



GRAPHITE INDIA LIMITED

SPECIALITY DIVISION

Uniquely special.....

CORPORATE PROFILE



- Incorporated in 1963 with Technical Collaboration with M/s. Great Lakes Carbon Corporation, USA.
- GIL Today is one among five largest manufacturers and suppliers of Graphite Electrodes, Speciality Graphite & Carbon products in the World having Sales Turnover of more than US \$400 Million .
- GIL is divided as Electrode Division, Speciality Division, Impregnated Graphite Equipments Division, Glass Reinforced Plastics Division and Power & Raw Materials Division.
- Installed Electrode capacities around 75000 MT in India (Durgapur, Bangalore & Nasik) and 18000 MT in Germany.
- Exports 65% of total production to more than 150 customers spread across 50 countries in 5 continents.

SPECIALITY DIVISION



- Speciality Division is an off-shoot of GIL's R & D efforts and a dedication to India's Carbon & Graphite Field.
- Started as a Research Centre in 1976 at Bangalore, Speciality Division is nurtured as World Class Production Facility sprawling across two plants, one in Bangalore and another in Nashik.
- Speciality Division caters to specific requirements of various industries viz. Non-Ferrous, Aerospace, Powder Metallurgy, Mechanical, Chemical, Optical Fiber, Glass, Semi Conductor which were hitherto being imported.
- GIL has Extruded Presses in Bangalore & Nashik Plant, Compression Molded Presses and Isostatic Presses in Nashik unit respectively to produce fine grain graphite and ultrafine grade graphite products.
- The manufacturing units are **ISO 9001:2008, ISO 14001:2004 EMS** certified by **TUV CERT**.

PRODUCTS



- CS2 ELECTRODES
- STANDARD RODS
- STANDARD BLOCKS
- MINI RODS
- HEAT EXCHANGER TUBES
- FLUX TUBES
- CARBON RODS
- CARBON & GRAPHITE BRICKS
- BRAKE PADS
- MACHINED COMPONENTS
- ANTI-OXIDATION TREATED GRAPHITE





GRADES

- EXTRUDED GRAPHITE-FINE GRAIN
 - GMMR 50, GMMR
 - GLM50, GLM
 - GMT

- MOLDED GRAPHITE-ULTRA FINE GRAIN
 - XN
 - DXN
 - AMOR
 - DXT

- ISOSTATIC GRAPHITE-ULTRA FINE GRAIN
 - GLF HD
 - ELF HD

TYPICAL DIMENSIONAL SHEET



■ GMMR 50, GMMR

- Dia in mm: 3,6,10 - Length: 300 mm
- Dia in mm: 13,16,19 - Length in mm: 300,610mm
- Dia in mm: 25,32,38,45,50,65 - Length in mm:300,610,915,1220
- Length in mm: UPTO 4000 mm for special requirement

■ GLM 50, GLM

- Dia in mm: 75,125, 150,175,200, 225, 250, 275,300,325,350, 400, 450,500, 550,600,650,700, 750 ,780
- Blocks: 400 x 400, 500 x 500, 550 x 550, 600 x 600 ,375 x 900 mm
- Length in mm: upto 3200 mm

TYPICAL DIMENSIONAL SHEET



- GMT
 - Heat Exchanger Tubes
 - 32 ODx22ID, 38 ODx25ID mm – Length in mm: 1800
 - 50 ODx38ID mm – Length in mm: 1800, 2400, 2740
 - Length in mm: 1800, UPTO 4000 mm
 - Flux Tubes
 - 75 ODx19IDin mm – Length in 1800, 2400, 2740
 - 50 ODx13IDin mm – Length in 1800, 2400, 2740
 - Length in mm: 1800, UPTO 4000 mm



TYPICAL DIMENSIONAL SHEET

MOLDED MOLD

Nominal Size		Minimum		Maximum	
Dia	Length	Dia	Length	Dia	Length
mm	mm	mm	mm	mm	mm
20	140	22	139	28	159
25	140	27	139	33	159
32	300	34	297	40	317
45	140	47	139	53	159
50	300	53	297	59	317
65	300	67	297	73	317
85	300	88	297	94	317
125	300	132	297	138	317
100	500	109	502	115	522
129	300	136	307	142	327
150	500	164	502	170	522
200	500	211	502	217	522
250	500	257	502	263	522
300	500	313	502	319	522
300 X 250	500	322x257	502	328x263	522

