

THINKING ADDITIVE

Professional 3D printers

Established systems in continuous evolution



About us and what we do

Concrete support for industry

3ntr is a brand of Jdeal-Form, a manufacturing company specializing in construction of automatic machines. Founded in 1962, it has distinguished itself in international market through its ability to optimize and produce the best machinery in-house to innovate production lines. The first 3D printer with FDM technology was born in 2013, along with the 3ntr brand, precisely with the aim of facilitating in-house production, thus making up for delays due to external supplies.

3ntr is now a globally recognized brand, a certified and reliable manufacturer of additive manufacturing systems for industry, with an established worldwide distribution network and growing qualified partners.

We develop 3D printing systems that work

#NoToysHere

Although it seems reductive in the end, that's all it is: 3ntr offers reliable systems to market-leading companies and small and medium-sized enterprises with ambitious projects and goals. The range of FDM 3D printers varies in size and printing capacity. True modular systems with dryers and intuitive interface software for complete management of the printing process.

The systems are robust and reliable with 24/7 non-stop operation and provide excellent return on investment.





What we can do for you

We put the power in your hands: thinking additive!

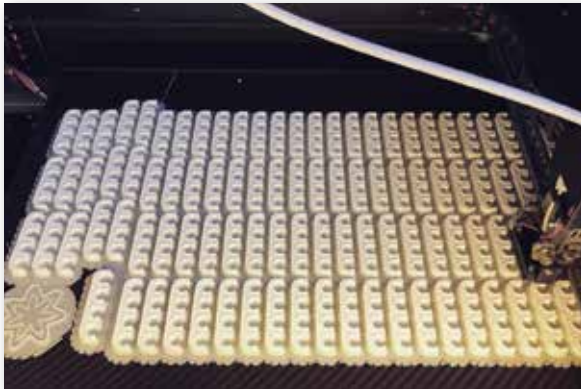
We help you develop your design and improve your production creatively, through skillful use of additive technology, without locking you into a forced choice. Our wide range of solutions and applications with an open approach, guarantees you the possibility of printing even with non-proprietary polymers, co-molding and optimization for new production solutions, and maximum freedom to control and manage your project.

3ntr's values and goals

We respect your work

We are committed to providing reliable and durable industrial 3D printing systems. We always maintain a focus on customer needs by evolving our systems as the market changes. We listen to feedback from those who use our 3D printers, constantly working to make a real contribution to the growth of manufacturing enterprises. Our globally recognized company operates by holding firmly to the values of ethics and integrity, with the same passion and complicity as a family business.

Versatility



We have proven solutions from leading companies for all applications of rapid prototyping and manufacturing.

Our FDM/FFF printers can use many filaments and are compatible with most 3D printing preparation software.

It is no coincidence that the best chemical industries use 3ntr systems to fine-tune next-generation 3D polymers.

3ntr materials

- ABS
- ABS-ESD
- ABS HD
- ABS Fast
- ABS V0
- AM200 PAEK
- ASA
- Carbon+
- Elasto 85
- Elasto 95
- Elasto HT
- iglidur
- Nylon+
- PC-ABS V0
- PEEK
- PEEK Carbon
- nPower
- nPower Carbon
- Glass+
- PC-ABS
- PETG
- PLA
- ULTEM™ 1010F
- ULTEM™ 9085F
- zWAX

Fields

- Aerospace
- Automotive
- Automation
- Footwear
- Sports Helmets
- Cycling
- Chemical
- Design
- Defence
- Appliances
- Industrial Electronics
- Fitness
- Photography
- Packaging
- Machine Tools
- Medical
- Motorcycle
- Oil & Gas
- Orthopaedics
- Leather goods
- Racing
- Industrial Radiology
- Surgical Instruments
- Universities and research centres

