3Shape Parameters
for Dental Models built with EnvisionTEC® 3D Printers

The **3Shape Dental Designer** software has been successfully tested by EnvisionTEC®.

Settings for Dental Models with Dies

EnvisionTEC® recommends the following settings for the dental model design. Dental models were designed in the **3Shape Dental Designer** and built on a **3Dent™** machine using the **E-Denstone** material. The **3Dent™** is EnvisionTEC®'s machine recommended for model production and E-Denstone is EnvisionTEC®'s material designed for dental models and dies. Below are listed the **3Shape Dental Designer** settings recommended for this machine/material configuration.

Name	General		Margin line and Ditching						
	Description	Material	Protect Contacts Above Margin (mm)	Base Margin Height (mm)	Ditch Height (mm)	Ditch Depth (mm)	Ditch and Trim Model	Margin Thickness (mm)	Standard Die Shape
E-Denstone 3Dent Machine	EnvisionTEC	E-Denstone	2.000	0.125	0.800	0.300	False	0.000	True

Base Main Height (mm)	Base Wall Angle (deg)	Base Stop Surface Width (mm)	Base Stop Surface Angle (deg)	Die to Model Spacing (mm)	Post to Model Spacing (mm)	Friction bar Width (mm)	Friction bar overlap (mm)	Number of Friction Bars
5.000	5.000	0.000	45.000	0.050	0.100	0.000	0.000	0

Vertical Insert Direction	Print Abutment as Part of Model	Pin Type	Snap Off Pin	Pin Height (mm)	Pin WallAngle (deg)	Pinless Hole Type	Side Ejection Hole Type	Pushing Indent Type
False	False	PinCylindrical	False	2.000	0.000	CADCylindricalBottomHole	None	Pin shaped pushing indent

Pushing Height (mm)	Use Drill Compensation	Drill Radius (mm)	Minimum Model Base Height (mm)	Hollow Model	Surface Thickness (mm)	Use Variable Thickness	Hollow Dies	Drain Hole Size (mm)	Use ID Tag	FontHeight (mm)
1.500	True	0.150	4.000	True	3.000	True	False	0.000	True	3.500

TextDepth (mm)	Print Layer Thickness (mm)	Platforms Distance (mm)	Articulator Interface	Friction Adjustment For Angle	Friction Adjustment For Size	Design to Model Spacing (mm)	General Clearance (mm)	Analog Friction bar Width (mm)	Analog Friction bar overlap (mm)
-1.000	0.050	0.000	Not specified	0.000	0.000	0.100	0.100	0.000	0.000

Number of Analog Friction Bars	Analog to Model Spacing (mm)	Analog hole level adjustment (mm)	Side Drain Hole Type	Side Drain Hole Center Height (mm)	Side Drain Hole Distance (mm)	Protect Analog (soft tissue)	Protect Analog Distance (mm)
8	0.100	0.000	None	3.0	10.0	False	0.500

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