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## VAT PHOTO POLYMERIZATION

Principle of Operation Process Material Pros & Cons Applications : 3D Systems & CMET's SOUP

## PRINCIPLE OF OPERATION

Uses photo polymer resins

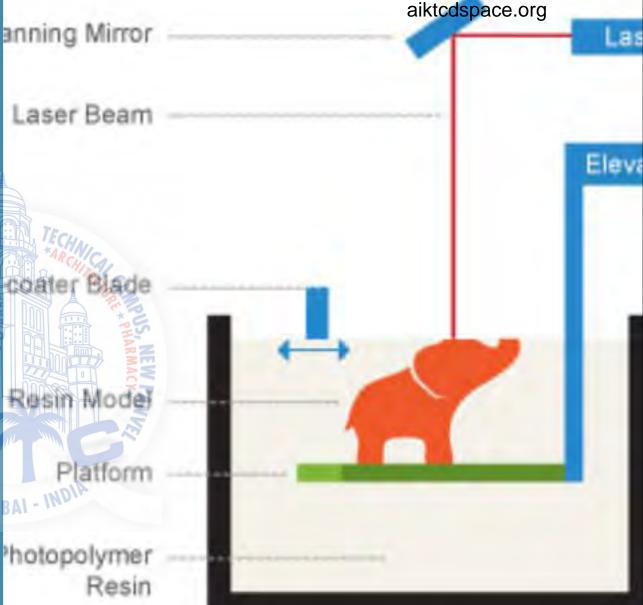
Model is constructed layer by layer

The height of a single layer is usually 0.025 - 0.5mm

Usually no structural support (if needed provided with same material)

UV light is directed across the resin surface with the help of motor controlled mirror

Where the resins comes in contact with UV laser light, the resin cures or hardens



