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SPG Pre-Series Tooling & Prototyping

DLP (Digital Light Processing) Technology

DLP is a 3D printing technology used to rapidly produce photopolymer parts. It's very similar to SLA with one significant difference – where SLA machines use a laser that traces a layer, a **DLP machine uses a projected light source to cure the entire layer at once.** The parts are formed layer by layer.

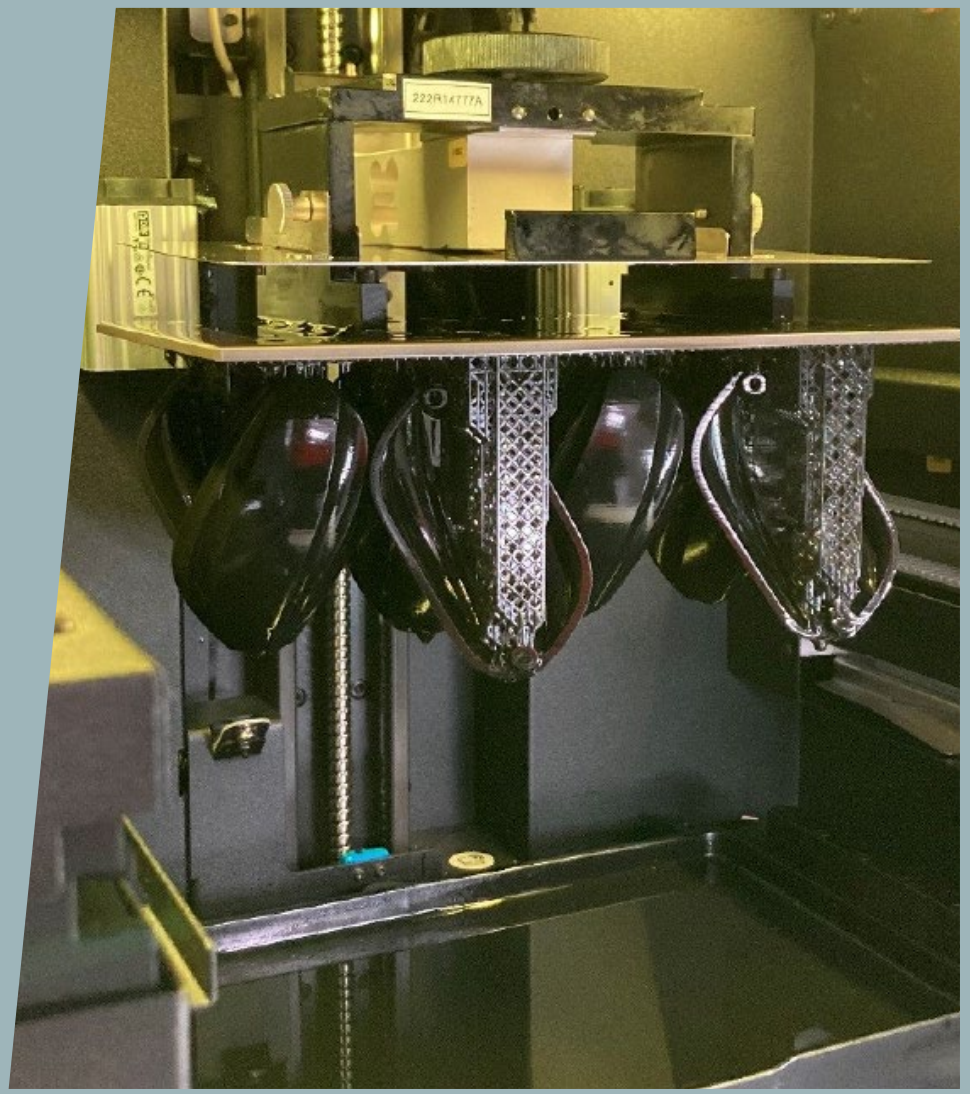
DLP can be used to print extremely intricate resin design items with fine details. Due to it curing the entire layer at once, it's much faster than SLA.

Advantages & Characteristics:

- Excellent part quality and fineness
- Ultra-fast: very high production speed (up to 10cm/h)
- Industrial quality prototypes or even production parts for low volume quantities. Due to the wide range of materials available, most industrial sectors and fields can be addressed.
- Same post-process steps as SLA.
- Minimal finishing required

Typical tolerances:

- Typical Tolerances: NF T 58-000 normal class prototyping
- Layer Thickness: 50 micron



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DLP - G:

- Machine size: 231 x 130 x 300 mm

- **Materials available:**
  - Soft resin: Loctite Ind402
    Black, 82A Shore Elastomer, High Tear Strength
  - Semi-flexible resin: Loctite 3843
    Black, Semi-Flexible, Outstanding surface finish
  - Rigid resin: Loctite 3172
    Grey, High-Impact Strength, 100% Elongation at Break

- **Special materials:**
  - BASF Ultracur3D RG 3280
    White, Ivory, Ceramic-filled, HDT 284C, Hard Surface Finish

- **Superior Stiffness:**
  - BASF Ultracur3D RG 9400 B FR
    Black, UL94 V0, HDT 255C
  - BASF Ultracur3D RG 35 B
    Black, Biocompatible, Low Moisture Absorption

DLP - L:

- Machine size: 124.8 x 70.2 x 196 mm

- Materials available:
  - **Soft resin:** Rubber Shore 65A Black
  - **Flexible resin:** Flex-BLK-20
  - **Rigid resin:** Black, white and grey colour

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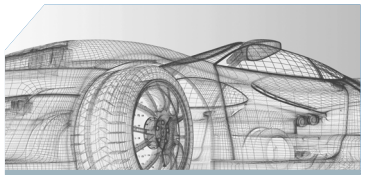
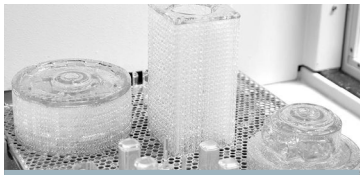
V: 25-06


1. Engineering


2. Rapid Prototyping


3. Raw Materials


4. Toolmaking


10. Logistics

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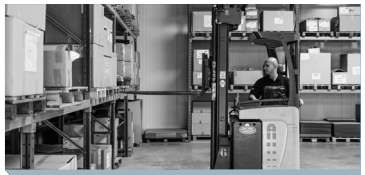
5. Parts Production


9. Warehousing


8. Quality Control


7. Assembly


6. Finishing

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Interested in what we can do for you?
Scan the QR code for more information.