

Bi-directional Electromagnetic Braking System (BE Braker).

BE Braker is the automatic braking system inside winch motor. BE Braker functions automatically either pulling IN or pulling OUT (with the clutch fully engaged).

When BE Braker functions, the braking force is always fixed as set, which is different from the situation of the similar winches that have the normal automatic braking system inside winch drum. For example, when a 9500lbs winch with BE Braker (max. rated pulling capacity: 9500lbs) is pulling a load of 9500lbs, the braking force is 9500lbs numerically as set when the BE Braker functions. When this winch is pulling a load of 6000lbs, the braking force is still 9500lbs numerically as set when the BE Braker functions.

For the normal winches having the automatic braking system inside winch drum, normally the braking force numerically equals to the load the winch is working. For example, when a 9500lbs winch with the automatic braking system inside winch drum (max. rated pulling capacity: 9500lbs) is pulling a load of 9500lbs, the braking force is 9500lbs numerically when the braking system functions; When this winch is pulling a load of 6000lbs, the braking force however is 6000lbs numerically when the braking system functions.

Since BE Braker is NOT inside winch drum, it will NOT heat winch drum. The heating of winch drum by the normal braking