



# SIGNAL PRO



**CONTINUOUS  
WIDENING OF PERSPECTIVES**

# ATMAT. WE CREATE A WORLD WHERE CREATIVITY IS THE ONLY LIMIT

Model **ATMAT Signal Pro** is a printer created in response to the expectations of our customers, especially those seeking a device with high performance and, at the same time, which provides excellent quality of work. The equipment stands out due to its:

**Printing precision** - even the smallest element is printed with the highest accuracy.

**Reliability** - it can work continuously for many hours, constantly providing high quality prints.

**Large printing area** - fully flexible, which means you can use it to print small items as well as large ones.

The printer was made using proprietary technology that ensures stability and the high quality of the utilised technical solutions. **The printer is an ideal choice for people starting their adventure with 3D printing, as well as people who work with 3D printing technology every day.** It was designed for those looking for fully professional solutions, who always put high quality in the first place.



S I G N A L P R O

## 2 IN 1

# MODERN AND FUNCTIONAL

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When we designed the **ATMAT Signal Pro** printer, our goal was to provide **functionality and modernity** which our customers can enjoy every day. That is why the device was made of a **solid aluminium frame** providing not only an aesthetic impression, but also certainty of long and trouble-free operation. The materials used to manufacture the **ATMAT Signal Pro** printer make it **robust and extremely precise**.