Ease of use

Preparation for printing

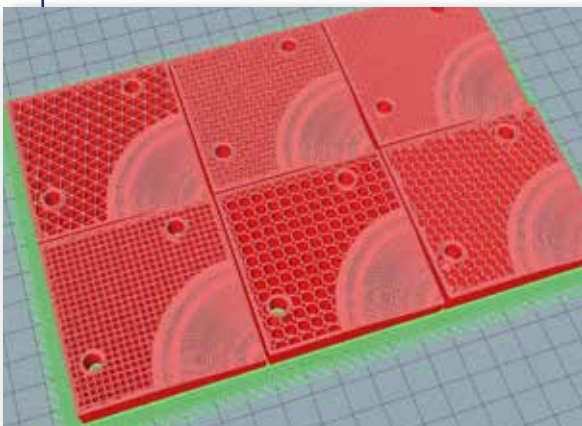
The new version of the SSI 2024 software represents the perfect solution for preparing printing, a complete software capable of accompanying the user to the final result in a few simple steps.

The program includes several bug fixes, compared to version 2.1. It updates automatically every morning, allowing the user to always work with the latest printing parameters.

3ntr printers can be managed locally from all over the world by connecting them via print server. We also have soluble and/or mechanically removable supports, the development and constant improvement of solutions and systems are one of our strengths.

To print complicated objects, with undercut parts, we have widely tested solutions for all the polymers in our catalogue.

New release schedule planned functions	Yes
Scene hierarchy	multiple copies, with inheritance
Scene format	*.3mf (open)
File formats	Stl, 3mf, Step, IGES
Fills	Linear Octagonal Rounded Cellular Triangular Cubic Hexagonal Gyroidal Grid Tubular Schwartz D
Layer thickness	For each object
Fill (type and density)	For each object
Support	For each object
Style	For each object
Face support	Yes
New format purge turret	Yes
Optimized positioning	Nesting
Compatible keystroke	SWX
Spacemouse compatible	Yes
User profile editor and compatibility	Yes
Source code	100% 3ntr
Light/dark theme	Yes
Integrated printer management	Yes (improved)
Full TDS online	Yes
Full MSDS online	Yes



Precision

Functional Parts

To test a project, or to mass produce, 3ntr machines work 24/7 without interruption.

No compressed air or conditioned environment is needed.



Dimensional Stability

The complete control of all thermal printing parameters, allows obtaining planar objects of excellent quality, even of significant size.

No other machine prints ABS like a 3ntr!



Drying

Powerful and smart: VENTO is the dryer unit that combines ease of use with the most efficient control technologies.



Uniqueness

Multimaterial printing

By being able to co-print different materials thanks to the 3 extruders, products with innovative features can be made.

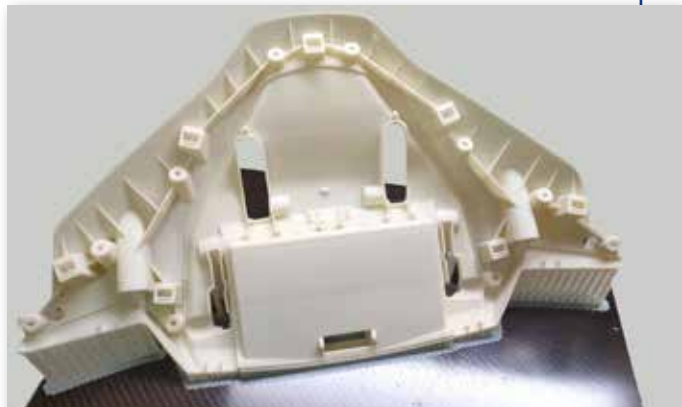
For example: gears with integral bushings, covers with built-in seals, two-tone parts, rubber objects of different hardness, and more.



Large format

Our A2v4 was developed from the beginning to print polymers in a hot chamber to avoid warping, cracking and delaminating in order to be sure of getting planar parts.

Be wary of imitations!



