



Established 2019



INNOVATIVE | DISRUPTIVE | CUSTOMIZED
TECHNOLOGIES WITH **DANISH** DESIGN & **INDIAN** ENGINEERING

COMPANY PRESENTATION

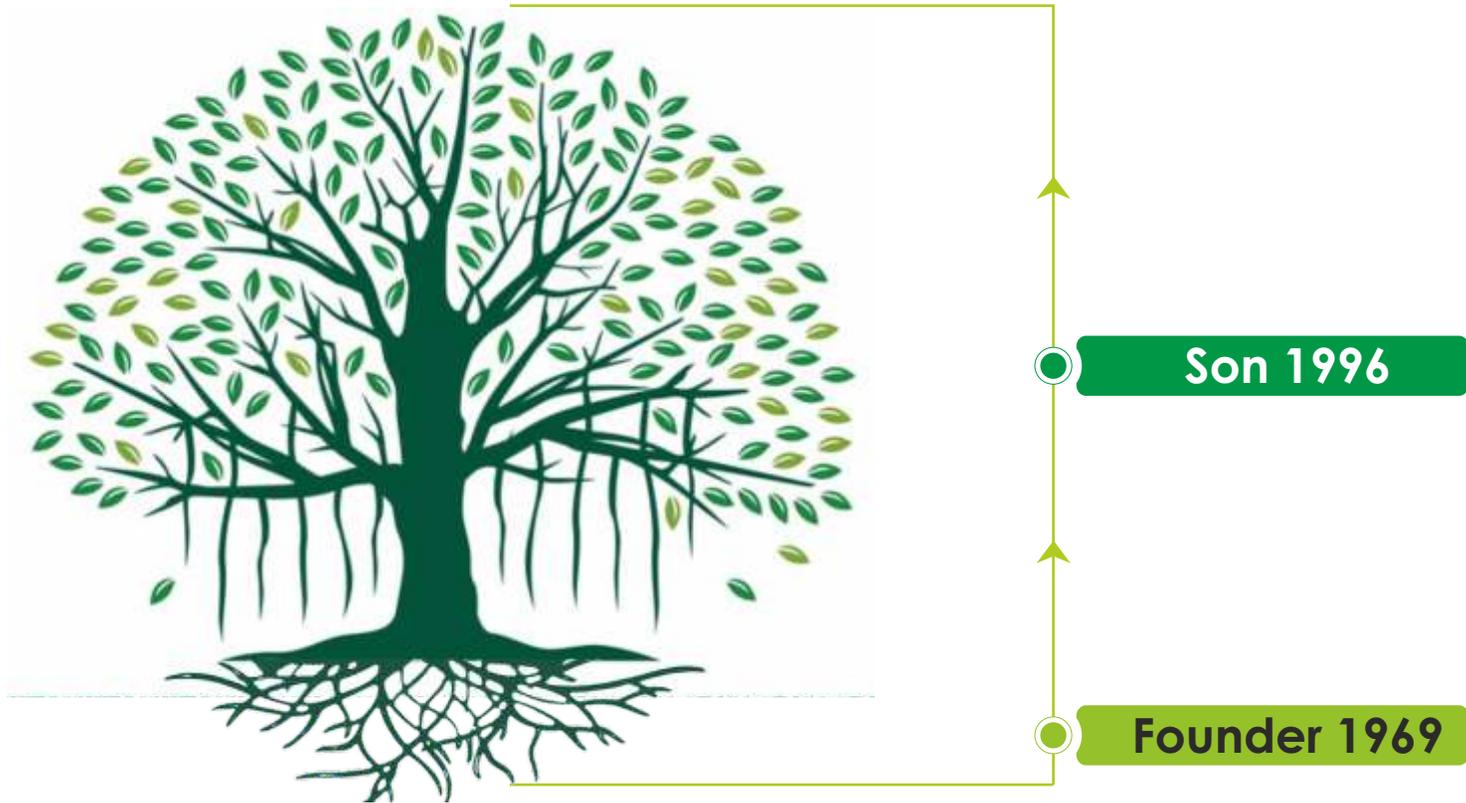


Glassco Laboratory Equipments Pvt. LTD.

