



Totem

Totemcam

INSTRUCTIONS FOR USE

WARNING

- This product is for rock climbing and mountaineering. These activities are inherently dangerous and entail a risk of **SERIOUS INJURY** and/or **DEATH**.
- It is your decision to practice rock climbing and mountaineering, so you are responsible for your own actions and decisions. Value your safety at all times, and weigh up your capacities and the risks involved.
- It is imperative before using this product to read carefully and understand the following instructions and warnings, and familiarise yourself with its proper use.
- Any person using this equipment undertakes all risks and full responsibility for any damages or injuries that may arise from its utilisation. If you do not accept this responsibility, do not use the Totem Cam.
- The manufacturer and retailers of the Totem Cam explicitly disclaim any and all responsibility and liability (direct, indirect, incidental or other) for any death, injury or damage to any person or property that may arise in relation to the use of this product.

USING TOTEM CAMS

- Practice placing Totem Cams when you are still on the ground.
- It is not possible to cover all usage situations in these instructions. We strongly recommend to get qualified instruction.
- Pull the trigger to close the cam lobes and insert the Totem Cam in the crack, lobes first. Release the trigger to allow the cam lobes to make contact with the rock face. It is best for the cam lobes to work at less than half their expansion range, i.e. when they are between 50% and 90% closed (**see figure 1**). Try to avoid closing them completely, as you will find it difficult to get them out afterwards.

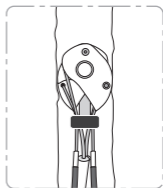


Figure 1

- Giving a tug in the expected loading direction can contribute to opening the cam lobes completely, properly securing the Totem Cam.
- Ensure that all the cam lobes make good contact against the rock face, and that the crack beneath the contact point does not open (**see figure 2**).
- The Totem Cam works on friction between the rock face and the cam lobes, and any loose shale, dirt, ice or moisture can reduce friction

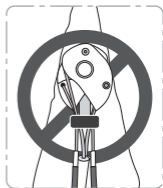


Figure 2

and cause the Totem Cam to slip out the crack.

- Do not use the Totem Cam with the cam lobes near to fully open. Any movement in the rope can change the position of the Totem Cam and it could fail. Use another larger Totem Cam.

- Align the Totem Cam with the expected loading force (*see figure 3*).

- Do not use the Totem Cam in shallow cracks, where the Totem Cam body can not be properly aligned with the expected load (*see figure 4*).

The strength is lower in this situation, and also the device could slip out.

- Totem Cam cannot function as passive protection, and must not be used as shown in *figure 5*.

- Use a carabiner to attach the rope to the Totem Cam, as shown in *figure 6* or *figure 7*. Never use the device as shown in *figures 8, 9 and 10*.

- Attaching a carabiner at a point where the

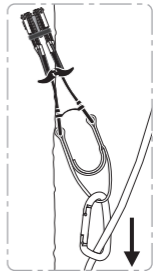


Figure 3

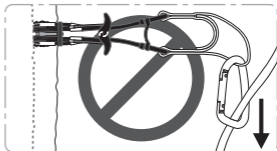


Figure 4

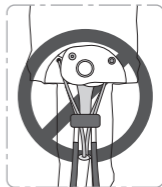


Figure 5

sling is supported, will load one pair of cam lobes only (**see figure 11**). Do not use Totem Cam in this way to protect against fall. This reduces its stability and halves its strength. Placements involving only half of the lobes can help to support body weight in some aid climbing situations.

- Exercise caution with cracks created by loose rocks. The Totem Cam multiplies its pulling force against the walls of the crack. This can lead the device to fail or make the rock fall or break.
- Do not position the Totem Cam at the edge of the crack, especially on weaker rocks.

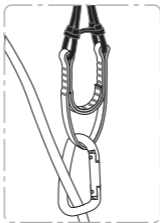


Figure 6



Figure 7



Figure 8

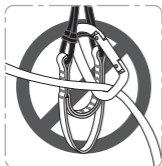


Figure 9



Figure 10



Figure 11

- The Totem Cam wire ropes or sling can be damaged if they are loaded across sharp edges of rock. Sharp edges should be avoided if possible. The Totem Cam can still be used even if the straight plastic tubes protecting the wire ropes are damaged. If the wire ropes are kinked or frayed, however, the Totem Cam must be replaced. If the sling is damaged replace it.
- A heavy fall can damage the plastic at the sling attachment points. Ensure that the inner wire rope is not visible. If this is the case, the Totem Cam must be replaced.
- Do not rely your life on only one piece of protection. If failure of the piece of protection would entail a dangerous fall, double the pro.
- The rated strength is achieved by the best positioning of the Totem Cam in solid rock. A climbing fall situation can lead to forces greater than the Totem Cam's strength. To reduce this risk, use dynamic belay, shock absorbers and avoid excessive friction between rope and rock. Caution should be exercised specially at the beginning of the pitch and with the smallest Totem Cams.

