

# chemical & pharmaceutical fertilizer industries



**Standard Glass**  
Customer Inspired Excellence

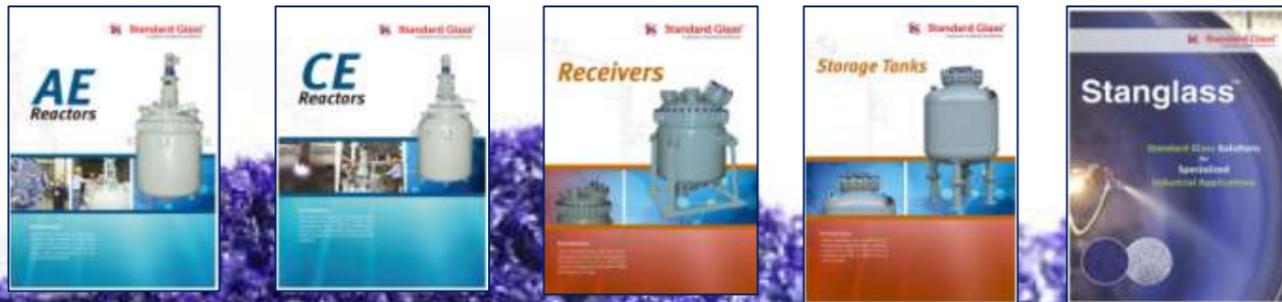
- Reactors & Agitators
- Mixing Technology
- Storage Tanks
- Receivers
- Distillation Columns
- Flanges
- Condensers
- Conical Dryers
- Nutsche Filters
- Pipe-work & fittings
- Valves
- Process Pumps
- Chemical Vessels
- Evaporators
- Blenders
- Impellers

*"a new era in glass-lined  
equipment supply"*



**company overview**

*customer inspired excellence*



**Standard Glass Lining Technology Pvt. Ltd.**

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 Customer  
inspired  
excellence



The Quality, Delivery and Service performance at Standard Glass Lining Technology Pvt. Ltd., is anything but "Industry Standard".

We pride ourselves on business excellence and continuous improvement underlined by exceptional customer focus.

Every procedure we create, every test we conduct and every system we develop is done with the sole purpose to provide exceptional customer service.



welcome

Standard Glass Lining Technology Pvt. Ltd. is headquartered in Hyderabad, Andhra Pradesh and one of only a handful of companies in the world who specialise in the manufacture and supply of glass-lined equipment.

Ideally positioned to serve the growing Chemical and Pharmaceutical markets in Southern India, the company operates from two ISO9001 manufacturing facilities which have the capability to manufacture 50-55 vessels per month ranging from 63 litres to 16,000 litres

The team at SGL have over two decades of industrial experience manufacturing and supplying glass-lined products to suit all types of applications and international standards.

We employ the 3D CAD and precision CNC manufacturing technology together with highly skilled assembly and testing workforce to offer a complete turnkey supply solution for all your glass-lining requirements.

Mr. Nageshwar Rao – C.E.O.



The use of glass-lined steel equipment is essential in order to maximise productivity and minimise costs in the production of quality products to exacting standards in difficult service conditions.

SGL's glass-lined steel reactors, receivers, storage tanks and ancillary products are ideal for processing fine chemical and pharmaceutical products such as dyes, synthetic resins and pigments.

Our glass-lined steel technology provides excellent resistance against chemical and abrasive attack with the ability to accommodate mechanical and shock loading across a wide media temperature and concentration range.





Glass lined equipment is manufactured in-house to exacting international quality standards including ISO 9001:2008, DIN EN ISO 28-721 and ASME VIII.

In addition to the rigorous inspection regimes conducted throughout the manufacturing process, prior to dispatch SGL perform a full equipment pressure test and, where required, a dynamic customer witness test.

SLG also conduct a high voltage spark test in accordance with ISO 2746:1998 to ensure products of only the highest quality leave our premises.



Material traceability is mandatory for international pressure vessel manufacturing therefore SGL only purchase material from reputable and reliable sources.

Material documentation and heat/cast number transfer instructions are recorded in the company's business system against the job. These instructions are printed on the manufacturing method sheet and form part of the "Job-Traveller"; a full document pack which accompanies the product throughout the manufacturing process.



## glass-lined equipment manufacturing

## quality processes

The SGL glass-lining technology and processes has been developed in conjunction with the Central Glass and Ceramic Research Institute (CGCRI) in Kolkata, India.

Our coded welders, certified to the latest ASME standards, create the base fabrication which is then expertly finished to ensure no surface imperfections.

After the fabrication and machining, all welds are subjected to Non-Destructive Testing (NDT) in accordance with latest ASME and international pressure vessel standards, to ensure joint integrity.

The product is then normalised and shot-blasted to ensure all the surfaces are clean and have the optimum surface finish for mechanical adherence of the glass coating.

After applying the glass coating, SGL's automated CNC furnace affects fusion between glass particles to cure the coating evenly to precise quality standards.

Throughout the glass coating process SGL check coating thickness, spark testing and visual inspection.





In addition to providing customised solutions, SGL has a range of modular glass-lined equipment designs which conform to international specifications including;

- ASME, Section VIII for Pressure Standards
- DIN 28-136 for main vessel dimensions
- DIN 28-137 for Drive mounting details
- DIN 28-139 for Nozzle details
- DIN 28-146 for Baffle details.
- DIN 28-147 for Thermo pocket details.
- DIN 28-150 for Split flange details.
- DIN 28-157 for Impeller agitator details.
- DIN 28-158 for Anchor agitator details.



## safety first

The correct selection of glass-lining technology for the desired application is of the utmost importance.

Fluid concentration and operating temperature can have an adverse effect on equipment longevity and integrity.

SGL has developed leading chemical selection software which documents the chemical resistance properties of glass-lining across hundreds of commonly encountered fluids, temperatures and concentrations.

This innovative software is supported by test, case reference and theoretical data and helps to ensure SGL can offer the best advice to clients with integrity and confidence.

 SGL glass-lining is available in blue, white or pharma-light blue colours to suit application requirements.

SGL glass-lined vessels, pipe-work and accessories offer benefits such as;

- Excellent chemical resistance of glass against acid, alkalis and basic / neutral organics.
- The very smooth surface finish of glass-lining (Ra 0.05) and the sweeping design contours facilitates rigorous equipment and system cleaning.
- The hardness of the glass surface (600 Vickers) provides good abrasive resistance.
- The non-permeable glass-lining is ideal for multi-purpose plants who periodically change batch types.
- Good resistance to mechanical and thermal shock loading.
- No effect on the flavour, colour or purity of stored/processed products.

SGL glass-lined technology also offers increased operating performance (pressure and temperature) compared plastic-lined alternates.

## a new era in glass-lined technology



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