TUmaker

3D PRINTER PELLETS

Developed with Tumaker technology to offer multiple solutions.

Filament or pellets?

Currently 3D Printing is limited to those materials that exist in filament format. This is a handicap when it comes to the evolution and expansion of the use of 3D printers.

That is why we have decided to go to the origin. **The pellet is the initial form of plastic.** The format from which all filaments are manufactured. Thanks to a new extrusion system developed by our engineers, we can print directly with the Pellets. In this way we fully open the range of printing possibilities.

Thanks to this exclusive t**echnology, we are able to reach new sectors and get new 3D printing applications.** With our 3D pellet printing we can break the barriers making it possible to print with new materials or with certified and approved materials.

The **3D Pellet printer** allows us faster manufacturing, greater productivity and a **significant cost reduction.**

With the **TUMAKER 3D printers,** IT3D Group offers you the most differential 3D printers on the market. Machines that takes 3D printings to another dimension. **An exclusive and unique machine.** Get the highest printing volume (up to 480x440x500 mm) without the limitation of materials imposed by filaments. And all this with the intrinsic features of the Tumaker brand: **safety, resistance and efficiency.**

A 3D printer that is preceded by the impressive sales success of the **NX Pro Pellets** (285x170x200 mm). A success that has led to the leap from this technology to the renowned **TUMAKER BigFoot** series. A jump widely demanded by our clients.

Finally you can print with the **approved materials** for your sector

Only with 3D printing with pellets can you **work with all those materials that do not exist in the form of a filament.**

Many times the amount of material we need is minimal. For this reason many materials that are used in the industry in a small quantity are not filamented by the high cost that it would entail. However, thanks to the 3D printer with Pellet, we can manufacture with lightweight-weight materials. Materials that are normally the only ones approved for certain sectors of activity.

With **Pellets** you can work with the **material you want**, you will not depend on the filaments anymore.

Increase productivity by avoiding tedious and expensive coil changes

The **3D pellet printers** are the maximum exponent of the automation of the printing process. In the market there are coils of different sizes (up to 8 Kg), but no matter how large the coil is, we always have to make a technical stop for its change. With Pellet 3D printing, we forget this process. The pellet feeds our 3D printer continuously and automatically.

A device truly integrated into our production process.

The pellet is fed continuously and automatically to our 3D printer.

The only **truly multi material** 3D printer on the market

Forget about analyzing the filaments on the market to discover which one is the closest to your usual materials. **With the Pellets 3D printer you can use your own material.**

Thanks to it, you can print with the pellets that you use in your production injection processes. If you belong to a sector that requires **certified and approved materials,** this is your **3D printer.** The only one with which you can work with certified material for your company. Prints with approved materials for the food industry, railway, automotive, medical sector, security...

Research, create and develop new materials that you can use for direct 3D printing on the **3D pellets printers.**

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Break the barriers and use the following materials with our printer

Materials, in the filament process, lose or transform part of their properties. Thanks to the fact that with our 3D pellet printer we work directly with the original materials, they will keep all their properties intact.

Only **with the Tumaker 3D pellet printer will you get the best quality,** the best finish and get the maximum performance from your parts.

PLA	HDPE	PPC 7712
ABS	PC 766M	Grilon BK-30
PETG	PC + CF	PA12 + FERRITE
PVC	TPU A52	VALOX Resin 357X
PA66	TPU <A50	Polypropylene (PP)
FLEX A93	Catmold	ABS + CFPP + Load
WOOD	Ultem	PA12 + NEODYMIUM
Mineral	Peek	

