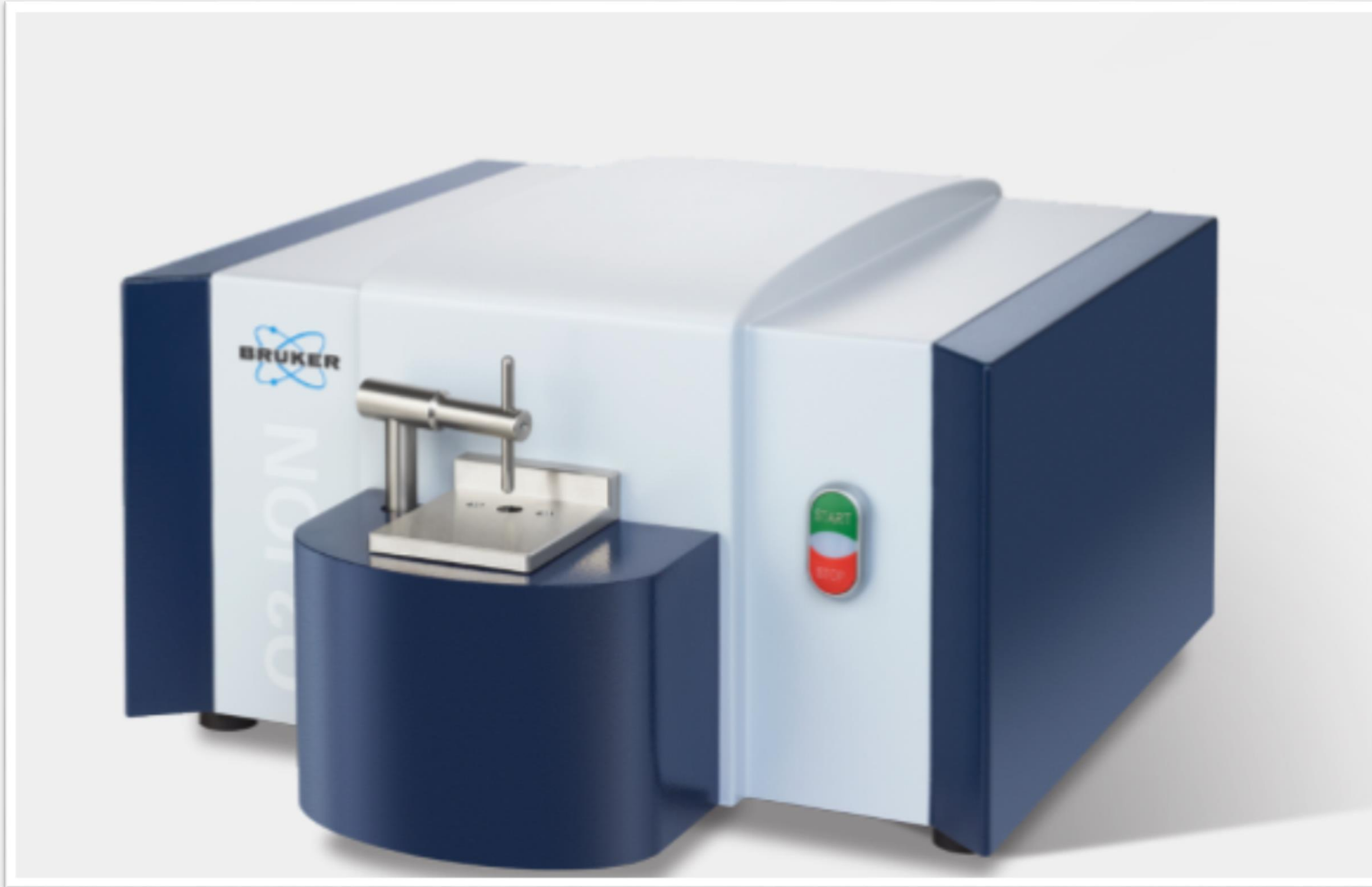
Izod - Charpy Impact Testing



**Jominy
Hardenability
Test Apparatus**

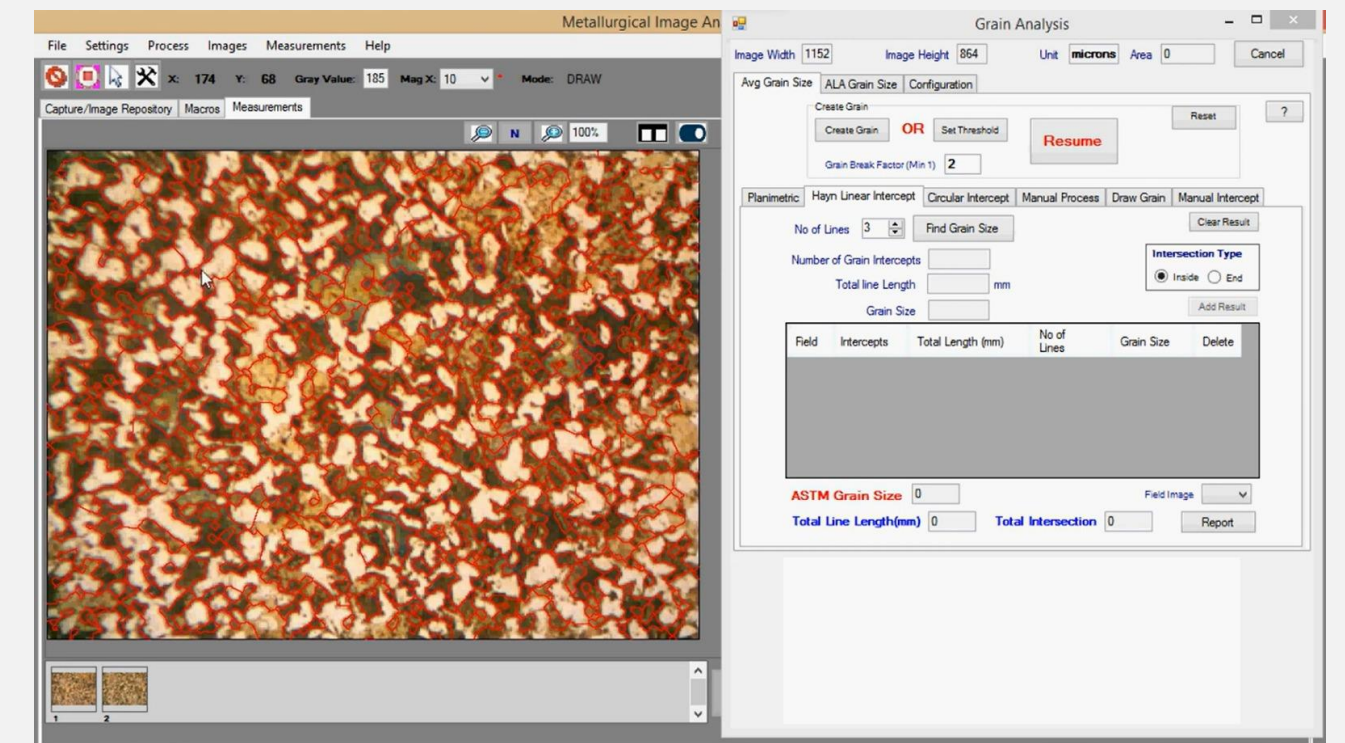


