GGAG

G. G. Automotive Gears Ltd.

Company Background

- One of India's leading manufacturers of traction gears and pinions
- company on average per annum manufactures: 15000+ gears & pinions 100+ reduction gearboxes 1000+ MT of forgings
- The company has a dedicated plant with the latest technology that helps manufacture high-quality precisely engineered products
- Key products include application gears, industrial gearboxes, forged blanks/components
- GGAG is a publicly traded company listed on the BSE

Key Strengths

Our primary aim is to reduce cycle times as much as possible to deliver our products efficiently and in quicker time to markets

Technical Knowhow

large drawing database
engineering capabilities
efficient production & process controls
integrated management systems

Capability & Capacity

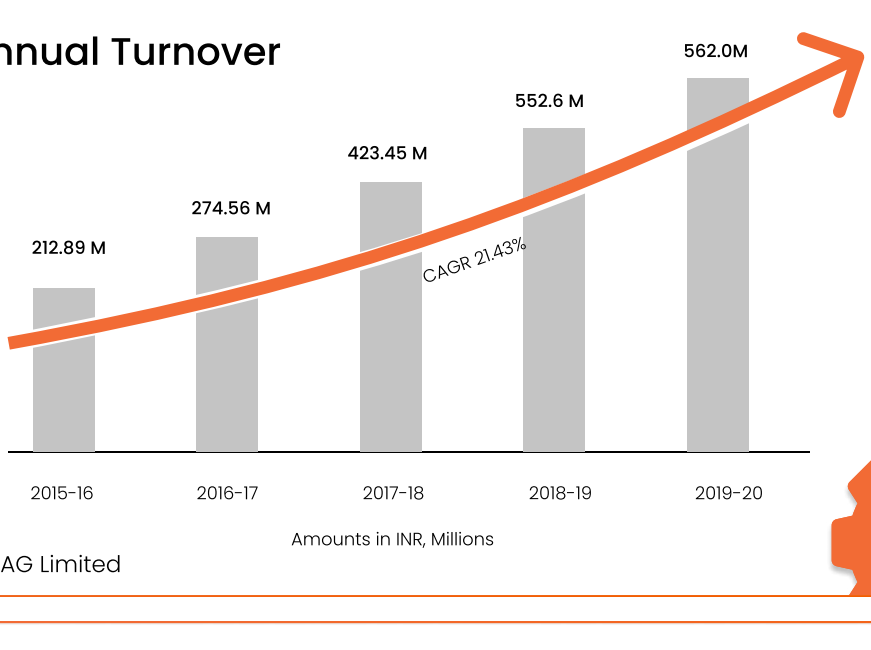
Produce up to
500 large gearwheels
1500 pinions & shafts
500 MT of forgings monthly

