



3D PRINTING WITH PELLETS - ADVANCED MATERIALS



www.tumaker.com



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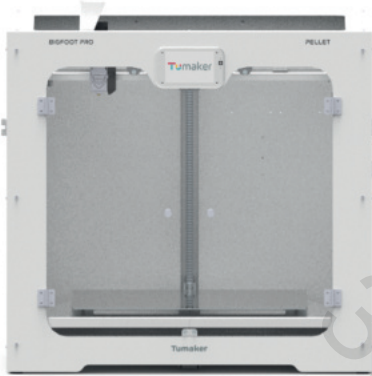
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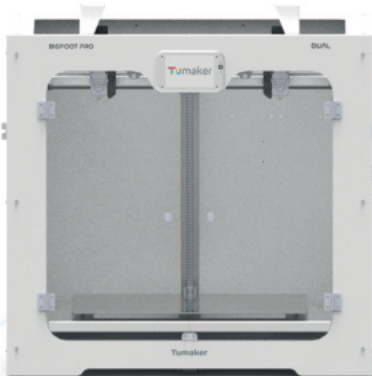
Professional Pellet 3D Printers

1 Pellet extruder - Tumaker 3D Printer



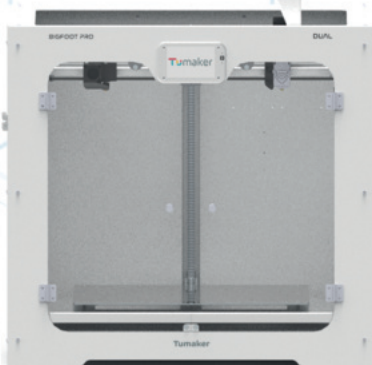
Technical specifications	NX Pro Pellets	BIGFoot Pro 350 Pellets	BIGFoot Pro 500 Pellets
Build Volume (mm)	295 x 185 x 200	500 x 470 x 350	500 x 470 x 500
3D Printer size (mm)	550 x 440 x 410	860 x 720 x 660	860 x 720 x 810
Nozzle diameter (mm)	0.4 - 0.6 - 0.8 - 2.0 - 4.0 - 5.0 mm		
Layer resolution (µm)	10 µm		
temperature	Heated Bed: 100 °C / Extruder temperature: 300 °C *		
Build Plate Leveling	Automatic		

2 Pellet extruder - Tumaker Pro Dual



Technical specifications	NX Pro Dual Pellets	BIGFoot 350 Pro Dual (Pellet - Pellet)	BIGFoot 500 Pro Dual (Pellet - Pellet)
Build Volume (mm)	250 x 185 x 200	480 x 470 x 350	480 x 470 x 500
Dual 3D Printing (mm)	205 x 185 x 200	455 x 470 x 350	455 x 470 x 500
Mirror 3D Printing (mm)	147 x 185 x 200	250 x 470 x 350	250 x 470 x 500
Nozzle diameter (mm)	0.4 - 0.6 - 0.8 - 2.0 - 4.0 - 5.0 mm		
Layer Resolution	10 µm		
Temperature	Heated Bed: 100 °C / Extruder temperature: 300 °C *		
Build Plate Leveling	Automatic		

Pellet + Direct Drive HR - Tumaker Pro Dual



Technical specifications	NX Pro Dual Pellets-HR	BIGFoot 350 Pro Dual (Pellet - HR)	BIGFoot 500 Pro Dual (Pellet - HR)
Build Volume (mm)	290 x 185 x 200	490 x 470 x 350	490 x 470 x 500
Dual 3D Printing (mm)	280 x 165 x 200	475 x 450 x 350	475 x 450 x 500
Mirror 3D Printing (mm)	147 x 185 x 200	250 x 470 x 350	250 x 470 x 500
Nozzle diameter (mm)	Direct Drive HR: 0.25 - 0.4 - 0.6 - 0.8 Pellet: 0.4 - 0.6 - 0.8 - 2.0 - 4.0 - 5.0		
Layer Resolution	10 µm		
Temperature	Heated Bed: 100 °C / Extruder temperature: 300 °C *		
Build Plate Leveling	Automatic		

