

By definition, a "wear item" is a part that is constantly in contact with the wire rope when the machine operates. "Wear items" can also be items that wear as a result of movement. "Wear items" are inspected and removed from service when their wear presents an unsafe condition and their useful life is gone.

Wear items need to be inspected at every service and changed out when wear begins to create a safety problem. Thorough inspections are even more important before placing a hoist into service on long-term rentals, harsh environments or where daily operator inspections might be overlooked.

### Criteria for Inspection

- Sharp edges
- Flat spots
- Rifling
- Shape of the groove on pulleys and sheaves

Sharp edges on any item that contact the wire rope are not acceptable and must be replaced. Parts that have this condition present a hazard of damaging the wire rope in the machine.

Flat spots on pulleys, chains or any other moving part show that the part is not moving. Parts with this condition must be replaced and the condition that caused them to stop moving must be corrected. This could be as simple as cleaning out dirt and debris from the machine or may require that other parts be replaced due to damage.

Rifling is the spiral impression of the wire rope that has worn into a part. The presence of rifling indicates that the part has worn through the outer hardness and is in softer metal. These parts must be replaced as they have been used up.

The shape of the grooves on pulleys and sheaves is critical to their proper functioning. Our pulleys and sheaves will have one of two possible configurations. V-shaped and U-shaped are the two grooved shapes present on Power Climber machines. The parts with these shapes are inspected for the following things:

- Straightness of the groove sides
- Sharp edges
- Rifling

For traction sheave inspection Power Climber makes a sheave gauge that can be purchased. See service instruction SI-033 for proper inspection of traction sheaves. Below you will find a list of the gauges for sale.

P/N Description

8-0091 E52 sheave and spring tool

8-0103 Astro black sheave

8-0104 Astro red or tan sheave

8-0105 PC1 sheave

6689 PC3 sheave

For questions or comments, contact Customer Service at 1-800-560-CLIMB (2546) or [customerservice@safeworks.com](mailto:customerservice@safeworks.com).