Excellence in Innovation

Innovative Tooling
Best Engineering & Design Softwares
Continuous R&D

Pursuing Growth

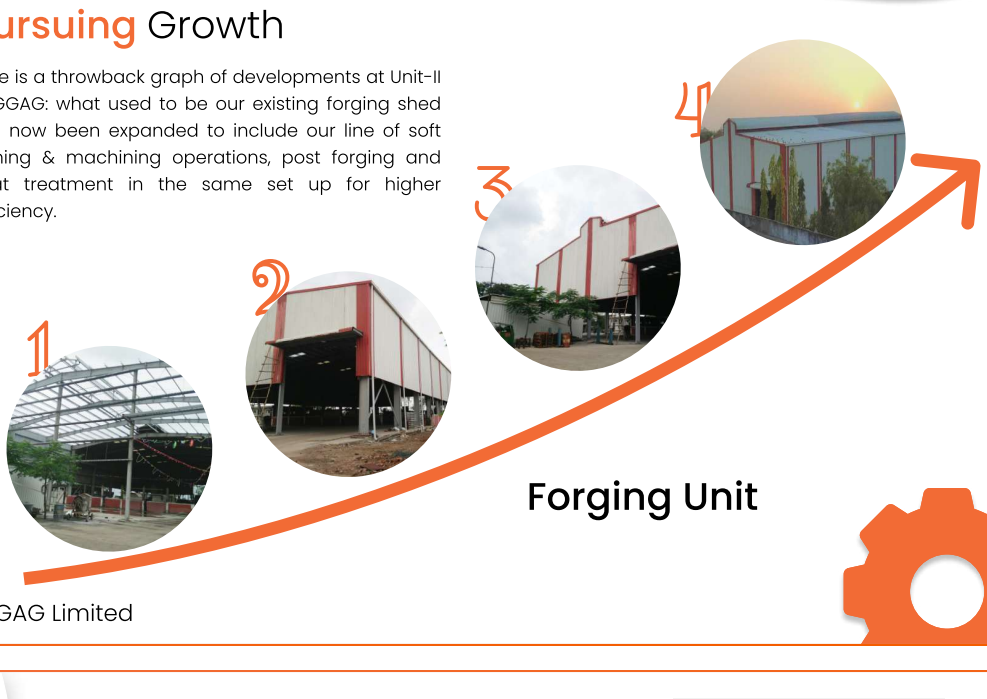
Annual Turnover



Amounts in INR, Millions

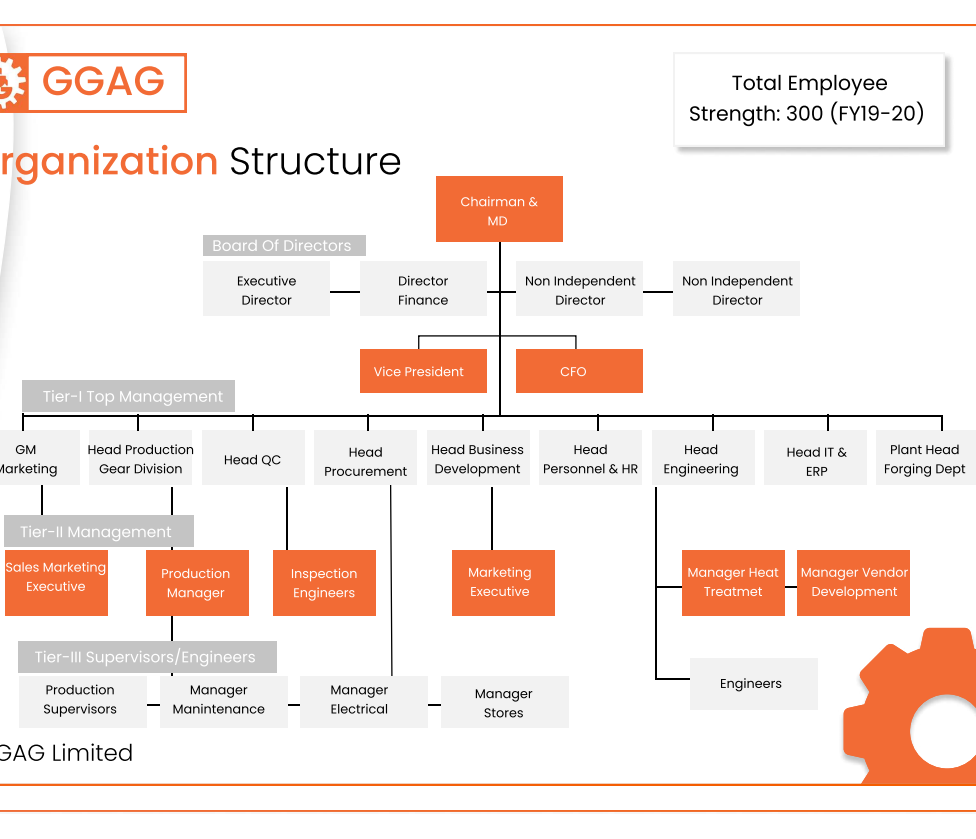
Pursuing Growth

Here is a throwback graph of developments at Unit-II in GGAG: what used to be our existing forging shed has now been expanded to include our line of soft turning & machining operations, post forging and heat treatment in the same set up for higher efficiency.



