

This Jewellery House Crafts the World's First All-Diamond Ring — No Metal, Just Brilliance!

Published on 10 Oct 2025 | By IFI Correspondent



C Krishniah Chetty Group of Jewellers Unveils the World's First Ring Crafted Entirely from a Single Diamond

What if a diamond could be more than a stone set in gold? What if it was the ring itself?

That was the radical idea that sparked one of the most remarkable jewellery innovations of 2025 — a **7.93-carat faceted diamond band** crafted entirely from a single crystal, **with no metal involved**.

The visionary behind this groundbreaking creation is none other than **C Krishniah Chetty Group of Jewellers**, a heritage Indian brand known for redefining luxury and craftsmanship for over 150 years.

A Question That Sparked an Innovation

It all began with a simple question from a client nearly three years ago:

"Can you make a ring with no gold?"

At first, the idea sounded impossible by every rule of jewellery making. But for the creative team at **crash.club by CKC**, that challenge was too inspiring to ignore.

"What began as a client's request soon became our collective pursuit to see if we could let the diamond stand entirely on its own — with no support, no metal, and no compromise," shares **Chaitanya V Cotha**, Executive Director at C Krishniah Chetty Group of Jewellers.

The result? A feat of engineering, artistry, and imagination — a **diamond-born ring** that celebrates the union of innovation and elegance.

Crafting Brilliance: Engineering the Impossible

This was not just design — it was **microscopic engineering**.

The brand's design team began by studying the diamond not merely as a gemstone but as a **precision crystal** with structural logic and atomic orientation.

"We used **single-crystal CVD-grown diamond**, carefully mapped its atomic planes, and ensured no cleavage lines intersected stress points," reveals the brand. "Every curve was modelled to distribute pressure evenly — beauty and

strength had to coexist.”

From Crystal to Couture: The Three-Year Journey

To create the perfect ring, designers began with a large, **lab-grown diamond block**. Using **femtosecond laser cutting** — one quadrillionth of a second per pulse — they cored the ring from within without causing heat-induced fractures. The finishing touch came through **diamond-on-diamond hand polishing**, giving the piece its flawless brilliance. Over **70% of the original diamond mass** was sacrificed in pursuit of this perfection — a true testament to the devotion behind this creation.

The entire process took nearly **three years**, involving advanced non-contact metrology, dark-field microscopy, and traditional craftsmanship. It’s a marriage of **modern technology and old-world artistry**, resulting in an object that feels both futuristic and eternal.

A Ring Without Boundaries — or Metal

Unlike traditional diamond cuts, this all-diamond ring follows a **continuous curvature form**. Every surface flows seamlessly into the next, allowing light to move uninterrupted across the surface. “It’s not cut — it’s sculpted,” the brand explains. “Each curve and polish point is intentional, balancing optical harmony with structural integrity.”

One-of-a-Kind Craftsmanship

Each piece of this creation is **custom-engineered** from scratch, ensuring safety, strength, and exclusivity. Only **VVS+ clarity, D–F colour, single-crystal CVD diamonds** qualify for the process. “We can tailor the curvature and proportions for each client, but the diamond itself dictates what’s possible. We work *with* those limits, not against them,” Cotha notes. Every ring undergoes rigorous **microscopic evaluation and stress testing** before leaving the atelier — durable enough for daily wear, yet deserving of reverence like any true masterpiece.

Where Technology Meets Timeless Art

With this unprecedented creation, **C Krishniah Chetty Group of Jewellers** redefines what fine jewellery can be — not just an ornament, but a statement of human ingenuity. “Technology is only meaningful when it elevates art,” says Cotha. “And this ring stands as a reflection of that belief.”

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