The **3D Printers** are designed from the ground up **for professional use.** Machine that includes a head of its own design with a double integrated temperature sensor and that is capable of reaching up to **350 degrees.** An ingenious solution that will allow you to print safely with advanced technical materials. A head that **incorporates the ultra-fast change** of nozzles from the entire Tumaker range, with approved nozzle thicknesses of 0.4 – 0.6 – 08 mm to choose the finish and resistance you prefer. In addition, we will soon have approved 2-3-5 mm nozzles to take 3D printing to its next level, **achieving high-resistance industrial parts, exponentially shortening printing times.**
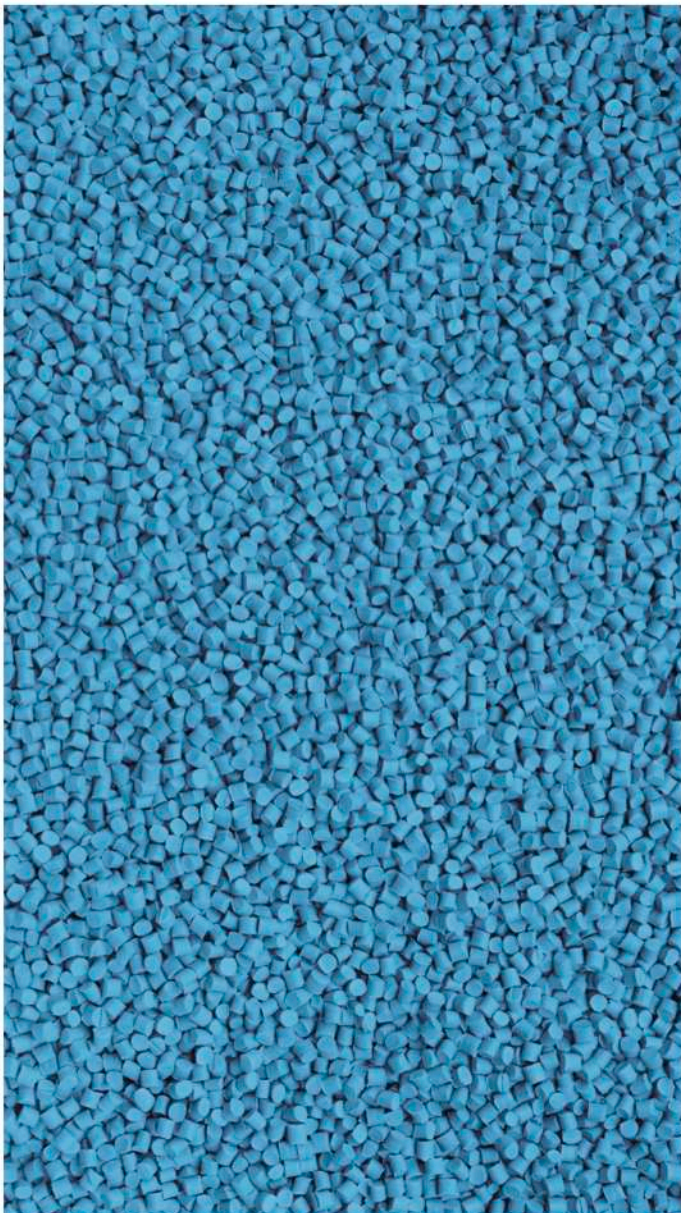
Innovation and reliability

A new board with a high-performance 32-bit processor has been implemented in the **TUMAKER 3D printer** that maximizes print quality and optimizes performance. And all this with the **professional** solutions of the entire Tumaker range: real integration with your company network, use of professional Simplify 3D software and state-of-the-art industrial mechanics.

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Why choose the pellets 3D printer?

Choosing the **Pellets 3D Printer** is very simple because it is a unique printer on the market. You will not find anything like it.

-Print with the material you want: you can print with materials that you will not find in filament spools, with your own material or with certified and approved materials, with working temperatures of up to 350 degrees.

