



3ntr



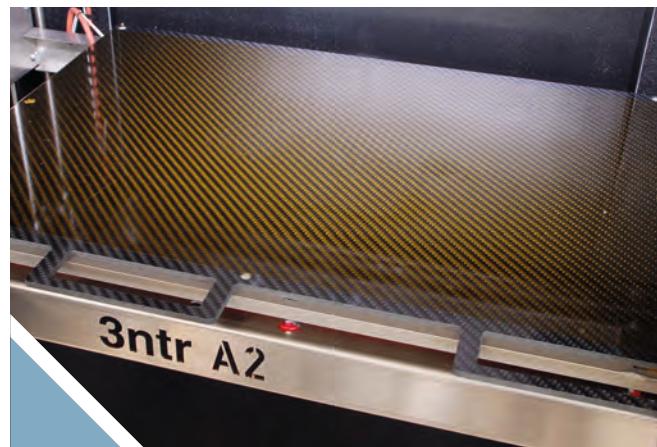
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The 3ntr 3D printers score with a high variety of materials managed by the manufacturer and an open system for individual adaptation. The heated chamber, up to three nozzles and a printing plate made of coated carbon also speak volumes of the devices potential.

## Carbon printing plate

The coated carbon printing plate offers many advantages over conventional printing plates. Its unique surface allows the printing of all filaments without additional adhesives.

Thanks to the shrinkage/expansion of the printed materials during cooling, most of prints can simply be removed after a short time and without the aid of any tools. Also the placement and removal of the plate are simple: magnetic connections to the printer are the key.



*The carbon printing plate allows the printing of all materials. It is locked in place with magnets and absorbs heat - for easy handling.*

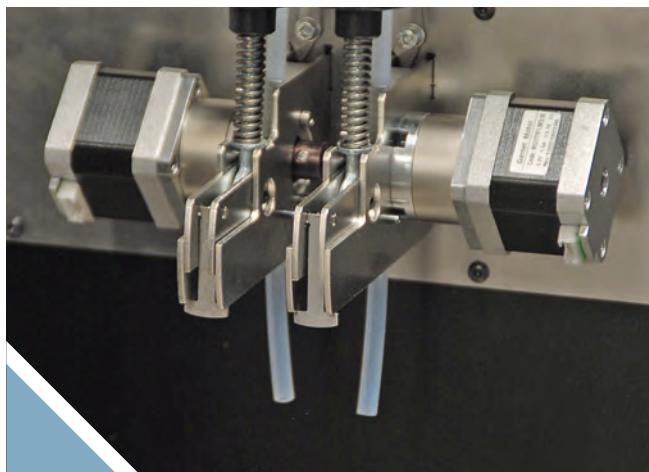
## Heated chamber for optimal conditions

The heated chamber of the printers A2 and A4, with a continuous temperature of up to 90 °C, **minimizes the risk of warping**. High-quality insulation keeps energy consumption low and simultaneously speeds up the heating process. In addition the chamber may be locked, thus **ensuring undisturbed printing**.

Some parts and materials, however, require cooling during printing. For this purpose the printhead possesses a cooling fan - creating **optimal printing conditions** for such cases.

An optional activated carbon HEPA filter unit is available for the reduction of toxic emissions.

## Open system for printing materials



*So much material freedom is rare. Recommendations and possible combinations of pre qualified materials are supplied by the manufacturer.*

The portfolio of 3ntr qualified materials is designed to meet all industrial requirements: ABS, ABS ESD, ABS hi-speed, ASA, Elasto85, Elasto95, Igus l180-PF, PC-ABS, PC, PETG, PA carbon fiber, PA glass fiber, TPU, PPS, Zwax and soon nPeek.

For research purposes the software has options for **creating individual material profiles**: You can use filaments from other manufacturers or even process your own products. This gives you complete freedom. Additional costs for the activation of materials do not apply to 3ntr.