OUTLINE

Glassco's History	2 - 4
Glassco – A One Stop Shop Glass & Instruments	5-7
Infrastructure	8
Fabrication & Production Plant	9 - 11
Calibration & Certificates	12 - 15
Quality Policy	16- 20
Innovation	21-26
Our Vision	27
Customers & Distributors	29-30
Awards, Recognition & Achievements	31

FAMILY TREE

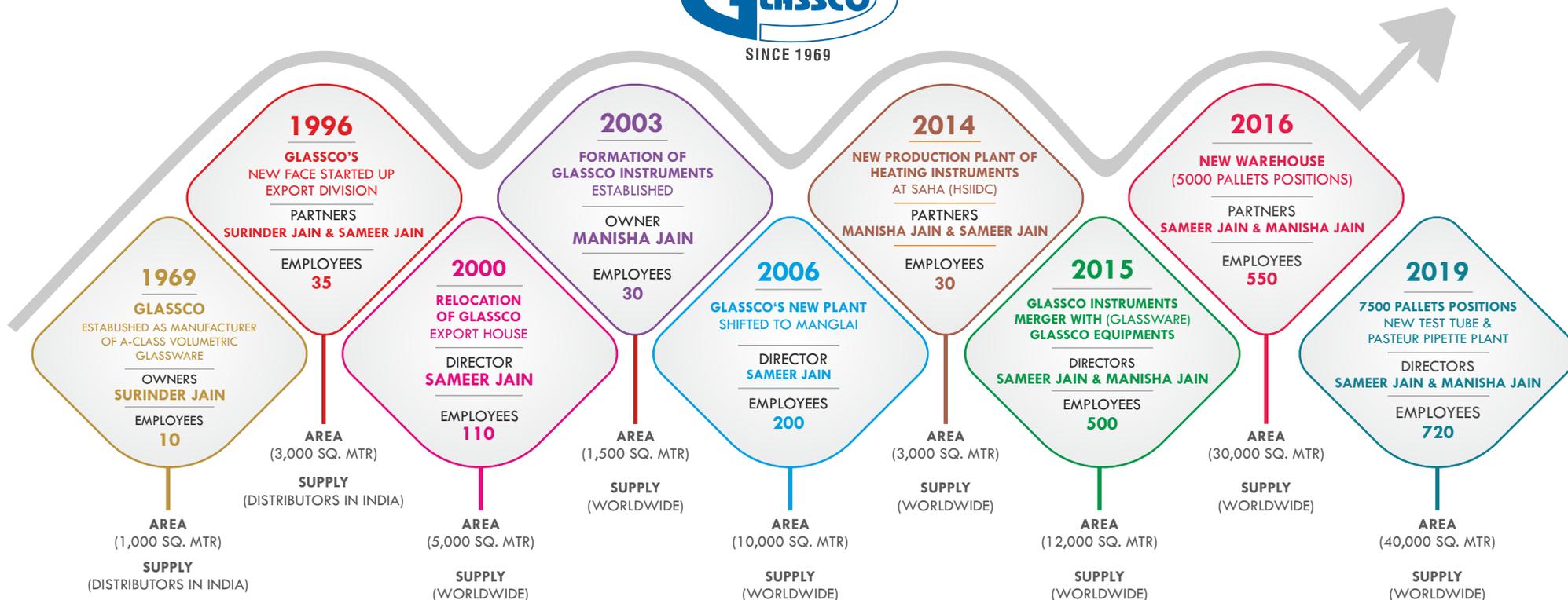


Glassco bears its roots very deep like the Banyan tree.

The company is an outcome of a man who had a vision in 1969 to be one of the pioneers in the manufacturing of Volumetric Glassware.

Being the Founder of the company, his son followed the legacy and achieved greater heights and fame, not only in India but worldwide. Glassco has won many AWARDS since its inception and has been one of the best Glassware manufacturers & exporters of Scientific Glassware from India.

