

SNIPER S300BT SERIES

HIGH PRECISION AUTOMATED DISPENSING SYSTEM

The **SNIPER S300BT** is a **space-saving benchtop dispensing system** designed for **R&D labs, prototyping, and small-batch production**. Built on the same core technology as the industrial-grade S400 model, it delivers **identical precision and software compatibility** in a portable format – enabling seamless technology transfer from development to full-scale manufacturing.



Contact Us:

Vyns Global Sdn. Bhd.,
Head office: 47, Jalan Cassia Selatan 3/3,
Taman Perindustrian Batu Kawan
14110 Bandar Cassia,
Pulau Pinang, Malaysia.

Email: sales@vyns.com.my
Tel: +6 (04) 306 7751
www.vyns.com.my



Authorized Distributor:



FEATURES

- ✓ **Industrial-Grade Precision in Compact Design**
 - **Micro-dot dispensing at 1200Hz** (identical to S400) with **±5µm repeatability**
 - Shares the same **SJ100 jet valve technology** and **vision camera system** as S400
- ✓ **Plug-and-Play Portability**
 - 50% smaller footprint than S400 (fits standard lab benches)
 - Tool-free setup; operational within 15 minutes
- ✓ **Single-Head Configuration**
 - Optimized for precision applications requiring ultra-fine dispensing
- ✓ **Seamless SNIPE Series Compatibility**
 - Unified **Geometry Sketch™ software** interface
 - All process recipes are **directly transferable to S400 systems**

ADVANCED FEATURES

- ★ **Cross-Platform Recipe Compatibility**
 - ✓ Reduces process validation time by 70% with seamless recipe transfer between S300BT (benchtop) and S400 systems
- ★ **Advance Vision Guidance System**
 - ✓ Utilizes same high-resolution camera module as S400 for complex pattern alignment, image mapping and fly capture mode.

APPLICATIONS

- ❑ **R&D Process Development:** Material testing, parameter optimization
- ❑ **Low-Volume Manufacturing:** Medical devices, precision sensors
- ❑ **Academic Research:** Microfluidics, advanced packaging studies

Why Choose the SNIPE Series?

- ✓ **Zero Transition Risk** – 100% recipe compatibility with production S400 systems
- ✓ **Smart Automation** – Vision-guided dispensing minimizes errors and maximizes yield
- ✓ **Lab-to-Factory Continuity** – Eliminate revalidation when scaling up
- ✓ **Cost-Effective Precision** – Industrial performance at benchtop budgets
- ✓ **Intuitive Operation** – <1 hour training curve for new users

SPECIFICATIONS

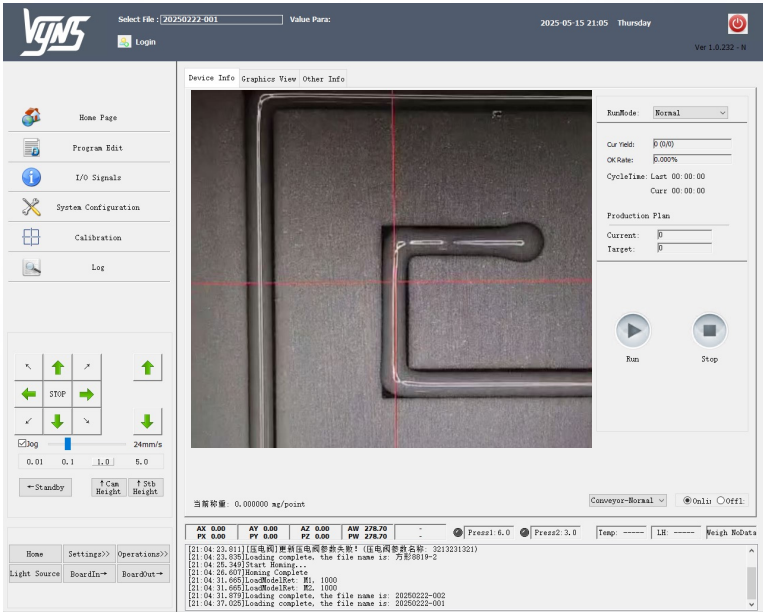
Motion	
X-Y Axis Acceleration	0.6 g peak
Z-Axis Height Minimum Dispense Gap	50 µm
X, Y, Z Repeatability	± 10um, Cp 1.67
X, Y, Z Placement	± 30um, Cpk 1.33
X,Y Wet Dispense Repeatability	± 25um, Cp 1.67
X,Y Wet Dispense Placement Accuracy	± 35um, Cpk 1.33

Dispense	
Dispense Area	X-Y Single Valve Max Dispense Area 300 x 300 mm
Dispensing Head	Single Head
Dispensing System Config	Support Single Piston Valve Config
	Support Single Jet Valve Config
	Support Single Spray Valve Config

Standard	
Cleanliness	Class 1000
Safety	CE, SEMI-2, SEMI-8
Certification	CE Ready

Vision	
Top Camera	Camera : 1.3MP ~ 3MP
	Lighting : White LED Ring Light
	Option: Red or RGB Ring Light
	Support Image Mapping
	Support Pattern Recognition Function
	Support Fly Capture Function
	Support Barcode Read

Software Support	
CPK	
MTBA / MTBF	



Geometry Sketch™ Software

S300BT



S400

