

## GD Series Drop-on-Demand Technology

Drop on Demand (DOD) technology is a printing method where ink droplets are ejected from the printer's nozzles only when needed—specifically, when a dot needs to be printed on the substrate.



The key characteristic of DOD technology is its selective ink ejection. Unlike Continuous Inkjet (CIJ) methods, where ink is emitted continuously, DOD only releases ink droplets as required for precise dot placement.

This makes DOD particularly suited for applications where the print speed is slower but the information density is higher, such as coding secondary packaging like boxes, sacks, or packs. These labels often contain vital details about the primary packs inside, necessitating larger prints with high-quality resolution.

### KEY FEATURES

- High Resolution:**  
DOD technology, particularly the piezoelectric variant, offers high print resolution. The precise ejection of droplets allows for the creation of fine details in printed images.
- Various Ink Options:**  
DOD supports a wide range of inks, including water-based, pigmented, and specialty inks. This flexibility allows for tailored ink choices based on specific application needs.
- Efficient Ink Usage:**  
DOD technology optimizes ink consumption by using only the amount needed for printing. This efficiency can result in lower ink waste compared to other printing technologies.
- Reduced Maintenance:**  
DOD printers generally require less frequent maintenance. Since droplets are ejected only when necessary, there is reduced wear and tear on the printer's components.

### SALES INQUIRY



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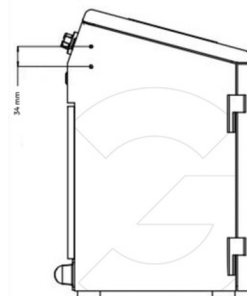
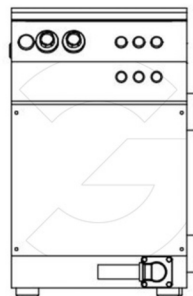
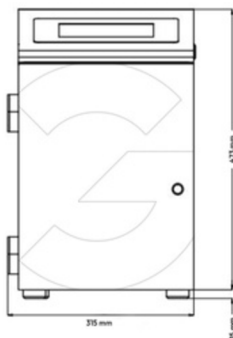
### INDUSTRY & APPLICATION

- Food & Beverage
- Pharmacy
- FMCG
- Cosmetics & Personal Care
- Building Materials
- Electronics & Electrical Component

PRINTING SPECIFICATIONS	GD-1000	GD-2000	GD-3000
Nozzle Specifications	80μ	120μ	150μ
Printing Height	7 dots: 5-28mm	16 dots: 5-64mm	32 dots: 5-128mm
Max. Printhead	2 printheads	2 printheads	2 printheads
Print Head Duct		3m	
Printing Distance		3-30mm	
Printing Lines		1-4 lines	
Printing Speed		120m/min	
Counter	More than 20 independent counters		
Ink Base Volume	1000 ml		
Ink Color	Black, Red, Blue, Green, White, Yellow, Invisible		
Ink Type	Ketone-based, Water-based, Alcohol-based, Acetone-based, Pigment-based		
Font	5×6L, 7×6L, 7×10L, 9×8L, 9×11L, 11×11L, 12×12L, 16×16L, 24×24L, 32×32L, 11×11B, 12×12B, 16×16B, 24×24B, 32×32B		
Printing Material	Porous and non-porous surfaces such as carton, plastic, metal, plate, pipe, stone, glass, ceramics, auto parts, industrial chemical packaging, paint surface, etc.		
Print Content	Text, Time, Date, Logo, Shift, SN, Dynamic Barcode/QR Code, Dynamic Serial Data, Dynamic Database (Additional content can be added as required)		

## MACHINE PARAMETERS

Display Screen	7-inch color display, industrial touch screen
Communication Interface	Network interface, USB, RS232
Material & Protection Level	304SS - IP65
Power Parameters	Input 100-240V AC, 150W
Working Environment	Temperature 0-45°C, Humidity 30-70%Rh
Related Certification	CE, RoHS, FCC
External Interface	Optical eye, Encoder, Reverse and upside-down control, Signal light alarm output, Serial number output control, External printing information selection
Support Language	Support more than 40 national languages (German, English, Chinese, Arabic, Danish, Russian, French, Finnish, Korean, Japanese, Spanish, Italian, etc.)



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Speed, resolution may vary depending on application on site and substrates type. For comprehensive product details and personalized advice, please consult a Gressler Sales Advisor. This brochure is for informational purposes only and does not constitute an offer or form part of any contract with Gressler. Actual purchase terms are detailed in separate agreements. The performance data and assertions in this brochure are based on specific circumstances and should not be considered as guarantees for future results. Gressler is committed to ongoing product improvement, reserving the right to modify designs and specifications without prior notice.