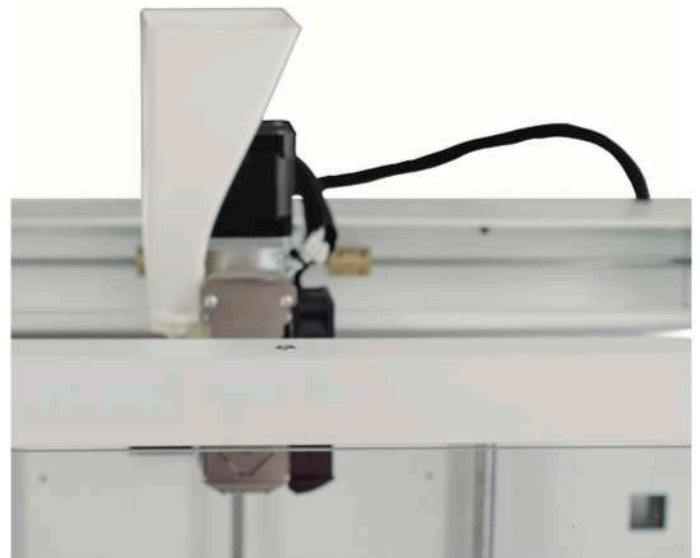**-Efficiency:** with the 32-bit processor you ensure print stability and increase print speed.

Work environment: ultra-quiet movements thanks to the innovative TMC2660 drivers.

Comprehensive connectivity: WIFI, SD card and 5" full color touch screen.

Reliable impressions: continuous semi-automatic calibration system. After initial calibration is done, the printhead takes a build base measurement, and during printing this is automatically corrected without manual adjustments.

-Quality prints: thanks to the combined use of Simplify3D software and the different nozzle diameters that can be worked with.

-Increase your productivity: with the accelerated heating system of your printing base, the direct use of pellets without having to load the filament and the quick change of nozzles, do not waste time in previous preparations.

-Protection at work: safety lock

-Choose the print volume that best suits your needs:
– 480x440x500 mm
– 480x440x350 mm
– 480x440x200 mm

Tumaker NX Pro Pellets

Printing Volume
290x180x200 mm

Package Size
605x501x500 mm

Printer Size
550x440x460 mm

Package Weight
33 kg

Printer Weight
31 kg

Materials in pellet format
PLA, ABS, PETG, FLEX A93, WOOD, ABS + CF, PC, PA12 + FERRITE, PA12 + NEODYMIUM, Polypropylene (PP), PP + Mineral Filler, HDPE, PC 766M, PC + CF, PVC, TPU A52, TPU <A50, PA66, Catamold, Ultem, Peek, Grilon BK-30, VALOX Resin 357X, PPC 7712...

Nozzle
Nozzle Diameter: 0.4 – 0.6 – 0.8 – 1.2 mm
Nozzle temperature: 180ºC – 350ºC
Two temperature control points

Resolution
Layer resolution: 10µm
Maximum Layer Height:

1,2 nozzle: 0,9mm
0,8 nozzle: 0.6mm
0,6 nozzle: 0,48mm
0,4 nozzle: 0,3mm

Heated bed:
45º – 150º
Build Plate Leveling:
        -Manual
        -Semi-Automatic

Energy
Energy Smart Management
Power Rating: 950W
Noise Level: 44 dB
(closed door, 40dB)

Compatibility
Display: 5" color touch screen
Control devices: PC, tablet, Smartphone.
Control mode: Web

Software
Software Profesional Simplify3D

Warranty
1 Year Limited Warranty

Connectivity
Connected to the internet
Connectivity: USB, Wifi

Tumaker

BIGFoot Pellets 200

Printing Volume
480x440x200 mm

Printer Size
750x760x510 mm

Package Size
870x890x840 mm

Printer Weight
68 kg

Package Weight
100 kg

Materials in pellet format:
PLA, ABS, PETG, FLEX A93, WOOD, ABS + CF, PC, PA12 + FERRITE, PA12 + NEODYMIUM, Polypropylene (PP), PP + Mineral Filler, HDPE, PC 766M, PC + CF, PVC, TPU A52, TPU <A50, PA66, Catamold, Ultem, Peek, Grilon BK-30, VALOX Resin 357X, PPC 7712...

