



Perfactory® 3 Digital Shell Printer (DSP)

EnvisionTEC's Perfactory® 3 Digital Shell Printer (DSP) can be used for large scale production due to its large build area and high precision. Fitted with the Enhanced Resolution Module (ERM), this enables resolutions down to 25 µm in X and Y. The micro mechanics can achieve as little as 25 µm in Z (material dependent), making it one of the highest resolution systems in the industry. This accuracy does not come at the sacrifice of speed. The DSP can build up to 40 shells in 2-3 hours (1-2 hours with high speed module) as the DLP process cures all parts simultaneously. The resolution is transferred into the highest quality surface finishes achievable by any rapid manufacturing process. This is just one of the reasons this machine is a firm customer favorite with leading hearing aid manufacturers.

Machine Properties *	Perfactory® 3 Digital Shell Printer (DSP)
Build Envelope	5.5" x 4.1" x 9.06" (140 x 105 x 230 mm)
Projector Resolution	1400 x 1050 Pixels
Native Pixel Size	0.0040" (100 µm)
Pixel Size With ERM	0.0020" (50 µm)
Dynamic Voxel Resolution in Z (material dependent)**	0,0020" (50 µm) to 0.0059" (150 µm)
Data Handling	STL
Warranty	1 Year Included

* Specifications are subject to change without notice. ** A voxel is a volumetric pixel.

Materials Available	Properties	Colors Available
E-Shell® 200 Series	Opaque Ear Shells	Pink, Tan, Mocca, Beige, Cocoa, Brown
E-Shell® 300 Series	Transparent for Ear Molds	Clear, Rose, Light Brown, Brown, Clear
E-Shell® 300 Series	Opaque for Ear Shells	Red, Blue, Black, White
E-Shell® 500 Series	Soft for Ear Shells and Tips	Clear, Pink
E-Shell® 600	Transparent for Ear Molds	Clear
E-Shell® 3000 Series	Opaque for Ear Shells	Red, Blue

System Properties

- » Utilizes a built-in ethernet to connect directly to a PC workstation or be integrated into a network
- » Economic material use with no vat
- » Minimized components make the system user-serviceable
- » Low acquisition costs
- » Delivered and installed with all relevant software to enable automatic support generation and perfect model production
- » Material changeover can be done quickly and easily

Footprint (L x W x H): 29" x 19" x 53" (73 x 48 x 135 cm)
Weight: 150 lbs (70 kg)

Electrical Requirements: 100-120V, 5.4 Amps
220-240V, 2.4 Amps

Patents Pending



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