Organization Structure

Total Employee Strength: 300 (FY19-20)



Chairman & MD

Board Of Directors
Executive Director
Director Finance
Non Independent Director
Non Independent Director

Vice President
CFO

Tier-I Top Management
GM Marketing
Head Production Gear Division
Head QC
Head Procurement
Head Business Development
Head Personnel & HR
Head Engineering
Head IT & ERP
Plant Head Forging Dept

Tier-II Management
Sales Marketing Executive
Production Manager
Inspection Engineers
Marketing Executive
Manager Heat Treatment
Manager Vendor Development

Tier-III Supervisors/Engineers
Production Supervisors
Manager Maintenance
Manager Electrical
Manager Stores
Engineers

Introduction - Gear Division

- GGAG has been manufacturing gears since 40 years and prides itself in delivering precise, high quality and cost-effective products
- Capable of manufacturing spur and helical gears up to 1500 mm in diameter and 25 module, hardened & ground to DIN class 3/4 accuracy
- In-house facilities: Turning, Hobbing, Grinding, Heat-treatment – 30,000 sq. ft. facility to incorporate all operations under a single roof

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Infrastructure - Gear Division

- Gear Grinding: Hofler-make Rapid 800 ,Helix 400, Rapid 1250
- Hobbing/Teeth Cutting: Hofler-make HF 600, HF1250 & conventional machinery
- Turning: CNC VTLs, VTMCs, VMCs, CNC Lathes & conventional machinery
- Heat Treatment: Total of 6 pit-type furnaces, horizontal and vertical tempering furnaces, & muffle furnaces
- Gear Testing: State-of-the-art Klingelnberg P100 for inspection and quality control of components
- Bore/Face Grinding: WMW CNC Bore Grinders, cylindrical grinders
- Other Equipment: Radial Drilling machines, teeth chamfering machines, facing & centering machines, horizontal milling machines amongst others

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Heat Treatment

In-house heat treatment facility with furnaces capable of carrying out hardening, tempering and carburizing processes
Our furnaces are equipped to handle components up to 1200 mm in diameter and 1600 mm in length.

- 6 nos. pit-type furnaces
- Tempering Furnace
- Muffle Furnace
- Washing Machine Tank
- Oil Quenching Tank
- Normalising furnaces

Hobbing

- CNC Hobbing set up for components up to 35 Module and 1600 mm in diameter, with internal teeth cutting capability between 500-1000 mm
- Hofler/Klingelnberg HF600
- Klingelnberg HF 1250L

Hard - Finish Machining

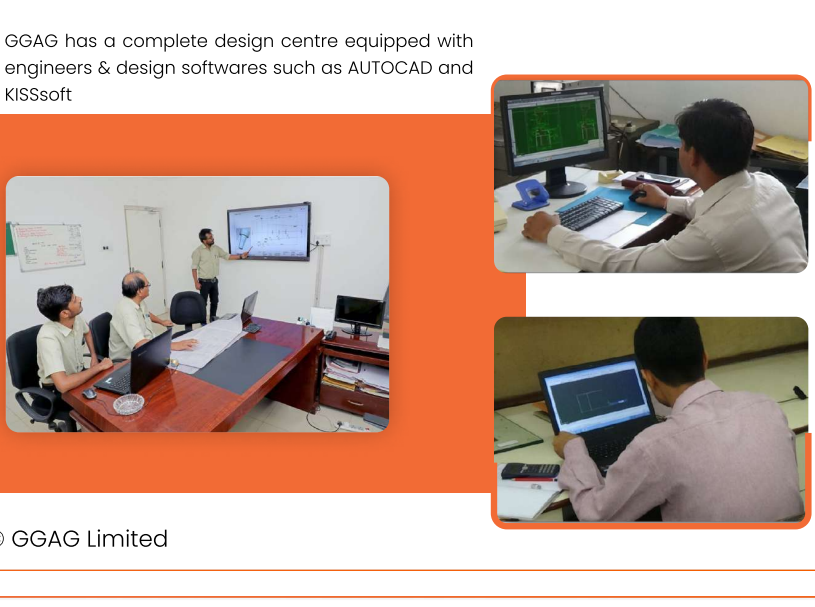
- CNC & conventional set up for hard finishing/post heat treatment operations such as bore grinding,face grinding and hard part turning for components up to 1200 mm in diameter
- CNC Bore & Face Grinders – for large gearwheels up to 1200 mm in diameter
- Cylindrical Grinders

