

Orion® Safety Shackle

Instructions and Warnings

.



ORION® SAFETY SHACKLE



The Soft Rigging Solutions patented Orion® Shackle is a Tray Retention shackle, also known as an “SUD” (safety up device), made of HMPE fibre rope which is a lightweight, synthetic fibre. It is designed to significantly reduce the potential of manual handling incidents, save time and resources, and minimise downtime when securing surface mobile equipment trays in the “up” position for maintenance to be undertaken.

The incredible lightness of these soft shackles allows a single person to connect the SUD system to the tray and rear dump, without the need for a mechanical aid, all while standing securely on the ground.

The following instructions explain how to safely use and care for the Orion® shackle. The care instructions are essential to maximising the life of these crucial tray retention systems.

Features

- Check that all markings and tags are clearly visible.
- RPEQ certified, Minimum Breaking Strength (MBS): 50,000kgs
- Core Material: Dynice SK75 Dyneema
- Covers: Over braided with SK75 Dyneema, giving a very high UV, chemical and abrasion protection
- High-grade aircraft “6061” Aluminium spools with 4140-grade steel pin.
- Weight, 2.98 kgs

Instructions

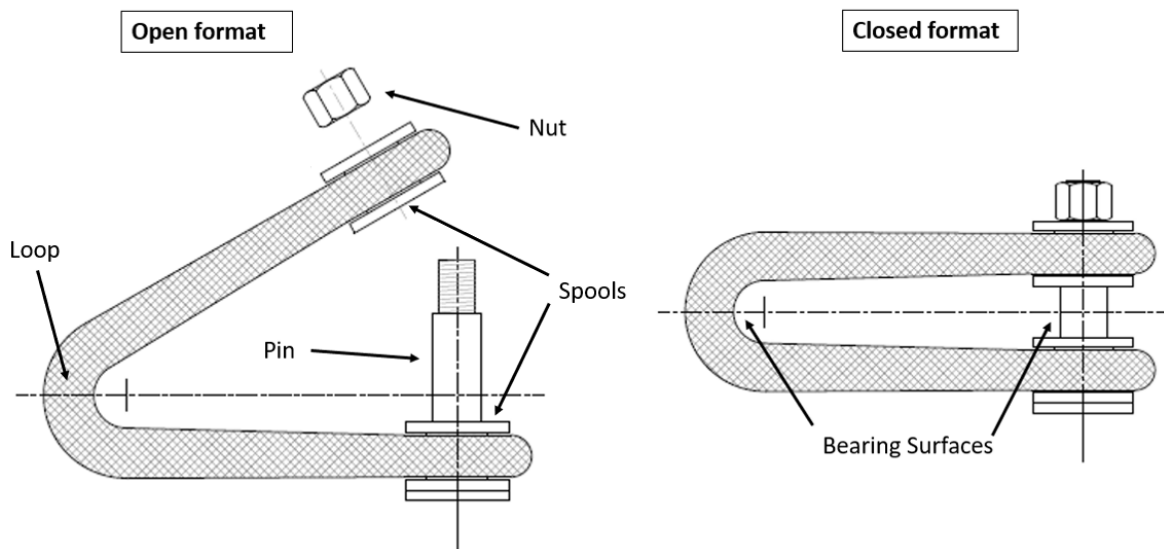
- Check that all markings and tags are clearly visible.
- Orion® shackle is designed to be a metal on metal, fibre on fibre shackle. This means the metal pin is attached to the tray or diff attachment point on a RD and the fiber loop section is connected only to the SUD sling.
- The SUD sling is designed to be connected to the fiber loop of the Orion® shackle or through an attachment point pin on the diff of a CAT truck for example.
- ENSURE the fibre part of the shackle or tray strop surfaces do not meet any burrs or sharp edges. Sharp edges can and will cut through the protective covers and into the Dyneema core that gives strength to the shackles, which will lead to a shortened service life. SUD shackles or SUD sling shall **never** pass over sharp edges, and should only be used in connection with smooth, rounded edges.

- ALWAYS ensure that the person intending to use the Orion® Soft Shackle is fully trained and competent and authorised in SHMS systems for the relevant industry.
- ALWAYS remember the breaking strength (kg) is the applied load at which the shackles/strop/sling will fail. It is not a “WLL” or an “SWL” load limit.
- No HOT WORKS shall be carried out around the Orion SUD system unless a fire protection blanket is placed over the SUD system to prevent hot slag or sparks landing on the SUD which could compromise its integrity.
- ALWAYS use and attach to the dedicated OME approved raised body attachment points.
- ALWAYS ensure that, if loading is needed on the Orion® Shackle, it is done in a square manner, meaning the shackle is pulling straight and not on an angle.
- ALWAYS ensure the nut is done up fully so it is hard against the spool/pin, and then backed off a quarter of a turn.
- Orion® Shackle is designed as a secondary safety device, not a primary safety device.

Pre & Post use inspections

Pre & Post use inspections are to be carried out by a competent person (fitters or persons who use the SUD system regularly)

- Check that all markings and tags are clearly visible.
- Check for physical damage, cuts, (longer than 30mm) or heat/burn damage.
- Check for rock and stone ingress into the core.
- Check for cracks in the spools, nut, and pin assembly.
- Check for exposed core material (silver or blue Dyneema rope)
- If any damage is found, please refer to “Care & Maintenance”



Care & Maintenance

The intent is for the Orion SUD system to be inspected each time they are used. If it is likely that the Orion SUD will not be used in a 12-month period, an annual inspection of the above-mentioned “Pre & Post use inspections” needs to be carried out by a competent person adhering to the above list.

Any cracks in the shackle assembly or physical damage, tears longer than 30mm to the black Dyneema cover (silver or blue Dyneema core visible) will require it to be placed out of service. The item is then to be returned to Soft Rigging Solutions, who will determine if a repair or replacement is needed.

If dirty after use, the SUD can be washed with fresh water and hung to dry before storing away in a clean area where it will not be exposed to excessive heat, chemical/dirt contamination or physical damage.

Mildew does not attack HMPE fibre ropes, although surface contamination may provide nutrients that permit its growth. Mould will not affect the strength of the Orion Shackle or slings.

If misused or these instructions are not followed, the manufacturer takes no responsibility for the safety or effectiveness of the Orion® Shackle.