



# treeMOTION ROPE BRIDGE

Replacement part

In the wake of the failure of a number of rope bridges on work positioning sit harnesses used in the tree care industry (which did not involve TEUFELBERGER cordage) there has been considerable online discussion regarding the appropriate cordage for the treeMOTION harness. This text hopes to address many of the questions posed online:

# treeMOTION ROPE BRIDGE

## Not Globe 3000!

The 10mm cord selected for the treeMOTION was an evolution of a sailing line called Globe 3000. It was adopted because of the combination of the Dyneema® core and tightly braided and relatively thick polyester cover. A mid layer seeks to ensure core and cover work well together. Polyester was chosen as the cover material because of its' good abrasion resistance, good wet strength, excellent UV resistance, high conversion strength when stitched, etc. A high strength Dyneema® core continues to provide considerable strength even when the polyester cover has worn somewhat. The standard construction was optimised for use as a rope bridge i.e. the treeMOTION rope bridge is not made from the off-the-shelf standard sailing rope called Globe 3000.



## The stitched ends have more than one use!

The rope bridge approved by TEUFELBERGER for use on the treeMOTION harness is supplied with red stitching approximately 35mm long and close to each end. This stitching has a number of purposes:

- It ensures the tail of the approved stopper knot is sufficiently long;
- In the event that the knot becomes overloaded, the tail may be pulled in to the knot. The stiffness of the stitching offers resistance and helps to maintain the safe length of tail and therefore the integrity of the knot itself; and
- In the event that the cover of the bridge becomes compromised and fails, there is a tendency for the core to pull through the entire knot. The stitching holds the core and cover together at the end of the bridge. This helps to ensure a high configured strength despite the failure of the cover.

The stitched ends have more than one use!



## Only the approved rope bridge is approved!

No other cordage is approved for use as a rope bridge on the treeMOTION harness. Considerable testing has been carried out on the treeMOTION rope bridge i.e. in TEUFELBERGER's own test facilities (dynamic and static testing), the test facilities of an independent notified body, extended validation tests prior to the start of production and ongoing assessment of performance in real life service conditions with our long term validation partners. During the years of treeMOTION production, the performance of the approved rope bridge has shown that the material is both suitable and sufficient to be used in the specified manner.

## Why can't I buy Globe 3000 off the spool any more?

The sailing department of TEUFELBERGER has decided to discontinue Globe 3000, that's why it is becoming difficult to buy it. Two more points to be made here:

- Because the rope bridge on the treeMOTION is an evolution of Globe 3000 (not the same), it has a different production recipe and therefore a different (internal) product code. Hence, production of the rope bridge material will continue, but Globe 3000 will cease to be available as soon as current stocks are sold.
- Globe 5000 is a very different rope from the rope bridge on the treeMOTION harness, for example its' Polyester cover is much thinner, hence abrasion resistance is much less. The knotted strength is also lower. Globe 5000 is not a good choice for a rope bridge, even though it has a name that is similar to the rope that the bridge material evolved from.

### WARNING

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