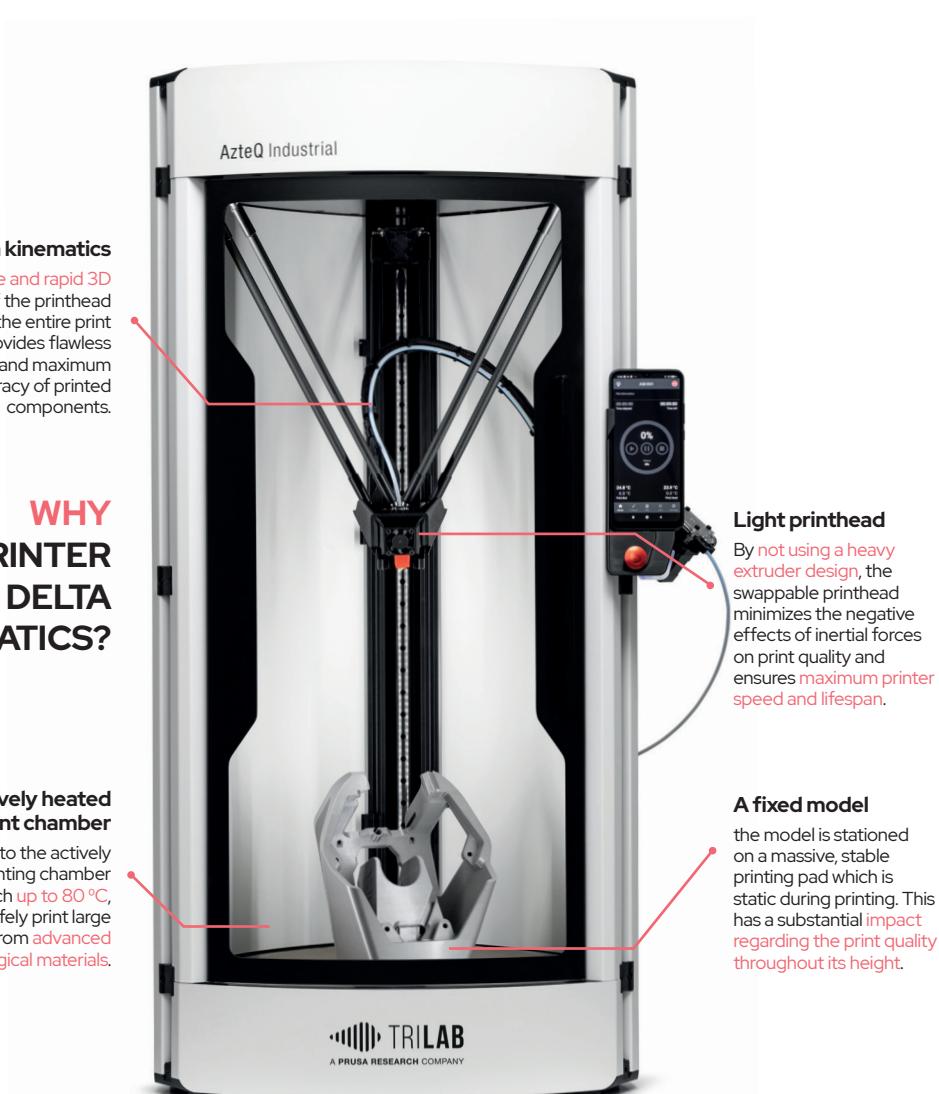


The TRILAB AzteQ Industrial

A PROFESSIONAL DESKTOP 3D PRINTER



**APPLY
OUR EXPERIENCE
TO YOUR PROJECTS**

1 Jigs and tools for production

High precision within the entire print volume is essential for the production of quality jigs, holders, gauges or calibration tools for production and quality control.

2 Development and prototyping

Go from an idea to an established prototype in a matter of hours. Do it with confidence in perfect quality and with unimagined price savings.

3 Mold production

Consistent and accurate printed surfaces allow direct production of negative molds for composite production or positives for precision metal castings.