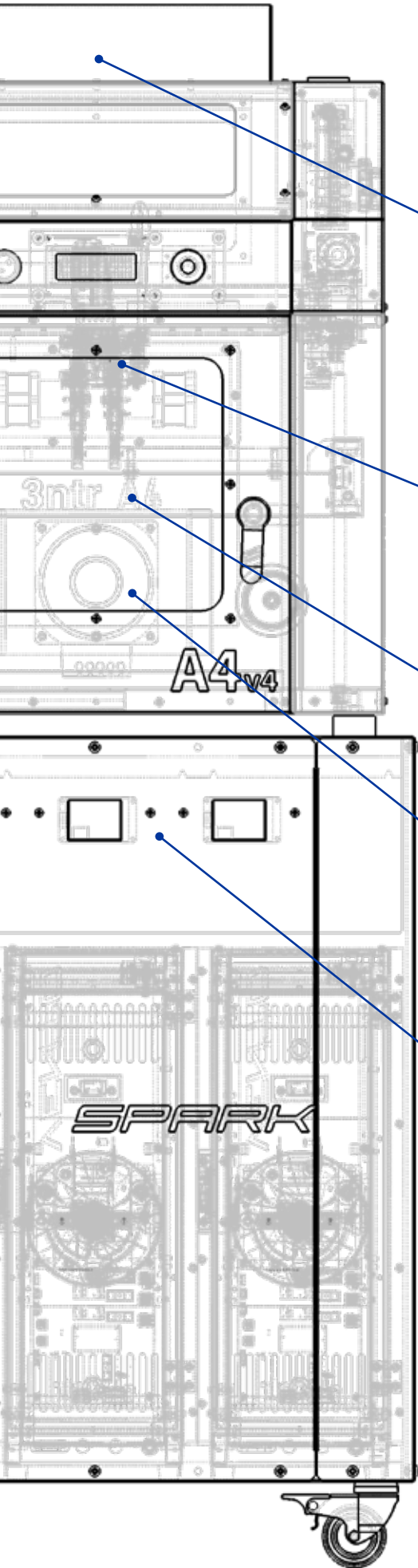
Air filter

All our printers are prepared to be equipped with absolute filters (HEPA) + activated carbon to remove odors and particulates from the work environment.

Strongly recommended if the machines are in office environments.



A4v4



● Printing Elastomers via SPFU

Don't limit yourself to just a few materials, with the Soft Polymer Feeder Unit you can fully manage elastomers to create flexible patterns, O-rings or gaskets already integrated into the geometry and co-printed with rigid materials such as ASA, PACF, ABS one shot.

● Multi-material 3-nozzle printing

Why limit yourself to a few materials when you can have many more at your disposal? Make products with functional features that fit your production through the ability to co-print up to three different materials.

● Carbon plate

Perfect and safe result.

Carbon technology allows easy release of the material without damaging it and without the use of any chemicals.

● Thermal stability

















Get the most out of your products with a true heated chamber that allows for homogeneity and better tolerances in a single printing process. Thermal stability of extruders ensure unparalleled industrial performance.

● 24/7 tested

Remotely monitor printing activities wherever you are. Printers are designed for maximum freedom of 24/7 control and management.

A4_{v4}

Data sheet

	Max print volume	296 x 191 x 200 mm (2 extruders) 296 x 167 x 200 mm (3 extruders)
	Nozzles	2/3
	Max nozzle temperature	450 °C
	Max chamber temperature	90 °C
	Max plate temperature	160 °C
	Hot chamber	296 x 167 x 200 mm
	Removable plates	Yes (carbon tray diamond)
	XY mechanical precision	0,011 mm
	Usable polymers	ABS ABS-ESD ABS HD ABS FAST ABS V0 PC-ABS PC-ABS V0 PETG PLA ASA Elasto 85 Elasto 95 Elasto HT zWAX iglidur Nylon+ GLASS+ nPOWER Carbon Carbon+ nPOWER
	Print elastomers	Yes (opt.)
	MIN / MAX thickness	0,1 / 0,6 mm
	Software and operative systems	SSI 2024 on Windows 32/64
	Network connection	Optional/Print server
	Certifications	CE
	Peak current	5 A / 230 V
	Dimensions and weight	528 (L) x 515 (W) x 615 (H) mm Weight: 43 kg



A4sp

Prepared for high performance Super Polymers.



● Printing Elastomers via SPFU

Don't limit yourself to just a few materials, with the Soft Polymer Feeder Unit, you can fully manage elastomers to create flexible models, O-rings or gaskets already integrated into your geometry co-printed with rigid materials such as ASA, PACF, ABS one shot.

