

MAXIMUM LOAD TESTING of SUPERCLAMPS

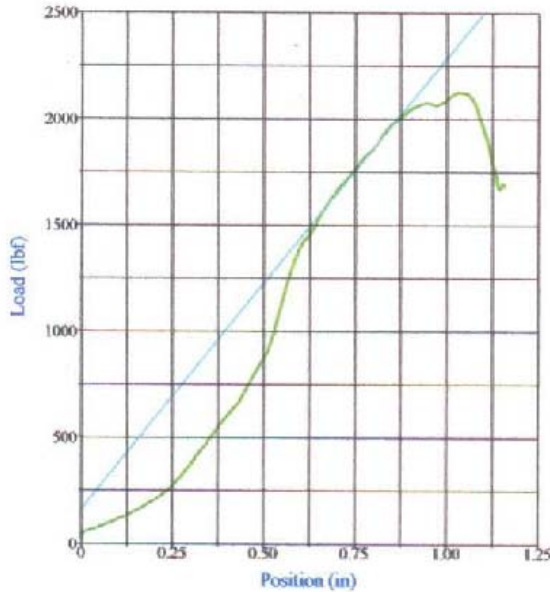
Cargo carrying products are commonly tested through static load testing. A commonly accepted industry-wide standard is that products should be able to withstand a static load that is at least 3 times the rated load they are assigned. This provides a 3 to 1 safety margin.

U.S. Rack products well exceed this standard and are tested at the Hayward, California facilities of Anamet, Inc. a respected independent materials testing laboratory. Racks are tested in a machine that simultaneously measures vertical load applied to the rack as well as material deflection (bending). Since all materials bend a tiny amount when even the slightest load is applied, it is possible to measure the maximum strength of materials by measuring load and deflection. In the graph below, the curved line represents the actual deflection of the rack as the load is increased. The straight line represents the theoretical deflection of the material. The upper point where the straight line and curved lines diverge is called the "limit of elastic deflection". Beyond this point the material will fail and the rack will be permanently bent. Anamet labs provided the below data.

SUPERCLAMPS, manufactured by U.S. Rack:

Load Rating for each Super CLAMP is **500 lbs.**

Actual tested material failure point was about **2,000 lbs.**, a 4 to 1 safety margin.



Test Results	
Position at Peak Load:	1.0282 in
Load at Peak Load:	2126.0000 lbf
Load at Break:	1688.0000 lbf
Position at Break:	1.1549 in
Young's Modulus:	2125.2950 lbf / in
Load at Offset:	1565.8300 lbf

Test Summary
Counter: 9972
Elapsed Time: 00:02:18
Anamet Job Number: 5004.1089
Specimen Identification: Super Clamps standard#18
Operator: eaf/bck
Comments: center lift
Procedure Name: Compression Load
Start Date: 12/17/2007
Start Time: 3:13:20 PM
End Date: 12/17/2007
End Time: 3:15:38 PM
Workstation: Anamet
Tested By: Ed



BENT SUPERCLAMP SHOWN AFTER THE TEST AT OVER 2,000 LBS.

WARNING: This data is provided for information only. DO NOT ASSUME BECAUSE LABORATORY TEST RESULTS INDICATE THIS PRODUCT WILL CARRY MORE THAN THE LOAD LIMIT THAT YOU CAN SAFELY EXCEED THIS LIMIT IN ACTUAL USE. STATIC LOADS ARE NOT THE SAME AS THE DYNAMIC LOADS OCCURING DURING USE. OTHER FACTORS, INCLUDING ADDITIONAL LOADING CAUSED BY BRAKING, ACCELERATING, TURNING AND TRAVELING ON SLOPED OR BUMPY SURFACES AMPLIFY FORCES IN ALL DIRECTIONS AND CAN LEAD TO MATERIAL FATIGUE OR FAILURE OF THE RACK OR THE TRUCK BED IF PUBLISHED LOAD LIMITS ARE EXCEEDED. DO NOT EXCEED LOAD RATING.