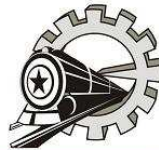




# G.G.Tronics India Private Limited

---

## An Insight



**G.G.Tronics**

VISUALISING SAFETY SYSTEMS

ISO 9001:2000 – DNV CERTIFIED



# about us

---



**G.G.Tronics**  
VISUALISING SAFETY SYSTEMS  
ISO 9001:2000 – DNV CERTIFIED

- Established in 1991
- ISO 9001-2000 –DNV Certified
- Employee strength of 75 + with 25 professionals in R&D
- Specialization in Safety Embedded System Technology
- Providing unique solutions in Safety Application Domain
- **At G.G.Tronics meeting challenges is a way of life**

## **Vision :**

- To be a leading solution provider with Design, Development, Manufacture, Testing and Commissioning in Railway Transport and Industrial Automation sectors

## **Mission :**

- Committed to satisfy expectations of our customers and employees with a focus on continuous improvement

## **Our People :**

- Dedicated qualified and experienced professionals with inherent competency in the state of the art technologies in safety critical areas.



# our strength

---



**G.G.Trionics**

VISUALISING SAFETY SYSTEMS  
ISO 9001:2000 – DNV CERTIFIED

- In-House Embedded System R&D
- Safety System design capability
- Product Engineering with PCB and mechanical design CAD facility
- Hardware and Software safety validation
- System Hazard Analysis
- Reliability Analysis
- Incoming and Outgoing Quality Assurance
- In-House Environmental Stress Screening
- Antistatic protected SMD and Leaded components production line
- Panel building and staging
- In-House sheet metal fabrication



**G.G.Trronics**

VISUALISING SAFETY SYSTEMS  
ISO 9001:2000 – DNV CERTIFIED

# research and development

- 25 qualified and dedicated engineers with specialization in embedded hardware and software have brought out sophisticated Solid State Signalling Systems, Timers, Flashers which meet relevant customer requirements and specifications.



