

PDI SQUIRT SHAPE 3D PRINTER

Prosthetic Additive Fabrication

Operational since 2005, the PDI Squirt Shape™ 3D Printer is an additive manufacturing machine that is specialized for the field of Prosthetics. Create large and small prosthetic sockets, if it is cylindrical in design it can be printed with precision and speed.

Strength

By using a continuous spiral printing technique, prints are able to be structurally sound and extremely durable. Utilizing PDI Printing Material ensures strength against the elements and any harsh chemicals as well.

Speed

Extrude 10 times more material per minute than a typical fused deposition 3D printer.

Approximate Print Times

Trans Tibial Socket	1 1/2 Hours
Trans Femoral Socket	2 1/2 Hours



More Than Just Locks



Clinical Success

In 2009, PDI's sister company, Dayton Artificial Limb Clinic (DALC), began selectively fitting patients with PDI printed sockets. After observing a better fitting device and satisfied patients, DALC started fitting all patients to PDI printed sockets in 2013.

Texture

Due to the printing process, there is a natural texture that forms transverse ridges in the prints. The texture results in increased grip strength between the liner and socket inter-face, increasing the overall control of the socket. The socket control has been tested in the lab, and now is being tested clinically.

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Technical Information

Physical Attributes (better phrase)

Printer Size: 1.9 meters in Length, 0.76 meters Wide, and 1.98 meters Tall

Printer Stand: Leveling casters

Printing

Print Technology: Fused Deposition

Print Volume Dimensions: radius - 165mm, Length - 600mm

Print Volume: 51,318 cm³

Connectivity: USB Flash Drive

Printer Heat Up Time:

Calculated XZA positional resolution: 0.01mm, 0.01mm,

Materials

Supported Materials: PDI Copolymer Printing material

Material Type: Pellet

Software

Printer Controller: Mach3

Slicing Software: Limb Revolution

Supported File Types: .aop

Electrical

Power Requirements: 220-240 VAC and 10Amps

Power Cable: NEMA L14-20P

Outlet: NEMA L14-20C (120/240 VAC)



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