

# YELLOWSTONE GMP

## Single-Use Food Grade Aqueous Cartridge

### Key Specifications

- Up to 1/4" (6mm) throw distance\*
- Single-use
- Single-color
- Edible water-based inks
- 1/2" (13.5mm) print swath
- 600 DPI
- Drop mass: 22pl\*
- 24 kHz effective (12 kHz per nozzle)\*

### Key Applications

- Direct to food printing\*\* (eggs, cookies, cakes)
- Pharma packaging
- Primary food packaging
- Variable data coding (lot/expiration)

### About

Yellowstone GMP is a disposable monochrome aqueous cartridge manufactured utilizing Good Manufacturing Practice (GMP) for food-based applications. With 640 nozzles, a 1/2" print swath, and an effective 24kHz printing speed, Yellowstone GMP nearly doubles the speed and/or resolution of the competition. Common uses include text, barcodes, and graphics directly on food or packaging expected to contact food.




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

### Target Customer

The ideal customer:

- Requires GMP-based products for use in food/drug facilities
- Direct to food printing\*\*
- Runs small-to-medium production batches
- Requires fast ink changeout

### Print Speed Table

12 kHz Print Speed Translation			
Horizontal DPI	Max. Line Speed* (Single Channel)	Max. Line Speed* (Dual Channel)	Sample Print Image (Simulated)
300	200 ft/min (~61 m/min)	400 ft/min (~122 m/min)	 1 234567 890128 Funai 300 DPI Printing
150	400 ft/min (~122 m/min)	800 ft/min (~244 m/min)	 1 234567 890128 Funai 150 DPI Printing
75	800 ft/min (~244 m/min)	1,600 ft/min (~490 m/min)	 1 234567 890128 Funai 75 DPI Printing

### Contact Us

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\*Fluid Dependent

\*\*Does Not Have FDA Extraction Data

### 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.



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### About

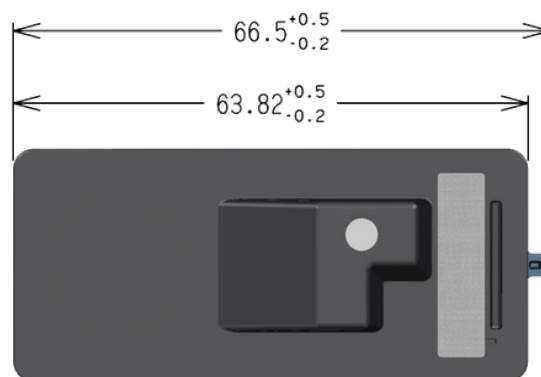
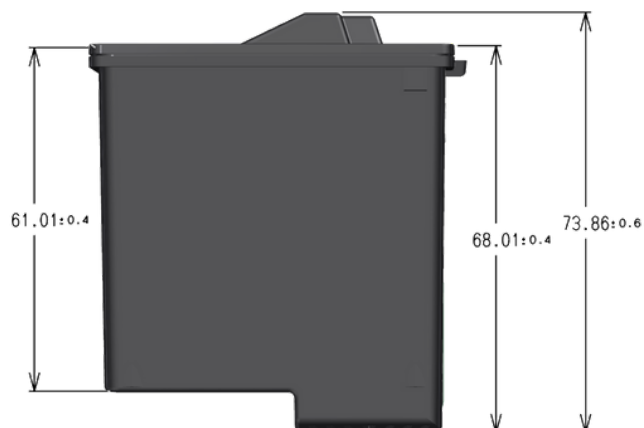
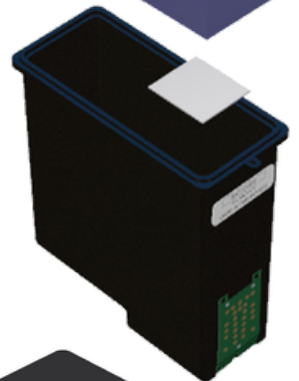
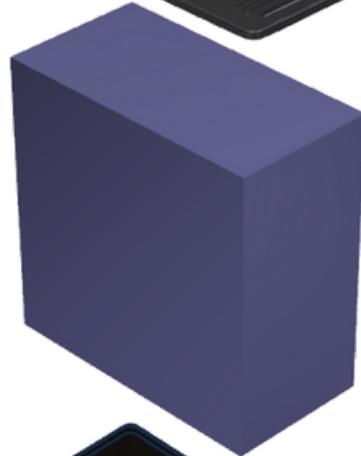
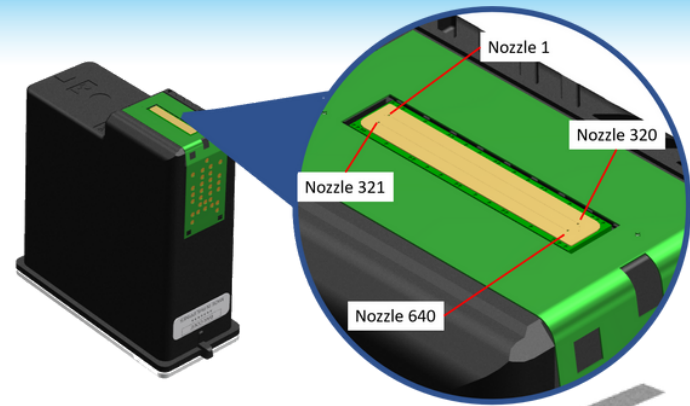
Model	Funai Model No: BF**XB, BF**XA	
Environmental Protection	RoHS / REACH	
Printable Images	Text Barcodes Graphics	
Ink Capacity	Ink fill (avg)	35ml*
	Deliverable ink (avg)	28ml*
Nozzles	640 (two rows of 320)	
Heater Pitch	600 DPI	
Print Swath	0.532" (13.5mm)	
Firing Frequency	12 kHz per nozzle*	
Pen Stall	Shetland/Clydesdale	
Nozzle Sealing Method	Nozzle Tape	
Reservoir Type	Foam	

### Useage

Working Location	Indoor	
Working Temperature	5C-35C (~40F-95F)	
Working Humidity	8%-80% (non-condensing)	
Compatible Solvents	Food Grade Inks	
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	22pl*	

### Dimensions and Storage

Size(mm)	28.8(W) x 73.9(H) x 66.5(D)
Weight	32g
Storage Temperature	1C~43C (~34F-110F)
Storage Humidity	5%-80% (non-condensing)
ATM Pressure	<1609 (~5280ft)
Self Life (Empty)	12 Months



\*Fluid Dependent

