

SOUTHWESTERN INDUSTRIES, INC.

Industrial Printers for Your Shop

• High quality, functional parts.

- Low cost per part.
 - Accurate, repeatable process.



Reliable Results

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Software Interface

Easy to use and reliable in industrial applications



Build Chamber

- Generous capacity for parts up to 23.6" x 11.8" x 19.6"
- Individually controlled heating elements to achieve optimal accuracy and finish from the material you use
- HEPA filtered air flow to limit contamination



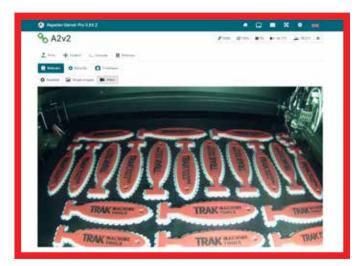
Build Plate

- Reusable bed for thousands of prints with minimal maintenance
- Removable build plate utilizes magnetic locators for precise positioning
- High tech carbon construction with ultem coating that holds parts firm while printing, but allows of easy release once cooled

Three Extruders

- Prints up to three polymers at the same time
- Two extruders for build material allows combinations of materials on a single build
- One for support material
- Liquid cooling at each extruder for precise temperature control





Integrated Camera & Web Monitoring

- Through a print server the printers can be networked to manage them locally or remotely, making them compliant with the Industry 4.0 decree
- Monitor the build process from another location
- Make remote adjustments through the web interface



Combine Materials for Lower Cost

The part shown here was made with a combination of two different build materials. For the internal shaft, IGUS Iglidur is used for self-lubricating and hardness. To minimize the part expense, the body is made of ASA.



ABS & ASA

You will love the results you get when printing these standards of the industry. We offer formulations in different colors especially made for 3D Printers.

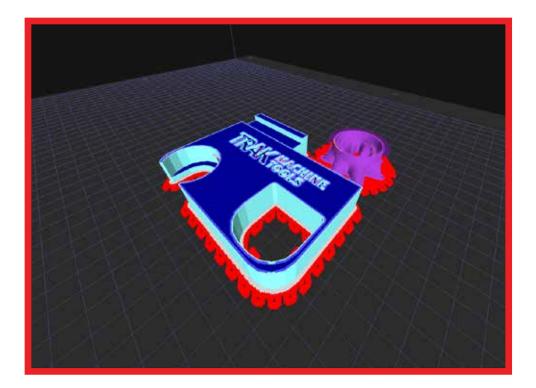
Open Materials

Materials development is the new technology frontier in 3D Printing

Many of the world's top chemical engineers are racing to develop the thermoplastics of tomorrow. But many new, innovative materials already exist. With the **Open Materials** platform, you are free to explore and develop superior solutions.

Powerful, Flexible User Interface

KISSlicer is powerful software that prepares STL files for optimized printing. The user interface enables you to select preloaded settings or to adjust dozens of variables yourself.



- Adaptive Layer Control enables you to optimize layers
- Preload precise control of how the printer extrudes filament
- Expert Mode enables you to precisely set variables for your own unique configurations
- Fractional Number of Loops improves bonding between loops and infill
- Lock Paths lets you configure different styles for different parts on a single print
- Wizards guides the processes of setting up Profiles and Tuning the material flow

...and dozens more innovative features!







Design For Additive (like never before)

Your imagination gets a boost from the multimaterial capability of 3ntr printers. The part to the left is the result of combining formerly separate parts to achieve a single design, integrating a hose and filter housing.

Support Material

With the 3ntr, you can have a different support material and build material. Choices include break-away and soluble material that complement the build material. Your part finishes and delicate features will come out beautifully.

Large & Complex

This part requires the precision of an Industrial Grade 3D Printer. Complex parts often use soluble support material to preserve the precision of the delicate features.



Rubber-like Materials

The controlled build chamber and powerful software enables you to make soft, flexible components.



Multiple Colors You can print in two colors simultaneously.

