

# FLEXPRO - PRO 1 (X-Chain Four-Dimensional Focus Series)













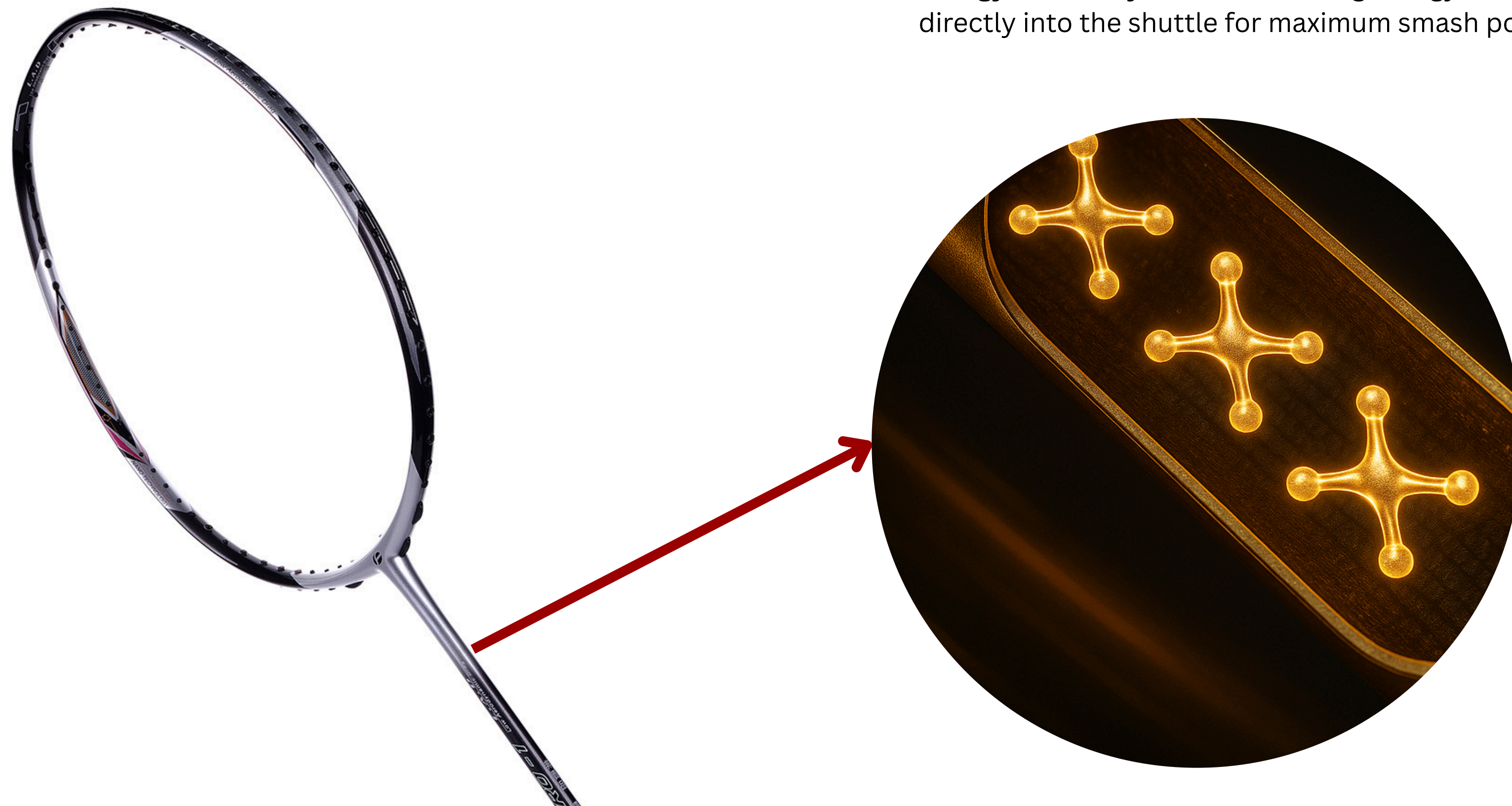
# Technical Specification

## X Chain Fullerenes Nano

**Nano-scale fullerene molecules** are bonded in an X-shaped chain network within the racquet's carbon structure. This creates a **reinforced molecular matrix** that's both **lightweight and incredibly strong**.

### Performance

- **Strength & Durability** – Fullerene X-chains improve structural toughness, preventing frame distortion.
- **Elastic Power** – Nano bonds increase elasticity, generating explosive shuttle repulsion.
- **Precision & Control** – Reduces vibrations for smoother, more accurate shot placement.
- **Energy Efficiency** – Transfers swing energy more directly into the shuttle for maximum smash power.



