

Stratasys Objet350 Connex3

This is an industrial-scale printer which can be used to manufacture components of a large variety of materials, as well as mixed materials, in one printing session. The printer has the following specifications:

- **Print Technology:** PolyJet technology to print a variety of materials, including rigid opaque photopolymers, rubber-like (Tango family), simulated polypropylene, high temperature heat-resistant materials, and transparent rigid (VeroClear).
- **Support Material:** waterjet removable and soluble with a water-based solution, specifically SUP705, removed with a WaterJet SUP706, which is easily removed and soluble for automated post-processing and increased geometric freedom to print complex and delicate features and small cavities.
- The system utilizes a print head to selectively deposit and cure cross-sections of a digital model by accurately printing each cross section on the surface of a build plate/tray using a photosensitive polymer.
 - **Model Materials:** Transparent rigid (VeroClear), Rubber-like (Tango family) including black & translucent, Transparent general-purpose (RGD720), Rigid Opaque (Vero family), Simulated Polypropylene (Endur & Durus).
 - **Digital Model Materials:** Transparent shades & patterns, Rigid Opaque shades, Rubber-like blends, Polypropylene-like materials with improved thermal resistance
- **Layer Thickness Resolution:** ability to print horizontal build layers as fine as 16 microns (0.0006 in.)
- **Build Envelope Size:** 342 mm x 342 mm x 200 mm (13.4 in x 13.4 in x 7.9 in)
- **Build resolution:** X-axis: 600 dpi, Y-axis: 600 dpi, Z-axis: 1600 dpi
- **Printing Modes:**
 - High Quality (HQ): 0.0006 inch (16-micron)
 - High Speed (HS): 0.001 inch (30-micron)
- **Accuracy:** 0.004–0.012 inch (0.1–0.3 mm) typical (accuracy varies according to geometry, part orientation and print size)
- **Heated build chamber** with temperature 64°F – 77°F (18 °C – 25 °C); relative humidity 30-70% (non-condensing)

