30+ YEARS OF EXCELLENCE
Since 1993

STPL®
ENHANCING MEDICAL TECHNOLOGY

SBF-1

Balloon Forming Machine

Precision Engineering for Advanced **Medical Balloon Manufacturing**

ISO 9001 : 2015 MANUFACTURING FACILITY

DSIR-GOVERNMENT OF INDIA CERTIFIED IN-HOUSE R&D UNIT

MADE IN INDIA

The **SBF-1** Balloon Forming Machine is designed to revolutionize the production of polymer balloons used in critical medical procedures such as angioplasty. By integrating advanced control systems and user-friendly features, this machine ensures precision, consistency, and efficiency in every step of the balloon forming process.

- ***Ideal for manufacturing polymer balloons for angioplasty and other medical applications.***
- ***Suitable for producing balloons with sizes ranging from 1.5mm to 33mm in diameter and up to 170mm in length.***

Salient Features

Precision Control:
Advanced PLC controller with touchscreen HMI for accurate temperature, pressure, and axial force control.

User-Friendly Interface:
Intuitive 24" touchscreen interface for effortless operation and monitoring.

Compact Design:
Space-saving layout for efficient floor management.

Quick Release Mechanism:
Fast heating block exchange for uninterrupted workflow.

Recipe Management:
Saves process parameters for repeatable, high-quality production.

Wide Pressure Range:
Supports pressures up to 50 bar for enhanced flexibility.

Advanced Safety Features:
Includes emergency stop, error detection, and safety sensors to ensure operator protection.

Durable Build:
Constructed with high-quality components for reliable, long-term performance.

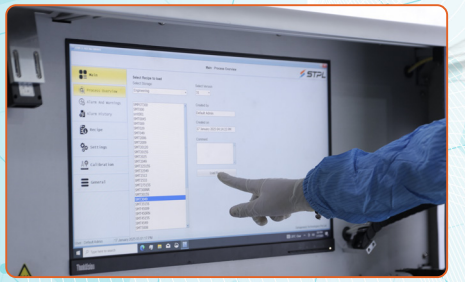
Why Choose SBF-1?

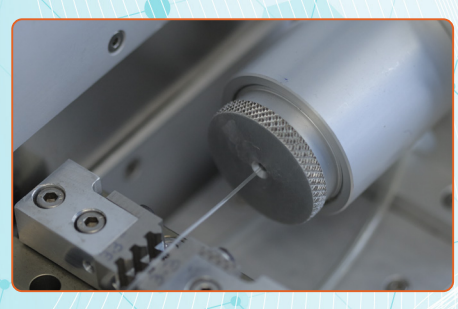
With its precision control, intuitive interface, and robust design, the SBF-1 Balloon Forming Machine sets new standards for medical balloon manufacturing. Whether you are producing angioplasty balloons or other medical-grade polymers, this innovative solution ensures superior performance, efficiency, and safety.

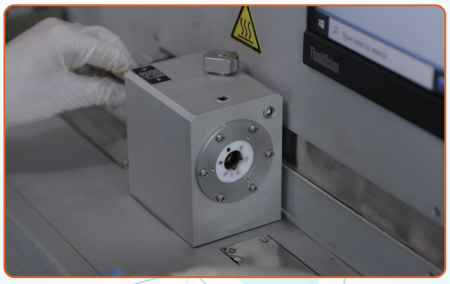
Technical Specification

Dimensions	1630mm (L) x 900mm (W) x 1630mm (H)
Weight	Approx. 150 kg
Axis Travelling	Left 400mm | Right 520mm | Position Accuracy: ± 0.1mm
Operating Voltage	Single-phase, 230V AC ± 5% | Power Consumption: 1600W
Temperature Range	Up to 200°C (392°F)
Cooling System	External cooling integration for temperatures between 5°C to 7°C
Process Pressure	Up to 50 bar (725 psi) | Low-pressure system: 6 to 8 bar
Vacuum Pump Capacity	Flow rate: 3.1 l/min | Max pressure: 1.4 bar (20 psi)
Burst Detection	Detects pressure exceeding 15 bar (217 psi)
Heating Block	Barcode scanning system for improved tracking and security

Image Gallery







STPL®

ENHANCING MEDICAL TECHNOLOGY

STPL MT aims to identify the automation needs of the global medical and healthcare industry and fulfill them by offering our world-class vision, laser and software technology. Our only goal is to become a value-added partner for our clients by providing innovative technology, an optimum level of service and continuous support to maximize our clients' business uptime.

STPL
INNOVATION • VALUE • SERVICE

DIAMOND TECHNOLOGY

- **Pioneered the Laser in Diamond Industry in India.**
- **World's First to Introduce Robots for Diamond Processing.**
- **Having Customer Base in More Than 30 Countries & 5 Continents.**

STPL 3D
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- **3D Printers for Industrial Needs.**
- **World Class In-house 3D Printing Lab.**
- **Best FDM, SLA, SLM and SLS Technology.**

STPL
INDUSTRIAL LAZER

INDUSTRIAL LASER TECHNOLOGY

- **Fiber Laser Cutting Machine with Best Results.**
- **For Industries and Automotive.**
- **Accurate Cutting, Marking, Welding and Cleaning Laser Machines.**

STPL
ENHANCING MEDICAL TECHNOLOGY

MEDICAL LASER TECHNOLOGY

- **Range of Medical Laser Devices.**
- **Solutions for Stent & Catheter Manufacturing.**
- **India's First Dental Laser.**

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