

PLASMICS Delta S



CHAMBER HEATING

Provides up to **80° chamber temperature** capability

Impeller for **optimal airflow** and heat distribution

INDUCTION NOZZLE

Water-cooled for superior temperature control up to 450°C

Made from abrasion resistant **tool steel** capable of extruding high performance filaments

ULTEM, PA, PC, CF, GF compatible without significant nozzle wear

FILAMENT STORAGE

Filament stored within the printer

Eliminates the need for a dedicated filament storage device

Clean and **efficient** workspace presentation

LED INDICATOR

Aesthetic all-around **led light** to **indicate printer state**

Color Coded Printer States:
Standby, Printing,
User interaction required

FILAMENT SENSOR ARRAY

Continuous measurement of filament diameter X, Y and length

Enables **dynamic adjustment** of extrusion multiplier for Filament Quality Protocol

DOUBLE GLAZED DOOR

Touch Safe 100% of the time

HEATED BUILD PLATE

Up to **>130°C heated build plate** with homing marks for exact prints

INTRODUCING:

The **Delta S** - The new complete 3D printing solution by **Plasmics**.
It is equipped with our **INo Technology**, the world's first commercially available **induction-heated nozzle** along with further professional grade capabilities like a **heated buildspace**, a **filament sensor array** and a **water-cooled effector** to enable the creation of industrial-grade prints utilizing FDM.

The **Delta S** features the ability to extrude **high-performance fiber-reinforced filaments**, offers the highest degree of capability and superior reliability.

FACTS:

Plasmics Induction Nozzle Technology

Filament Sensor Array

200 x 250mm Print Volume

Up to **80°C (176°F)** Heated Chamber

Up to **130°C (266°F)** Heated Build Plate

Open Source Software (**Klipper, Mainsail**)

Full metal Frame

Carbon Fiber Arms for Printhead

Multilayer **Insulated Buildspace**

110-240V Outlet Voltage Compatible



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PLASMICS INo Trident



FLEXIBLE MOUNT

Can be mounted from the top or the side making it compatible with almost every 3D Printer

ALUMINIUM CASING

Weight: **less than 30g**
Dimensions: \varnothing 24.6mm * h 61.5mm

INDUCTION HEATING

No temperature overshoot

Heats up the nozzle from room temp to **250°C** in less than **8 seconds**

Cool down below glass transition temperature in less than **10s**

NOZZLE

Up to **450°C Nozzle temp** enabling high end filament capabilities

1.75mm, 2.85 under development

Made from abrasion resistant **tool steel**

Capable of extruding **GF, CF, PEKK** filaments without wear

Thermocouple for **fast** temperature measurement

FACTS:

The First Commercially Available
Induction Heated Nozzle

Klipper Integrated
Marlin And **Duet** under Development

Higher efficiency than comparable Hotends

Dedicated Electronics To Power The Induction Coil

Low Mass For Maximum Acceleration Without Ringing

Nozzle Made From Abrasion Resistant Armor Grade **Tool Steel**

NeverBlock Technology For Uninterrupted Printing

INTRODUCING:

The **Plasmics INo Trident** - the world's first commercially available **induction heated nozzle** for 3D printing. The Plasmics INo technology employs a **modulated magnetic field** to convert energy into heat, resulting in **faster heat-up** and **faster cool-down** compared to a conventional resistance heated nozzle.

This improves **extrusion temperature stability** which results in **better print quality** and speeds up **multi material** prints by a significant factor.

The **INo Trident** is convection cooled whilst the **Delta S** uses the water-cooled INo technology system.

ABOUT PLASMICS

Plasmics was founded in 2018 and has worked almost exclusively in stealth mode since then. Plasmics singular focus is developing the worlds most sophisticated and easy to use 3D printing solution and the INo Trident is the first publicly available piece of our vision.

We will enable the effortless manufacturing of various medical devices such as orthoses, prostheses, casts, corsets.

Our system will help people to enjoy a better quality life with perfectly fitted prosthesis' manufactured within a few hours instead of weeks.