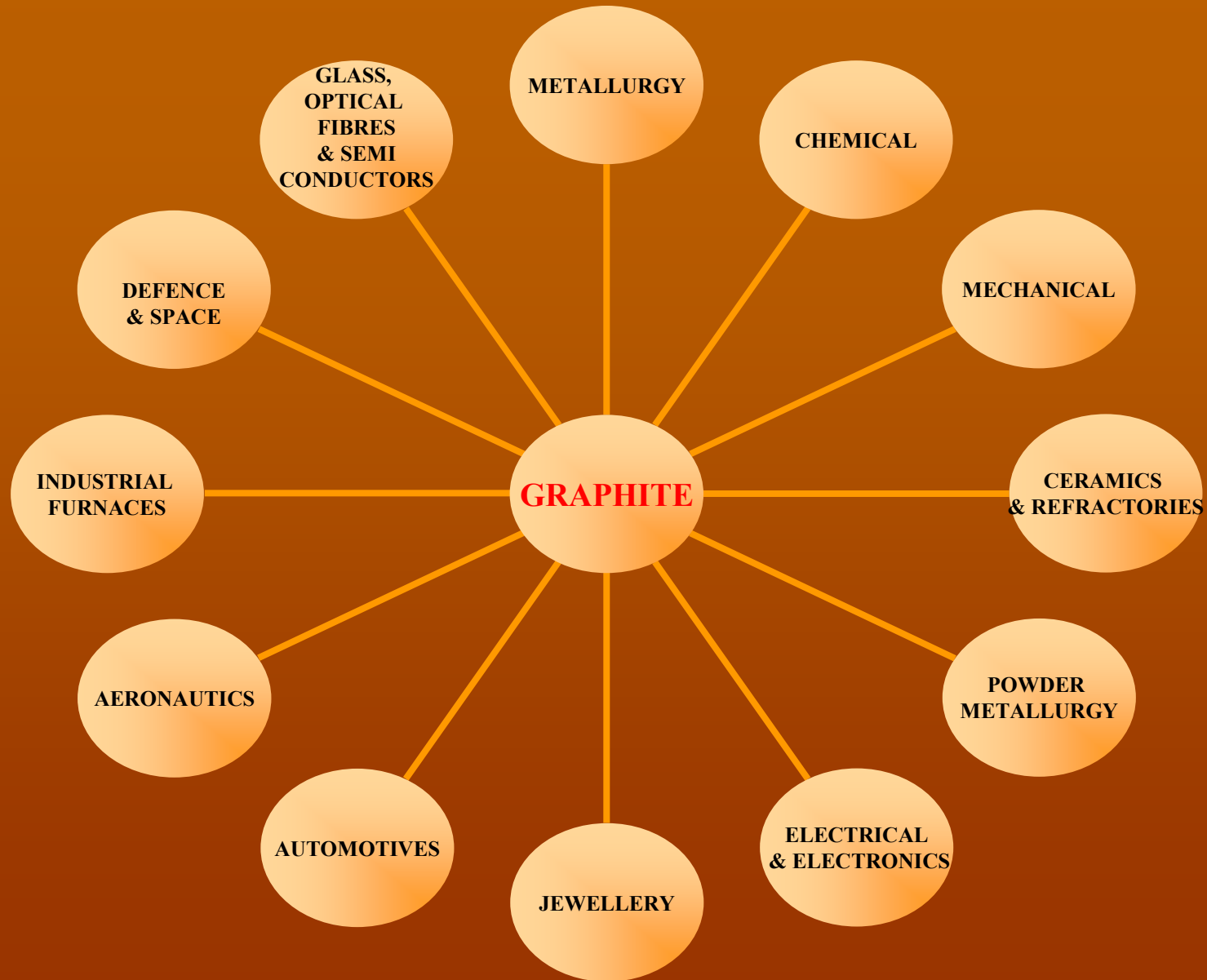
MACHINED COMPONENTS



- GIL has dedicated Machine shops having CNC Machines, Lathes, Milling Machines, Band Saws, Drilling Machines & Plaining Machines to custom machine graphite.
- Some of Machined Components are as follows
 - Pump Casings
 - Run Out Tables
 - Continous Casting Dies & Moulds
 - Heating Elements
 - Rocket Exhaust Nozzles
 - Heavy Metal Melting Crucibles
 - Throats, Cones & Domes
 - Metallizing Boats
 - Impellers, Stators & Rotors
 - Sintering Trays, Grooved Plates & Rings
 - Susceptors, Canisters, Plungers, Sleeves & Tubes