GLASSCO OVERVIEW



2019
New Lab. Instrument Co.
DAN
— LOGITECH —
PVT. LTD.



COOPERATION

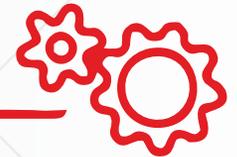


STAR PERFORMER
Leading manufacturing company
in the field of scientific glassware



**Danish
Design**

Known for simplicity
& unique adaptations



INDIAN ENGINEERING
Affordable Technology & Software



MANPOWER
More than 700 Employees



IDEAS
which provoke competitors
to think a step ahead



WORLDWIDE PRESENCE
in over 83 Countries

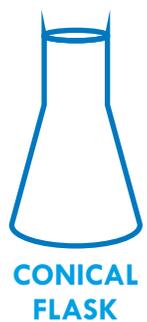
GLASSCO - A ONE STOP SHOP

Glassco is the biggest exporter of Scientific lab products, shipping more than 600 containers , supplying to more than 75 countries every year and deals in 3300 different products. We mainly manufacture Interchangeable, Volumetric, Filtration and General Lab-Glassware in **ASTM, DIN, ISO, USP** and **NABL standards** & Lab Instruments

All Glassco heating Instruments like **Stirrers, Shakers, Hotplates, Incubators, Bench Top Instruments** and **Heating Mantles** complement Lab Glassware and are manufactured in-house and are also **UL, CSA & CE Certified**.

Along with glassware there are other lab products commonly used like Plastic, Rubber, Metal, Ceramic, liquid handling products added to our General Catalogue conforming to standards like **CE, FDA, PAKKS...** etc.





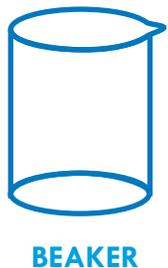
5 POSITION MAGNETIC STIRRER WITH HEATING (ANALOGUE)



5 POSITION MAGNETIC STIRRER WITH HEATING (DIGITAL)



15 POSITION MAGNETIC STIRRER WITH HEATING (DIGITAL)



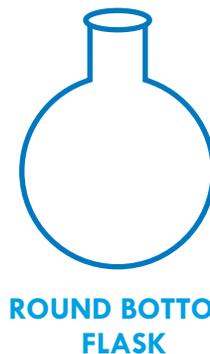
GLASS CERAMIC TOP MAGNETIC STIRRER WITH HOTPLATE



ALUMINIUM ALLOY CERAMIC TOP MAGNETIC STIRRER WITH HOTPLATE



3 POSITION MAGNETIC STIRRER WITH HOTPLATE



HEATING MANTLE



HEATING MANTLE WITH STIRRER



ROLLER MIXER



VORTEX SHAKER

SINGLE SOXHLET EXTRACTION WITH STIRRER



HEATING MANTLE COMBINED UNIT WITH STIRRER 3 POSITION



HEATING MANTLE COMBINED UNIT WITH STIRRER 6 POSITION



OVERHEAD STIRRER

CAPACITY :
10-20 Ltr.
& 40-60 Ltr.



ORBITAL SHAKER



SOXHLET APPRATUS



PETRI DISH



OUR UPCOMING PRODUCTS

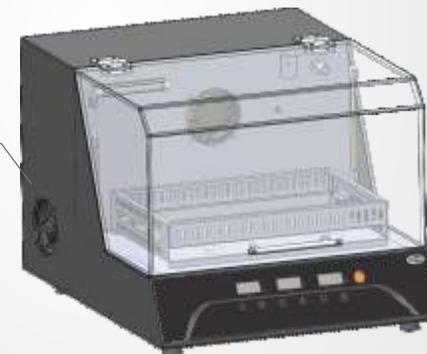
FAT DETERMINATION APPARATUS



FLAT MINI STIRRER



INCUBATOR SHAKER



HEATING MANTLE DIGITAL With Touch Keypad





INFRASTRUCTURE



ERP System (SAP Business-1) :Highly sophisticated ERP based software which helps in running all operations of GLASSCO.



Shipping : **04 containers** per day at single point of time.



Total no. of Employees : **720 nos.**



Skilled glass blowers : **100 nos.**



CNC Machine Operators : **20 nos.**



Engineers : **15 nos.**

Area

: **40000 Sq. mtr.** in total.



Storage

: **7500 pallets**

Production Capacity (Pcs Per Shift)



Volumetric Glassware : **10000**



Interchangeable Glassware : **6000**



Filtration Glassware : **2000**



General Glassware : **12000**



Disposable Glassware : **750000**

FABRICATION

RAW MATERIAL TUBING

Glassco makes all its products from tubing of ASTM E- 438 TYPE I, CLASS A BORO 3.3 GLASS. Glassco imports 450 MT of glass tubes per annum. Glassco normally keeps a stock for 4 months at any point of time which amounts to more than 80 tonnes of glass tubing.