● Liquid cooling

Extruder temperature is kept constant by a liquid cooling system for unparalleled thermal stability and efficiency.

● 3 nozzles

Multiple polymers in one printing process. Give yourself the ultimate freedom to create, experiment, research. You think, A4SP produces.

● Carbon plate

Perfect and safe result. Carbon technology allows easy release of the material without damaging it and without the use of any chemicals.

● Thermal stability

















Get the most out of your products with a true heated chamber that enables homogeneity and improved tolerances in a single printing process. Thermal stability of extruders ensures unparalleled industrial performance.

● 24/7 tested

Remotely monitor printing activities wherever you are. The printers are designed for maximum freedom of 24/7 management.

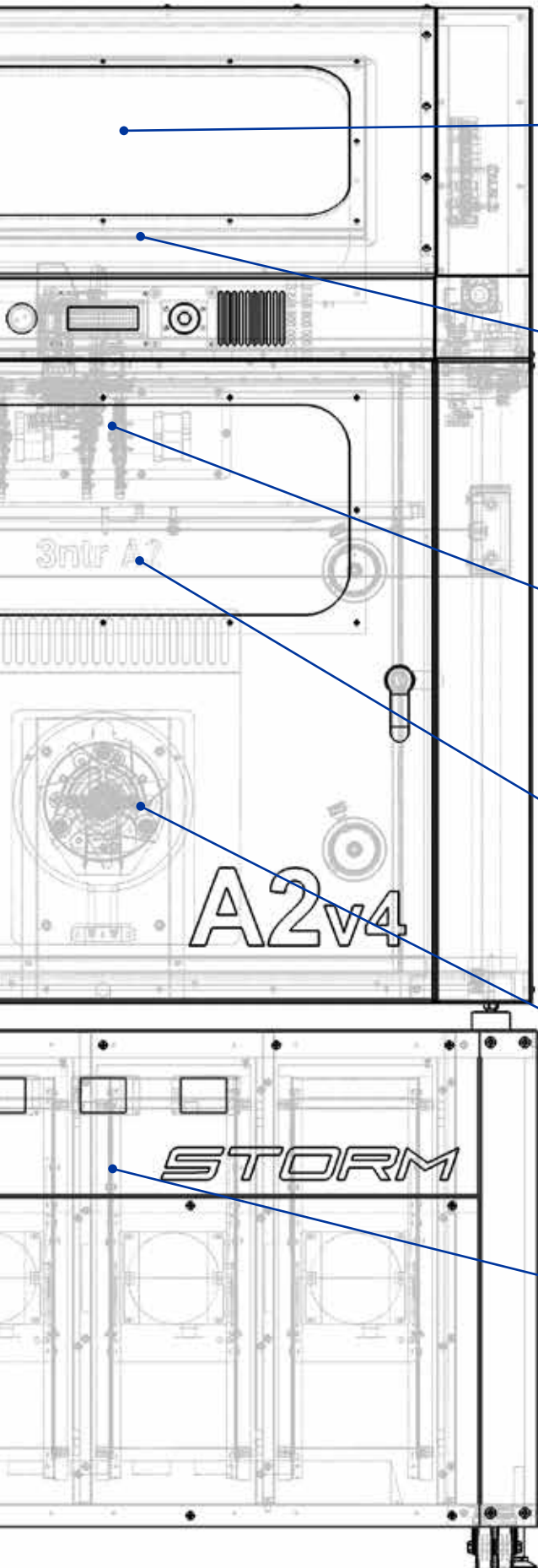
A4SP

Data sheet

	Max print volume	296 x 167 x 200 mm
	Special nozzles	3 (2 x 1.75 mm + 1 x 2.85 mm)
	Max nozzle temperature	450 °C
	Max chamber temperature	90 °C
	Max plate temperature	160 °C
	Hot chamber	296 x 167 x 200 mm
	Removable plates	Yes (carbon tray diamond)
	XY mechanical precision	0,011 mm
	Usable polymers	ABS ABS-ESD+ ABS HD ABS FAST ABS V0 PC-ABS PC-ABS V0 PETG PLA ASA Elasto 85 Elasto 95 Elasto HT zWAX iglidur Nylon+ Glass+ nPOWER Carbon Carbon+ nPOWER AM200 PAEK
	Print elastomers	Yes (opt.)
	MIN / MAX thickness	0,1 / 0,6 mm
	Software and operative systems	SSI 2024 su Windows 32/64
	Network connection	Print server
	Certifications	CE
	Peak current	5 A / 230 V
	Dimensions and weight	528(L) x 515(P) x 615(H) mm Weight: 43 kg



A2v4



● Large format

Printing in large sizes? No problem.

The high printing area allows you to freely print large and complex formats with different engineering plastics. Get finished parts, ready for your industrial production.

● Print elastomers through SPFU

Don't limit yourself to just a few materials, with the Soft Polymer Feeder Unit, you can fully handle elastomers to create flexible patterns, O-rings or gaskets already integrated into your geometry co-printed with rigid materials such as ASA, PACF, ABS one shot.

● Multi-material 3-nozzle printing

Why limit yourself to just a few materials when you can have many more at your disposal? Make products with functional features that fit your production through the ability to co-print up to three different materials.

● Carbon plate

Perfect and safe result. Carbon technology allows easy release of the material without damaging it and without the use of any chemicals.

● Thermal stability


















Get the most out of your products with a true heated chamber that allows for homogeneity and better tolerances in a single printing process. Thermal stability of extruders ensure unparalleled industrial performance.

● 24/7 tested

Remotely monitor printing activities wherever you are. The printers are designed for maximum freedom of 24/7 management.