## Flexible printing with up to three nozzles



*The all-rounder also prints prototypes of the highest quality with different material properties.*

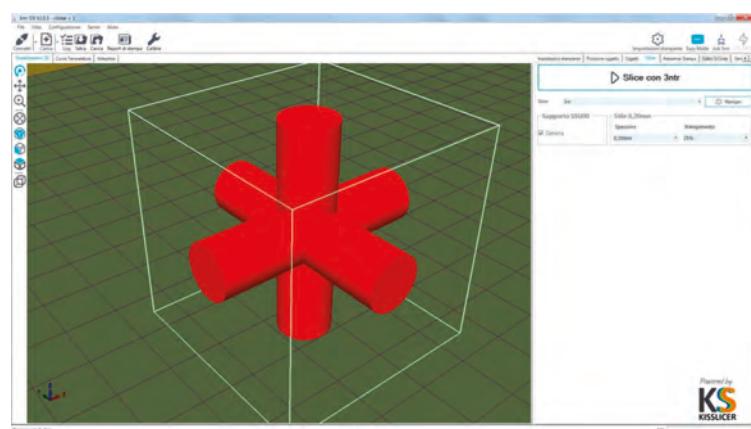
Both the 3ntr A4 and the A2 are available with either 2 or 3 nozzles. The **nozzles can be combined and used as desired**. This not only permits the use of a more soluble support material, but also the printing of parts with a combination of different properties. Thus, for example, one could combine durable ASA with flexible TPU, without sacrificing the essential support material necessary for complex geometries.

For printing flexible filament softer than 90 Shore A, an **optional SPF Unit** is available for purchase. This extension incorporates an additional mechanism that pulls the material to the nozzle, thus preventing the filament from clogging along the way.

## SSI Slicer Plug-in

The 3ntr SSI Slicer Plug-in enables smooth collaboration with the KISSlicer software and the A2 and A4 FDM 3D printers. This plug-in gives you access to all material profiles created by the manufacturer and incorporates their compatibility.

When using incompatible materials, users will receive a warning. In addition to the chemical behaviour of the combined materials, strongly differing printing conditions are taken into account. This allows even inexperienced users to **easily prepare print files**.



## Printserver



With the Print Server Ethernet Static IP and the associated web-cam, 3D printers from 3ntr can be integrated into your company network and subsequently printing processes planned and executed. In addition the product offers a web-cam to check the chamber and print at any time.

## Commissioning & technical training



3ntr's FDM 3D printers A2 and A4 are offered exclusively with commissioning and technical training. This is to ensure that you get your 3D printer up and running quickly and are able to produce high-quality products. In addition the handling of the software, the processing of various materials and the carrying out of simple maintenance is explained. Our goal is to provide you with a good knowledge base, including all necessary information, during our training.

## Maintenance contracts



To prevent long repairs and downtimes, we recommend an additional maintenance contract. Our technicians will inspect your 3D printer on site or at our service desk and replace spare parts when necessary, to ensure that unplanned downtimes are minimized. It also includes telephone and e-mail support via our customer service. Your questions will be answered reliably and quickly.



Technical Data*		A2	A4
max. printing volume:	611 x 306 x 500 mm**	296 x 167 x 200 mm**	
max. temp. nozzles:	450°C	450°C	
max. temp. bed:	160°C	160°C	
max. temp. chamber:	90°C	90°C	
max. speed:	300 mm/sec	300 mm/sec	
min. layer thickness:	0,05 mm	0,05 mm	
max. X / Y precision:	0,011 mm	0,011 mm	
nozzles:	1-3	1-3	
nozzle sizes:	0,4 mm (opt. 0,3/0,6/0,8 mm)	0,4 mm (opt. 0,3/0,6/0,8 mm)	
filament diameter:	2,85 mm	2,85 mm	
build plate:	Carbon	Carbon	
software:	KISSlicer/Repetier	KISSlicer/Repetier	
operating system:	Windows 32/64	Windows 32/64	
power:	10A 230V	5A 230V	
product size:	934 x 786 x 1133 mm	558 x 671 x 710 mm	
product weight:	110 kg	43 kg	
support materials***:	caustic soda, HIPS, SUT-Clean2, water, break away		
materials:	ABS, ABS ESD, ABS hi-speed, ASA, Elasto85, Elasto95, Igus I180-PF, PC-ABS, PC, PETG, PA-Carbon-Fiber, PA-Glas-Fiber, TPU, PPS, Zwart		

\*technical data may change with the machines; \*\*standard configuration, all nozzles in use  
\*\*\*depending on main material



3D PRINTING SOLUTIONS & CONSULTING

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