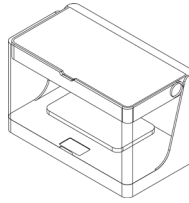
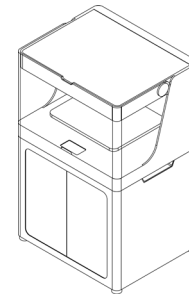


# Markforged Composite Printer Comparison



## DESKTOP SERIES

Reliable entry level machines  
Accurate parts with good surface finish  
Prints with standard materials



## INDUSTRIAL SERIES

Industrial grade machines with large build envelope  
Superior accuracy, resolution, and speed  
Full industrial material portfolio

	Onyx One	Onyx Pro	Mark Two	X3	X5	X7	
<b>Process</b>							<b>Material Variety</b>
Fused Filament Fabrication	x	x	x	x	x	x	
Continuous Fiber Reinforcement		x	x		x	x	
<b>Base Materials</b>							
Onyx (Micro carbon fiber filled nylon)	x	x	x	x	x	x	
Onyx FR				x	x	x	
Nylon			x			x	
<b>Continuous Fibers</b>							
Continuous Fiberglass		x	x		x	x	
Continuous Carbon Fiber			x			x	
Continuous HSHT Fiberglass			x			x	
Continuous Kevlar®			x			x	
<b>Features</b>							<b>Automation + Usability</b>
Adaptive Bed Leveling				x	x	x	
Fiber Jam Detection		x	x		x	x	
Out-of-Plastic Detection	x	x	x	x	x	x	
Out-of-Fiber Detection					x	x	
Turbo Print (up to 4x faster)						x	
In-Process Laser Inspection*						x	
<b>Hardware</b>							<b>Part Quality</b>
Build Volume	320 x 132 x 154 mm (12.6 x 5.2 x 6.0 in)			330 x 270 x 200 mm (13.0 x 10.6 x 7.9 in) (2.7x larger)			
Bed Flatness	Flat to within 160 µm; Kinematic coupling			Flat to within 80 µm; Kinematic coupling			
Best Z Resolution	100 µm			50 µm			
Supports	Same material peel away; Turbo supports available (supports print 2x faster)						
Infill	Closed-cell infill; Multiple geometries available						
<b>Specifications</b>							<b>+</b>
Storage	Cloud or Local included; On-Premise available						
Security	Two-factor authentication; Org admin access; Single sign-on						
Power	100-240 VAC, 150W (2A peak)						
Weight	16 kg (35 lb)			48 kg (106 lb)			
Footprint	584 x 330 x 355 mm (23 x 13 x 14 in)			584 x 483 x 914 mm (23 x 19 x 36 in)			

\*accuracy of Z = 1 µm, XY = 25 µm