# production facilities

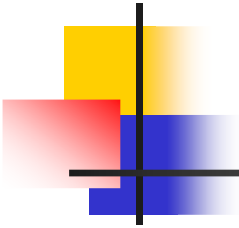


**G.G.Trronics**

VISUALISING SAFETY SYSTEMS  
ISO 9001:2000 – DNV CERTIFIED

## PCB baking and assembly of leaded components



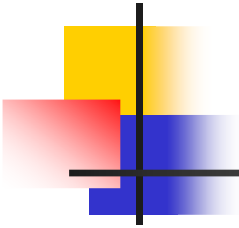


**G.G.Tronics**

VISUALISING SAFETY SYSTEMS  
ISO 9001:2000 – DNV CERTIFIED

## Wave soldering and Flow Soldering



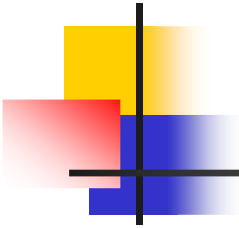


**G.G.Trionics**

VISUALISING SAFETY SYSTEMS  
ISO 9001:2000 – DNV CERTIFIED

## Automated SMD Assembly





**G.G.Tronics**

VISUALISING SAFETY SYSTEMS  
ISO 9001:2000 – DNV CERTIFIED

## Reflow soldering for SMD devices





**G.G.Tronics**

VISUALISING SAFETY SYSTEMS  
ISO 9001:2000 – DNV CERTIFIED

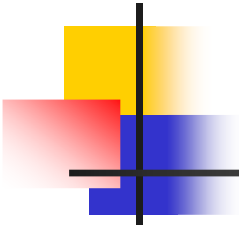
# inspection and testing

Inward goods Inspection



Assembled PCB inspection



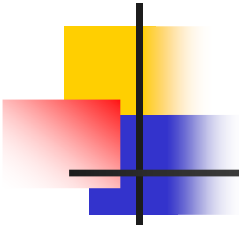


**G.G.Trionics**

VISUALISING SAFETY SYSTEMS  
ISO 9001:2000 – DNV CERTIFIED

## PCB module testing



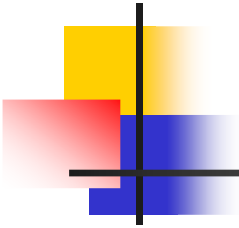


**G.G.Tronics**

VISUALISING SAFETY SYSTEMS  
ISO 9001:2000 – DNV CERTIFIED

## Automated product testing



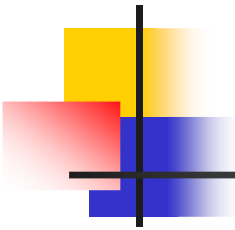


**G.G.Tronics**

VISUALISING SAFETY SYSTEMS  
ISO 9001:2000 – DNV CERTIFIED

## Mechanical fabrication shop





# climatic chamber



**G.G.Tronics**

VISUALISING SAFETY SYSTEMS  
ISO 9001:2000 – DNV CERTIFIED

Environmental tests conducted in-house to meet the customer specification





# quality management

---

## **The quality policy of the company :**

*“To provide value added products and services to the automation and transport control sectors by continuously upgrading technology quality and reliability”*

- **Total commitment by management for Quality Assurance right from Design, Development, Production, Supply, Installation and Commissioning**
- **Products meet environmental specifications laid by customers**



# product range

---

## **Railway Signaling Sector**

- Train Actuated Warning Device
- Digital Axle Counter  
Cenelec SIL4 complied
- Fail Safe Timer
- Fail Safe Flasher
- DC / DC Converters for  
Universal Axle Counters
- Microprocessor based Products  
and Systems

## **Industrial Automation Sector**

- Analog and Digital I/O Modules
- Opto Isolators Modules
- Panels for Automation Control Rooms
- Analog and Digital Multipliers
- Relay Modules
- Rugged Power Converters
- Linear, SMPS and Ferro Resonant  
Power Supplies upto 1500 watts
- DCS & PLC Panels
- Flame Analyser IR & UV



**G.G.Tronics**

VISUALISING SAFETY SYSTEMS  
ISO 9001:2000 – DNV CERTIFIED

## new projects on the anvil

- Design and development of 3DP-3S Axle Counter for IBS
- Solid State Block Proving by Axle Counter (SSBPAC)
- **RFID based products for :**
  - Automation of Wagon Tracking for Indian Railways
- Solid State Block Proving by Axle Counter 2of3 system
- Portable Data Logger for Axle Counters
- Goods Train tracking and printing system using Axle Counters for clinker loading area
- Multi section Digital Axle Counters
- Modbus Interface for Flame Analyser
- Automatic braking system for engine locomotive using airflow analysis



# achievements

---

- Successfully developed Single Section Digital Axle Counter(SSDAC-G36) as per CENELEC SIL-4 standards
- Successfully developed Train Actuated Warning Device (TAWD) for LC Gate as per CENELEC SIL-4 standards
- Manufacture and assimilation of technology for AFTC – DTC24, DTC921 and SDTC –DMRC, ALSTOM
- Manufacture and assimilation of technology for SSI – Westrace and S2, Westinghouse, Australia
- Development and Manufacture of Flame Analyser as per CENELEC SIL-3, Durag GmbH Germany.



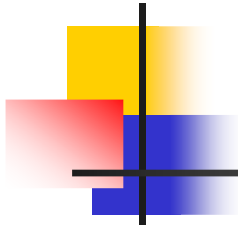
**G.G.Trionics**

VISUALISING SAFETY SYSTEMS  
ISO 9001:2000 – DNV CERTIFIED

# clientele

---

- Asea Brown Broveri Limited(ABB Bangalore)
- Asea Brown Boveri Limited, Sweden
- Alstom Projects India Limited, Coimbatore
- Westinghouse Australia
- Durag GmbH Germany
- McML System Bangalore
- Indian Railways - all zones
- Indian oil corporation limited, Mathura
- Indian oil corporation limited, Panipat
- ACC Cement, Khympore
- Reliance Industries Limited-Refineries Division, Hazira
- Bharat Electronics Limited(BEL)
- General Electrics(GE),Bangalore
- Honeywell, Bangalore

