

WINCH SAFETY



!! Safety First !!

We at Bulldog Winch believe Safety ALWAYS comes first! We have put together some important information below to help you understand capacities, working loads, and other important safety procedures.

Our industry has not done a good job of explaining Braking Capacity vs Working Load Limit. Unfortunately most companies market their products based on the higher Breaking Capacity when most consumers should be purchasing their equipment based on Working Load Limit. Below is a detailed definition of both to help you make an informed decision.

Breaking Capacity:

or Maximum Load is generally considered to be the breaking load of a component. Breaking Capacity is an average figure at which samples have been found to break under laboratory conditions. These conditions are rarely duplicated in actual use. Breaking Capacity or Maximum Load should not be used as a criteria for service, design or rating purposes. Use Working Load Limit (WLL).

Working Load Limit (WLL):

the maximum mass or force which a product is authorized to support in general service when pull is applied in-line with respect to the centerline of the product. Avoid side loading.

Shock Loads:

Loads which exceed the static load caused by rapid change of movement, such as jerking, impacting, or swinging of loads. Avoid Shock Loads! Rigging equipment should be replaced after being subjected to shock loads!

Matching Components:

All attachments used with wire rope and chain must be of suitable material and WLL. The assembly WLL will be equal to the WLL of the lowest rated part of the assembly. Use common sense! "A chain is only as strong as its weakest link!" (For example: If you use a 10k WLL strap with a 9.5k WLL shackle and a 8k WLL snatch block the Rigging Assembly WLL is equal to 8k)

Inspection:

No product can operate indefinitely at its rated capacity or WLL. Wire rope, chain, shackles, snatch blocks, straps etc must all be inspected regularly for visible damage, distortion, elongation, corrosion, cracks, nicks, or abrasion which may cause failure or reduce the strength or ability of the products to perform safely. If any of these conditions exist the product should be removed from service and replaced! Safety First!