Optical Emission Spectrometer

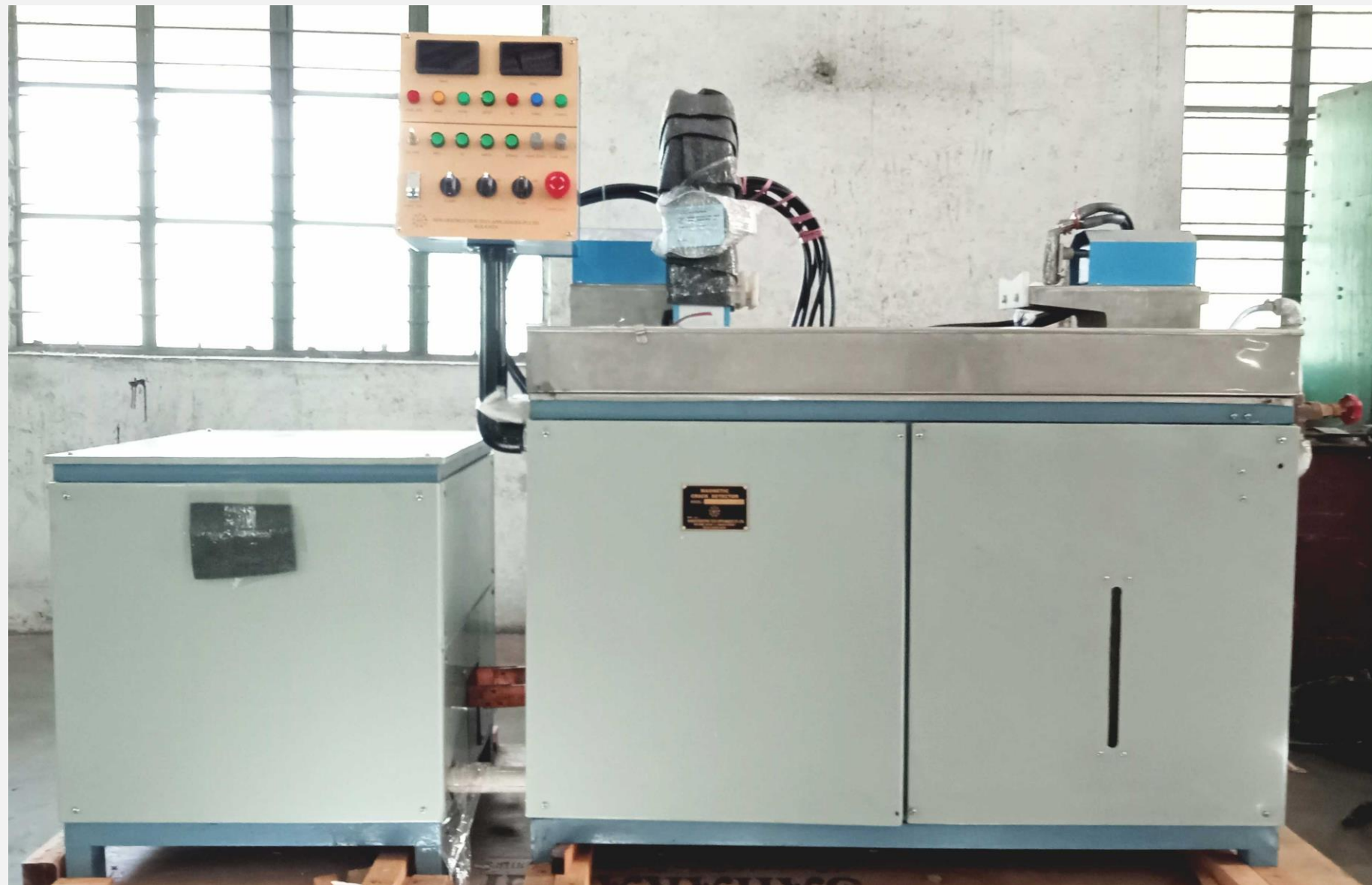


MGM

For Chemical Composition Check Analysis