## Liltra Rigid Carbon Fiber

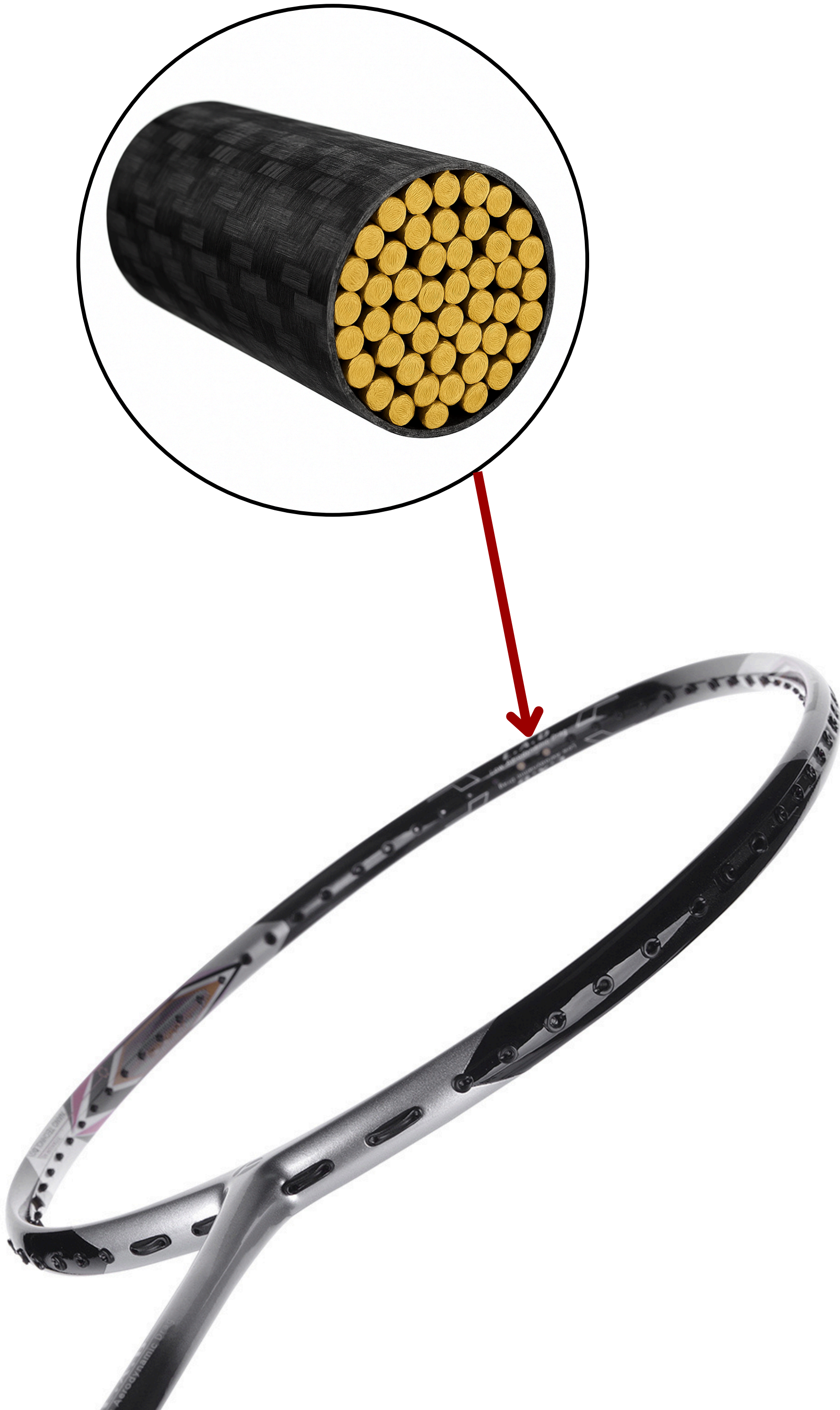
**Highly rigid carbon fibers** in the racquet frame and shaft to maximize stability and power. The material is engineered to resist deformation under stress, giving players a racquet that is **stiffer, stronger, and more responsive**

