

PERFACTORY®

Technical Data

Perfactory³® SXGA+ W/ERM Mini Multi Lens System

The Perfactory³® SXGA+ W/ERM Mini Multi Lens is a low cost, easy maintenance and user friendly three dimensional Rapid Prototype Manufacturing System. Using state of the art Direct Light Projection technology from Texas Instruments, the Perfactory³® System produces the finest detail in the shortest period of time.

The Perfactory³® System creates three-dimensional models that range from the conceptual to the fully functional.

Maschine Properties*	Perfactory ³ ® SXGA+ W/ERM Mini Multi Lens		
Lens System	Lens f= 60 mm	Lens f= 75 mm	Lens f= 85 mm
Build Envelope** XYZ (To be selected) Increased Productivity	84 x 63 x 230 mm 102 x 76 x 230 mm	59 x 44 x 230 mm 73 x 54 x 230 mm	44 x 33 x 230 mm -
Native Voxel*** size XY	60 µm	42 µm	32 µm
ERM Voxel size XY Increased Productivity	30 µm 39 µm	21 µm -	16 µm -
Dynamic Voxel Thickness Z****	15 µm to 50 µm		
Resolution SXGA+	2800 x 2100		

* System specification are subject to change without notice ** Deviation of +/- 2mm possible *** A Voxel is a volumetric pixel **** Pre adjusted by each material-module

System Data Handling

Utilizing a built in Ethernet interface, the Perfactory³® System can connect directly to a PC workstation or integrated into a network. The Perfactory³® System has an embedded PC, which allows the system to work independently from the pre-processing workstation. The Perfactory³® System can be remotely monitored from any computer on the network using the communication software that is integrated into the Perfactory³® Software Suite. Any STL data format can be easily converted into bitmap images using the Perfactory³® Software Suite and then imported into the Perfactory³® System to be built.

System-Properties

Build speed is constant through the build up to 20 mm (1") per hour at 100 µm (0.004") Z-Voxel thickness.

ALL materials can be processed excluding clear/transparent resins.

Integrated Enhanced Resolution Module (ERM) for the doubling of resolution.

Economic material use, no vat, and a supply on demand material feed system.

Very few moving parts and minimal consumable components.

Minimized components make the system user serviceable.

Models are suitable for direct manufacturing through Rapid Casting.

A choice of materials from concept models to functional parts.

Low acquisition costs.

Footprint: 73 cm 29" l x 48 cm 19" w x 135 cm 53" h, Weight: 70 kg

Electrical Requirements: 100 - 120 V/5.5 A, 220 - 240 V/2.7 A

Patents Pending



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