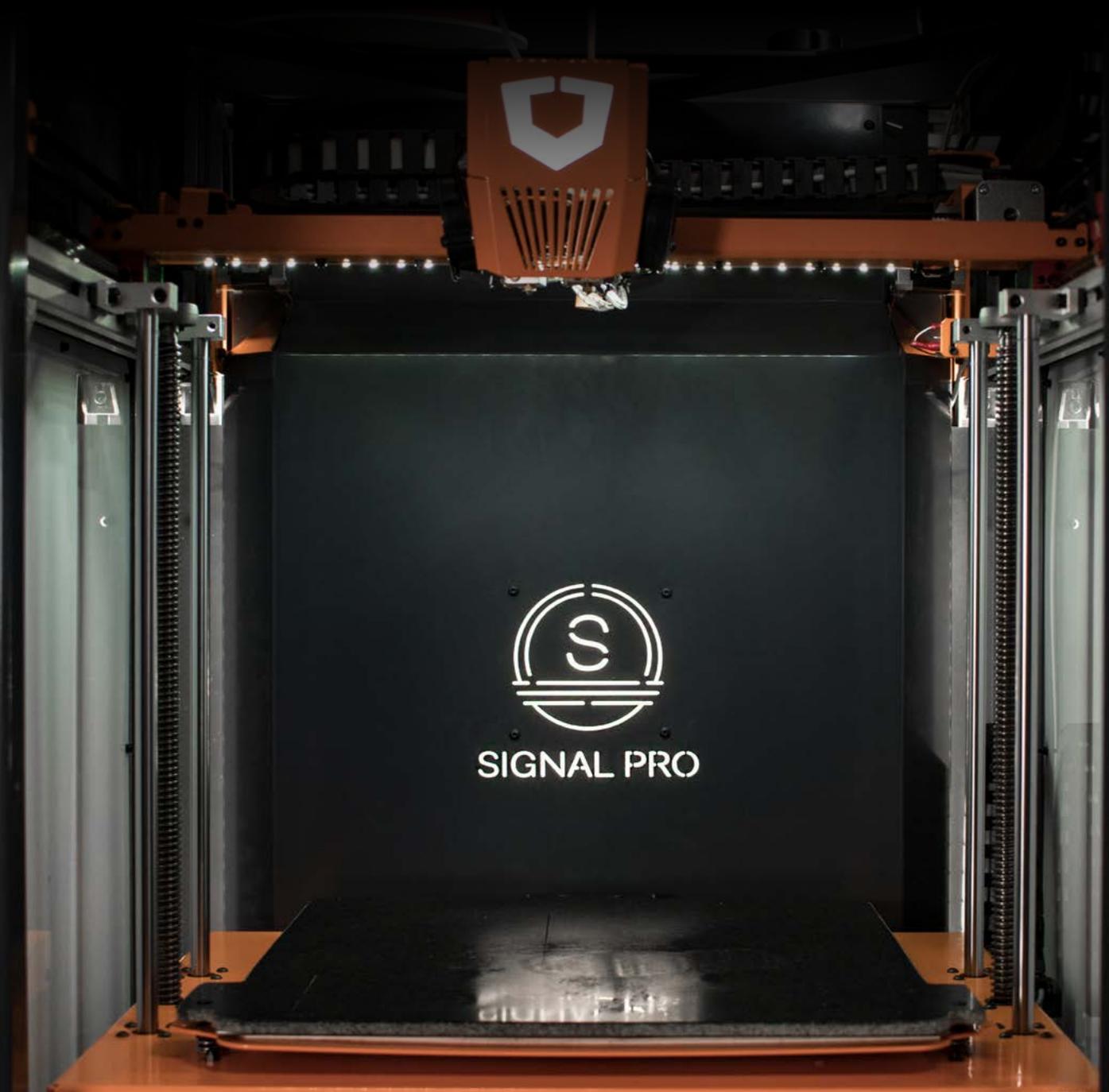


## HIGH LEVEL OF SECURITY

# TECHNOLOGY YOU CAN CONTROL

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The printer has a working chamber equipped with **active temperature control** technology. The ventilation and heating system installed in the chamber provides the user with the **ability to maintain a constant temperature** (with the option of adjusting within a range of up to 45°C). This is extremely important since maintaining the right operating conditions of the device is a key element of the entire printing process. In addition, the **chamber protects printed elements** against adverse external factors. And this feature is particularly important when printing using materials with high shrinkage characteristic (ABS, PC, or nylon).



## AUTOMATION

# PRECISION YOU DON'T HAVE TO WORRY ABOUT

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We wanted working with the **ATMAT Signal Pro** printer to be simple and enjoyable. So we equipped the printer with **an automatic table levelling function**. Thanks to this option, the **ATMAT Signal Pro completely eliminates problems** related to correct configuration of the equipment. The function accommodates adjustments related to the travel system, thus facilitating the printing process itself. This modern levelling mechanism, combined with a work platform made of granite, not only eliminates the problems associated with the proper setting of the equipment, but also **guarantees the high quality of the printed elements** - from the very first layer.



**SIGNAL PRO**

 **ATMAT**

## TWO HEADS

# MANY PRINTING POSSIBILITIES

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The **ATMAT Signal Pro** printer has been equipped with a **double printing head**. The solution allows elements to be printed in two colours, as well as in two different materials. This gives virtually **unlimited design possibilities**. While providing many printing options we have also taken care of the **high level of the printer's aesthetics**. Therefore, when creating complex models (e.g. requiring the use of supports), the printer gives the possibility of using soluble filaments (PVA or HIPS). By using such filaments you can easily achieve a smooth surface effect at the points of contact between different materials.



