

## Drop on Demand (DoD) 3D Printer Model # POLY-OPT-3D

**Specialise Products Private Limited** is an Indian Original Design Manufacturer (ODM), who Conceptualise, Design and Manufacture customized machines as per customer's requirement.

We already Conceptualised, Designed and Manufactured Laser Assisted 3D Bio Printer ([International Patent Applied](#)), 3D Direct printer (no need for Filament, directly input your materials in Powder/Granules OR Semisolid form), Liquid (Drop on Demand) 3D Printer, Automatic Laser Exposure and Scanning System (ALES) to name a few. We are always eager to understand customer's pain points and provide customise solutions which are not available in the market.

Drop On Demand is a 3D printing process where droplets of material are selectively deposited and cured on a build plate. Using photopolymers or wax droplets that cure when exposed to light, objects are built up one layer at a time. Dispenser systems are based on piezo - driven inkjet printing technology. The micro dispenser system is for non-contact dispensing of liquids in single droplets of volume ranges from 20 pl to 380 pl. It is possible to dispense liquids in single droplets or in series of drops with viscosities of 0.4 to 100 mPas.



### Technical Specifications

Drop On Demand 3D Printing	
<b>Dispensed Volume</b>	Single droplets: 20 to 380 pl ; Max. Liquid Throughput: 1µl / s
<b>Permissible liquid Viscosity</b>	0.4 to 100mPas
<b>Nozzle Diameter</b>	70 µm
Granules 3D Printing	
<b>Granules Size</b>	< 3 mm
<b>Build Plate &amp; Max Plate Temperature</b>	Heated aluminium build plate with magnetic holding / 110° C
<b>Heated Bed Material</b>	Silicone
<b>Supported Materials</b>	poly (methyl methacrylate) (PMMA, acrylic) polycarbonate (PC), polystyrene, liquid silicone, e.g., in the form of flexible resins
<b>Nozzle Diameter</b>	0.4 mm (Default), 0.2/ 0.6/ 0.8/ 1.0 mm (Available)
<b>Max Nozzle Temperature</b>	300°C
<b>Power requirement</b>	220 VAC, 5A, 50 Hz
<b>Training &amp; Installation</b>	2 Days training session will be provided to the concern person & team by Certified trainer
<b>Warranty</b>	Standard on-site comprehensive warranty for one year (Option for Warranty Extension)
Model Number	
<b>Drop On Demand &amp; Granules 3D Printer</b>	<b>Model # POLY-OPT-3D</b>