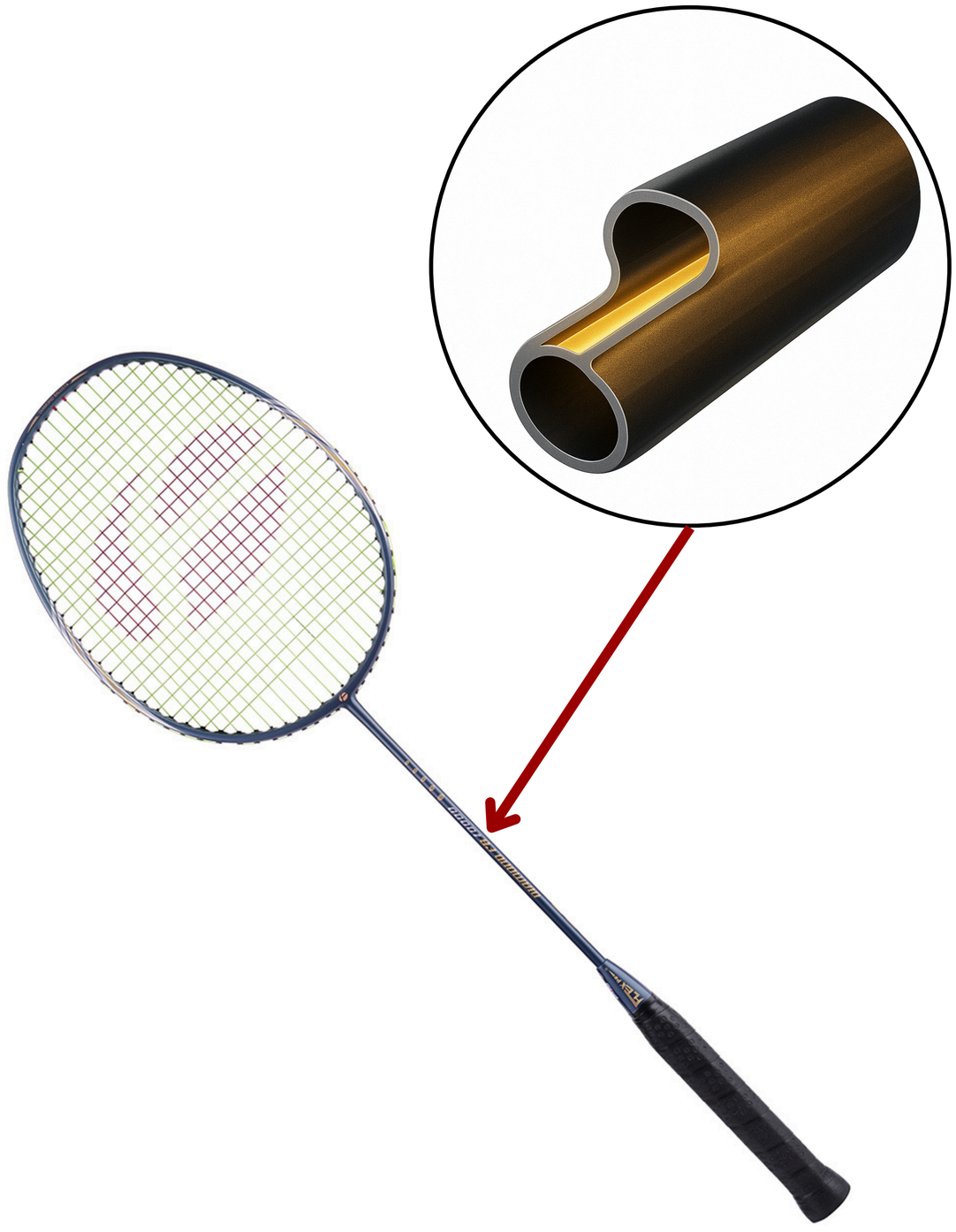
FLEXPRO DIAMOND SERIES (AB Pipe Golf-Club Design)