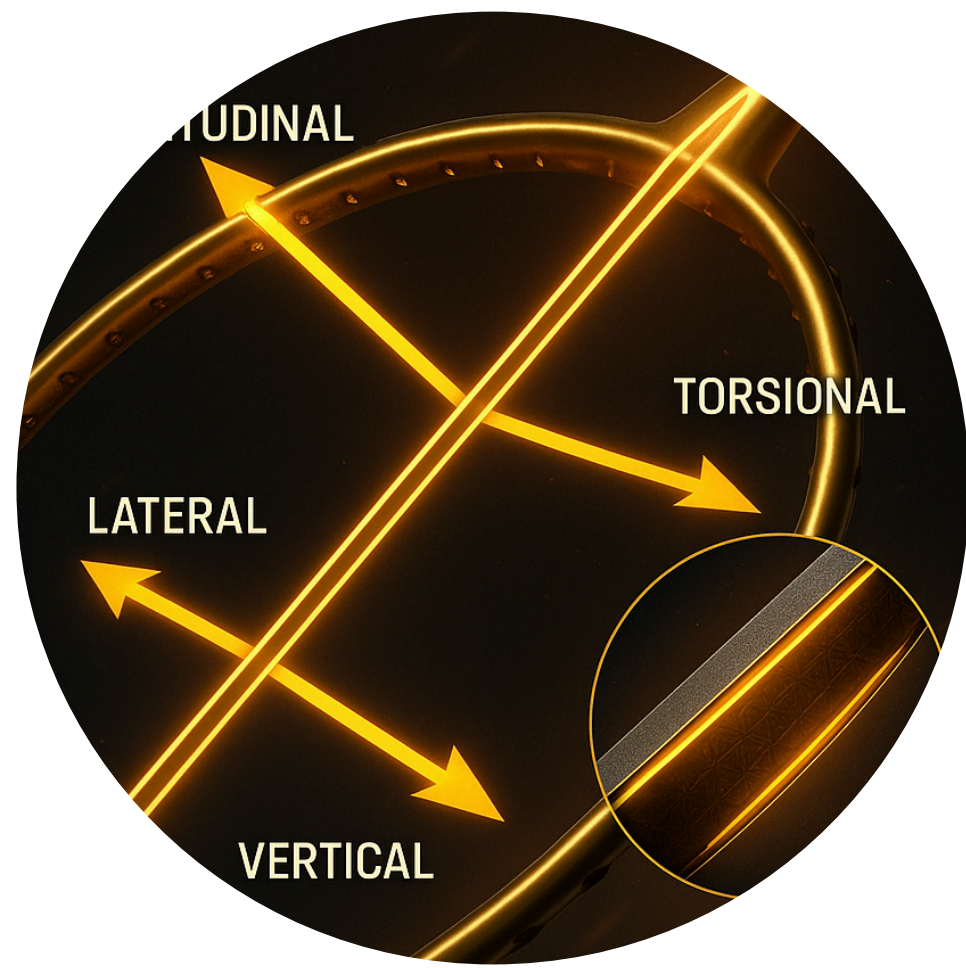
### Functionality:

- **Rigid Carbon Fibers:** The dense fiber arrangement prevents frame distortion during powerful smashes.
- **Energy Efficiency:** By reducing unwanted flex, more swing energy is directly transferred to the shuttle.
- **Stable Handling:** The rigid construction reduces vibrations, offering a cleaner, more controlled feel.

### Benefits

- **Strength & Durability** – Withstands high string tensions and repeated impact.
- **Explosive Power** – Generates faster shuttle speed thanks to improved repulsion.
- **Control & Precision** – Stiffer response ensures accurate shot placement.
- **Consistency** – Reliable performance even during aggressive play.





