

Carbon[®]

DB4000[™]

Engineered tough. Printed precise.



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Features & Benefits

DB 4000

Carbon's DB 4000 is a production-ready, high-impact denture base resin engineered to deliver exceptional clinical performance while providing better economics for dental labs than leading alternatives*



Maximize Lab Profitability

DB 4000 can help labs improve margins on denture bases at a competitive cost per part,* supporting greater profitability without compromising strength, accuracy, or workflow efficiency.



ISO 20795-1 Hi-Impact Compliant

FDA-cleared and validated to the international standard for high-impact denture base.



Aesthetics & Broader Patient Coverage

Four gingiva shades: Original Pink, Light Pink, Dark Reddish Pink, Dark Meharry.

LIGHT PINK



ORIGINAL PINK



DARK REDDISH PINK



DARK MEHARRY



*Based on MSRP. Data on file.



Familiar Single-Cure Workflow

A simple one-part, single-cure system that follows the familiar Carbon digital denture workflow labs already know and trust—without additional materials, processing steps, or workflow changes.



Built for Carbon Automation & DLS Platform

DB 4000 is exclusive to Carbon M-Series Printers* and designed to work seamlessly with Carbon's Automatic Print Preparation (APP) — part of the AO Suite ecosystem of software, hardware, and materials engineered to work together.

*as of 2026 launch.

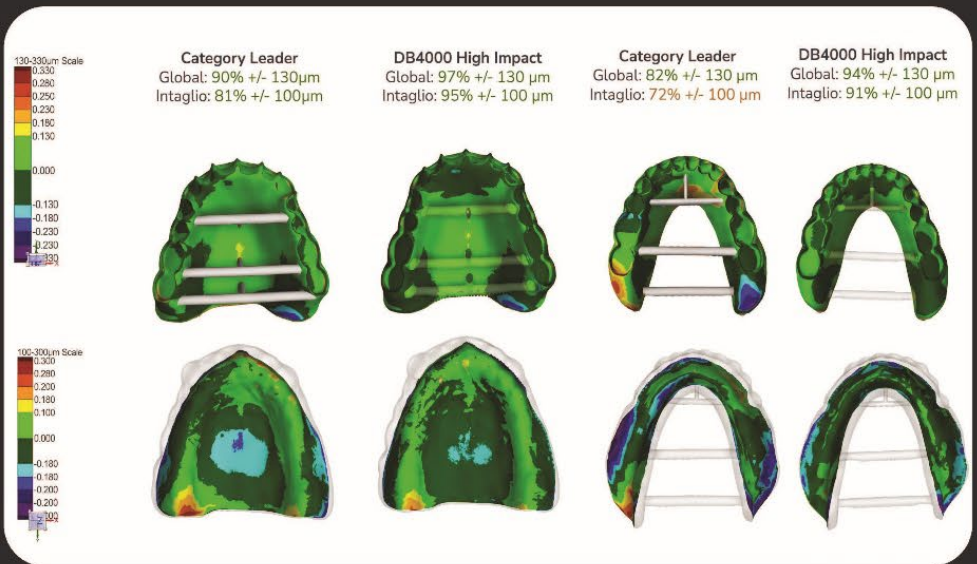




High Print Accuracy

DB 4000 averaged 97% global accuracy within $\pm 130\mu\text{m}$ and 95% intaglio accuracy within $\pm 100\mu\text{m}$, surpassing the category leader.*

Engineered for dimensional accuracy, DB 4000 and its printing workflow accurately reproduce the original STL specifications in the final printed denture, supporting consistent, well-fitting denture bases.



Legend:

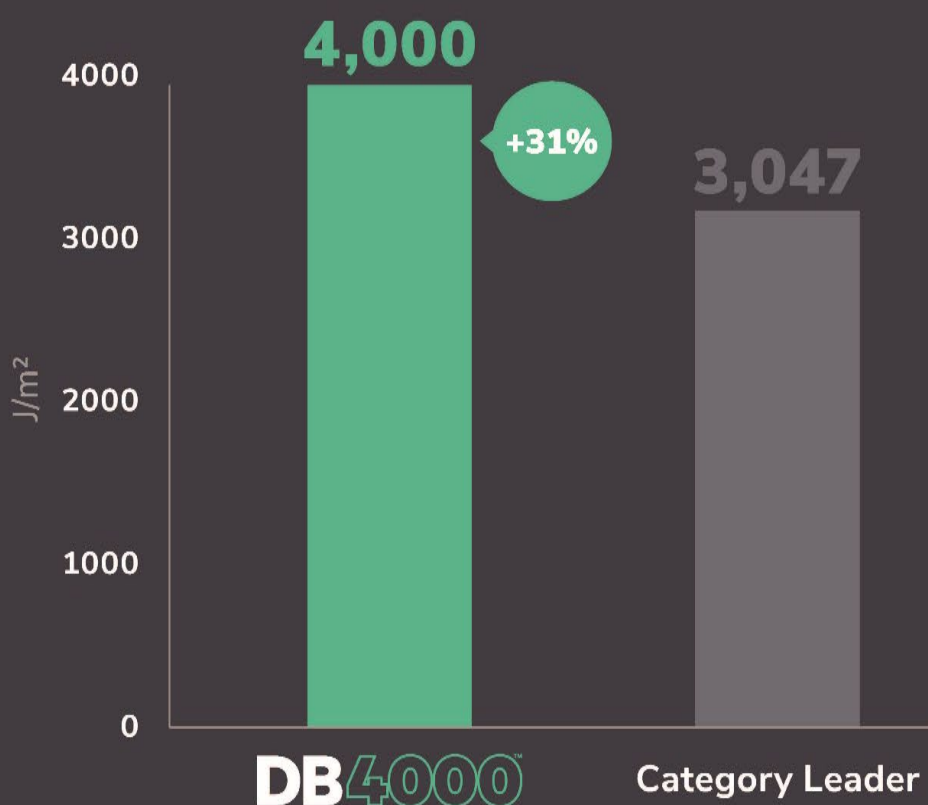
The color scale helps visualize dimensional deviations between the STL and the scanned denture. Warmer colors are positive and cooler colors are negative deviations in microns.

The green results show passing of internal accuracy specifications and the orange results are failing.



Most products earn a name. **DB 4000** earned its number.

DB 4000 isn't a product code — it's a mechanical property claim. At 4,000 J/m² work of fracture, tested at 37°C in water under modified ISO 20795-1 conditions. That's 31% tougher than the category leader's published results, measured in a simulated oral environment.*



Technical Specs Highlights

4,000 J/m²

work of fracture — vs.
3,047 J/m² for the category
leader (+31%)*

>65 MPa

flexural strength at
37°C in water

3.7 MPa·m^{0.5}

fracture toughness at
body temperature

>2,000 MPa

flexural modulus at
37°C in water

*Data on file. Category leader is established by the most used resin on Carbon printers. Results measured from the number of dentures base printed part by brand validated on Carbon printers.

Why Labs Should Choose **DB 4000**

- Competitive cost per part than leading alternatives.*
- ISO 20795-1 Hi-Impact compliant.
- 4,000 J/m² work of fracture.
31% tougher than the category leader.*
- 97% print accuracy, surpassing the category leader.*
- FDA-cleared Class II medical device.
- Familiar single-cure workflow.

*Data on file. Based on MSRP

DB 4000 is available in the US and validated for Carbon M-Series Printers only.



LEARN MORE

carbon3d.com/material-db4000-labs