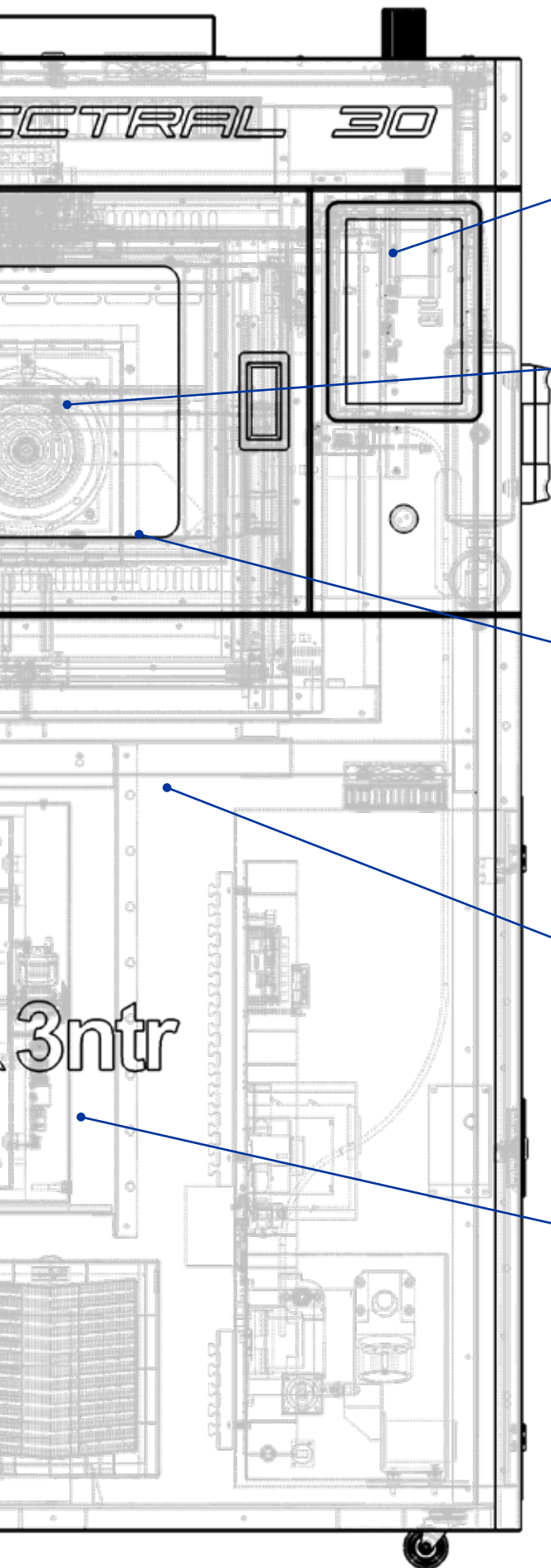
A2v4

Data sheet

	Max print volume	611 x 330 x 500 mm (2 extruders) 611 x 306 x 500 mm (3 extruders)
	Nozzles	2/3
	Max nozzle temperature	450 °C
	Max chamber temperature	90 °C
	Max plate temperature	160 °C
	Hot chamber	611 x 306 x 500 mm
	Drying	1 VENTO drying unit included
	Removable plates	Yes (carbon tray diamond)
	XY mechanical precision	0,011 mm
	Usable polymers	ABS ABS-ESD+ ABS HD ABS FAST ABS V0 PC-ABS PC-ABS V0 PETG ASA Elasto 85 Elasto 95 Elasto HT zWAX iglidur Nylon+ Glass+ nPOWER Carbon Carbon+ nPOWER
	Printing elastomers	Yes (opt.)
	MIN / MAX thickness	0,1 / 0,6 mm
	Software and operative systems	SSI 2024 su Windows 32/64
	Network connection	Print server
	Certifications	CE
	Peak current	10 A / 230 V
	Dimensions and weight	940 (L) x 775 (W) x 1135 (H) mm Weight: 110 kg



SPECTRAL 30



● Careful handling of materials

High-performance engineering plastics require proper care. With effective dryers installed to manage filament drying, you will have a print-ready product in the optimum condition.

● Maximum thermal performance

Get high performance from engineering technopolymers through temperature.

With SPECTRAL 30 you can reach high temperatures in a short time. In addition, the heated plate, hot chamber and high-power liquid cooling will allow you to bring out the best characteristics of individual engineering polymers.

● Continuous monitoring

Simplicity first.

With SPECTRAL 30 you will have the ability to constantly and remotely monitor the printing process. Constant reporting provided by our software, interruption and end-of-roll detection will allow you to work easily and effectively even remotely thanks to the built-in webcam.

● Innovation and compatibility

Forced choices? No thanks.










Handle most of the super polymers on the market with freedom, with no license required. PEEK / PEKK / PEI / PAEK / PPSU and many more, with their respective soluble carriers, can be used for your industrial innovation.

● Drying

Powerful and smart: SPECTRAL 30 integrates 4 VENTO drying units, combining ease of use with the most efficient control technologies.