4 Small series production

From an idea to production. Thanks to printing with advanced industrial materials (PA, PC, ABS, ASA, etc.), there is nothing preventing you from creating your own small series production.

5 Science and research

Printed aids quicken and simplify development, as well as open up new ways to address scientific challenges. We took our experience from the science and research environment and placed it all into the AzteQ printer.



AzteQ Industrial WILL CREATE OPPORTUNITIES



1 Your own small series production of complex components

Personal experience is the best kind. The printhead cover for the AzteQ was designed for 3D printing right from the beginning, is made of ASA material and printed directly using AzteQ Industrial printers.

AzteQ Industrial printhead, **TRILAB**

The advantages of using TRILAB AzteQ Industrial 3D printers

- Financial savings of over 90% compared to traditional production methods
- Save yourself months of time
- Quick design iterations and selection of suitable material
- Produce incomparably more complex geometries in comparison with traditional production technologies
- Print from industrial materials in a large-volume heated chamber

2 Create the unobtainable and the impossible

Using 3D printing to produce a negative mold for subsequent material injection is still not a very widespread procedure. With our printer, you can easily create a product directly for your needs and you won't find it produced anywhere on the market. Like our silicone filament bushing with an AzteQ jacket, which we're able to produce ourselves.

Filament bushing and mold, **TRILAB**

3 Products of any size made from industrial materials

You can easily print components of high strength and durability using ABS, PA or PC thanks to the actively heated chamber which reaches up to 80 °C. A fine example that we print from polycarbonate is a carriage, a complex component for attaching magnetic carbon fiber rods to the linear rails. By printing it in a heated chamber, we can count on achieving maximum accuracy and minimum deformation of the model while also having the product gain a higher mechanical resistance.

TRILAB magnetic rod carriage for AzteQ Industrial



Printing technological materials
Thanks to the actively heated printing chamber that can reach up to 80 °C, you can safely print large models from advanced technological materials such as ABS, ASA, PA, nylons, polycarbonates as well as newly emerging durable materials and composites!

Movements without any compromise
The printhead is supported by extremely light & rigid carbon arms, mounted on strong magnets. Together with the linear rails, which meet strict industry standards, the motion system ensures accurate and repeatable printhead positioning. The result is a perfect print output.

Smart and lightweight swappable printhead
You can select a specific printhead configuration for each material and printing speed including the most suitable material and nozzle diameter. For each application, you can easily and quickly attach the magnetically dedicated printhead and the AzteQ calibrates itself tensometrically.

High speed is key for high-volume printing
With AzteQ, the model is always statically positioned on the PrintPad and the lightweight printhead without an extruder will not only surprise you with its moving speed but also with its printing capacity.

Remote printer management & TRILAB support
You're always in full control of the printer. With remote access from anywhere (even outside your corporate network), check on the current print status yourself at any time and thanks to that you can print 24/7 for days without worries or let our technicians check your AzteQ quickly and safely.

Swappable TRILAB PrintPads
Flexible PrintPads allow for the easy removal of even larger prints when they're complete. In addition, the wide range of TRILAB PrintPad surface variants ensures optimal adhesion for the specific types of printing materials used.

Print multiple materials with TRILAB QuadPrint
For applications that require printing from multiple materials at once, we have developed a complete TRILAB QuadPrint solution based on the most sophisticated concept of multi-material printing. You will receive this solution tested and calibrated when it arrives at your desk.

6 REASONS OF WHY TO CHOOSE AN **AzteQ Industrial**

Delta kinematics 1

In addition to their printing speed, the main advantages of delta printers are their high spatial accuracy and superior printing surface quality.

Actively heated chamber 2

Thanks to the actively heated print chamber, you can print even large models safely from advanced technological materials on the AzteQ Industrial printer.

Swappable printheads 3

Select a specific printhead configuration for a specific material and printing speed. Simply attach the selected printhead to the magnets and the AzteQ will automatically perform full printer calibration on its own.

High volume printing 4

With AzteQ, the model is always statically positioned on the PrintPad and the lightweight printhead without an extruder will not only surprise you with its moving speed but also with its printing capacity.

