Key Specifications

- Up to 1/2" (12mm) throw distance*
- Bulk-use
- Single-color
- · Heavy-solvent compatible
- 1/2" (13.5mm) print swath
- 300 DPI
- Drop mass: 40-45pl*
- Up to 1L yield*
- 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
- Large production runs

Contact Us

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About

With an industry-leading up to ½" throw distance, Zion Bulk nearly doubles the throw distance of the competition. This bulk monochrome solvent cartridge contains 320 nozzles for a ½" print swath capable of printing high-resolution text, barcodes and graphics on non-porous and semi-porous substrates while reducing the cost-per-mark when paired with a bulk ink delivery system.

The long throw distance makes Zion Bulk 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:

- Runs medium-to-large production batches or multiple shifts (24/7)
- Utilizes semi and non-porous substrates
- · Relies on heavy solvents in the printing process

Print Speed Table

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





ZIONBULK Long Throw Bulk Solvent Cartridge

About

Model	Funai Model No: F4****	
Environmental Protection	RoHS / REACH	
Printable Images	Text Barcodes Graphics	
Ink Capacity	Ink fill (avg) Deliverable ink (avg)	17ml Up to 1L*
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	Bladder	
Tubing Connector Size	1/8" (~3.2mm) ID	
Useage	,	

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

Dimensions and Storage

Size(mm)	28.8(W) x 73.9(H) x 73.7(D)	
Weight	40.6g	
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)	
Shelf Life (Empty)	12 months	