Specifications

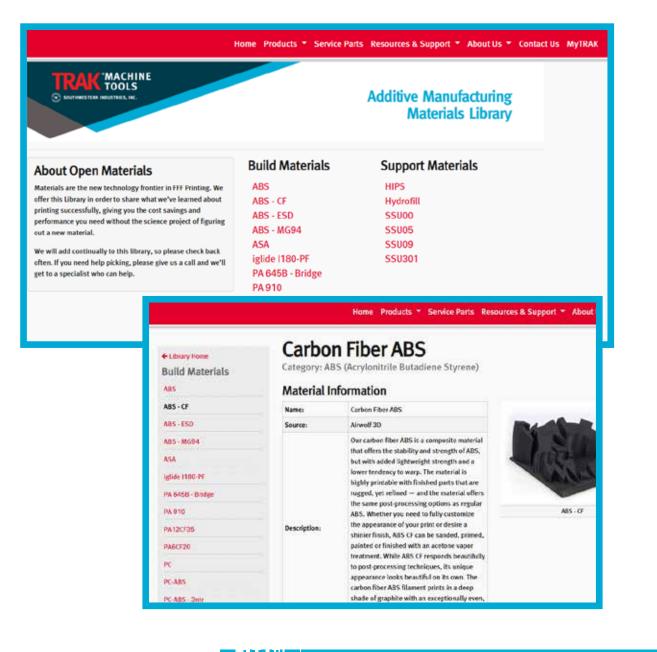
Dimensional Data	A2	A4	
Printer Dimensions	940 x 715 x 1125 mm 37 x 32 x 44.3"	528 x 515 x 615 mm 20.7 x 20.2 x 24.2"	
Printer Weight	110 kg 242 lbs.	43 kg 94 lbs.	
Shipping Dimensions	1041 x 831 x 1321 mm 41 x 32.7 x 52"	681 x 620 x 920 mm 26.8 x 24.4 x 36.2"	
Shipping Weight	226 kg 498 lbs.	69 kg 152 lbs.	

Electro / Mechanical Data	A2	A4	
Ambient Operating Temperature	16-32° C 61-90° F		
Storage Operating Temperature	5-40° C 41-104° F		
AC Input	220/230 Vac - 15A	110/120 - 15A	
Connectivity	USB, Micro SD, LAN		
Steel Cabinet / Frame Construction	2mm (.08") Powder Coated		

Printing Specifications	A2	A4	
Printer Technology	Fused Filament Fabrication		
Number of Extruders	3		¹ A4 depth (D) is 39 mm (1.54")
Build Volume - W x D x H ¹	600 x 300 x 500 mm 23.6 x 11.8 x 19.6"	295 x 155 x 200 mm 11.6 x 6.1 x 7.8"	less with three nozzles installed, A2 is 35 mm (1.38") less
Positioning Precision - X-Y	11 Microns .000433"		² Available nozzles: .3 mm, .4 mm,
Positioning Precision - Z	40 Microns .0002"		.6 mm, .8 mm & .4 mm hardened anti-abrasion
Positioning Precision - Extruders	.9 Microns		³ Standard / Optional maximum
Filament Diameter	2.85 mm +/1 mm		nozzle temperature: 430° C on 2
Standard Nozzle Diameter ²	.4 mm .01575"		of 3 nozzles
Maximum Extruder Temperature ³	430° C 806° F		⁴ Measured at the heater on the aluminum print base
Maximum Heated Bed Temperature ⁴	110°C or 230°F (110v) 130°C or 266° F (220v)		
Maximum Heated Chamber Temperature ⁵	80°C or 176°F (110v)	90°C or 194°F (220v)	 ⁵ In conjunction with heated bed at maximum temperature
Minimum Layer Thickness	50 Microns .00197" (.3mm nozzle)]

Materials Library

Materials are the new technology frontier in FFF Printing. We offer this Library in order to share what we've learned about printing successfully, giving you the cost savings and performance you need without the science project of figuring out a new material. www.trakmt.com/materials









Support your Printing with a real machine tool.

- Designed for second operations.
- Easy to learn and use.
- Strong and rigid construction.
- Portable for moving to the job.





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