

Essentium HSE 280i HT 3D Printing Platform

What are independent dual extruders?

3D printers that feature independent dual extruders (IDEX) use two print heads that move independently, enabling users to print support material, two of the same parts, or two unique parts at once. The Essentium HSE 280i HT 3D Printer is the first industrial 3D printer on the market that offers true independent dual extruders, meaning each head is fully independent on both the X and Y-axis. Other IDEX machines on the market feature print heads that are placed on the same X-axis gantry, preventing independent movement on the Y-axis.

What print modes are available?

The Essentium HSE 280i HT 3D Printer is equipped with five print modes:

- **Single Head Mode:** prints single parts at the speed of relevance
- **Support Mode:** prints support for parts in progress
- **Multi-Process Mode:** prints two different materials or two different filament diameters
- **Copy Mode:** prints two identical parts simultaneously
- **Independent Mode:** prints two unique parts concurrently

How is the HSE 280i HT 3D Printer different than the HSE™ 180 Series?

The HSE 280i HT 3D Printer is an independent dual extrusion printer with four five print modes, while the HSE 180 3D Printer series are single-head extrusion printers equipped with one print mode.

Are there additional fees to unlock printer features?

The only feature that requires a one-time fee to unlock is copy mode. This feature gives the machine the ability to print as if it were two printers, doubling productivity.

What type of support material can I print?

Users can print with water-soluble or breakaway support materials.

What is the build volume of the HSE 280i HT 3D Printer?

The HSE 280i HT 3D Printer has a different build volume for each print mode.

Print Mode	Build Volume
Single Head	695 x 495 x 600 mm
Multi-Material	595 x 495 x 600 mm
Copy	595 x 495 x 600 mm
Support	(395 x 495 x 600 mm) x2
Independent	Coming Winter 2021

Can I use Essentium materials I already own to print on the HSE 280i HT 3D Printer?

Yes. Users can use all Essentium materials to print.

Can I use any material I want to print?

Yes. Like the HSE 180 3D Printer, this machine offers an open ecosystem for customers to print with any material, including materials from Essentium and other companies.

Do I have to purchase a software license?

No. All Essentium printers include print-ready software.

What ships with my system?

Along with your HSE 280i HT 3D Printer, you will receive two DryAir canisters, two Hozzle heated nozzles, one build plate, and sample materials.

Is site preparation required?

Yes. After a machine purchase, customers are provided with specific electrical, ventilation, and space requirements to prepare for machine installation.

What consumables are compatible with the HSE 280i HT 3D Printer?

Essentium 3D Printing Bed Adhesive Powered by Magigoo and the build plate are compatible.

What service packages come with this machine?

Essentium's service and support team work hard to make sure customers are ready to print. Remote troubleshooting, preventative maintenance, and onsite repair ensure machines stay up and running.

Does Essentium offer user training?

Yes. After purchase, customers will have access to guided online training to prepare for machine delivery as well as face-to-face training during installation.

What industries are best suited for IDEX?

The automotive, electronic manufacturing, contract manufacturing, defense, and aerospace industries can benefit from the speed, strength, and scale that the HSE 280i HT 3D Printer brings to applications.

Can the HSE 280i HT 3D Printer print high-temperature materials?

Yes. The HSE 280i HT 3D Printer can print a range of high-temperature materials, including Essentium 9085, which is certified on the HSE 280i HT 3D Printer.