Trinocular Inverted Metallurgical Microscope with Image Analysis Software



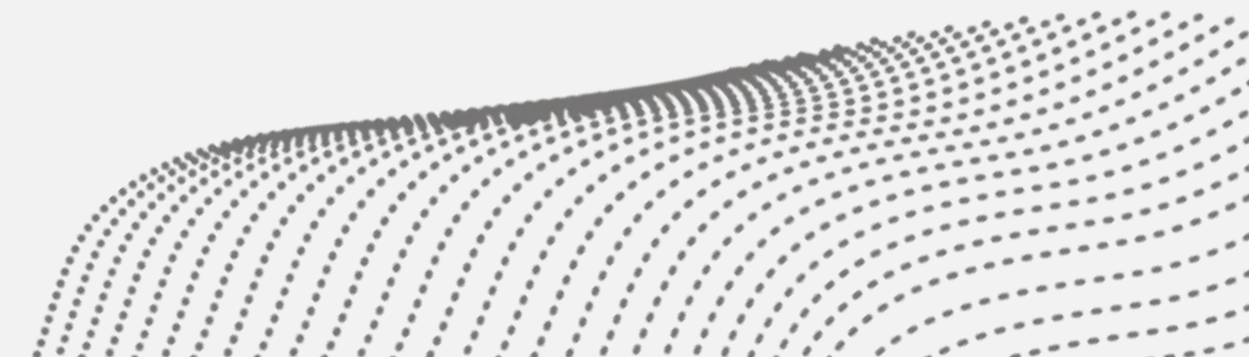
Magnetic Particle Test Equipment (UV)