PATENT NO PCD1244352.7 VH438

RCD09002602025
GRIP
4U/G2
SIZE

DIAMOND FB 10000
WEIGHT
83-86
TENSION
24-28
LENGTH
670±1

Racquet Technology

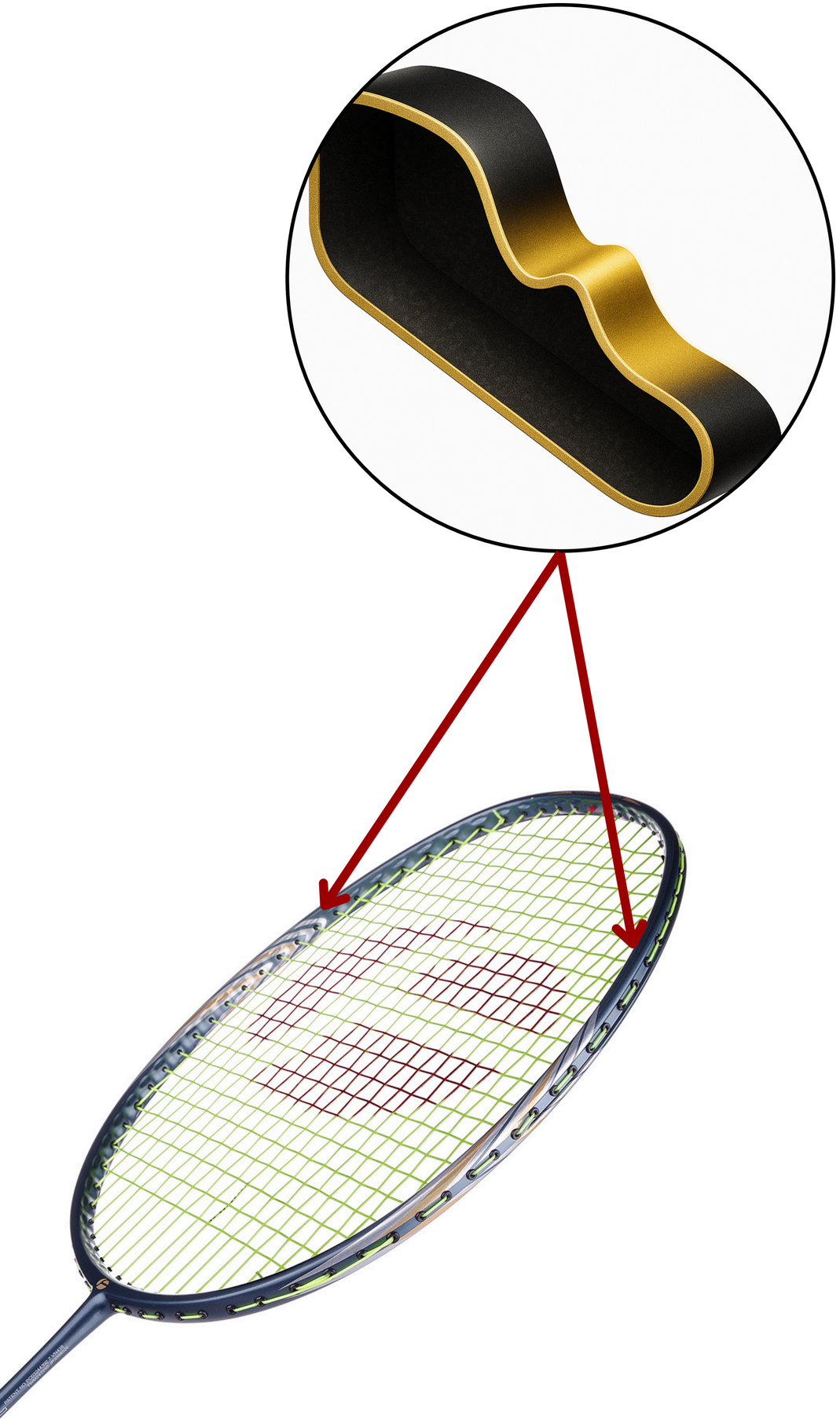


AB Pipe Golf-Club-Like Design

Inspired by the construction of golf clubs, this technology introduces an AB Pipe design in the racquet shaft, delivering greater stability, control, and power transfer. By reinforcing the shaft with a dual-pipe structure, it minimizes vibrations and ensures smoother energy flow from the handle to the frame.

Functionality

- **Dual Pipe Reinforcement –** Similar to a golf club's shaft, the AB Pipe design uses inner reinforcement for extra stiffness.
- **Vibration Reduction –** The unique structure absorbs unwanted shock, giving a more comfortable feel.
- **Energy Efficiency –** Energy from each swing is transferred more effectively into the shuttle, boosting power and precision.