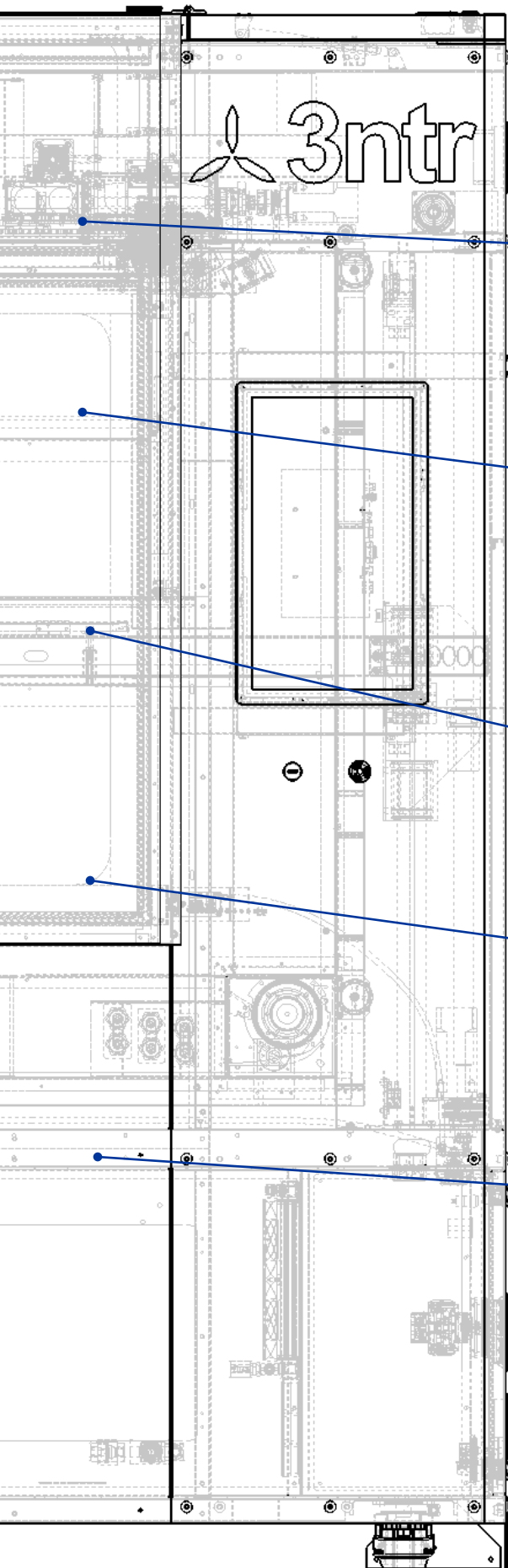
SPECTRAL 30

Data sheet

 Features	<ul style="list-style-type: none">• 4 nozzles with 1.75 mm filament• Nozzle/plate leveling fully automated• Magnetic/vacuum tray holder• High-power liquid cooling• 10" touchscreen• Jam detection• End-of-roll detection
 Temperatures	<ul style="list-style-type: none">• Nozzles: 4 x 500 °C (not suitable for use with elastomers)• Plate: 300 °C• Chamber: 250 °C• No. 4 Dryers: 110 °C
 Hot chamber	296 x 296 x 296 mm
 Drying	4 VENTO drying units (5 kg coils max)
 Usable polymers	ULTEM AM9085F ULTEM 1010F PEEK PEEK Carbon PEKK PAEK PPSU ABS ABS-ESD ABS HD ABS FAST ASA Carbon+ iglidur Nylon+ nPOWER nPOWER Carbon Glass+ PC-ABS
 Mechanical specifications	<ul style="list-style-type: none">• Maximum print volume: 296 x 296 x 296 mm• Positioning accuracy (XYZ): 0,005 mm• Brushless AC motors on XYZ axes
 Network connection	Print server
 Electrical specifications	<ul style="list-style-type: none">• Power supply: 380 V (EU) or 240 V (US) three-phase current• Power consumption: 3.6 A (average), 20 A (line in)• Power dissipation: TBA
 Dimensions and weight	1158 (L) x 882 (W) x 1788 (H) mm Weight: 400 kg



SEQUOIA



● Large format

The largest hot chamber 3D printer for truly BIG formats.

The printing area of more than one square meter allows you to print large monolithic and complex parts with different polymers and technopolymers. Get large parts and small production runs in series.

● 3 nozzle multi-material printing

SEQUOIA allows the co-printing of different materials from different aesthetic and mechanical characteristics inside of a single printing process, thanks to its 3 nozzles. Get functional products of large dimensions or in small quantities, with various combinations of colors and materials.

● Carbon plate

Perfect and safe result. Carbon technology allows easy detachment of material without damaging it and without the use of any chemical agent.

● Thermal stability


















The world's first 3D printer in ultra dimensions, equipped with a real heated chamber that allows for homogeneous prints and better tolerances on large format products. Stability thermal of the extruders guarantees industrial performance without even.

● 24/7 tested

Control your printing activities remotely, wherever you are. The printers are designed for maximum freedom 24/7 management.