## FLEXIBILITY

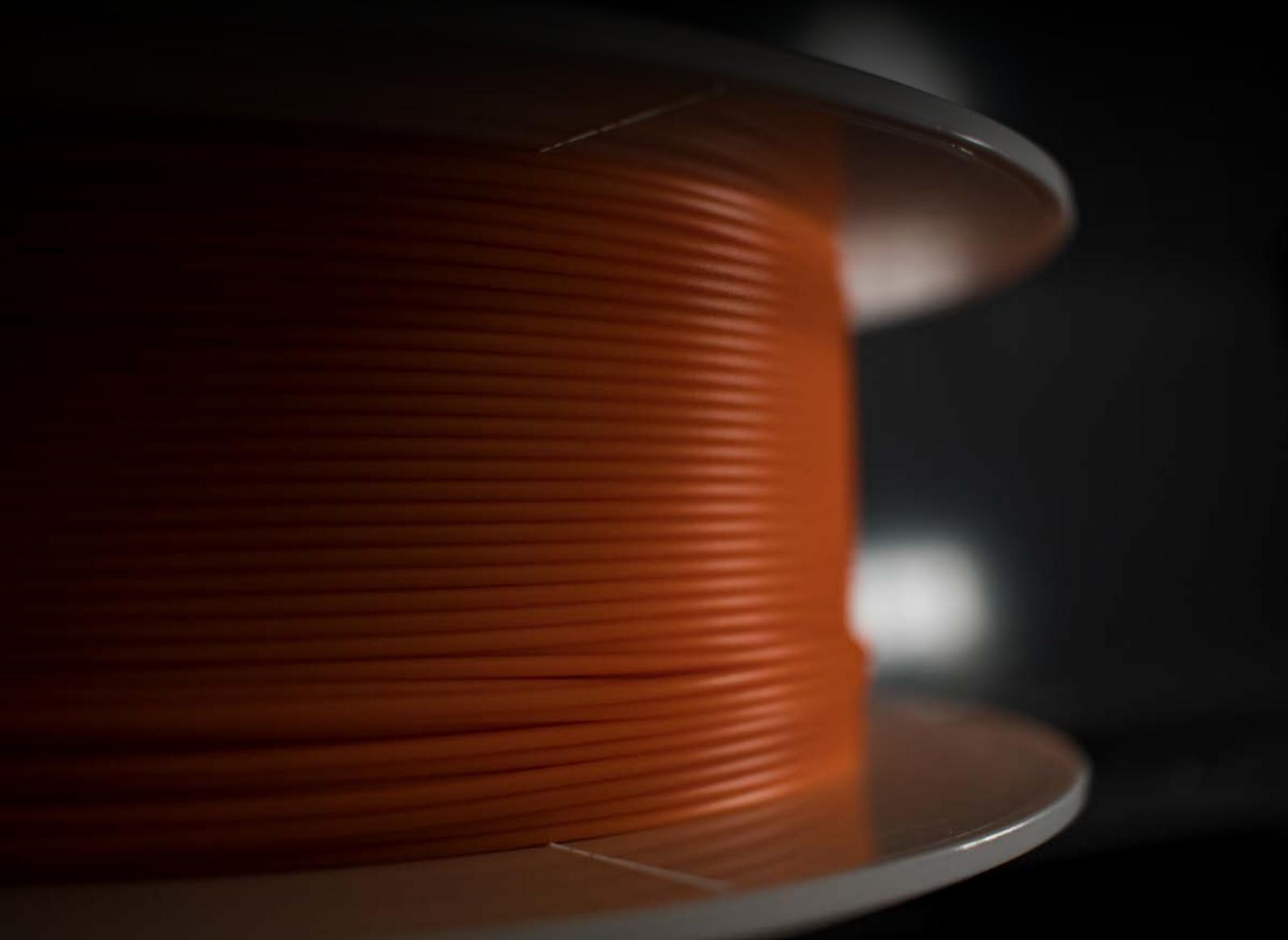
### CUSTOMISATION IN ALL RESPECTS

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The **ATMAT Signal Pro** equipment was engineered primarily for its users - people working with various materials and using different software. Therefore we focused on its **full flexibility and the ability to adapt** to the individual needs of our customers.

**Materials** - a built-in direct type extruder allows for seamless cooperation of the printer with the wide range of filaments available on the market. The equipment supports both traditional solutions (PLA, PET, or ABS), **flexible materials** (TPU), as well as **more sophisticated and demanding filaments** with wood, metals or mineral additives.

**Software** - the hardware is also **fully compatible** with various types of software used to prepare the printing process. It has been equipped with profiles for both free and commercial versions of slicers.



## OPERATION

### THE HIGHEST LEVEL OF CONVENIENCE

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The **ATMAT Signal Pro** printer has been equipped with a large **7-inch touch screen** with an original interface, allowing for very convenient device operation. The intuitive control panel allows you to utilize both the basic and advanced functionalities of this printer.



## MADE IN POLAND

# PROPRIETARY SOLUTIONS, SUPPORT AND SERVICE

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When it comes to our products, we always focus on the **highest quality**, imprinted both on production, sales and after-sales services. Every single device we make is **manufactured in Poland** - all products are designed, tested, produced and stored in Poland. Our qualified specialists - **engineers with extensive experience** - make every effort and do absolutely everything possible to assure products leaving our factory meet the expectations of even the most demanding customers. In addition, we provide **fast and fully professional after-sales service** (during the warranty period and after). We provide assistance in both the initial configuration of equipment and advise on its further operation.



