

BIO FIN PRO (RUBBER STRAPS)

The Apollo Bio-Fin Pro is a professional split-fin system designed for maximum propulsion efficiency and reduced diver fatigue.

Constructed from 100% natural rubber, the Bio-Fin Pro delivers exceptional thrust with minimal air consumption, ideal for long-range swims, tactical missions, and extended underwater operations.

Used widely across military and professional diving units for its durability, comfort, and superior hydrodynamic performance



FEATURES

- Split-fin propulsion system increases thrust and reduces air consumption by up to 40%.
- 100% natural rubber construction provides flexibility, strength, and consistent performance across temperature ranges.
- Designed for low drag and reduced leg strain during extended missions.
- Adjustable rubber straps for a secure and ergonomic fit with drysuit or wetsuit boots.
- Compact hydrodynamic design for helicopter and surface insertion operations.
- Proven in all forms of military diving: MCT, MTO, MCM, and UBDR.
- Non-corrosive components suitable for salt-water and contaminated environments.





SPECIFICATIONS

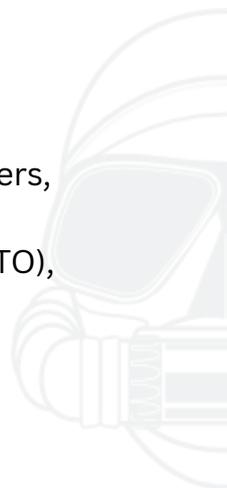
- **Material:** 100% natural rubber
- **Strap Type:** Adjustable rubber strap (standard)
- **Fin Type:** Split-Fin
- **Finish:** Matte tactical black
- **Weight:** Approx. 1.5 kg per pair
- **Brand:** Apollo



NSN	SIZE	SKU	LENGTH (mm)	USA SIZE	UK SIZE
4220-66-162-9417	S	FN01510	250	6-7	5-6
4220-66-162-9419	M	FN01520	275	8-9	7-8
4220-66-462-9420	L	FN01530	300	9-10	8-9
4220-66-162-9421	XL	FN01540	325	10-11	9-10

OPERATIONAL INFORMATION

- **Operational Compatibility:** Compatible with all military and commercial fin retainers, spring strap upgrades available (Bio-Fin Pro Stealth).
- **Applications:** Maritime Counter-Terrorism (MCT), Maritime Tactical Operations (MTO), Mine Counter-Measures (MCM), and Underwater Battle Damage Repair (UBDR).
- **Maintenance:** Rinse in fresh water after use; avoid prolonged UV exposure.
- **Field Performance:** Tested for helicopter drops and diver insertions; maintains propulsion efficiency in both surface and sub-surface operations.

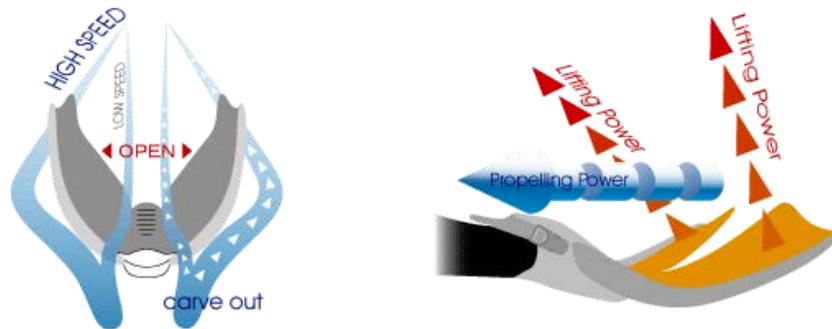


HOW THE BIO FIN WORKS

The Apollo Bio-Fin delivers enhanced lift and propulsion while requiring reduced diver effort, resulting in greater efficiency and power output per kick cycle.

Unlike traditional flat-blade fins that simply push water vertically, the Bio-Fin generates forward thrust and hydrodynamic lift on both the upstroke and downstroke. Its engineered blade profile channels water smoothly across the leading and trailing edges, optimising flow dynamics.

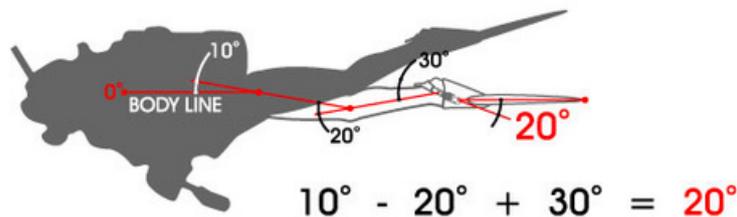
The result is controlled lift and accelerated forward movement, operating on principles similar to an aircraft wing to maximise propulsion efficiency.



FIN STROKE EFFICIENCY

The Bio-Fin's 20° blade angle aligns with the diver's natural knee and ankle flex, allowing the fin to work with the body rather than against it.

This reduces strain, enhances propulsion efficiency, and improves overall comfort. Apollo's material selection and engineered blade profile provide fast acceleration and high power output while maintaining low fatigue.



ERGONOMIC DESIGN

Engineered with a propeller-like action, the Bio-Fin provides superior efficiency over traditional paddle fins.

This design maximises thrust while lowering energy expenditure, enhancing both speed and control. Independent field evaluations confirm that divers can reach and sustain higher speeds with the Bio-Fin than with standard fin designs.

