

The mooring anchor that **won't** **chain wrap.**

A conical, patent-pending redesign of the mushroom anchor — tested at Yale Cordage, proven in Casco Bay, made in Maine.

**40,657 lb**

Tensile strength to failure

Patent pending

U.S. design patent filed

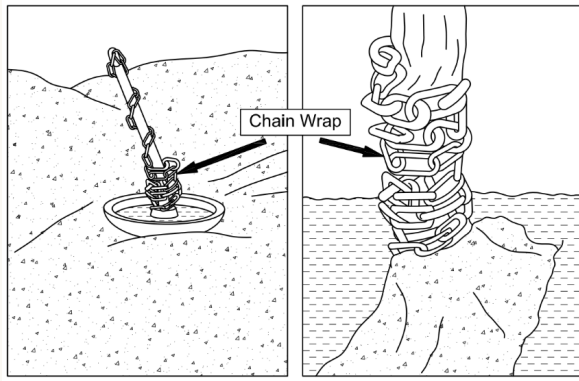
Made in Maine

Designed, built & tested

01 • THE PROBLEM

Every mushroom anchor in a soft-bottom harbor has the same flaw.

The cast-iron mushroom anchor sinks into mud and gains suction over time — but its vertical stem is its weakness. As tides, currents, and wind swing a moored boat through 360°, the chain rotates around the stem. Once it catches, every cycle pulls it tighter. Effective scope shrinks, peak loads spike, mooring balls pull under at high tide, and chain or shackle failure becomes a question of when, not if.



Traditional mushroom — the stem becomes a winch.

THE MOORSAFE FIX

Three bars. Conical shape. Far less wrap risk.

Three symmetrically positioned bars rise from the bowl to a single point above the stem, forming a cone. The chain has nothing to catch on. The bowl still beds in, still gains suction, still holds — and tensile strength is higher than the original.

02 • SPECIFICATIONS & SIZING

Built like the original. Just smarter.

MODEL	RECOMMENDED FOR	CONDITIONS
400 lb	Boats ~30–40 ft	Heavier displacement or moderate exposure
MATERIAL Cast-iron base, welded steel bars	FINISH High-visibility safety orange	PATENT / ORIGIN Patent pending • Maine, USA

Sizing depends on displacement, scope, and exposure. Pricing is by quote and excludes chain, hardware, and installation; shipping is quoted by destination. We'll confirm the right size for your mooring before you order.

Two tests. Both of them honest.

STRUCTURAL • YALE CORDAGE, SACO, ME

Tensile strength to failure

Horizontal tensile test on a 100-ft bed rated to 1.3 million lb. A 300 lb traditional mushroom and a 300 lb MoorSafe prototype loaded in tension until failure.

38,560 lb

Traditional • stem fracture

40,657 lb

MoorSafe • joint dislocation

MoorSafe outperformed the traditional anchor by roughly 5%.

FIELD • CASCO BAY, ME

Breakout after 28-day embedment

Both anchors set on the same muddy seabed for 28 days, then pulled by a lobster boat on a 75-ft chain at 3:1 scope; tension read on a 4,000 lb digital indicator.

1,575 lb

Traditional • partially buried

1,295 lb

MoorSafe • fully buried

Comparable breakout; MoorSafe was fully buried — holding improves as sediment consolidates.

Installs exactly like the anchor it replaces.

1

Size it

Match weight to boat length, displacement, scope, and exposure — or ask us.

2

Rig it

Same chain, shackles, swivel, and pennant you use today. Attach at the top eye.

3

Set it

Lower with a mooring barge or service boat, same scope and practice as a mushroom.

4

Let it bed

Holding grows as the bowl embeds. Inspect on your normal schedule, as you would any mooring.

Any mooring service provider will be familiar with the process. We can recommend providers in your area.

Designed by people who know the harbor.

MoorSafe was founded by Scott Karkos and Captain Gregory Smith (1988–2025), a Maine Maritime Academy captain with two decades of mooring service work. We design and manufacture in Maine because the people who make our anchors are the same people whose boats depend on them.

NEXT STEPS

**Put a MoorSafe on your
mooring this season.**

Request a quote: moorsafe.org/contact

Quote or questions: support@moorsafe.org

Web: moorsafe.org

Harbormasters and mooring services: ask about fleet pricing and association presentations.