# SPECIFICATION

## DEVICE OPERATION

print technology	FFF (FDM)
number of heads	2
number of extruders	2
working area	X: 300 Y: 300 Z: 300 / 400 / 500 mm
layer height	0,07 - 0,6 mm
filament diameter	1,75 mm
nozzle diameter	0,15 - 0,8 mm
print speed in HQ mode	80 mm/s
positioning accuracy of the X/Y axis	7 µm
filling speed	150 mm/s (depending on nozzle diameter)
positioning accuracy of the Z axis	0,625 µm

## DEVICE

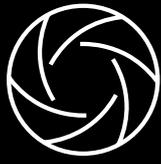
printer dimensions	ATMAT Signal Pro 300: 640 x 630 x 850 mm, 55 kg ATMAT Signal Pro 400: 640 x 630 x 950 mm, 60 kg ATMAT Signal Pro 500: 640 x 630 x 1050 mm, 65 kg
print materials	PLA, PET-G, ABS, TPU, HIPS, PVA, PC, Nylon, elastic, materials with mixtures
support materials	PVA, HIPS, others
extruder	direct
communication	SD card, USB, LAN, WiFi
printing environment	closed, heated work chamber
working table	granite slab
max. table temperature	140°C
heated chamber	yes
max. chamber temp.	45°C
max. head temperature	295°C

## TECHNICAL SPECIFICATION

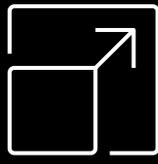
power	230 V / 50 Hz
average power consumption in operation (for PLA)	250 W
max. power consumption	1000 W
software package	Simplify 3D, Cura
supported formats	.gcode

# USAGE

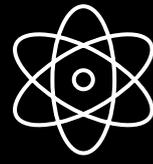
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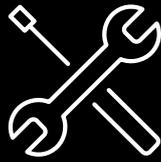
rapid prototyping



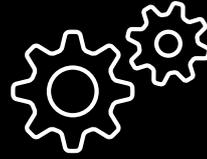
low-series production



medicine



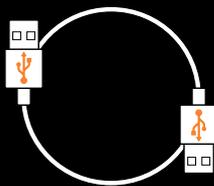
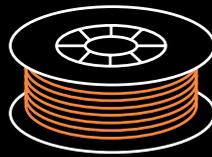
engineering

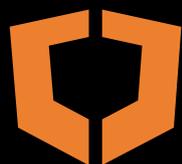


automotive and aviation

# ELEMENTS OF THE SET

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# ATMAT

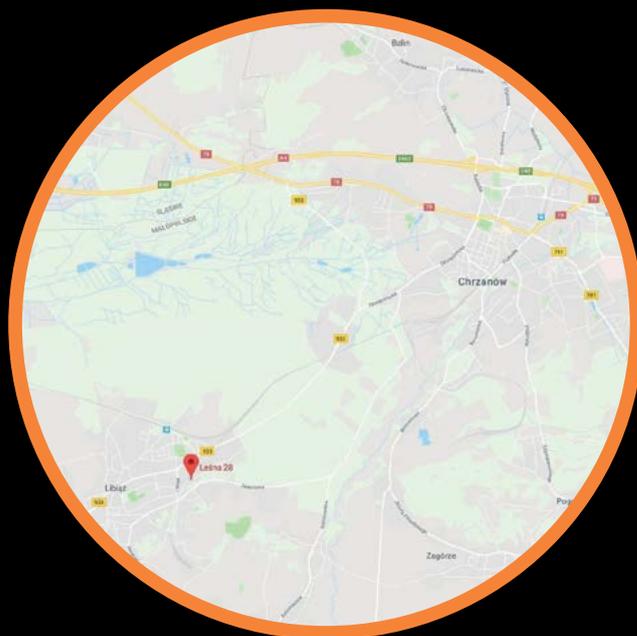
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