Gear Grinding

- CNC Gear Grinding set up adequate for single ribbed profile grinding of teeth capable of grinding components up to 1500 mm in diameter and 1200 mm in length, 35 in module & DIN 4 in terms of quality class. Internal grinding available from 500-100 mm in diameter
- Hofler Rapid 800
- Hofler Helix 400
- Klingelnberg Rapid 1250K

Design Department

GGAG has a complete design centre equipped with engineers & design softwares such as AUTOCAD and KISSsoft



Product Basket

Railway Gears & Shafts

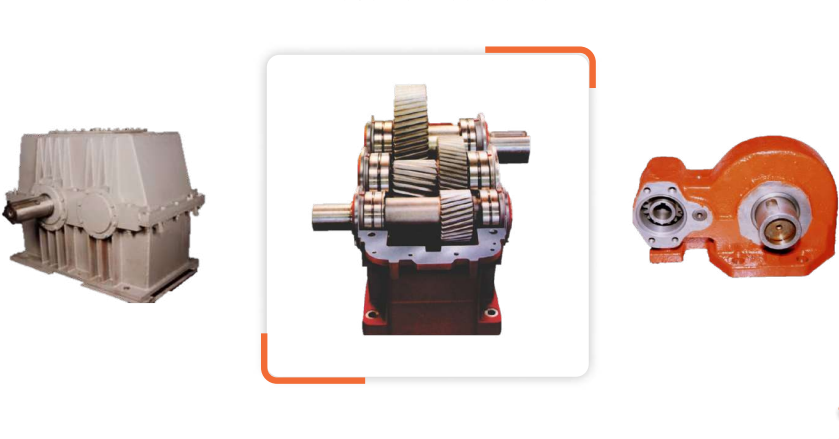
Forged Components & Machined Blanks

Industrial Gears & Gearboxes

Mining & Earth-moving Equipment Spares

Product Basket

Industrial Gearboxes



Product Basket

Industrial Loose Gears

Parameter	Value
Outside Diameter(OD)	Up to 1500mm
Face Width	1000mm
Quality Class	Accuracy Din 4
Module	35

Product Basket

Forged Components & Machined Blanks

Parameter	Value
Weight	10-100kg
Diameter	375mm
shafts Length:	700mm & Diameter: 120mm
Profile Job	Up to 25kg

Product Basket

Railway Gears & Shafts

Parameter	Value
Outside Diameter(OD)	Up to 1500mm
Face Width	1000mm
Quality Class	Accuracy Din 4
Module	35

Product Basket

Railway Gears & Shafts

Parameter	Value
Outside Diameter(OD)	Up to 1500mm
Face Width	1000mm
Quality Class	Accuracy Din 4
Module	35

Product Basket

Railway Gears & Shafts

Parameter	Value
Outside Diameter(OD)	Up to 1500mm
Face Width	1000mm
Quality Class	Accuracy Din 4
Module	35

Product Basket

Mining & Earth-moving Equipment Spares

Parameter	Value
Outside Diameter(OD)	Up to 1500mm
Quality Class	Accuracy Din 4
Module	35

