

ZION

Long Throw Single-Use Solvent Cartridge

Key Specifications

- Up to 1/2" (12mm) throw distance*
- Single-use
- Single-color
- Heavy solvent-compatible
- 1/2" (13.5mm) print swath
- 300 DPI
- Drop mass: 40-45pl*
- 6 kHz per nozzle*

Key Applications

- Canning
- Bottling
- Round/curved surfaces
- Recessed surfaces
- Area of poor product control
- Variable/uneven product thickness
- Non-porous substrates

Contact Us

Funai Microfluidic Solutions
 700 Setzer Way
 Lexington, KY USA 40508-1187
 +1(859)550-2070
contactus@funaisolutions.com
www.funaisolutions.com

*Fluid Dependent

About

With an industry-leading up to 1/2" throw distance, Zion nearly doubles the throw distance of the competition. This disposable monochrome solvent cartridge contains 320 nozzles for up to a 1/2" print swath capable of printing high-resolution text, barcodes, and graphics on non-porous and semi-porous substrates. The long throw distance makes Zion perfect for applications where uneven, recessed, or round surfaces are part of the product packaging. In the case of poor product control, the longer throw distance ensures crisp marks when substrate positioning can vary significantly.




On chip READ/WRITE memory ensures that only approved inks are utilized in OEM partner machines.

Target Customer

The ideal customer:

- Utilizes semi and non-porous substrates
- Relies on heavy solvents in the printing process
- Runs small-to-medium production batches
- Requires fast ink changeout

Print Speed Table

6 kHz Print Speed Translation			
Horizontal DPI	Max. Line Speed* (Single Channel)	Max. Line Speed* (Dual Channel)	Sample Print Image (Simulated)
300	100 ft/min (~31 m/min)	150 ft/min (~45 m/min)	 1 234567 890128 Funai 300 DPI Printing
150	200 ft/min (~61 m/min)	300 ft/min (~91 m/min)	 1 234567 890128 Funai 150 DPI Printing
75	400 ft/min (~122 m/min)	600 ft/min (~183 m/min)	 1 234567 890128 Funai 75 DPI Printing

Powered By Funai

Funai focuses on research and development of thermal inkjet microfluidics for specialty printing, life sciences, and consumer applications. With hundreds of printing-related patents, Funai is recognized as a top-tier microfluidic designer and manufacturer with scaling capabilities to partner with global industries.



ZION

Long Throw Single-Use Solvent Cartridge

About

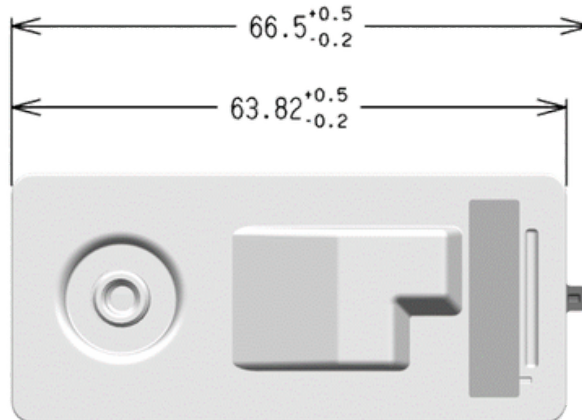
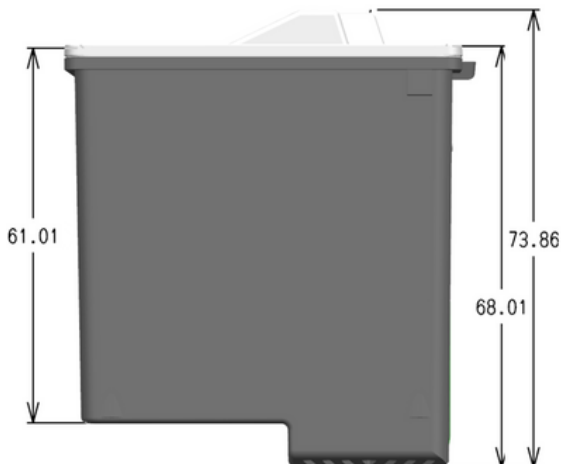
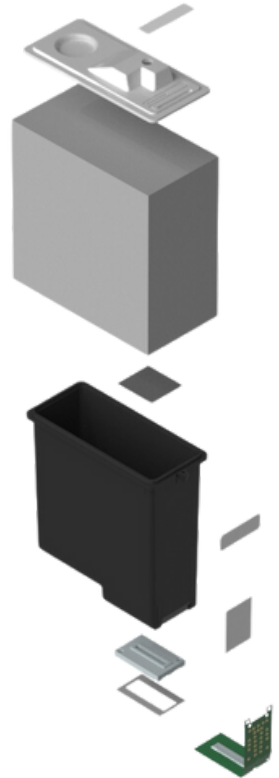
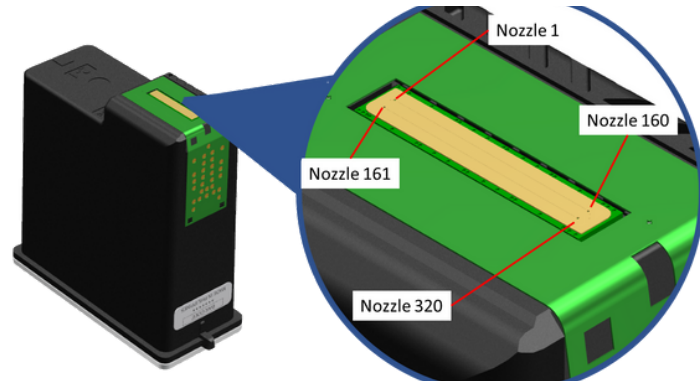
Model	Funai Model No: F3****	
Environmental Protection	RoHS / REACH	
Printable Images	Text Barcodes Graphics	
Ink Capacity	Ink fill (avg)	46ml*
	Deliverable ink (avg)	42ml*
Nozzles	320 (two rows of 160)	
Heater Pitch	300 DPI	
Print Swath	0.53" (13.5mm)	
Firing Frequency	6 kHz per nozzle*	
Pen Stall	Shetland/Clydesdale	
Nozzle Sealing Method	Nozzle Clip	
Reservoir Type	Foam	

Usage

Working Location	Indoor	
Working Temperature	15C-35C (~60F-95F)	
Working Humidity	8%-80% (non-condensing)	
Compatible Solvents	MEK Acetone Ethanol	
Ink Properties	PH	7-8
	Surface Tension (dynes/cm)	24-45
	Viscosity (cP)	2-10
	Particle Size (nm)	111.00
Filling Method	Vacuum Filler (LOBOZAR TECHNIK)	
Drop Size	40-45pl*	

Dimensions and Storage

Size(mm)	28.8(W) x 73.9(H) x 66.5(D)	
Weight	31g	
Storage Temperature (empty)	15C~50C (~60F-120F)	
Storage Temperature (filled)	15C~35C (~60F-95F)	
Storage Humidity (filled)	5%-80% (non-condensing)	
ATM Pressure	<1609 (~5280ft)	



*Fluid Dependent

