

# TECHNICAL COMPLEMENTARY INSTRUCTIONS FOR RESCUE WITH THE FREEXION



## USE AND PRECAUTIONS

This technique is outside certification. All the tests have been conducted by FTC TREE. Only the procedure and equipment described below have been confirmed by FTC TREE. You are responsible for any damage if you use any other system and technique.

During a rescue, it is best to keep independent descent systems. The use of a single system to rescue an injured climber must be considered as a complex solution and only used as a last resort. This practice must stay an exception.

The FREEXION instructions must have been read and understood. In this special case, and only for rescue, FTC TREE allows the use of the technique described here, with added friction in order to exceed the load mentioned in the instructions.

In this one and only specific situation, the maximum load can be brought up to 250 kg.

It can only be considered safe and feasible after a complete analysis of the situation: Is the three safe? How strong is the anchor point (it must be able to withstand at least 2 times the weight of the two climbers)? Is the equipment in good working condition?

Using a single FREEXION system for two climbers is very hard on the equipment, including the anchors.

Aerial rescue and rope evacuation require specific training and regular practice.

- You must be trained in aerial rescue.
- You must be trained in the use of PPE.
- You must be trained in specific evacuation techniques using the FreeXion system.

## GEAR USED FOR THE TESTS AND CONFIRMATION OF THE MAXIMUM LOAD

FREEXION system with its tether/Sphinx pulley/EN 362 triple lock oval connector/11.7 mm Argope EVO rope.

### PLEASE NOTE



- **THAT THE DMM TRIPLE ATTACHMENT PULLEY IS NOT APPROVED FOR AN EVACUATION WITH TWO PERSONS ON A SINGLE SYSTEM. THE POSITION OF THE TETHER WITH THE PULLEY CAN RESULT IN AN INTERACTION BETWEEN THE SYSTEM'S ELEMENTS.**

### WARNING



- **MANY PARAMETERS CAN IMPACT THE FRICTION AND MODIFY YOUR EQUIPMENT'S COMPORMENT AS WELL AS ITS BRAKING CAPACITY (NON-EXHAUSTIVE LIST):**
  - diameter and condition of your rope (wet, dry, new etc.),
  - diameter and condition of your friction hitch,
  - descent length (a long descent with load can damage your friction hitch beyond use),
  - your speed during the descent (descending too fast could damage your hitch beyond use) etc.

## INSTRUCTIONS FOR RESCUE WITH SPHINX PULLEY (CAMP)

- Set the FREEXION to "hard" position.
- Add an oval connector (EN 362 triple lock) to the upper loop of the tether.
- With the longer part of the rope, make two dead turns in the carabiner (under the pulley).
- Knot the rope under the pulley for safety, securing the set up phase.
- Connect to the rescued climber with a system that guarantees a safe connection.
- Remove the load from the rescued climber's system until the rescuer's system is fully loaded.
- Test the descent.
- When you are sure that the load is on the rescuer's system and the descent speed is under control, you can disconnect the rescued climber from their system.
- Undo the safety knot.
- Start the two-person loaded descent, simultaneously holding the friction knot and the rope under the connector.
- Finish the descent, still holding both the friction knot and the rope.
- Never use the knot without holding the rope. Your hand **MUST** be placed under the system.
- Do not exceed a descent speed of 1 m/s.

## INSTRUCTIONS FOR RESCUE WITH TRIPLE ATTACHMENT PULLEY (DMM)

- Set the FREEXION to "hard" position.
- Add some friction, using an extra connector and/or a ring connected to a harness ring.
- Knot the rope under the pulley for safety, securing the set up phase.
- Connect to the rescued climber with a system that guarantees a safe connection.
- Remove the load from the rescued climber's system until the rescuer's system is fully loaded.
- Test the descent.
- When you are sure that the load is on the rescuer's system and the descent speed is under control, you can disconnect the rescued climber from their system.
- Undo the safety knot.
- Start the two-person loaded descent, simultaneously holding the friction knot and the rope under the connector.
- Finish the descent, still holding both the friction knot and the rope.
- Never use the knot without holding the rope. Your hand **MUST** be placed under the system.
- Do not exceed a descent speed of 1 m/s.

## VIDÉO



**WATCH THE VIDEO:**  
<https://www.youtube.com/watch?v=VxMeGe1xzu0>

For any question or information, or if you don't understand the technique, contact FTCT REE: [contact@ftc-tree.com](mailto:contact@ftc-tree.com)



WORK HARD.  
CLIMB HARD.  
PLAY HARD.

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