30+ YEARS OF EXCELLENCE
Since 1993

STPL®
ENHANCING MEDICAL TECHNOLOGY

SBN-5

Enhancing
Medical
Balloon
Manufacturing
Precision

ISO 9001 : 2015
MANUFACTURING
FACILITY

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

MADE IN INDIA

The **SBN-5 Vertical Necking Machine** is a cutting-edge solution designed for the precision necking of balloon tubes before the balloon forming process. By reducing tube diameters beforehand, it eliminates the need for calibration, ensuring enhanced efficiency and accuracy in medical balloon production.

Salient Features

High Productivity:

Capable of processing up to **800 tubes per shift,** optimizing production efficiency.

Multi-Tube Processing:

5-up machine allowing simultaneous necking of 5 balloon tubes in a single pass.

Precision Performance:

Supports tube diameters ranging from **0.4mm to 7.5mm,** ensuring accuracy and consistency.

Advanced Control System:

Simple and user-friendly **touchscreen display** for seamless operation.

Safety Features:

Equipped with **safety light curtains** to ensure operator protection.

Network Compatibility:

Allows seamless data management and process tracking.

Advantages of SBN-5

Consistent Quality: Reduces diameter variability, ensuring uniformity in balloon tubes.

Enhanced Efficiency: Eliminates the calibration step, reducing overall processing time.

Automated Process: Minimal manual intervention enhances productivity and reliability.

Operator Safety: Integrated safety light curtains to ensure a secure working environment.

Durable and Reliable: Designed with high-quality components for long-term, high-performance operation.

Precise Temperature Control: Process temperatures range from 20°C to 250°C, ensuring optimal results.

Flexible Operation: Adjustable heating and cooling times, catering to various balloon tube materials.

High-Speed Performance: Travel speeds up to 150 mm/sec, allowing for rapid processing.

Compact and Space-Saving: Optimized design for various production environments.

Specifications

Clamping System:	Pneumatically actuated clamp for secure tube holding.
Mass Flow Controller:	50 nl/min ±1%, ensuring precise gas flow control.
Motion System:	2 linear slides with ball screw spindle & servo motors (1.8 N m), positional accuracy ±0.1 mm.
Travel Distances:	Upper: 800 mm, Lower: 750 mm.
Temperature Control:	20–200°C with ±0.5°C accuracy.
Air Pressure Requirement:	6-10 bar for reliable operation.
Cycle Time:	1-3 minutes per tube.

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
THINK • CREATE • SURPRISE

ADDITIVE MANUFACTURING

- 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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