Nozzle
Nozzle Diameter: 0.4 – 0.6 – 0.8 – 1.2 mm
Nozzle temperature: 45ºC – 350ºC
Two temperature control points

Resolution
Layer resolution: 10µm
Maximum Layer Height:
1,2 nozzle: 0,9mm
0,8 nozzle: 0.6mm
0,6 nozzle: 0,48mm
0,4 nozzle: 0,3mm

Warm bed
Heated Bed: 45º – 150ºC
Build Plate Leveling:
        -Semi-Automatica
        -Manual
Non operating Temperature: 5º-45ºC
Heatbed heat up time at 20º: 40ºC – 0'30" / 60ºC – 1'00" / 80ºC – 1'45" / 100ºC – 3'00"

Energy
Energy Smart Management
Power Rating: 950W
Noise Level: 44 dB
(Closed door, 40dB)

Compatibility
Display: 5" color touch screen
Control devices: PC, tablet, Smartphone
Control mode: Web

Software
Software profesional Simplify3D

Warranty
1 Year Limited Warranty

Connectivity
Connected to the internet
Connectivity: USB, Wifi

Tumaker

BIGFoot Pellets 350

Printing Volume
480x440x350 mm

Printer Size
750x760x660 mm

Package Size
870x890x990 mm

Printer Weight
75 kg

Package Weight
120 kg

Materials in pellet format:
PLA, ABS, PETG, FLEX A93, WOOD, ABS + CF, PC, PA12 + FERRITE, PA12 + NEODYMIUM, Polypropylene (PP), PP + Mineral Filler, HDPE, PC 766M, PC + CF, PVC, TPU A52, TPU <A50, PA66, Catamold, Ultem, Peek, Grilon BK-30, VALOX Resin 357X, PPC 7712...

Nozzle
Nozzle Diameter: 0.4 – 0.6 – 0.8 – 1.2 mm
Nozzle temperature: 45ºC – 350ºC
Two temperature control points

Resolution
Layer resolution: 10µm
Maximum Layer Height:
1,2 nozzle: 0,9mm
0,8 nozzle: 0.6mm
0,6 nozzle: 0,48mm
0,4 nozzle: 0,3mm

Warm bed
Heated Bed: 45º – 150ºC
Build Plate Leveling:
    -Semi-Automatica
    -Manual
Non operating Temperature: 5º-45ºC
Heatbed heat up time at 20º: 40ºC – 0'30" / 60ºC – 1'00" / 80ºC – 1'45" / 100ºC – 3'00"

Energy
Energy Smart Management
Power Rating: 950W
Noise Level: 44 dB
(Closed door, 40dB)

Compatibility
Display: 5" color touch screen
Control devices: PC, tablet, Smartphone
Control mode: Web

Software
Software profesional Simplify3D

Warranty
1 Year Limited Warranty

Connectivity
Connected to the internet
Connectivity: USB, Wifi

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BIGFoot Pellets 500

Printing Volume
480x440x500 mm

Printer Size
750x760x810 mm

Package Size
870x890x1140 mm

Printer Weight
82 kg

Package Weight
140 kg

Materials in pellet format:
PLA, ABS, PETG, FLEX A93, WOOD, ABS + CF, PC, PA12 + FERRITE, PA12 + NEODYMIUM, Polypropyl-ene (PP), PP + Mineral Filler, HDPE, PC 766M, PC + CF, PVC, TPU A52, TPU <A50, PA66, Catamold, Ultem, Peek, Grilon BK-30, VALOX Resin 357X, PPC 7712...

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Nozzle Diameter: 0.4 – 0.6 – 0.8 – 1.2 mm
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Warm bed
Heated Bed: 45° – 150ºC
Build Plate Leveling:
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Non operating Temperature: 5°-45ºC
Heatbed heat up time at 20°: 40°C – 0'30" / 60°C – 1'00" / 80°C – 1'45" / 100°C – 3'00"

Energy
Energy Smart Management
Power Rating: 950W
Noise Level: 44 dB
(Closed door, 40dB)

Compatibility
Display: 5" color touch screen
Control devices: PC, tablet, Smartphone
Control mode: Web

Software
Software profesional Simplify3D

Warranty
1 Year Limited Warranty

Connectivity
Connected to the internet
Connectivity: USB, Wifi

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