detax

Workflow guide

dx direct aligner

2026

General Information

Annex 1

Digital light Processing (DLP) printer, operation software and parameter

Model (Picture)	Printer Manufacturer	Light source	Light intensity	Operation Software	Parameter data set*
	Asiga Max	385 nm	7.0 mW/cm²	Composer 2.0.8	Detax_dx direct aligner_5
	Asiga Max 2	385 nm	7.0 mW/cm²	Composer 2.0.8	Detax_dx direct aligner_5

Device validation is ongoing. More devices will be available soon.

Please check the detax online validation matrix on our homepage www.detax.com.

General Information

Cleaning Equipment

Cleaning unit Manufacturer, Model	Cleaning process
Ultrasonic bath Bandelin Sonorex	Clean the parts with isopropyl alcohol (purity ≥ 98 %) for 3 minutes. Then thoroughly clean the openings, cavities and gap areas with compressed air. The main cleaning is performed in a seperate vessel with fresh isopropyl alcohol (purity ≥ 98 %) for 3 minutes. Prior to post-exposure, check the openings, cavities and gap areas for residues. Then blow off with compressed air.

*The set of parameters includes all relevant material- and printer specific information

Light curing Equipment

Light Curing unit Manufacturer, Model	Curing process
NK Optik Otoflash G171	2 x 2000 flashes under inert gas, turn around components after 2000 flashes

Device validation is ongoing. More devices will be available soon.