AUTOMATIC PRODUCTION LINE

Glassco keeps updating all machineries according to latest technology available and also does in - house innovations.



**AUTOMATIC CYLINDER FORMING MACHINE :
1200 pcs per shift**



**AUTOMATIC JOINT FORMING MACHINE :
2000 pcs per shift**



**AUTOMATIC FLASK FORMING MACHINE :
800 pcs per shift**



**TEST TUBE MACHINE : 50000 pcs per shift
Pasteur Pipettes MACHINE : 15000 pcs per shift**

Since 2006, there has been a continuous addition of new automatic machines which has made the product's quality even better and increased the productivity of GLASSCO.



CNC MACHINE : For special custom made products.



FURNACE : 30000 pcs per shift of different types of products



**BEAKER MACHINE :
6000 pcs per shift**

SEMI – AUTOMATIC PRODUCTION PLANT



Machines cannot replace the skilled glassblowers 100% and are the major strength of Glassco Company. Producing more than 10,000 pcs. per shift in different shapes & sizes.

Keeping in mind the overall health & productivity of our glass blowers, Glassco has installed individual cooling ducts for cool operations.

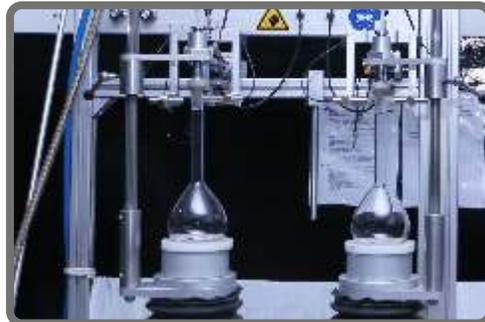


CALIBRATION

Glassco's German calibration machines enables 0.003% accuracy which provides an A-class tolerance. Our automatic quality control center provides verification of Burettes, Pipettes & Flasks. All the Volumetric Glassware comes with Different kind of calibration Certificates.



**QUALITY CONTROL
CENTRE MACHINE**



**LARGE VOLUME CALIBRATION
LAB MACHINE**



**SMALL VOLUMETRIC
CALIBRATION LAB MACHINE**



**PIPETTE
CALIBRATION MACHINE**

VOLUMETRIC GLASSWARE

All volumetric glassware requires high precision and accuracy and to achieve that controlled conditions for calibrating volumetric glassware go through automatic calibration machines which is the German state of the art technology imported from Germany. **Glassco's** Calibration Laboratory has undertaken accreditation for its system for calibration and testing as per **ISO 17025:2005**.

Glassco's Calibration Laboratory is **NABL approved**. **NABL** has a **MRA** under the Asia Pacific Laboratory Accreditation Cooperation (**APLAC**) and the International Laboratory Accreditation Cooperation (**ILAC**), which means the calibration provided to customers for volumetric ware is acceptable in calibration laboratories worldwide. The calibrations performed by **Glassco** calibration laboratory are essential done under **ISO 17025:2005**.

NABL Certificate

The image shows a formal NABL Certificate of Accreditation. At the top, it features the logos of ILAC-MRA, NABL, and QCI. The text identifies the National Accreditation Board for Testing and Calibration Laboratories as a constituent board of the Quality Council of India. The certificate is issued to Glassco Laboratory Equipments Pvt. Ltd. for its calibration laboratory, which has been assessed and accredited in accordance with the standard ISO/IEC 17025:2005. The scope of accreditation is "General Requirements for the Competence of Testing & Calibration Laboratories" for its facilities at P.O. Khudda Kalan, Manglai, Ambala Cantt., Haryana, in the field of CALIBRATION. The certificate number is CC-2521 (in Rev of C-0810), issued on 01/03/2018, and valid until 29/02/2020. It remains valid for the scope of accreditation as specified in the annexure, subject to continued satisfactory compliance to the above standard and the relevant requirements of NABL. The certificate is signed for and on behalf of NABL by Avijit Das, Program Director, and Anil Reja, Chief Executive Officer. A QR code is provided for verification, with the number 89076970200020000251.

