

Smile Designs By Rego

Printing a Color Model Using 3Shape Dental System®

Overview

This document describes guidelines for preparing and printing full-color dental models using 3Shape Dental System[®] software and GrabCAD Print[™]. It enables J5 DentaJet[™] users to benefit from an end-to-end workflow from an intraoral scan to a full-color printed model.

- A. Minimum Requirements
- B. Importing the Stratasys Properties File into 3Shape Dental System
- C. Creating a Color Model
- D. Printing a Color Model



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Guidelines

A. Minimum Requirements

To use the 3Shape Color Model System profile with the J5 DentaJet[™] printer, the following applications and versions are required:

Supported Printer	J5 DentaJet™
Model Materials	Load the following materials into the printer: VeroDent [™] PureWhite, VeroYellow [™] V, VeroMagenta [™] V, and VeroCyan [™] V
3Shape Dental System Version	2022
Stratasys Properties File	Stratasys Full Color Models_V1.dme
GrabCAD Print Version	V1.71 to use the 3Shape Color Model Profile with the J5 DentaJet printer

B. Importing the Stratasys Properties File into 3Shape Dental System

- 1. Open 3Shape Dental System Control Panel.
- 2. Go to *Tool > Import/Export* and select **Import materials**.
- 3. Locate and select Stratasys Full Color Models_V1.dme and then import the file.
- 4. Save and close 3Shape Dental System Control Panel.

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C. Creating a Color Model

Figure 2: Model settings

• After scanning a patient's mouth using an intraoral scanner (IOS), a new order form is created in 3Shape Dental Manager.

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Figure 1: Order Form with model settings

- In the CAD Settings, select one of these options:
 - Stratasys Hollow Model <with or w/o> Friction Bars
 - Stratasys Solid Model <with or w/o> Friction Bars

Note: The Friction Bars option is relevant when using a die.

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Figure 3: Hollow model



Figure 4: Solid model

Printing a Color Model using 3Shape Dental System[®]

- Continue with your regular workflow to create a dental model.
- In the Orders tab, Case ID list, right-click the CaseID. From Advanced options, select Explore CAM.

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Figure 5: 3Shape Dental Manager – Explore CAM option

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D. Printing a Color Model

- In GrabCAD Print:
 - Verify that all 4 color materials are loaded in the J5 DentaJet printer: VeroDent PureWhite, VeroYellow-V, VeroMagenta-V, and VeroCyan-V.
 - In Tray Settings > Color Profile, select
 3Shape Color Model Profile.



Figure 6: GrabCAD Print – Tray settings and Color Profile

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