



**MODULAR MINERAL PROCESSING PLANTS**



**GRAPHITE & LITHIUM  
TRIFLOAT FLOTATION SYSTEM**





## COMPACTLY DESIGNED FLOTATION SYSTEM

---

---

### TRIFLOAT

---

---

The TriFloat is APT's revolutionary new flotation system based around groups of float cells arranged in a circular tank. The TriFloat consists of six float cells, each individual cell fitted with impellers, air spargers and froth launders. The circular arrangement with adjacent cells sharing a tank wall offers a compact float circuit with less piping between cells and a smaller footprint. The cells can be arranged in various configurations depending on the mineral, throughput and float characteristics of the operation, allowing a TriFloat tank to be used as a complete rougher, cleaner and scavenger system, or for any portion of this circuit.

APT's triangular mixing vessels have been proven to offer better mixing in slurry applications, resulting in greater efficiency for reactions and a greater uniformity within the tank. This results in fast flotation kinetics and better recoveries over conventional systems.

The Trifloat system can be used on sulphide, oxide or silicate minerals, and is particularly suited to high yield flotation circuits, such as graphite recovery. Currently, continuous operation Trifloat plants are available for small scale operations up to 1tph, and laboratory tests on bench scale unit cells are also available.

---

---

*"The APT Trifloat is an exciting new product to enter the mineral processing world, and promises to offer a better processing option, particularly for the medium and small scale operators who are often overlooked by conventional mineral processing technology providers."*

**M. Conibear**  
(Maanager- Plant Design)

---

---



## MODULAR MINERAL PROCESSING PLANTS

### Head Office Details

**Address:** 218 New Market Road, North Riding, Johannesburg,  
South Africa

**Phone:** (27) 11 704 7656

**Email:** [info@aptprocessing.com](mailto:info@aptprocessing.com)

**Website:** [www.aptprocessing.com](http://www.aptprocessing.com)

*\* Metallurgical performance is material dependent & prior mineral testwork is recommended by APT. Specifications subject to change without notice.*