NABL
National Accreditation Board for
Testing and Calibration Laboratories
(A Constituent Board of Quality Council of India)

CERTIFICATE OF ACCREDITATION

**CALIBRATION LABORATORY,
GLASSCO LABORATORY EQUIPMENTS PVT. LTD.**
has been assessed and accredited in accordance with the standard
ISO/IEC 17025:2005
"General Requirements for the Competence of Testing & Calibration Laboratories"
for its facilities at
P.O. Khudda Kalan, Manglai, Ambala Cantt., Haryana
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CALIBRATION

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(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Signed for and on behalf of NABL

Avijit Das
Program Director

Anil Reja
Chief Executive Officer

89076970200020000251

ASTM



QR 14/01 ISSUE 01 REV 3 DT 01 APR 2019

Glassco Laboratory Equipments Pvt. Ltd.

CALIBRATION CERTIFICATE

(Glassco Calibration Laboratory)

(ISO 17025:2005 Certified Laboratory)

CERTIFICATE NO	GLASSCO/19/06-158/2433		
CRF	15812062019	CAL REPORT NO.	19/06-158

CUSTOMER	GLE-STOCK		
TEST METHOD	GRAVIMETRIC METHOD		
ITEM CALIBRATED	VOLUMETRIC FLASK: 50 ml		
CATALOGUE NUMBER	134.236.05		
BATCH NO. & SERIAL NO.	05.19/2433		
ITEM CALIBRATED ON	12/06/2019		

CALIBRATION RESULT :

The product was found to contain the following volume at 20°C

VOLUME CONTAINED	50.004 ml
TOLERANCE	±0.050 ml
CORRECTION	-0.004 ml

Expanded uncertainty (at 95% C.L.k=2) is ±0.018 ml

The product has been calibrated with the following devices:

Standard weights	50 g
Weighing Balance	ABAL-03,420g/0.001 g(SARTORIUS)
Thermometer	DM-15-50°C to 300°C/0.1°C

All the above devices have valid calibrations traceable to NPL India; traceable to international standards.

The above product has been examined for compliance to ASTM E-288 Class-A, it has been found to satisfy the specified requirements. The above item has been calibrated at (25±3)°C at RH (60±25)%.

The above calibration result is valid at the time of calibration under lab conditions. This report shall not be reproduced, except in full, unless with written permission from Glassco Laboratory Equipments Pvt. Ltd.

Authorised Signatory

Manager Technical
(Yogendra Panwar)

DATE OF ISSUE:12/06/2019

This is an electronically generated certificate.



CALIBRATION CERTIFICATE

USP



QR 14/01 ISSUE 01 REV 2 DT 02 FEB 2011

Glassco Laboratory Equipments Pvt. Ltd.

CALIBRATION CERTIFICATE

(Glassco Calibration Laboratory)

(ISO 17025:2005 Certified Laboratory)

(USP-STANDARD)

CERTIFICATE NO : **GLASSCO/15/11-157/101** CRF DATE : 24/11/2015
CUSTOMER : GLE-STOCK CAL. REPORT NO : 15/11-157

TEST METHOD : GRAVIMETRIC METHOD
 ITEM CALIBRATED : VOLUMETRIC FLASK : 100 ml
 CATALOGUE NO : 130.220.05
 BATCH NO & SERIAL NO OF VOLUMETRIC FLASK: 09.15/101
 ITEM CALIBRATED ON : 08/12/2015

CALIBRATION RESULT :

The product was found to contain the following volume at 20°C

VOLUME CONTAINED	:	99.996 ml
TOLERANCE	:	±0.080 ml
CORRECTION	:	0.004 ml
STANDARD DEVIATION	:	0.001 ml

Expanded uncertainty (at 95% C.L.k=2) is 0.001 ml

The product has been tested with the following devices :

Standard Weight : 100 g
 Using Balance Number : ABAL-08,420g/0.001g(SARTORIUS)
 Thermometer No : DM-18-50°C to 300°C

All the above devices have valid calibration traceable to NPL India; traceable to international standards.

The above product has been examined for compliance to ASTM E-288 Class-A. It has been found to satisfy the specified requirements. The above item has been calibrated at 24.3°C at RH 56%.

The above calibration result is valid at the time of calibration under lab conditions. This report shall not be re-produced, except in full, unless written permission from Glassco Laboratory Equipments.

CALIBRATED BY :
 MR YOGENDRA PANWAR

DATE OF ISSUE : 16/12/2015

Page 1 of 1

This is an electronically generated certificate.