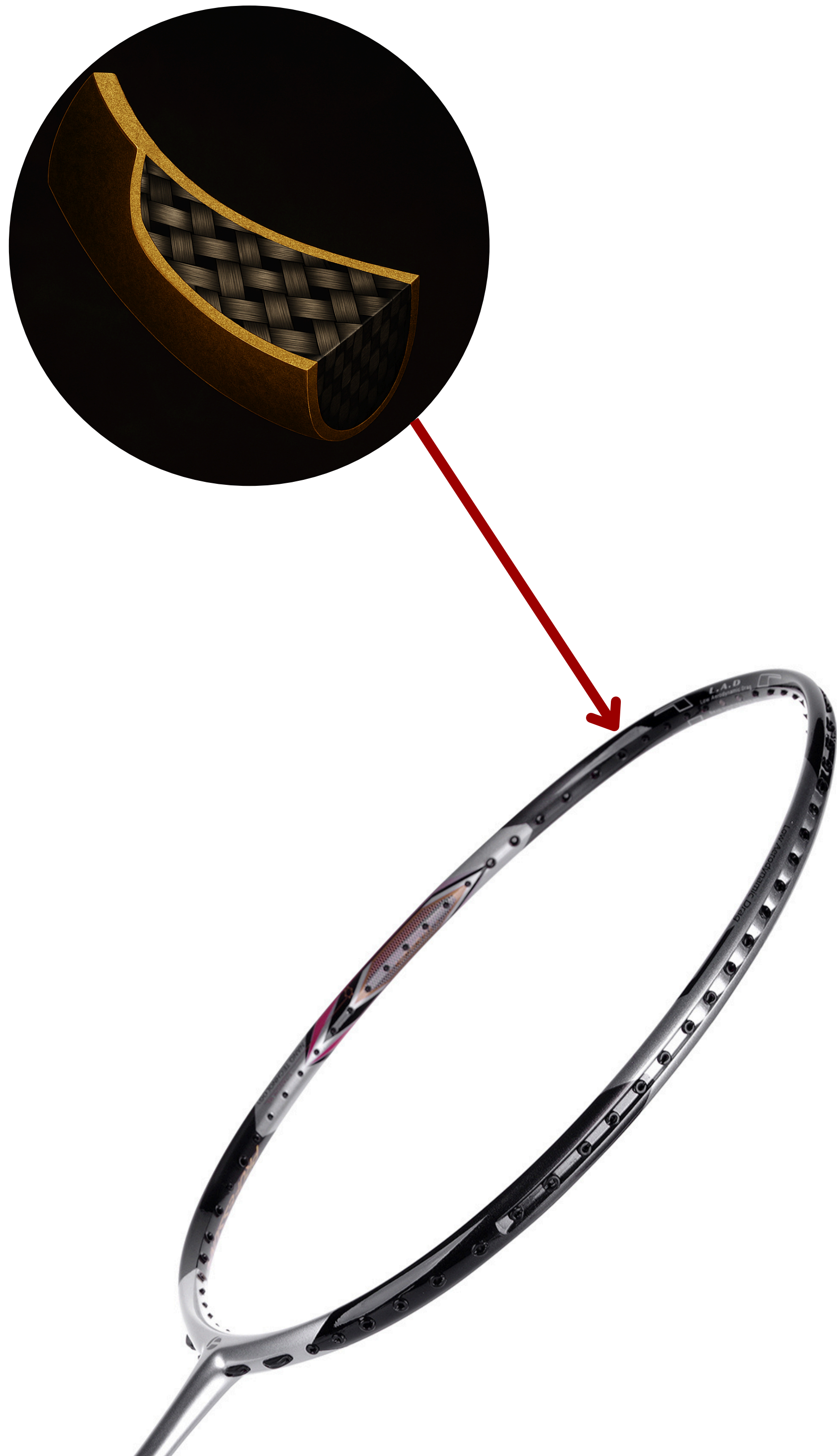
## Four-Dimensional Focus

Four-Dimensional Focus (4D Focus) is an advanced frame engineering concept that enhances a racquet's stability, control, and responsiveness by reinforcing it along four critical dimensions:

- **Longitudinal Stability** – Improves the racquet's ability to resist bending during powerful smashes.
- **Lateral Strength** – Enhances stability on off-center hits, giving more forgiveness and accuracy.
- **Torsional Rigidity** – Reduces twisting of the frame when the shuttle contacts outside the sweet spot.
- **Vertical Flex Optimization** – Allows controlled flex for energy transfer, maximizing power and shuttle repulsion.

### Benefits

- **Stronger Frame Durability** – Reinforced to withstand high tension and repeated impact.
- **Precision & Control** – Reduces distortion for accurate shot placement.
- **Explosive Power** – Efficient energy transfer creates sharper smashes and quicker drives.
- **Consistency** – Better stability means reliable performance across every stroke.

