

# White Paper

## The M3 Chain Hook: Advancing Safety and Sustainability in Marine Anchoring

### Executive Summary

The M3 Chain Hook represents a significant advancement in anchoring safety and reliability. Unlike conventional chain hooks that can easily slip when unloaded, the M3 employs a patented snap-shackle latch that locks securely onto the chain under all conditions. Manufactured from 2205 Duplex Stainless Steel, the M3 offers unmatched strength, durability, and corrosion resistance, extending service life while reducing waste. In addition to enhancing crew safety and protecting equipment, the M3 supports environmentally responsible anchoring practices.

### The Problem: Limitations of Traditional Chain Hooks

- Unreliable connection: Hooks often slip off the chain when it becomes slack.
- Safety risk: Sudden disengagement poses hazards to both crew and vessel.
- Short service life: Corrosion and material fatigue reduce reliability.
- Environmental concern: Frequent replacements increase resource use and waste.

### The Solution: The M3 Chain Hook

- Snap-shackle latch: Maintains a positive lock on the chain even when unloaded, eliminating accidental release.
- 2205 Duplex Stainless Steel: Provides superior tensile strength and corrosion resistance.
- Wide compatibility: Fits multiple chain types and sizes, ensuring versatility across applications.
- Snubber and bridle integration: Designed for seamless use with shock-absorbing systems to protect windlasses and anchors.

### Technical Strength

Model	Chain Size (mm)	WLL (lbs)	UBS (lbs)
M3CH1	6–8	2,507	10,028
M3CH2	8–10	3,344	13,376
M3CH3	10–13	4,803	19,214
M3CH4	12–16	8,250	32,993

### Environmental Benefits

- Longevity: Extended lifespan reduces the frequency of replacements, lowering resource consumption.
- Reduced seabed impact: By securing the chain and integrating with snubbers or bridles, the M3 minimizes anchor dragging.

### Market Impact

With growing emphasis on safety, reliability, and sustainability in the marine industry, the M3 Chain Hook offers a competitive advantage. Its combination of innovative design, material superiority, and eco-conscious benefits makes it the strongest and most responsible chain hook available today.

### Conclusion

The M3 Chain Hook sets a new standard in anchoring hardware. By eliminating the safety risks of traditional hooks and delivering unmatched durability through advanced materials, it offers both immediate and long-term benefits. Importantly, its environmentally friendly design aligns with global sustainability goals, making it a true innovation for modern marine operations.