Calibration Certificate

ISO Batch Certificate

www.glasscolabs.com



VOLUMETRIC FLASK CLASS A

CATALOGUE NO : 130.202.08
 NOMINAL VOLUME : 500.00 ml
 TOLERANCE : ±0.250 ml
 COMPLIANCE : ISO1042:1998
 BATCH NO : 09.16
 MEAN VOLUME CONTAINED : 500.02 ml
 STANDARD DEVIATION : 0.04 ml
 TESTING DEVICE NAME : METTLER
 BALANCE : ABAL-21,4200g/0.01g
 WEIGHTS : 500g
 THERMOMETER : DM-23;-50to300DEG C/0.1 DEG C
 OPERATOR : HARPREET
 DATE OF ISSUE : 09.09.16

BATCH TEST CERTIFICATE
 Batch Tested in ISO 17025:2005 Certified Laboratory.

Certificate Of Conformity



CERTIFICATE OF CONFORMITY

Issuer's Name / Producer : GLASSCO LABORATORY EQUIPMENTS PVT. LTD.
 Issuer's Address / Producer : Manglai, P.O. Khudda Kalan, Ambala Cantt - 133001 Haryana, India
 Object of Declaration : Volumetric Flask,
 Material : Borosilicate Glass
 Purpose of Use : A type of laboratory flask, calibrated to contain a precise volume at a particular temperature. Volumetric flasks are used for precise dilutions and preparation of standard solutions.

Specification of flasks specified in Table-1, EN ISO 1042 : 1999

Catalogue No.	Product Description	N/S	Capacity mL	Pack Qty
130.202.01	Volumetric Flask, Batch Certified With PP Stopper	10/19	5	2
130.202.02	Volumetric Flask, Batch Certified With PP Stopper	10/19	10	2
130.202.02A	Volumetric Flask, Batch Certified With PP Stopper	10/19	20	2
130.202.03	Volumetric Flask, Batch Certified With PP Stopper	10/19	25	2
130.202.04	Volumetric Flask, Batch Certified With PP Stopper	12/21	50	2
130.202.04B	Volumetric Flask, Batch Certified With PP Stopper	14/23	50	2
130.202.05B	Volumetric Flask, Batch Certified With PP Stopper	12/21	100	2
130.202.05	Volumetric Flask, Batch Certified With PP Stopper	14/23	100	2
130.202.06	Volumetric Flask, Batch Certified With PP Stopper	14/23	200	2
130.202.07	Volumetric Flask, Batch Certified With PP Stopper	14/23	250	2
130.202.08	Volumetric Flask, Batch Certified With PP Stopper	19/26	500	2
130.202.09	Volumetric Flask, Batch Certified With PP Stopper	24/29	1000	2
130.202.10	Volumetric Flask, Batch Certified With PP Stopper	29/32	2000	1
130.202.11	Volumetric Flask, Batch Certified With PP Stopper	34/35	5000	1



The object of declaration described above is in conformity with the requirements of the following documents:

- DIN ISO 3585 Borosilicate Glass 3.3
- EN ISO 1042 Laboratory Glassware - Volumetric Flasks

Material: The above are made from DIN ISO 3585:1998, heat resistant Boro 3.3 Glass that meet ASTM E-438, TYPE-1, CLASS- A Standard.

Compliance: These Flasks comply in every respect characteristics, measures and accuracy are in full conformity With the provisions of the standard EN ISO 1042:1999.

Additional Information:

Glassco has installed the quality control system as per ISO 9001:2008 and products delivered to the market are in full conformity with the technical Specification as per standard and with all fundamental requirements to such products.

Certificate No. IPK 0039.69-01 issued by Intertek certification limited, A UKAS Management System Accredited Body



This document has been produced electronically & is valid without signature

QUALITY POLICY

Glassco shall endeavor to produce and supply laboratory products at attractive pricings that meet or exceed customer's expectations, with stress on **TIMELY DELIVERIES**.

This shall be achieved by obtaining **customer feedbacks** of our performance and making relevant changes in our management system for **continual improvement**.

Quality Management System

Glassco believes in delivering **world class quality** to all its clients globally and is recognized in International market for a quality brand.

The Quality Management system at Glassco is ISO 9001:2008 & ISO 18001: 2007 certified by INTERTEK; accredited to UKAS.