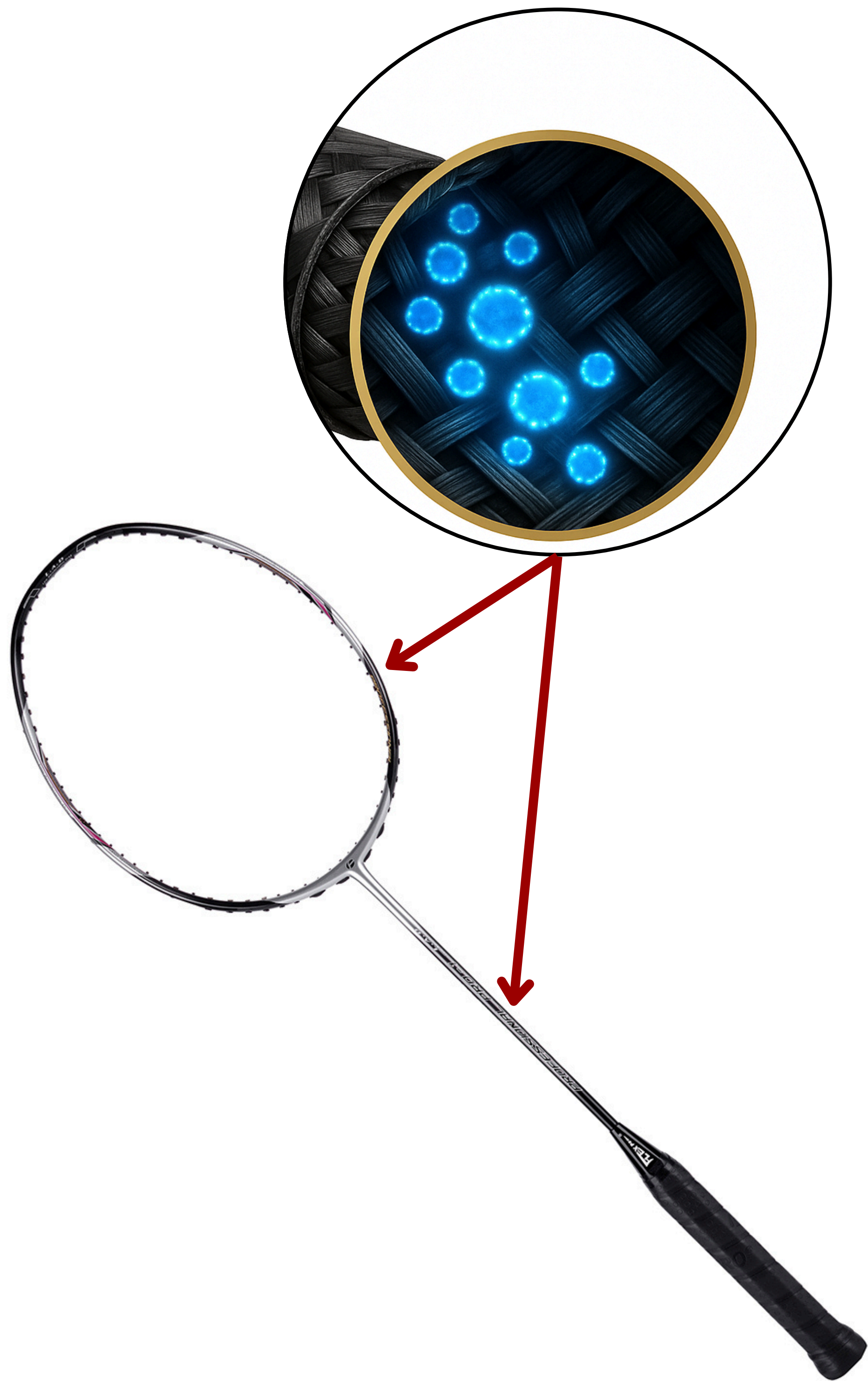


## Carbon fiber Woven

Interlaced carbon fibers arranged in a crisscross weave. Unlike single-direction fibers, the woven design offers multi-directional reinforcement, making the racquet both stronger and more durable

### Benefits

- **Durability:** Distributes stress evenly to prevent cracks and frame distortion.
- **Power:** Improves shuttle repulsion for stronger smashes.
- **Stability:** Reduces vibrations for smoother handling.
- **Consistency:** Maintains shape and performance under high tension.



## Nano technology

Nano Technology enhances racquet performance by integrating **nanometer-scale materials** into the carbon fiber matrix. These nano-particles or nano-tubes reinforce the racquet structure at the molecular level, making it **lighter, stronger, and more durable** without adding extra bulk

### Functionality:

- **Nano Reinforcement** – Nano-sized particles fill gaps between carbon fibers, increasing bond strength.
- **Improved Flex & Repulsion** – The nano matrix gives better shuttle rebound and explosive power.
- **Stability & Control** – Reduced frame vibration provides smoother handling and precision.
- **Durability** – Prevents micro-cracks, extending racquet lifespan even under high string tension.

### Benefits:

- **Strength & Durability** – Reinforces the frame against repeated impact.
- **Explosive Power** – Increases shuttle repulsion for faster, sharper smashes.
- **Accuracy** – Stabilizes the racquet for cleaner shot placement.
- **Lightweight Performance** – Keeps the racquet easy to maneuver while improving stability.