Robust construction 5

The robust frame prevents any vibrations and the thermal insulation keeps the surface of the printer from overheating. In addition, the electronics are in a separate compartment and actively cooled.

Remote printer management 6

With integrated lighting, a built-in camera and remote access from anywhere, you now have full control of the printer and you can print for days without worries.

Printer Specification

Additive technology	Fused Deposition Modelling (FDM); Delta kinematics
Print Volume	AzteQ: Ø 300mm (X, Y) x 400mm (Z)
Printhead	Lightweight printhead attached using magnets; connectors for easy replacement of the entire head; E3D V6 Volcano hotend; Dedicated printheads that are specifically designed for individual materials
Extruder	E3D Titan extruder positioned in the AzteQ Hub; the bowden filament guide attaches to the printhead
Print chamber	An actively heated print chamber up to 80 ° C; Sensors and electronics maintain the chamber temperature; An insulated printing chamber with separate electronics
Printbed	Massive, 8 mm thick aluminum heated bed; Integrated magnets that hold the PrintPad sheets
PrintPads	Flexible & swappable PrintPads sheets; Powdered PEI surface PrintPad A PrintPad with a surface for PA (polyamide) based materials
Electronics	32bit Duet and Due primary electronics to control prints; TRILAB secondary electronics for printer connection with advanced features
Control and interface	Wireless 6.5 „DeltaControl“ in-hand display or the AzteQ Hub charging station located directly on the frame
Connectivity	3x USB port for WiFi/LAN module, USB flash drive, TRILAB QuadPrint, webcam or extension
Print Monitoring	An LED color indicator on the AzteQ Hub allowing for a visual status check of the printer; Upper integrated camera; Adjustable LED lighting of the printing space
Supported input formats	STL/gcode; Primarily supported PrusaSlicer, Kisslicer; alternatively gcode from Cura, Simplify3D
Operating printer temperature	Recommended printer operating temperature is 20 - 32 ° C (68 - 90 ° F), storage temperature 0 - 32 ° C (32 - 90 ° F)
Dimensions and weight / printer	AzteQ: 59×52×105 cm (WxDxH)/ 38 kg
Dimensions and weight / package	AzteQ: 60×60×120 cm (WxDxH)/ 55 kg (w/o pallet)
Power	220-240V input; 10A; 50-60Hz

Print Output

X/Y resolution	Depending on the nozzle used 0.25 - 1.2 mm; standard 0.4 mm
Z resolution	Minimum layer height 50 µm; maximum according to the nozzle
Maximum chamber temperature	80 °C
Maximum nozzle temperature	300°C by default High temperature printhead up to 400 °C
Maximum print bed temperature	105 °C

Materials

Filament diameter	1.75 mm
Compatible materials	ABS, ASA, PA, PC, PP, PETG, CPE, PLA, including composite and filled analogues
Multifilament printing	TRILAB QuadPrint - a solution for combining up to 4 colors or different materials
Purchase of materials	Verified and recommended materials along with accessories are available on our eShop store.trilab.cz

"Our dream was to develop, manufacture and deliver the best products and services that we can also be proud of. Today, we're still doing that with our 3D printing solutions for companies!

We are excited that our solutions are used by hundreds of professionals daily, from all corners of the globe. Thanks to the possibility of remotely accessing all of our current 3D printers, we are now able to operate, service and support foreign clients as well as our Czech ones. And that's why we're improving and furthering our impact with each new product.

Our customers, reviewers and competitors know about the top print quality of our DeltaQ delta printers. In addition, the new AzteQ Industrial now adds even greater spatial and material freedom to its users thanks to the closed and actively heated chamber, in addition to the already unbeatable print quality. Therefore, we are sure that the readiness of the equipment for printing industrial materials, together with the design of the machine and its new functions, will attract even the most demanding customers.

Thank you for your support. We believe that our paths will cross in the near future and that you will also become a satisfied owner of a 3D printer from the TRILAB AzteQ Industrial series."

Vojtěch Tambor and Michal Boháč, TRILAB



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