Glassco maintains Quality System Manual for all its business processes and at all manufacturing and post – manufacturing levels, quality system is strictly adhered to. People supervising work affecting quality at Glassco, are trained internal auditors and **CARRY OUT INTERNAL AUDITS IN ROUTINE PRACTICE**.



Glassco applies innovative packaging which ensures minimal breakages while shipping goods worldwide. Our labels has QR code for online Certification, Conformity & Manuals.



SHOCK ABSORBER



BAR CODE WITH QR CODED LABEL

Store/Storage

Glassco's store area consists of 3600 sq. meter area and has about 7500 pallets position .

READY STOCK WORTH
3 MILLION \$
INVENTORY



FINISHED GOODS AREA

QUALITY CHECK PARAMETERS



Dimensional Checks

Glassco carries out dimensional check with gauges and calipers for all the material produced in the company, while in process and also before further processing.

GLASS STRESS-FREE CHECKS



Glassco has five conveyer furnaces (Lehrs) where all the products are annealed to remove manufacturing stress from glass to ensure that product has long Life and high strength. Glassco has four stress viewers installed at several locations for this purpose.

FIT TESTING FOR JOINTS



The taper of the male (cones) and female (sockets) are verified by gauges and taper test tools before further processing, this ensures that the joints are secured of leaks.

VACUUM TESTING OF MATING JOINTS



Mating joints are tested under a vacuum to verify that the taper are even and no leaks exist.

PRINT COLOR ADHESION TEST



All the prints on the glass are verified for color adhesion by subjecting them to acid boiling, scratch and tape peel off test.



A Glass Apart

QR-LabGlass™

PATENT AWAITED...

1st in Asia & Middle East
Comes with Blue Meniscus

HIGHER
— Visibility
— Accuracy
— Confidence

1st in the World
QR-Coded Volumetric Flask

Scan —
Certificate —
Calibration —

INSTANT

Longer Durability



5923 NS 19/26
03.18 GLASSCO 1500
1042

COMPLIABILITY OF LIMS/ELN/QMS/SDMS WITH GLASSCO SMART FLASK

WITH 3D SCANNERS

In your secure environment use a 3D scanner, connect

- To Glassco webpage for certifications
- To your LIMS for regular use scans



HOW TO USE

For certifications:

On your PC connect 3D scanner

- Go to Glassco webpage scroll down to calibration,
- Scan with a connected scanner and download certifications

For adding product in your LIMS software:

- Open your add page in LIMS software.
- Scan with a connected scanner the unique identification code on your Glassco flask, which then can be added to your work flow.

Please make sure your hand held QR Code scanner is connected to your system and is in working condition

VA0003K170060

[SUBMIT](#)

TO INTEGRATE WITH YOUR LIMS

GET

LIMS CODE

Please download app or or or
Use a 3D Scanners and scan your Volumetric Flask

SET

GET UID

The Scan result will be a unique no. of flask & unique code, Enter the value in your LIMS

GO

SCAN ON USE IN LAB

At every person usage, Scan the flask before use & Get records of usage.

Available at your Fingertips !

COMPLIABILITY OF GLASSCO SMART FLASK



QR-Code

WITH SMARTPHONES

In your laboratory/office with internet on mobile, connect

- With Glassco App for certifications



USE WITH SMARTPHONES

For certifications:

- Download and install Glassco App from Play store
- Scroll to “Scan QR Code”
- Scan your flask and download certifications.

- **Note:** Laboratory information management System (LIMS) is provided by various companies, to use these flasks with them, check the data format accepted by your LIMS software.

TO GET CERTIFICATIONS OR USER MANUALS



SCAN VOLUMETRIC FLASK

Please download your app  or  or  and scan your Volumetric Flask with your smartphone



SELECT CERTIFICATE INDIVIDUAL/BATCH CONFORMITY OR USER MANUAL

Website will open with choice of batch or individual certificate and please type Serial No. from Flask



PRINT OR SAVE YOUR CERTIFICATE

Your certificate is now ready to be saved or printed at the time of your audit, before audit or after audit.

Available at
your Fingertips !

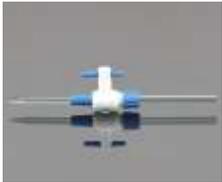
GLASSWARE INNOVATION :



BUSHING ADAPTER

Bushing adapters made of BORO 3.3 glass can be used to adapt smaller Cone Sizes to Larger Sockets.

