Inano3Dprint

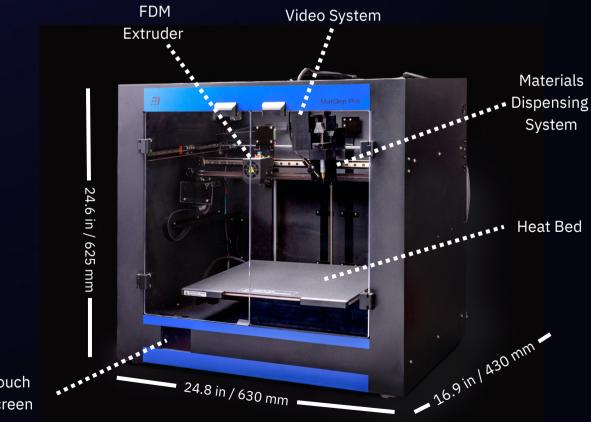
MatDep Pro 3D Printer Datasheet

The MatDep Pro is more than just a 3D printer; it's a dynamic platform that unleashes your creativity and empowers you to engineer advanced applications with a multitude of multimaterials, including functional pastes and inks.

This cutting-edge direct-write machine sets new standards in versatility and precision by harnessing the power of two print head assemblies that move independently. Effortlessly 3D print plastics (Fused Deposition Modeling materials like ABS and PLA) using the extruder while introducing highly conductive nano-particle inks (Au, Ag, etc.), versatile pastes (silicone, polymers, etc.), resistive, dielectrics, magnetic, thermo-electric, photovoltaic, graphene solutions, and more through the materials dispensing system.

The pinnacle of precision lies in our ultra-reliable positive displacement print head. It boasts accurate metering of functional inks, ranging from viscosities as low as 1 mPa·s to as high as 54000 mPa·s. Achieve a 200-micron resolution or 100-micron resolution with specialty nozzles.

Seamlessly switch between materials, achieve exceptional accuracy, and explore diverse printing possibilities.



Touch Screen

MatDep Pro Specifications

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FEATURES			
Extrusion/Dispensing	Single 1.75 mm FDM (Extrusion Position 1) with Materials Dispensing System (Dispensing Position 2)		
Independent Motion	The extruder and materials dispensing system assemblies move independently. Both print heads are automatically wiped cleaned after use.		
Continue Printing After Power Cut	Yes		
Industrial Linear Guide	Stable and precise movement control		
Connectivity	USB/SD and Card/WiFi		
MATERIALS DISPENSING SYSTEM			
Curring a Cine	3 ml		

Syringe Size	3 ml
Nozzle Size	14 to 30 Ga (1.6 mm to 150 μm) Higher Resolution Available: 30 Ga, 32 Ga, 34 Ga
Materials Support	Functional Pastes and Inks, Conductive Nano- Particle Inks, Resistive, Dielectrics, Magnetic, Thermo-Electric, Photovoltaic, and Graphene Solutions

FDM EXTRUDER

Extruder Size	0.4 mm (1.75 mm filament)
Materials Support	PLA, ABS, PETG, POM, Nylon (PA), PC, Carbon Fiber filament, Dissolvable filament (PVA, HIPS), and Flexible filament (TPU, PLA+)

SOFTWARE					
Compatible with Simpl		ify3D, Repetier-Host, Cura, and Makerware			
File Format		STL and GCODE			
Operating System		Windows, Mac, Linux			
BUILD					
Build Volume		360 x 250 x 200 mm 14.17 x 9.84 x 7.87 inches			
Stage Material		Flexible Magnetic Build Mat			
Extrusion Layer Thickness		0.1-0.3mm			
Positional Accuracy		XY axis: 0.011 mm Z axis: 0.0025 mm			
Extruder Diameter		0.4 mm			
Max. Extruder Flow Rate		24 cc/hour			
Printing Speed		20-200 mm/s			
Bed Temperature		Max 120°C			
Printing Temperature		Max 260°C			
Machine Dimensions		630 x 430 x 625 mm			
Machine Weight		~ 92.5 lbs.			