* High Temperature Kit available: Up to 450 °C

Pellet Materials List

Material	Commercially Available
ABS	Smart Materials
ABS Fireproof (FP)	Smart Materials
PA12 30% CF	Polyram - PD304R6GR3D
ASA	Smart Materials
Inox 316L	Catamold 316
LDPE	LARP PE A3001
Nylon	Perflex Flexynylon
PA6 + 30% GF	Grilon BK-360
PA6 + 60% Mo	No
PA6 + CF	AKROMID® B3 ICF 30 9 AM
PC	Makrolon® - SmartMaterials
PC + 20% CF	Sabic ER008748
SiC	Nanovia SiC
PC + PBT	Sabic -VALOX 357U
PC/ASA	Repsol PC/ASA RAL 70447
PC/PBT	BESTPOLUX PCTHC-1/02 (PC/PBT)
PCL	Sigma-Aldrich/Merck
ABS 10% CF	Polyram - PV3003R2GR3D
INOX 316	Nanovia INOX 316
PETG Magnetic	Smart Materials
PETG	Smart Materials
PLA	Sigma-Aldrich, Smart Materials
PLA + Ag NPs	SmartMaterials
PLA + Biofast	No
PLA + WOOD	SmartMaterials
PLA 850	SmartMaterials
PLA 870	SmartMaterials
PP	Braskem FL105PP / Repsol
PP + 30% CF	Braskem / Polyram
PC-PTFE	Nanovia
PP GF	Repsol

Material	Commercially Available
PVA	SmartMaterials
PVC	GYS 665/024 CRISTAL
SAN	Tyrit 790
SEBS Sh18A	Kraiburg TPE
SEBS Sh25A	Kraiburg TPE
SEBS Sh25A +50% CB	Kraiburg TPE + TIMCAL
SEBS Sh50A	Kraiburg TPE
SEBS Sh50A +50% CB	Kraiburg TPE + TIMCAL
SEBS Sh70A	Kraiburg TPE
SEBS Sh70A +50% CB	Kraiburg TPE + TIMCAL
TPU sh72A	COIM LARIPUR 7025 EG
TPU Sh83A	APILON™ 52 TPU
TPU Sh98A	Bayer - Desmopan DP 3059D
ABS Electroplating	Novodur P2MC
PA 12 + NdFeB (63 vol%)	No
Graphene -PLA	Colfeed4Print
ZnO-PLA	Colfeed4Print
Al2O3-PLA	Colfeed4Print
Graphite-PLA	Colfeed4Print
PA66 + 30% GF	Repsol Dinalon A1S25 G30-0008
TPE Sh30A	Kraiburg TF3CGN
TPE Sh40A	Kraiburg - RC40GG -NRTL
PC	LEXAN COPOLYMER
PC + PTFE	Nanovia
TPE Sh23A	Kraiburg - TC2GPZ (GP/FG Serie)
PVC Sh 67-63 A	ERCROS - EX60001 - 0044
PVC Sh 55 -61 A	ERCROS - EX58230 -9005
TPS-SEBS Sh20A	Dryflex 500200 - HEXPOL
TPS-SEBS Sh30A	Dryflex 500300S - HEXPOL
PEKK - CF	Nanovia
PVDF	Nanovia

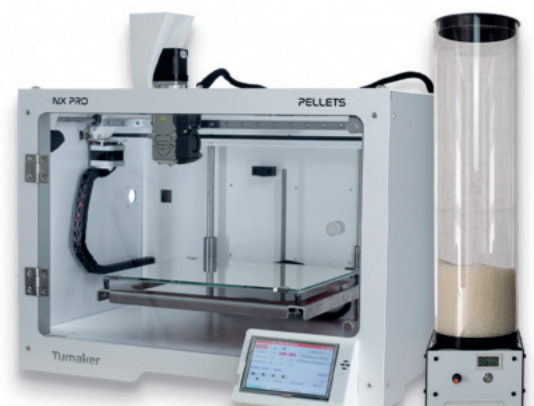
Automatic Pellet Feeder - Automate your 3D Printing



Direct, continuous and automated feeding of the Tumaker pellet extruder. It achieves the highest level of **productivity**.