MULTIPLE SOCKET SIZES | COST SAVING | TIME SAVING



DETACHABLE STOPCOCK

Detachable stopcocks can be used on burettes with following benefits.

CHANGE BURETTE SIZE | EASY CLEANING | TIP REPLACEMENT | COST SAVING



SECURE CLAMP FOR AUTOBURETTE BOTTLES

Secure clamp for auto burette bottles can be used on any new bottle

NO BREAKAGE | USER SAFE



CYLINDERS WITH PROTECTION COLLARS

Measuring cylinders with protection collars.

BREAK PROOF | USER - SAFE



QR-CODED GLASSWARE

QR printed glassware now can be used with any mobile phone/3D scanners & helps to retrieve data immediately.

PAPER LESS | ENVIRONMENT FRIENDLY | COST SAVING

Labs-Connect™

Connecting Labs Remotely



6000.WEU.01



411.WDG.01



600.WDG.01

Control Your Lab Instruments
Worldwide Remotely

For Free

LAB. INSTRUMENTS INNOVATION

Glassco team is very proud to present to you it's innovations all done in- house!!
We have 2 areas of Innovations Glassware & Instruments.

Instruments



CERAMIC GLASS PLATE

Ceramic glass coating on SS to resist temp. upto 400°C .

NO NEED FOR A CERAMIC PLATE | NO BREAKAGE | COST SAVING



INBUILT TEMP.

Inbuilt temp. reading & control of medium in beaker

NO EXTERNAL PROBES REQUIRED | COST SAVING



SELECTION BUTTON C°/ F°

Inbuilt selection for C°/ F° along with a display, user - friendly

NO NEED FOR CALCULATIONS | TIME SAVING



JOG DIAL KNOB

Jog dial – single operation knob for setting menu.

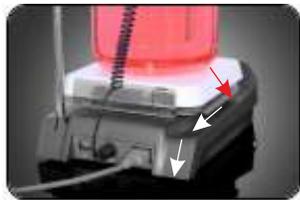
HOME BUTTON KNOB | NO CONFUSION | EASY OPERATION



CLICK SYSTEM

Hot plate with Ceramic plates comes with a click system for

EASY MAINTENANCE | IF BREAKAGE | CLICK ON A NEW PLATE | TIME SAVING

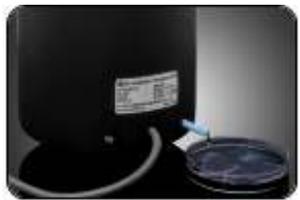


BACKWARD SPILLAGE

500.DNAG designed to protect the user from accidents.

If medium/acid overheats : backward spillage provides extra security to the user

USER - SAFE | COSTSAVING



HMS SPILL COLLECTION

Our heating mantles have an inbuilt glass collection vessel, so that your expensive medium is not wasted.

If breakage of flask : Internal vessel collection and outlet saves your expensive medium (\$\$..)

TIMESAVING | COSTSAVING

OUR VISION

Glassco's Mission:

Glassco wants to be recognized as one of the most innovative company in the field of **Laboratory Glassware & Instruments** which is known for excellent **quality & innovative designs that becomes an industry standard.**

We will constantly adapt & develop new technologies which would set us apart from our competitors.

Glassco's Vision:

To become the first choice for it's customers & users. Sell products with excellent Quality, Value & Convenience. We are constantly exploring the new opportunities by adding new products to our portfolio with a vision to become **A One Stop Shop** for our customers.



WHY BUY GLASSCO?



TOP CUSTOMERS



ESTEEMED CUSTOMERS (Since 2005)



AWARDS, RECOGNITION & ACHIEVEMENTS

Awarded best Exporters of India by "CAPEXIL" (Govt of India)



2010



2005



2007



2012



2013

Awarded under "MAKE IN INDIA" programme (2011)



2011



CPhIindia
2nd RUNNER UP

CERTIFICATE OF RECOGNITION 2018



Thank
You



Head Office:

Glassco Laboratory Equipments Pvt. LTD.

Manglai, P.O. Khudda Kalan, Ambala Cantt. 133004 (INDIA)

reatorg
ПРОЕКТИРОВАНИЕ
ОСНАЩЕНИЕ • СЫРЬЕ

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