APPLICATIONS





ALUMINIUM INDUSTRY

- Graphite Impeller Systems for Aluminium Degassing
- Graphite Fluxing Tubes
- Casting Rings for Hot Top Casting or for Gas Slip System
- Graphite Plates and Rolls For Aluminium Extrusion Presses



INDUSTRIAL FURNACES



■ PRODUCTS

- Heating Elements
- Susceptors
- Rollers
- Charging Plates
- Furnace Structural Elements
- Connectors, Divertors
- Hearth Bars & Supports
- Hit Box Flaps
- Terminal Rods, Sight Tubes
- Element Holders & Connectors
- Screws, Nuts, Bolts, Exhaust Tubes
- Baffle Plates, Pads, Carbon Tubes



■ GRADES

- GLM, GLM 50
- GMMR, GMMR 50, GMT

HARD METAL & POWDER METALLURGY

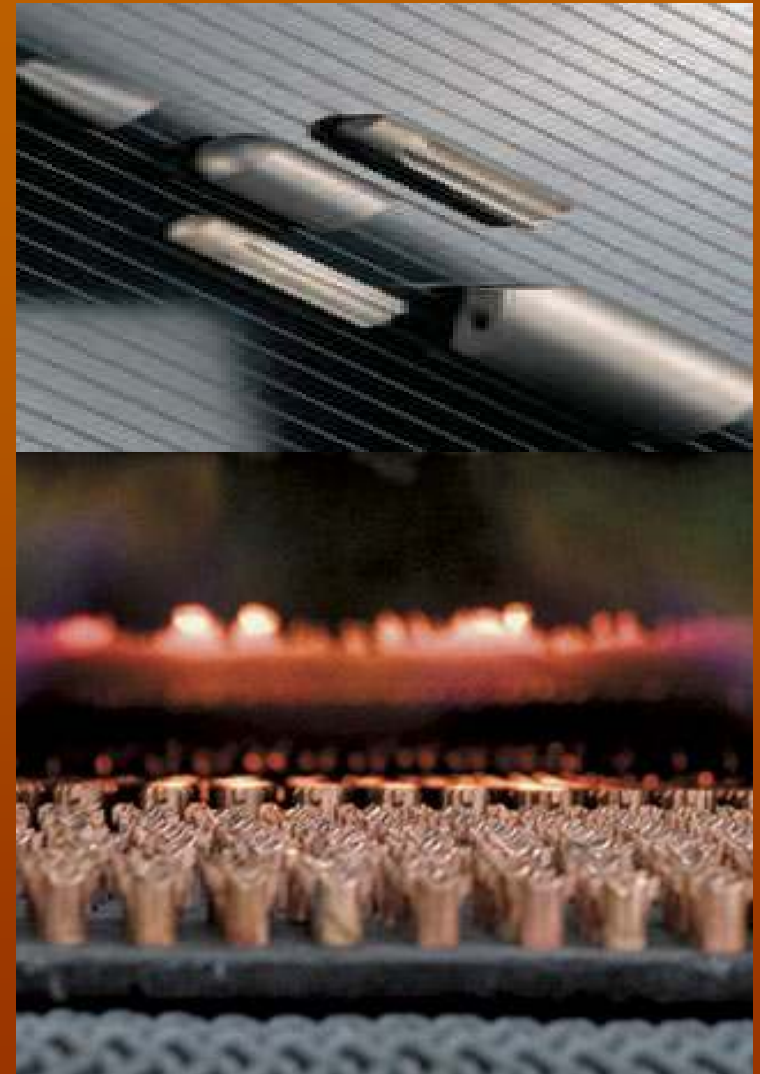


■ PRODUCTS

- Sintering Trays
- Boats & Moulds
- Hot Pressing Dies
- Side & Bottom Plates
- Plungers
- Rings, Grooved Plates
- Discs, Soldering Jigs