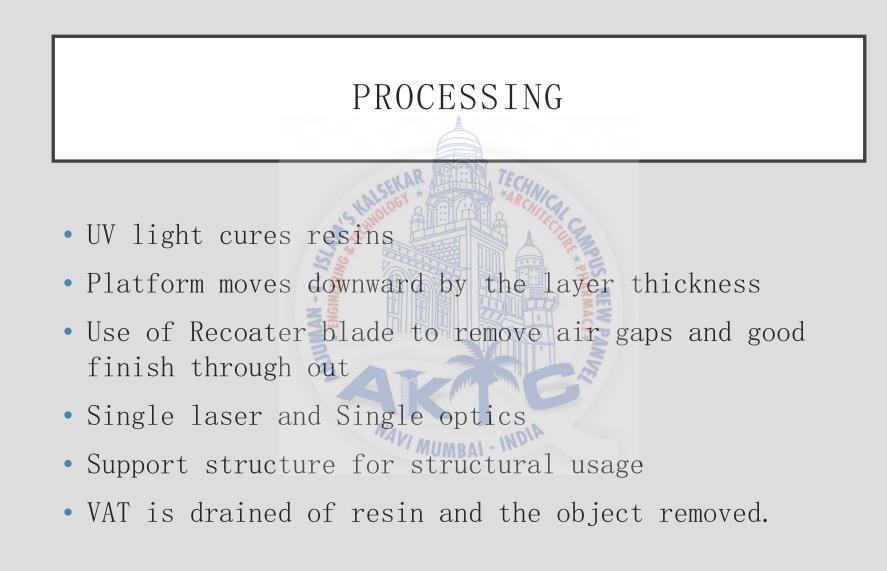
## Stereolithograph

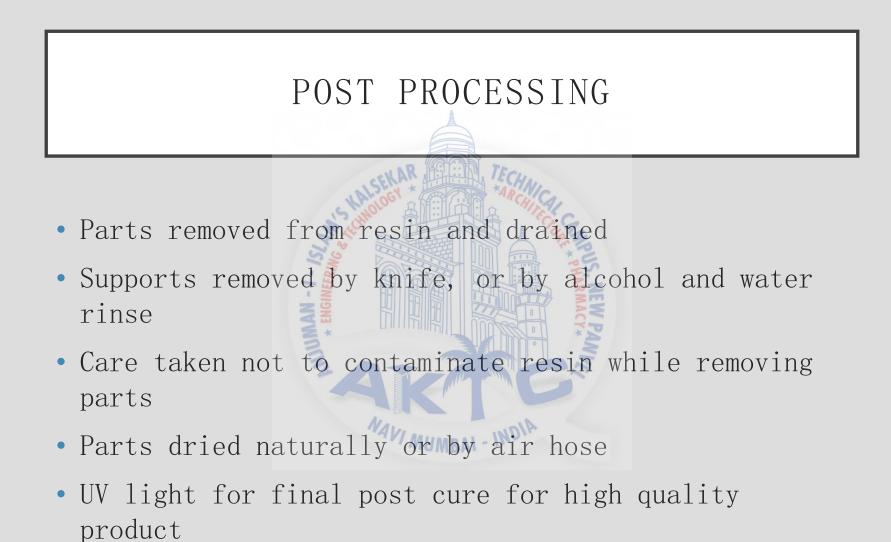
anning Mirror

Laser Beam

coater Blade

Resin Mode

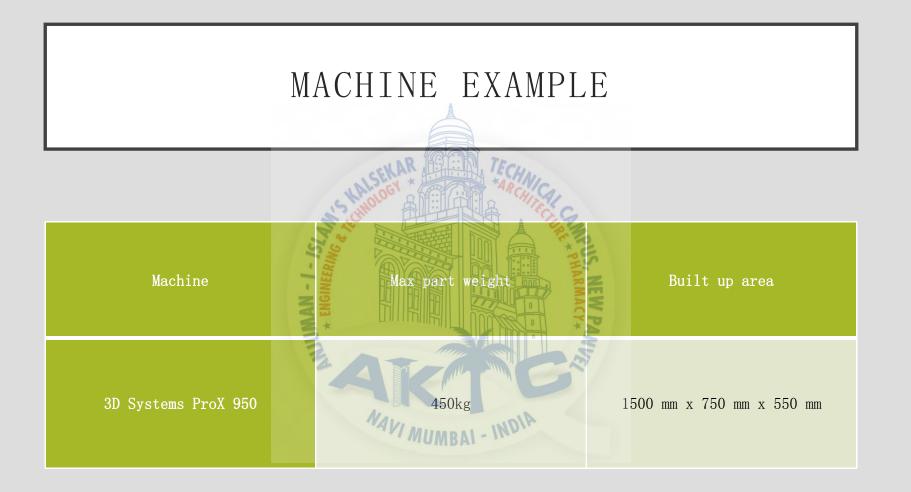


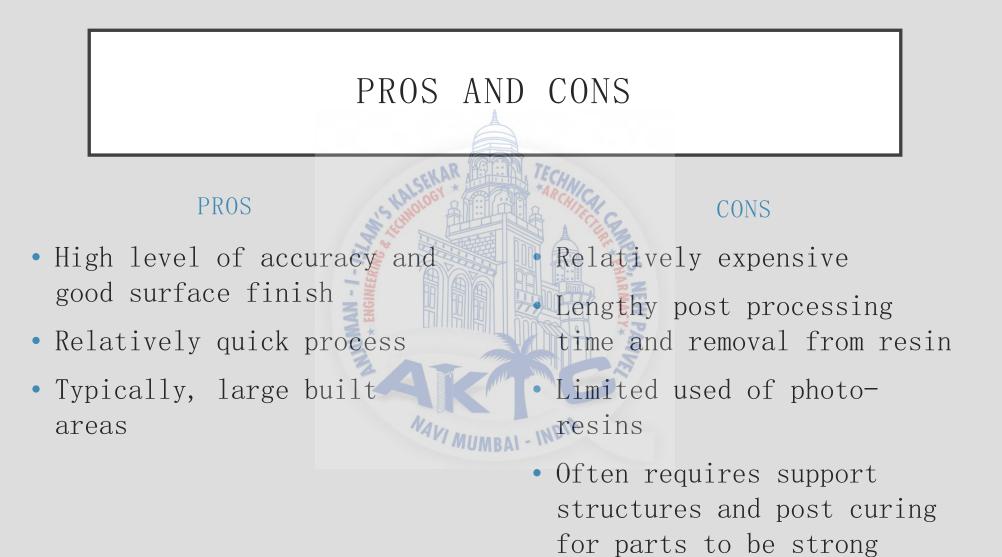




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enough for structural use