Datum Tension FG performance, lower cost

No.1 for performance worldwide

Our obsession with print performance and data has resulted in Tension, our most innovative SMT stencil material yet. Our goal was simple: deliver a true cost reduction without compromising performance.

We wanted to create a product that would laser cut and print like FG but with a cost comparable to PhD plus offer the flexibility to work in all stencil types – including meeting the emerging demand for High Tension Stencils.
We did it. Which is why our data says yes!

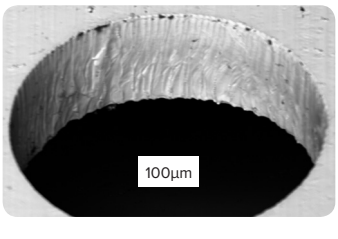
- Tension stencils produce the highest print yields
- Available in all the Datum thickness and width formats
- Manufactured with end-to-end process control and data capture
- Reduces noise and variability in the print process

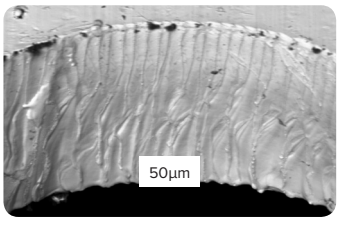
Product Selector Guide

	PhD	FG	Tension
Miniaturised or high-density assembly		•	•
Area ratios <0.66		•	•
General SMT, lead pitches≥ 0.5mm, leadless pitches≥ 1.0mm	•		•
Stepped stencil for µBGA, CSP, QFN, BTC		•	•
Uniform foil thickness ≥150µm	•		•
Powder Size Type: 4, 5, 6		•	•
Powder Size Type: 3	•	•	•

Specifications

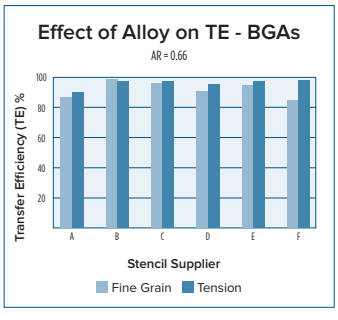
- **Gauges:** 0.02mm to 0.30mm
- **Sizes:** Widths from 100mm to 690mm
- **Availability:** Worldwide

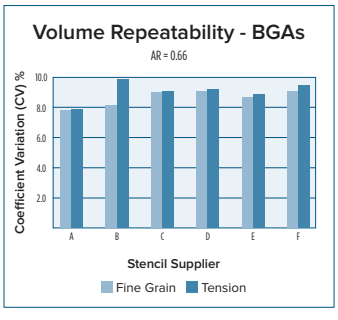




Wall smoothness

- Smooth walls enable better solder paste fill and release
- Drops into current processes without requiring parameter adjustments
- Laser cuts as cleanly and easily as PhD or FG

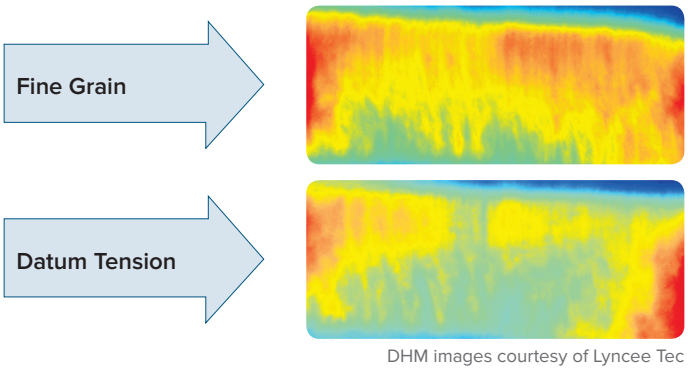




Wall Roughness Comparison

Holographic Microscopy

Cut with the same laser parameters, the best performer



DHM images courtesy of Lyncee Tec

Tougher steel

- Can carry high tension without stretching to maintain precise registration with PCB
- Stronger, stiffer webs limit springback to produce crisper prints
- Excellent alternative to Nickel for high-volume operations

Quality commitment

- Right first time, every time
- Excel and lead in customer service and technical support
- Continuous process improvement

Datum

The data says yes

www.datumalloys.com