Technical Information

CAD/ Rapid Prototyping

TYPES OF FILES ARMSTRONG CAN USE

	Can Create Stereo Model	Can Machine 2 Axis	Can Machine 3 Axis	Can Check Dimensions	Can Create Drawings
STL (Stereo Lithography File)	/				
Pro Engineer Native Part	/	/	/	/	/
IGS (Surfaced Translation File)	×	/	/	×	×
IGS (Wireframe Trans. File)	\$	/	×	/	×
DXF, Cadkey parts & DWG's (2D Drawings)	\$	/	\$	×	/

Best option

X Requires some CAD work

\$ Requires some CAD work

CAD SOFTWARE AT ARMSTRONG MOLD

Pro-Engineer version 2000i & 2000i² Surf Cam Version 7.0c Cad Key 97 Solidview (w/ IGES Translator)

BENEFITS OF CAD

- Direct transfer of designers intent
- Tooling and hogouts produced directly from database
- Transfer speed = time savings

METHODS OF ELECTRONIC FILE TRANSFER

- FTP to Armstrong via upload @www.armstrongmold.com
- E-mail attachment to cad@armstrongmold.com
- FTP pick up at customer site

STEREOLITHOGRAPHY

Rapid prototyping process used to create 3D models of any complexity from CAD files Solid CAD data is sliced into thin cross sections. A laser generating a UV beam is moved across a vat of photosensitive liquid polymer by a CAD scanning system. The laser draws each cross section turning the liquid to solid. Successive cross-sections are built one upon another creating a three dimensional plastic model.

BENEFITS OF STEREOLITHOGRAPHY

- Overnite prototype part creation
- RP prototype provide excellent mastern model for:
 - Aluminum castings via RPM or Airset
 - Plastic parts in thermoplastics or urethanes