Applications

Railway

Oil & Gas

Automobile

Wind

Mining

Steel & Cement

Introduction - Forging Division

- A new integrated unit with latest technologies in forgings and subsequent finishing product
- Currently under the process of gaining an ISO :TS16949 certification from TUV
- Modernized lab has been established

Forging - Capability

Plant

- Closed die forgings from 10 to 100 kg in finished weight
- 3 Ton MPM Hammer
- 500 Ton Trimming Press
- 750 KW Induction Heater
- Fully Equipped Metallurgical Laboratory

Specifications

- Distinctive Edge Through Backward Integration
- Increased Efficiency
- Reduced Lead Times
- Increased Control on Quality

Facilities - Forging Division

- Incorporates an excellent design and development center to quality inspector and testing facilities
- Installed capacity of 500 tons per month
- We are capable in rolling out parts weighing up to 100 kg out of 34 primary forging equipment pieces which it has in its fold
- Team of highly trained, qualified and experienced engineers are dedicated in continually meeting quality standards

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Infrastructure - Forging Division

- 3 Tonne MPM Hammer
- A 100 Tonne Friction Screw Press
- A 750KW Induction Billet Heater
- A 500 tonne Power Press
- 10000 sq ft of newly constructed unit

Quality Control

GGAG prides itself in having an "engineering school of thought" that delivers products of the highest quality, resulting in extremely low rejection rates. Our state-of-the-art Klingelnberg P100 precision measuring center ensures fast and accurate measurement acquisition through a high-precision workpiece turntable.

Our metallurgical laboratory fully equipped with metallurgical microscopes, Jomminy test apparatus, universal testing machining centers, micro-hardness testers, and pyrometers ensure the highest quality standards.

GGAG is an **ISO 45001: 2018**, **ISO 9001: 2015** and **ISO 14001: 2015** certified company. We adhere to global standard processes through our integrated management systems.

Customers - Railways

Diesel Loco Modernisation Works
North Central Railway
CLW Chittaranjan Locomotive Works
West Central Railway
BHEL Bharat Heavy Electricals Ltd.
Northern Railway
East Central Railway
Northeast Frontier Railway 1958
Eastern Railway
Western Railway
North Western Railway
Diesel Locomotive Works
South Central Railway
South East Central Railway

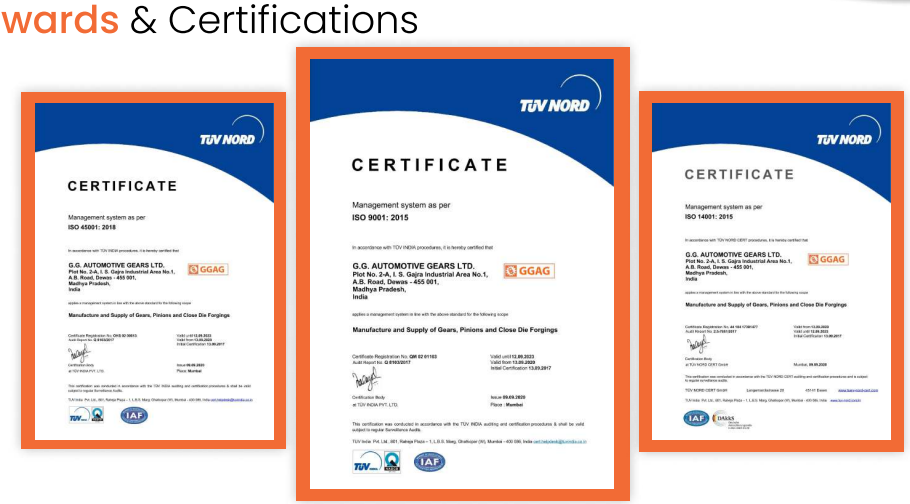
Customers - Exports

Gardner Denver
EM
ALCO GE EMD
Penn Machine
ALSTOM

Customers - Domestic

Placebo
Khaitan Chemicals and Fertilizers Group
NTPC National Thermal Power Corpn. Ltd.
Paharpur
Chambal Fertilisers and Chemicals Limited
BRP Bongaigaon Refinery & Petrochemicals Limited
Ruchi Soya Industries Ltd.
Magadh
Fluidomat
Daulat Ram Engineering
Tata Steel
Shah Alloys Ltd.
SCPL Shanker Coils Private Limited
Reliance Industries Limited