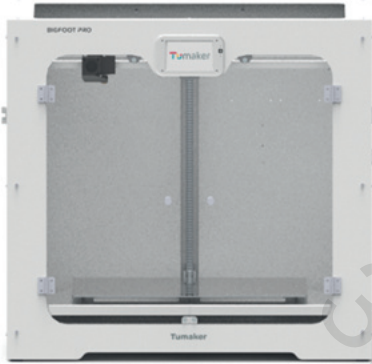


Hopper size: 40cm in height
Diameter: 15 cm
Hopper Volume: 7,06 dm³
Detection Sensor: End-of-Material
Dial info: Temperature and Humidity



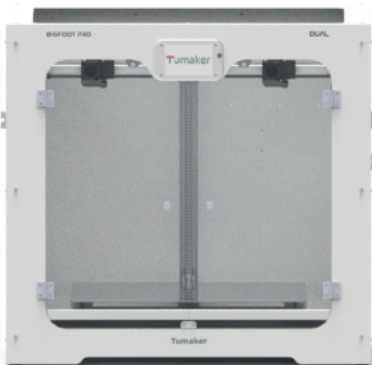
Direct Drive HR 3D Printers

1 Direct Drive HR extruder - Tumaker 3D Printer



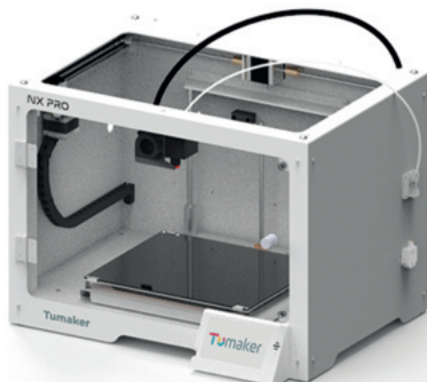
Technical specifications	NX Pro Direct Drive HR	BIGFoot Pro 350 DD HR	BIGFoot Pro 500 DD HR
Build Volume (mm)	295 x 185 x 200	500 x 470 x 350	500 x 470 x 500
3D Printer size (mm)	550 x 440 x 410	860 x 720 x 660	860 x 720 x 810
Nozzle diameter (mm)	0.25 - 0.4 - 0.6 - 0.8 mm		
Layer resolution (µm)	10 µm		
Temperature	Heated Bed: 100 °C / Extruder temperature: 300 °C		
Build Plate Leveling	Automatic		

2 Direct Drive HR extruder - Tumaker Pro Dual



Technical specifications	NX Pro Dual DD HR	BIGFoot 350 Pro Dual (DD HR - DD HR)	BIGFoot 500 Pro Dual (DD HR - DD HR)
Build Volume (mm)	270 x 185 x 200	495 x 470 x 350	495 x 470 x 500
Dual 3D Printing (mm)	235 x 185 x 200	475 x 470 x 350	475 x 470 x 500
Mirror 3D Printing (mm)	145 x 185 x 200	250 x 470 x 350	250 x 470 x 500
Nozzle diameter (mm)	0.25 - 0.4 - 0.6 - 0.8 mm		
Layer Resolution	10 µm		
Temperature	Heated Bed: 100 °C / Extruder temperature: 300 °C		
Build Plate Leveling	Automatic		

Optimised Filament 3D Printing



Filament spool holders of:
3.3 kg, 5.6 kg and up to 8 kg