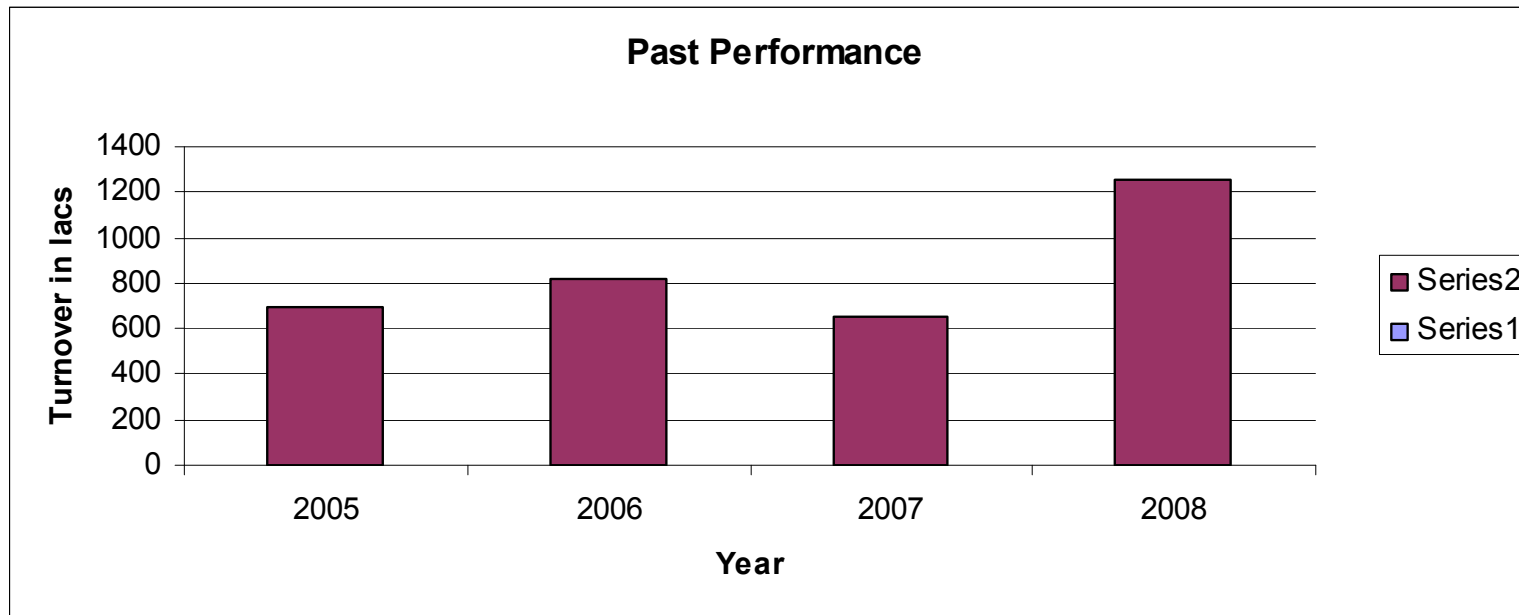


# track record of business



**G.G.Tronics**

VISUALISING SAFETY SYSTEMS  
ISO 9001:2000 – DNV CERTIFIED

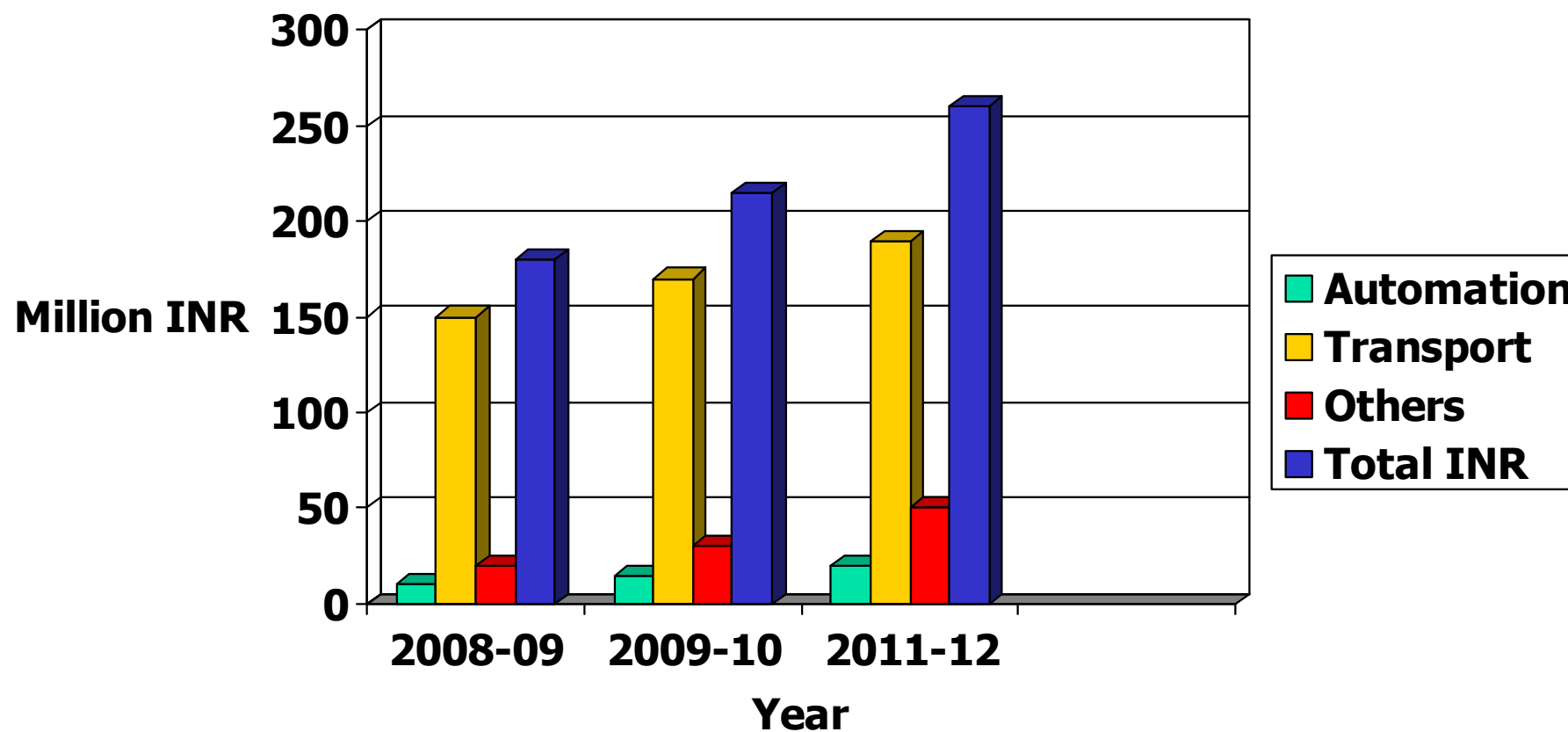


# future projections



**G.G.Tronics**

VISUALISING SAFETY SYSTEMS  
ISO 9001:2000 – DNV CERTIFIED





contact us at



**G.G.Tronics**  
VISUALISING SAFETY SYSTEMS  
ISO 9001:2000 – DNV CERTIFIED

## **G.G.Tronics India Private Limited**

SB168, 3<sup>rd</sup> Cross, Peenya 1<sup>st</sup> Stage,  
Peenya Industrial Estate,  
Bangalore - 560 058  
INDIA

Phone : 91-80-28372449/50/51

Fax : 91-80-28372387

Email : [info@ggtronics.com](mailto:info@ggtronics.com)

URL : [www.ggtronics.com](http://www.ggtronics.com)