Concave Convex Structure

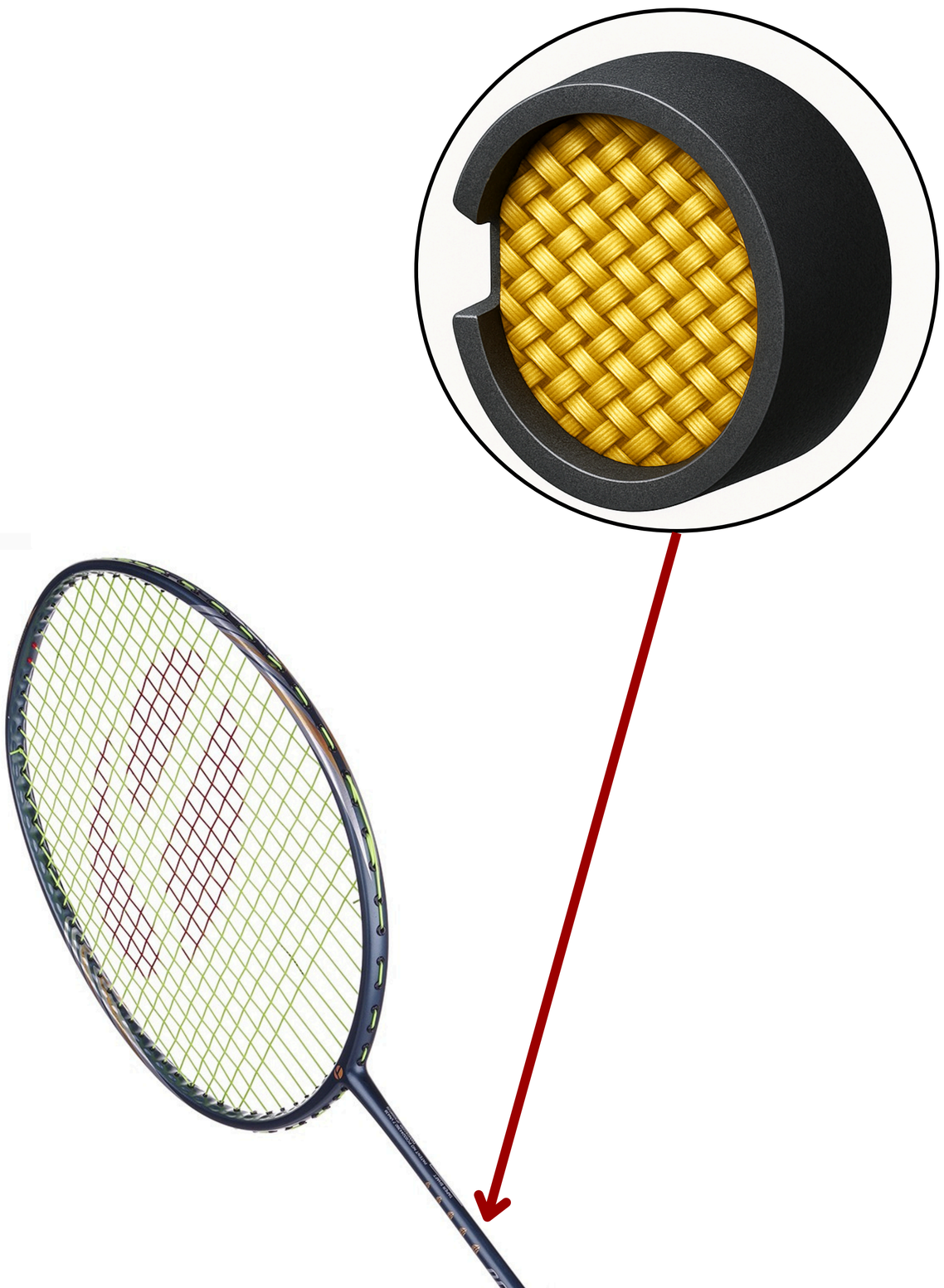
The unique shape improves aerodynamics, enhances shuttle control, and increases the racquet’s overall structural strength.

Functionality

- **Concave Grooves** – Create a streamlined airflow channel, reducing drag and allowing faster swing speed.
- **Convex Ridges** – Reinforce the frame structure, preventing deformation under high tension and impact.
- **String Stability** – The alternating pattern provides better string support, improving durability and shot accuracy.

Benefits

- **Faster Swing Speed** – Reduced drag means quicker racquet handling.
- **Power & Repulsion** – Stronger frame boosts shuttle rebound and power transfer.
- **Stability & Control** – Better structural reinforcement improves accuracy and shot consistency.
- **Durability** – Prevents frame distortion, especially under heavy smashes or high string tension.



High Rigid Carbon Fiber

High Rigid Carbon Fiber uses stiffer, densely packed carbon fibers to maximize racquet strength and stability.

Functionality

- **Dense Carbon Structure** – Fibers are layered tightly to increase rigidity.
- **Energy Transfer** – The stiff frame channels swing energy directly into the shuttle for explosive smashes.
- **Vibration Reduction** – Added stability minimizes unwanted frame vibrations, giving a cleaner shot feel.

Benefits

- **Strength & Durability** – Withstands high string tension and repeated impacts.
- **Explosive Power** – Stiff carbon produces faster shuttle repulsion.
- **Shot Accuracy** – Prevents twisting, improving control and precision.
- **Consistency** – Retains its structural shape for reliable long-term performance.