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Design
dx direct aligner

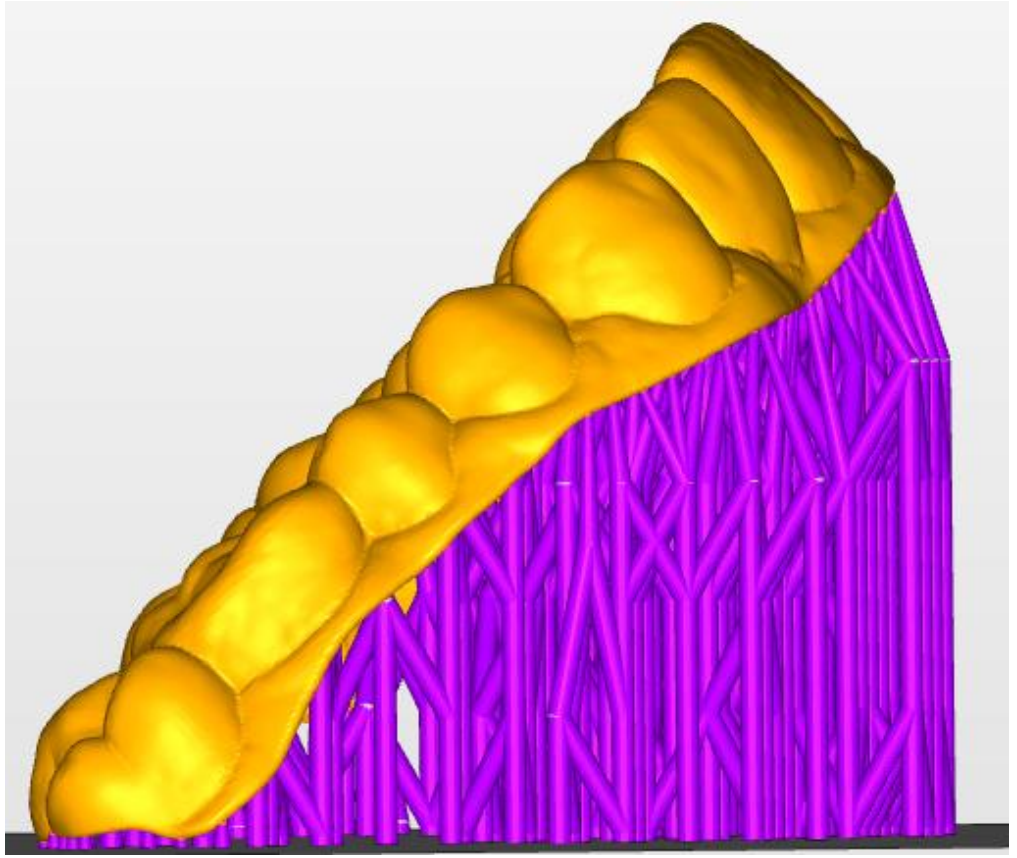
Maestro 3D & OnyxCeph

- Wall thickness
  - Min 0.5 mm / 500µm

Nesting

dx direct aligner - orientation

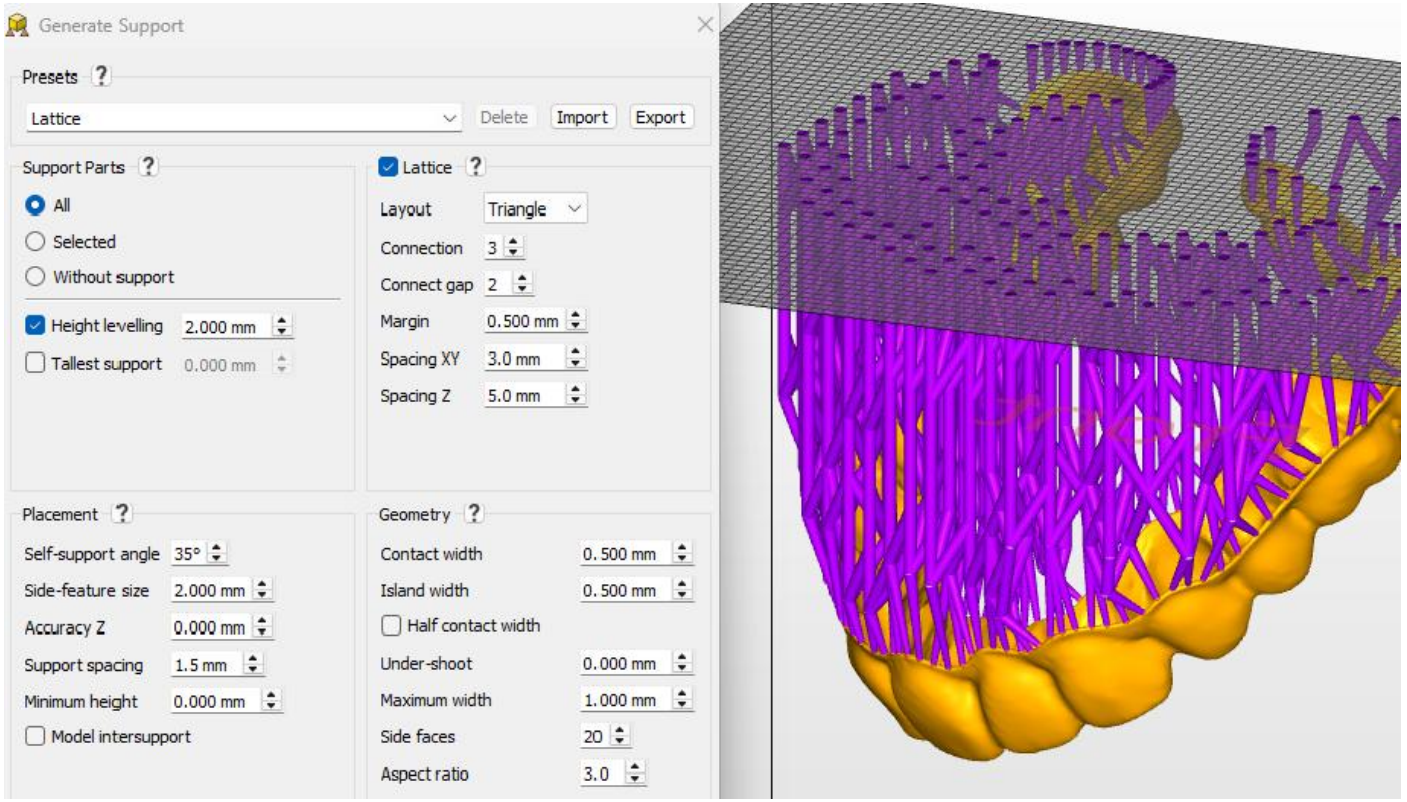
- Orientation
  - 45 – 60 degrees
- Slicing thickness
  - 50 – 100µm
- Tray suggestion to reach the best surface quality
  - Asiga Ultra gloss Lift tray
  - Rapidshape Crystal polish tray

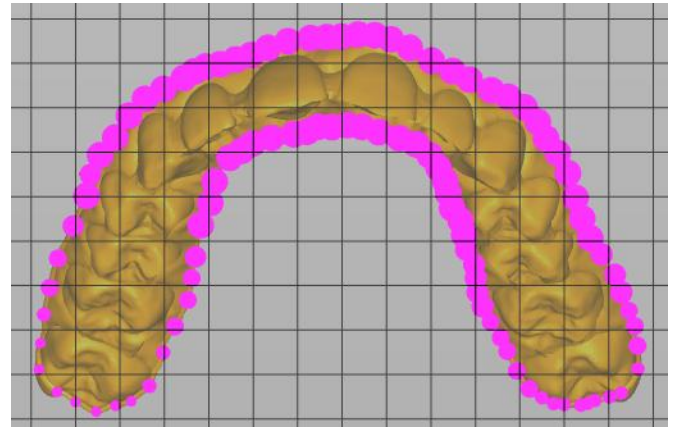


Nesting

dx direct aligner - supporting & basegrid

- Supports only at the trim-line
- Basegrid
  - Thickness 0,3mm
  - Shadow typ
  - only under supportet objects





Finishing

dx direct aligner

- Washing
- Post curing
- Heating treatment
- Removing supports
- Smoothing trim-line

1. Washing process
   Please observe the specifications in the annex document. Page 3

2. Post curing
   Please observe the specifications in the annex document. Page 3

3. Heating treatment

   a) Please heat the aligner to 100°C / 212°F for one hour and then allow it to cool back to room temperature. **This step is only necessary for chairside procedure**.

   b) Without this heating treatment, the printed aligner will reach the stability specified in the TDS document after approximately 2 days.

4. Removing supports

   a) In a chairside procedure, remove the supports and base grid only after the heating treatment, when the aligner reached back the room temperature.

   b) If you use the procedure without heating treatment, could you remove the supports and base grid after the post curing process.

5. Smoothing trim line
   We suggest the „super acrylic polisher“ from company „Kerr“.

Materials that matter

If you have further question, please contact support@detax.com.

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