■ GRADES

- GLM, GLM 50
- GMMR
- DXN
- DXT
- GLF HD



DIAMOND TOOLS , PDC DRILL BITS & PCD CORE BITS

■ PRODUCTS

- Moulds
- Insert
- Trays



■ GRADES

- GLM,
- GMMR
- DXN



METALLURGY



■ PRODUCTS

- Tap hole Blocks
- Dossifiers
- Heater Blocks
- Continuous Casting Dies
- Precious metal casting
- Gas Injection Tubes
- Casting Chutes
- Chilling Plates
- Ingot Moulds

■ GRADES

- GLM 50, GLM
- GMMR 50, GMMR
- GMT
- DXN, XN
- GLF HD, ELF HD



CHEMICAL



■ PRODUCTS

- CS₂ Electrodes
- Carbon & Graphite linings, Bricks
- Graphite for heat exchanger Blocks
- Heat Exchanger Tubes
- Fluxing Tubes
- Acid Tank Linings
- Burner Caps
- Anodes
- Decomposition Graphite Grids
- Chemical Pump Casings
- Industrial Seals & Valve Seats

■ GRADES

- GMMR 50, GMMR
- GLM 50, GLM
- HP, RP ELECTRODES
- GMT (AX Treated / NOX)
- Flexible Graphite Sheets & Rolls



CERAMICS & REFRACTORIES

- PRODUCTS
 - Furnace Hearths & Linings
 - Electrodes, Carbon Rods
 - Crucibles
 - Muffle Furnace Linings
 - Inserts, Bolts, Nuts, Spacers
 - Fluxing Tubes
- GRADES
 - GMMR
 - GMMR 50
 - GLM
 - GLM 50
 - GMT



JEWELLERY

■ PRODUCTS

- Crucibles
- Tubes
- Stirrers
- Insulation Boards
- Heating Elements
- Precision Casting Crucibles



■ GRADES

- GMMR 50, GMMR
- GLM, GLM 50
- GLF HD



MECHANICAL



■ PRODUCTS

- Bearings, Piston Rings, Guide Rings
- Separating Slides, Carbon Vanes
- Stripping Components, Sliding Ring Seals
- Steam Seals, Water Turbine Rings
- Contactless Seals, Contact Seals
- Plywood Dryers Bearings
- Cast Housing Bearings

■ GRADES

- AMOR
- DXN
- XN
- DXT
- GLF HD, ELF HD
- GMMR, GMMR 50, GLM, GLM 50



GLASS, OPTICAL FIBRES



■ PRODUCTS

- Porous Carbon for Wet blowing Process
- Vacuum Lifters for Automatic Glass Production
- Graphite Insert for Take-Out System
- Graphite Components for Float Glass Process
- Graphite Rolls for Glassfiber Production
- Graphite Rods and Tubes for Quartz Production

■ GRADES

- GLM, GLMS
- GLF HD, ELF HD
- DXN, DXT
- AMOR 3238 G



ELECTRICAL & ELECTRONICS

- PRODUCTS
 - Brazing Jigs
 - Loading Plates
 - Boats, Heating Elements
 - Extension Electrodes
 - Infiltration Moulds
 - Connection Pins
- GRADES
 - GMMR, GMMR 50
 - GLM, GLM 50
 - XN
 - GLF HD
 - AMOR



