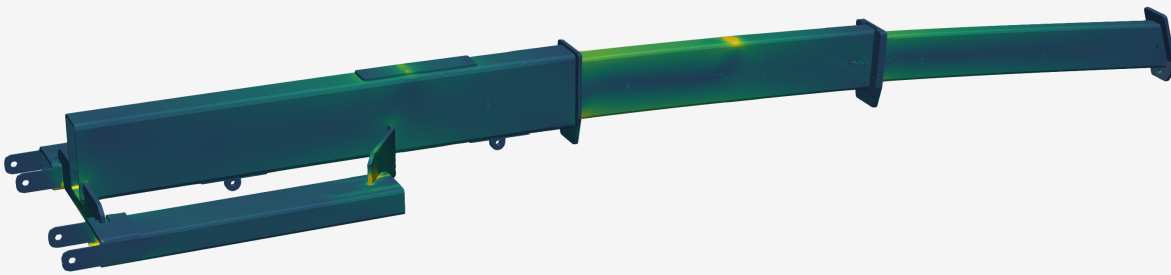


Built to hold what it says it holds.

Every capacity printed on this boom was earned before the first piece of steel was cut: designed to the lifting-industry safety standard, stress-tested on the computer at every reach, and checked against independent hand calculations. This page shows how.



Computer stress test at full 16 ft reach and full rated load. Colors show how hard the steel is working: darker blue is lightly loaded, brighter green is working hardest, and even the brightest areas stay well below the strength of the steel. The bend is exaggerated in the picture so you can see how the boom carries the load.

A 3 to 1 margin on every rating

Every published capacity carries at least a **3 to 1 design factor**: the design is checked against loads at least three times higher than the number on the sticker. That margin is the standard for below-the-hook lifting equipment, and this boom was designed to it from the first sketch.

US steel, proven details

Certified US structural steel throughout: A500 tube, A572 lift lug material. **Continuous welds at every structural joint**, each sized with the same 3 to 1 margin. The lug and pad design is scaled directly from our field-proven 60T jib boom.

Stress-tested corner to corner

The complete boom was load-tested on the computer before fabrication: **six load configurations across every extension length**, with more than **400,000 elements** tracking the steel in each model. The results were verified against independent hand calculations before release.

Ratings marked on the machine

10,000 lb at the transport lug. **2,000 lb** at full 16 ft reach. Every lift point is marked with its own rating, and the full load chart rides on the boom and in the manual, so the numbers are with the machine, not in a drawer.