

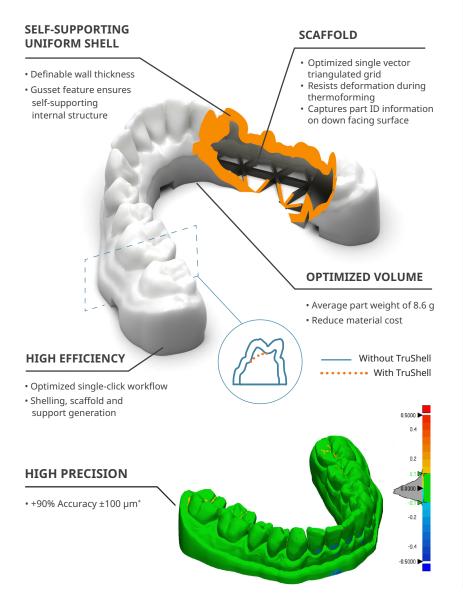
3D Sprint TruShell for Orthodontic Models

Single-click optimization of printing orthodontic dental models

3D Sprint TruShell print management software was specifically developed for orthodontic tooling models. Through a single-click workflow, 3D Sprint TruShell creates shelling, scaffold and support generation optimized for production on the 3D Systems ProX[®] 800 stereolithography system with Accura[®] 55 or Accura 60 material.

SIMPLE, HIGH PRECISION

In a single operation, 3D Sprint TruShell produces open bottom, selfsupporting shelled models, together with an optimized support structure. In addition, through the Auto Place feature in 3D Sprint, the number of parts per build platform on the ProX 800 are maximized with automatic part nesting.

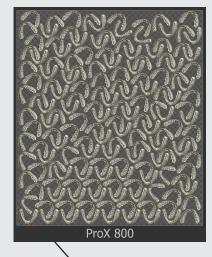


ORTHODONTIC TOOLING MODELS

Printer: SLA ProX 800 Material: Accura® 55 / Accura® 60 Wall Thickness: User definable Average Density Print: 160 arches / platform Average Print Time/Part: 3 - 4 minutes

SOLID ARCH VS TRUSHELL COMPARISON*

	SOLID ARCH	TRUSHELL	
Weight: (Average)	14.3 g	8.6 g	40% REDUCTION



EFFICIENT NESTING

• Average 160 arches / platform

• Single-click [AUTO PLACE] feature in 3D Sprint TruShell



ProX® 800 Stereolithography Printer

Max Build Volume (xyz) ¹	Flexible build volume options with interchangeable material delivery modules (MDM)
Full:	25.6 x 29.5 x 21.65 in (650 x 750 x 550 mm); 109.3 U.S. gal (414 l)
Half:	25.6 x 29.5 x 10.8 in (650 x 750 x 275 mm); 71.9 U.S. gal (272 l)
Short:	25.6 x 29.5 x 1.97 in (650 x 750 x 50 mm); 25.09 U.S. gal (95 l)
Max Part Weight	165 lbs (75 kg)
Max Resolution	4000 DPI ²



¹ Maximum part size is dependent on geometry, among other factors.

² Equivalent DPI based on laser spot location resolution of 0.00635 mm in 3D Systems' testing.

Materials for ProX SLA 800 Printers with 3D Sprint TruShell

	Solid Density (g/cm³) @ 25 °C	Viscosity (cps) (@ 30 °C)	Flexural Modulus (MPa) ASTM D 790	Flexural Strength (MPa) ASTM D 790	Tensile Modulus (MPa) ASTM D 638	Tensile Strength (MPa) ASTM D 638	Elongation at Break ASTM D 638	Impact Strength (J/m) ASTM D 256	Heat Deflection Temp (°C) ASTM D 648
Accura 55	1.21	155-185	2690-3240	88-110	3200-3380	63-68	5-8 %	12-22	@ 66 PSI - 55-58 @ 264 PSI - 51-53
Accura 60	1.20	150–180	2700-3000	87-101	2690-3100	58-68	5-13 %	15-25	@ 66 PSI - 53-55 @ 264 PSI - 48-50

Note: Not all products and materials are available in all countries - please consult your local sales representative for availability.

Warranty/Disclaimer: The performance characteristics of these products may vary according to product application, operating conditions, or with end use. 3D Systems makes no warranties of any type, express or implied, including, but not limited to, the warranties of merchantability or fitness for a particular use.

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