AUTOMOTIVE

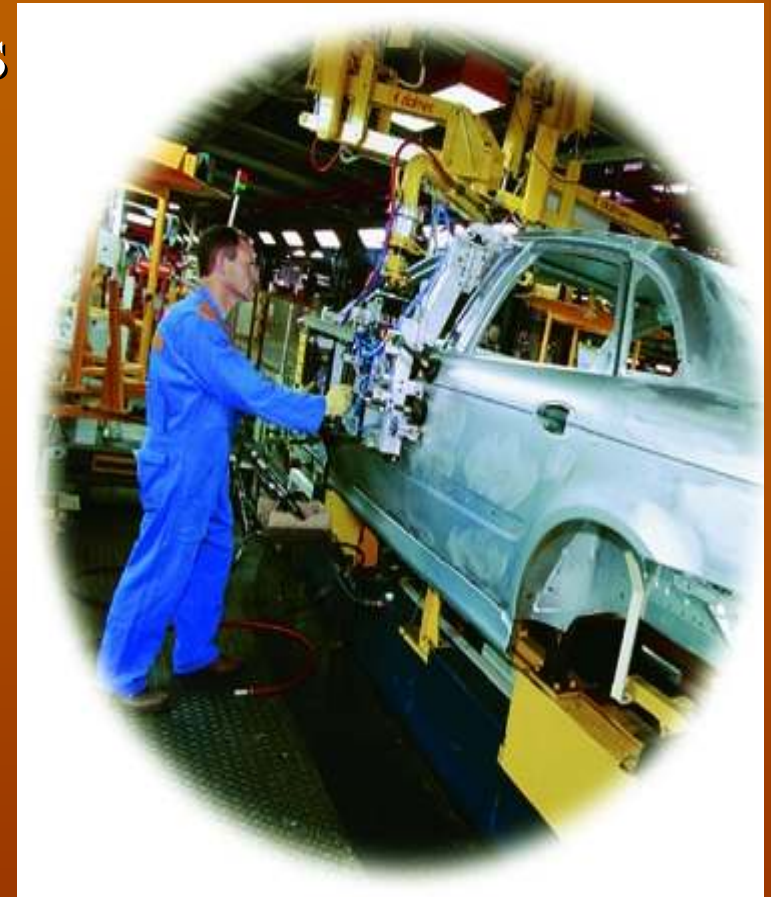


■ PRODUCTS

- Heaters & Heating Elements
- Support Blocks, Beams
- Plates, Sleeves, Nozzles
- Holders, Connectors
- Feeder Rods, Fluxing Tubes

■ GRADES

- GLM 50
- GLM
- GMMR 50





AERONAUTICS

- PRODUCTS
 - Vacuum Furnace Components
 - Brazing Discs
 - Cushion Blocks
 - Connectors
 - Brake Pads

- GRADES
 - GLM 50
 - GLM
 - GMMR 50
 - GMMR



DEFENCE & SPACE

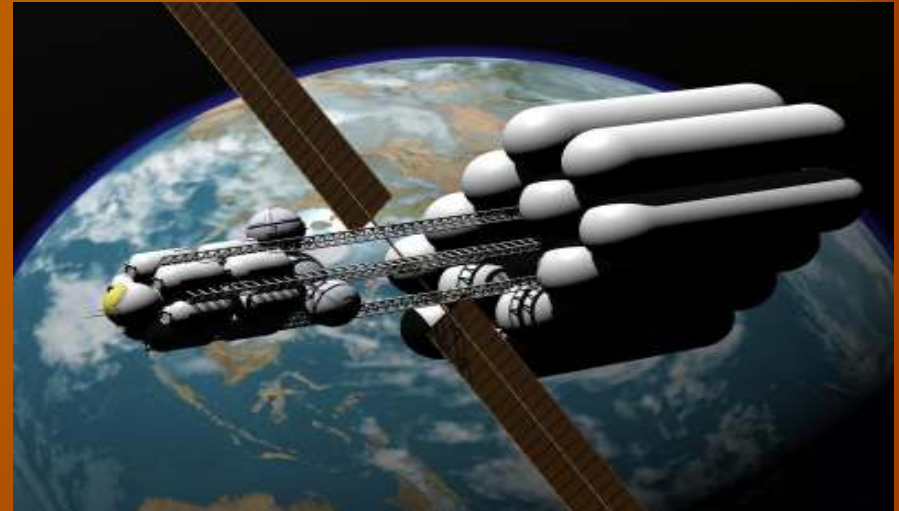


■ PRODUCTS

- Rocket Exhaust Nozzles
- Throats, Cones
- Rings, Domes
- Heavy Metal Crucibles
- Sodium Anodes
- Brazing Discs
- CVI Furnace Components
- Susceptors & Pipes

■ GRADES

- GLM, GLMS, GMMR, GMT
- XN, DXN
- GLF HD



CONTACT US



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