MAINTENANCE AND CARE

- Always check the wire ropes for damage before and after each use. Slightly bent wire ropes are still safe, and you can straighten them manually. If the loading wire ropes are kinked or frayed, you must replace the Totem Cam immediately.
- If the webbing or stitching is frayed, melted or torn, the sling must be

replaced. We offer a resling service for Totem Cams.

- If your Totem Cam has sticky action, there are several ways to attempt to improve it. Try the solutions below in this order:

- Check if any of the springs are attempting to pass through the guide. This can result from a severe transversal load (**see figure 4**). In this case, manually pull down on the spring to separate it from the guide. Then release the spring.

- Straighten manually any bent trigger wire rope or replace it.

- Place the trigger under a jet of tepid water and pull it repeatedly.

Repeat the operation with the axle and spring zones if necessary. Dry the Totem Cam completely, avoid direct sunlight and do not use heat sources. Use a watery wax lube solution to lubricate the axle and spring zones after washing, and wipe away excess.

- If the springs are severely deformed replace them. We provide a spring replacement service.

- Another factor can be faulty positioning of the loading wire ropes on the cam lobes. This occurs only rarely, and does not compromise the strength of the device. The loading wire rope closer to the cam lobe protruding edge, should go under the pin (**see figures 12 and 13**). If any of the loading wire ropes on your

Totem Cam is twisted as shown in **figure 13**, untwist the wire rope manually.

- Trigger wire ropes can be replaced

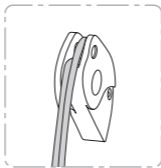


Figure 12

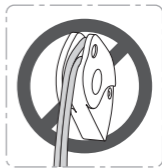


Figure 13

with polyamide or polyurethane tube and tennis cord. However, we recommend you use our trigger wire rope replacement service.

- Weakened springs can compromise the stability of the placed Totem Cam, and must be replaced.
- We recommend you carry Totem Cams at the top of your bag, to prevent any undesirable bending of wire ropes, springs and cam lobes.
- Totem Cams should only be stored while completely dry, in a dark ventilated clean, chemically neutral environment, well away from heat sources, high humidity and any type of corrosive agent.

REPLACE A TOTEM CAM IF:

- The loading cables are kinked or frayed.
- The cams have been damaged in a fall.
- The plastic section at the sling supporting point is damaged, making the inner wire rope visible.
- The axle or stem is bent.
- The cam lobes are so worn, that trigger wire rope supporting hole is damaged.
- Replace weakened or severely deformed springs.
- Replace frayed, melted or torn slings.
- Replace kinked or frayed trigger wire ropes.
- The Totem Cam's estimated lifespan is 5 years from its first usage.

QUALITY & CERTIFICATION

- Totem Cam is CE-certified, and meets the EN 12276 standard.
- Each Totem Cam is tensile-tested to 60% of its rated strength. In this way the wire ropes supported on cam lobes are tightened and formed to the necessary shape. If your new Totem Cam has smooth action and proper operation, it has been unequivocally tensile-tested.
- Each Totem Cam has an exclusive serial number beneath the guide. The first two digits show the year of manufacture. We use this code to ensure the traceability of all Totem Cam parts so we know the material batch used for each part in your Totem Cam and the related test results.

WARRANTY

- Totem MT products are warranted to the original retail purchaser as free from material and workmanship flaws for a period of one year from purchase. The product will be replaced without charge if, following our inspection, no misuse or alteration is detected. Totem MT offers no other warranty either expressed or implied.

MARKING



- Logo and trademark.

- **1.25:** Size reference.

The number means the approximate covered crack width in inches at 33% of expansion range (1.25 given as an example).

- **13kN:** rated strength (13kN given as an example).

- **CE 0082:** notified body number delivered the CE certificate and for the CE quality control system for the final product.

Totem Cam is CE certified by:

CETE APAVE SUDEUROPE











BP193, 13322 MARSEILLE Cedex 16, France

Notified body number 0082.

- **Serial number:** there is a 7-digit serial number beneath the guide. The first two digits show the year of manufacture.

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SPECS CHART

| Reference | Color | Strength | Width | | Weight |
|------------------|--------|----------|--|---|----------|
| Totemcam 0.65 | Blue | 8 kN |  13,8 mm |  | 75 gr |
| Totemcam 0.80 | Yellow | 9 kN |  17 mm |  | 83 gr |
| Totemcam 1.00 | Purple | 10 kN |  20,9 mm |  | 95 gr |
| Totemcam 1.25 | Green | 13 kN |  25,7 mm |  | 109 gr |
| Totemcam 1.50 | Red | 13 kN |  31,6 mm |  | 132,5 gr |



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