Awards & Certifications



TUV NORD
CERTIFICATE

GGAG is an ISO 45001: 2018, ISO 9001: 2015 and ISO 14001: 2015 certified company

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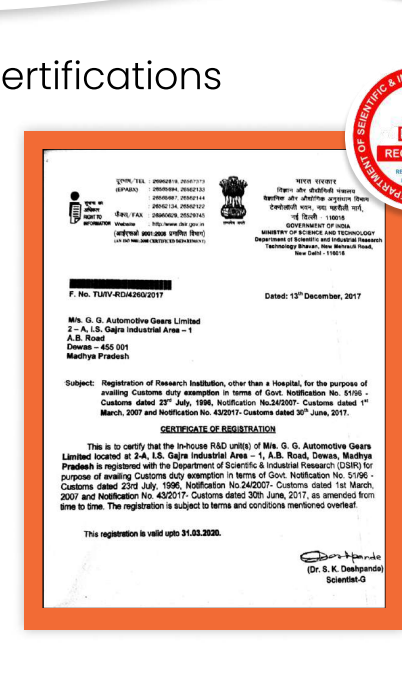
Awards & Certifications



DSIR RECOGNIZED

[redacted]

Dated: 13th December, 2017

M/s. G. G. Automotive Gears Limited
2-A, I.S. Gajra Industrial Area – 1
A.B. Road
Dewas – 455 001
Madhya Pradesh.

Subject: Registration of Research Institution, other than a Hospital, for the purpose of availing Customs duty exemption in terms of Govt. Notification No. 51/96-Customs dated 23rd July, 1996, Notification No.24/2007- Customs dated 1st March, 2007 and Notification No. 43/2017- Customs dated 30th June, 2017.

CERTIFICATE OF REGISTRATION

This is to certify that the in-house R&D unit(s) of M/s. G. G. Automotive Gears Limited located at 2-A, I.S. Gajra Industrial Area – 1, A.B. Road, Dewas, Madhya Pradesh is registered with the Department of Scientific & Industrial Research (DSIR) for purpose of availing Customs duty exemption in terms of Govt. Notification No. 51/96- Customs dated 23rd July, 1996, Notification No.24/2007- Customs dated 1st March, 2007 and Notification No. 43/2017- Customs dated 30th June, 2017, as amended from time to time. The registration is subject to terms and conditions mentioned overleaf.

This registration is valid upto 31.03.2020.