SEQUOIA

Data sheet

	Max print volume	1200 x 1100 x 900 mm
	Nozzles	3
	Max nozzle temperature	450 °C
	Max chamber temperature	190 °C
	Max plate temperature	190 °C
	Hot chamber	1200 x 1100 x 900 mm
	Drying	6 VENTO drying units
	Removable plates	Yes (carbon tray diamond)
	XY mechanical precision	0,001 mm
	Usable polymers*	ABS ASA AM200 PAEK PC Carbon+ Nylon+ nPOWER CF ULTEM AM9085F
	Print elastomers	No
	MIN / MAX thickness	0,1 / 1 mm
	Software and operative systems	SSI 2024 on Windows 32/64
	Network connection	Print server
	Certifications	CE
	Peak current	32 A / 380 V
	Dimensions and weight	2297 (L) x 2618 (W) x 2319 (H) mm Weight: 1300 kg



* Materials available as of 31/12/2023.

VENTO

VENTO, the dryer unit that combines ease of use with the most efficient control technologies.

Efficient

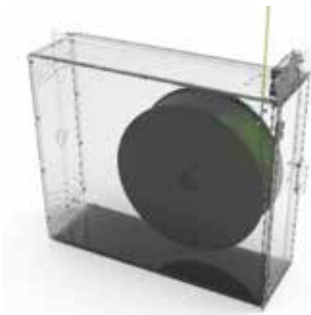
Built to handle any polymer, with drying profiles designed to achieve good results in the shortest time, with less energy. Easy-to-use touch screen offers real-time monitoring of drying parameters!

Powerful

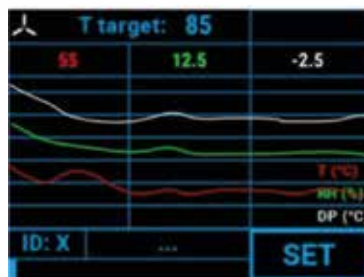
Powerful heater (920 W) to reach drying temperature quickly. Internal parts made of stainless steel, to last a lifetime!

Smart

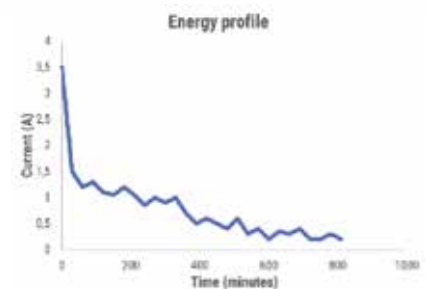
Built-in NFC reader to automatically set parameters for optimal drying. Drying profiles are designed to minimize energy costs.



Compact, it can hold reels up to 5 kg for greater capacity and, consequently, fewer interruptions for reel changes.



Real time information, thanks to the touch screen that allows process parameters to be set, constantly monitoring drying.



Drying profiles are developed for the efficiency of each individual material, **reducing energy consumption**. We care about our planet.

Weight	Voltage	Maximum temperature	Peak power (at 115 °C)	Average power (115 °C)
25 kg	230 V AC	115 °C	920 W	85 W

We reserve the right to change technical specifications without prior notice.

STORM

STORM is the perfect match for A2 3ntr printers: it brings together all the functions needed for uninterrupted service in one elegant package.

- Energy** | Up to 3 kVA to keep the printer and network connections during power outages.
- Control** | A high-performance print server with webcam allows you to control the machine from any location.
- Drying** | Up to three VENTO units to handle the high quality production.
- Safe** | The HEPA/VOC filtration unit will prevent the environmental dissipation of dust and fumes.
- Easy** | All relevant controls are on the front of the unit, within immediate reach.



What it can contain

3 VENTO units + print server + UPS + 1 F1 filter unit

* Total energy requirement Storm unit equipped with three VENTO units - A2v4 printing ABS material. We reserve the right to change specifications without notice.

SPARK

SPARK is the perfect match for A4 3ntr printers: it brings together all the functions needed for uninterrupted service in one elegant package.

- Energy** | Up to 3 kVA to keep the printer and network connections during power outages.
- Easy** | Keep track of drying parameters easily and always within immediate reach.
- Safe** | The possibility of integrating the filter unit, will allow for healthy environments without dissipation of harmful substances.

What it can contain

3 VENTO units

or

2 VENTO units + UPS

2 VENTO units + UPS + 1 F1 filter unit



* Does not provide print server housing.



Official distributor for D/A/CH and South Tyrol

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