Dye Penetrant Test Kit



Ultrasonic test Equipment



TOOL ROOM



Pillar Drilling Machine
Drilling Capacity 90 Dia
Arm Length 3 Mtrs



VMC Die Making Machine
Spindle With 8000 RPM 2
Nos

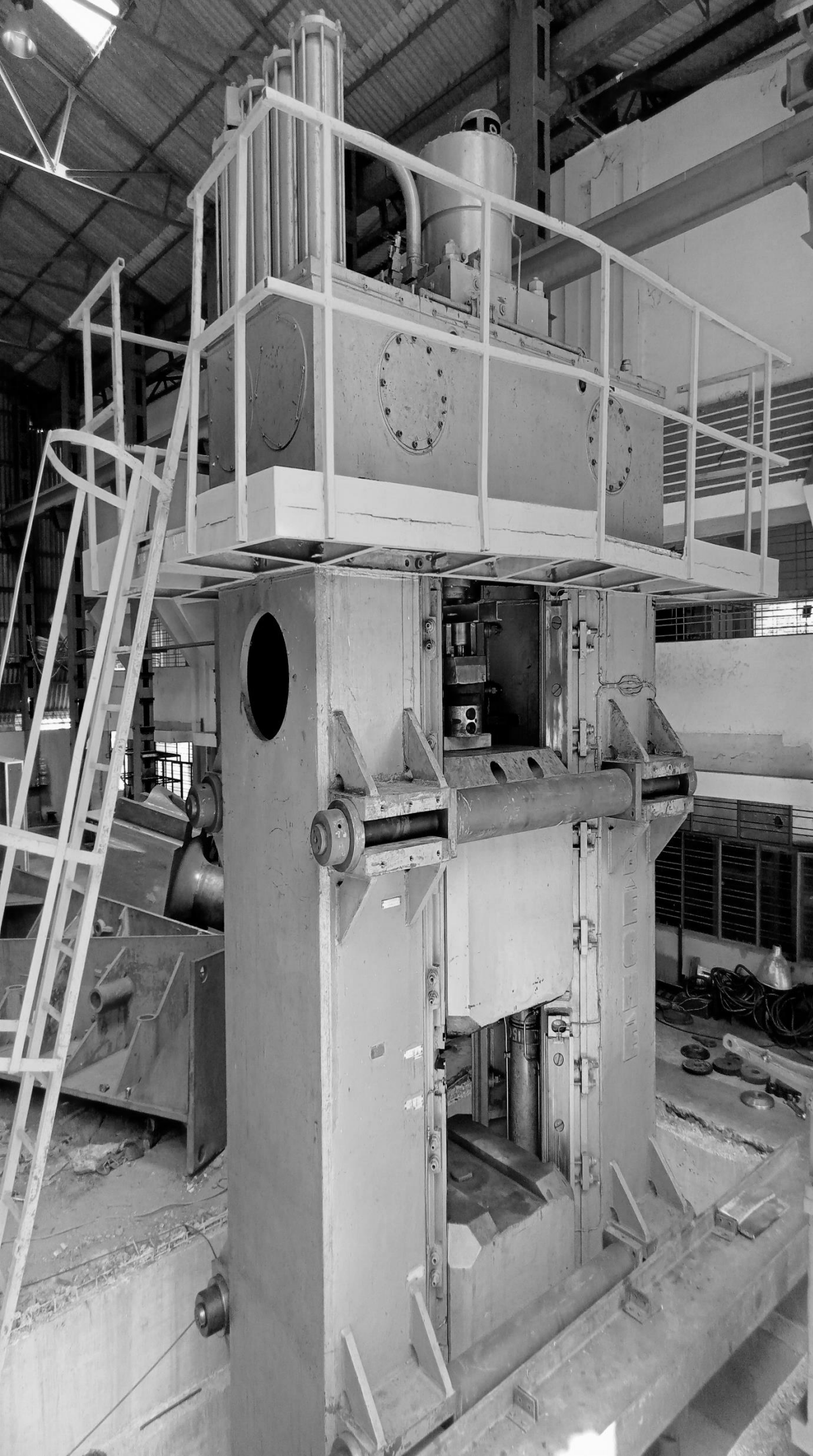


Planing Machine
1500 x 500 mm



OUR STRENGTH

- Four decades of experience in the Forging Industry
- Trained, skilled and dedicated team with years of experience in the forging sector
- Infrastructure : End to end facility under one roof
- Professionally qualified Metallurgist as Technical Director
- Strong Marketing Team headed by Commercial Director in Bengaluru.
- Quality at every step



OUR PREVIOUS EXPERIENCE



- ▶ Automobile sector (HMT)
- ▶ Oil & Natural Gas
- ▶ Mining equipment
- ▶ Valve Industries
- ▶ Earthmoving
- ▶ Nuclear Power
- ▶ Defence – Track for T 90 Tank & Ammunition items


OUR PAST CUSTOMERS

UCA Group – USA	<u>Defence:</u> Ordnance Factory, Ambhajhari Ordnance Factory, Khamaria Heavy Vehicle Factory, Avadi
Automotive Axles	
Axel India	
VST Tillers and Tractors	
Ingersoll rand	Nuclear Power Corporation of India
Atlas Copco	BEML
L&T	FMC
Faiveley	Ashok Leyland
Rane Madras	Federal Mogul
Tata Motors	Wipro Fluid Power




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**THANK
YOU**