(Dr. S. K. Deshpande)
Scientist-G

Awards & Certifications

RAIL & METRO
AWARDS
2020
WINNER
By Rail Analysis

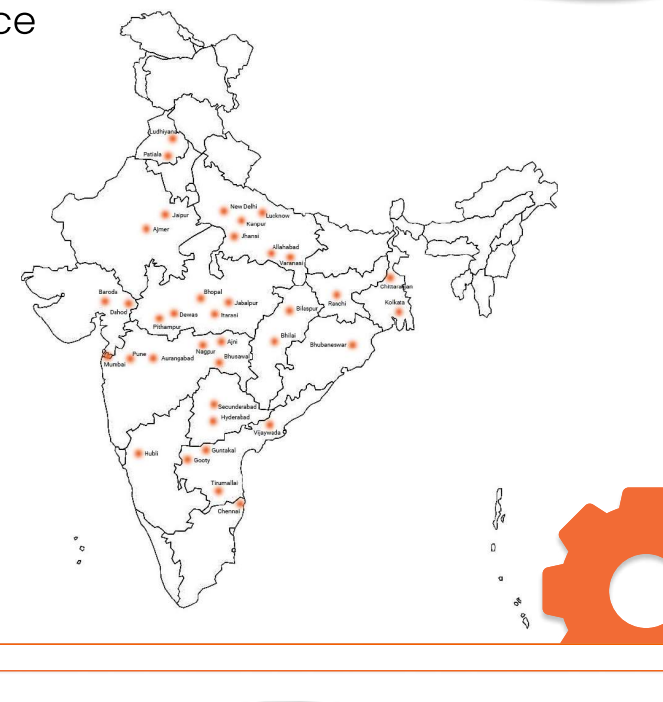
Awarded by **Rail Analysis India**

Winner of '**Rail Analysis SME of the Year**' - 2020

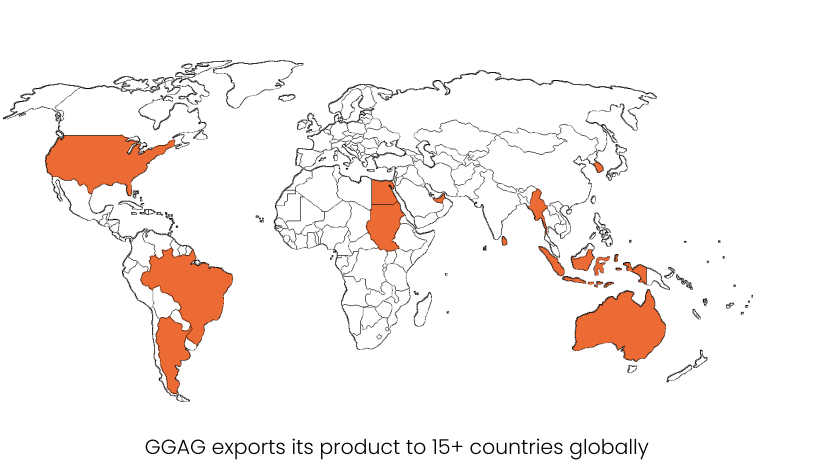
honouring GG Automotive with **Rail Analysis SME of the year** 2020

Domestic Presence

Our domestic presence is also strengthened by a number of large industrial giants such as Tata Steel, L&T, Paharpur Cooling Towers, amongst many others.



Global Presence



GGAG exports its product to 15+ countries globally

Expos & Exhibitions

International Rail Equipment Exhibition, 2019

International Rail Equipment Exhibition, 2019
Venue: Aerocity, Delhi

Discussion about trends in the market, broadening our horizons & make continuous improvements to deliver a better product

Meeting and networking with Indian Railways delegates/officials, potential customers and suppliers

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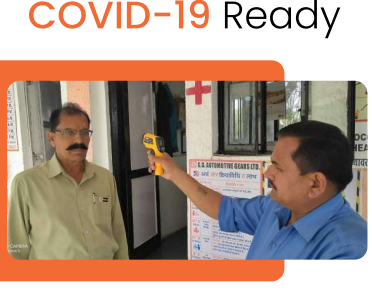
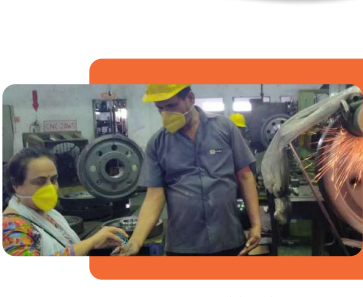
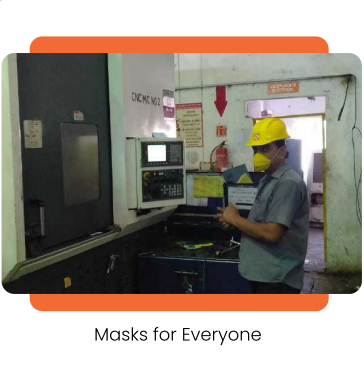
COVID-19 Ready



Thermal Screening



Hand Sanitization



Masks for Everyone

Contact Us

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