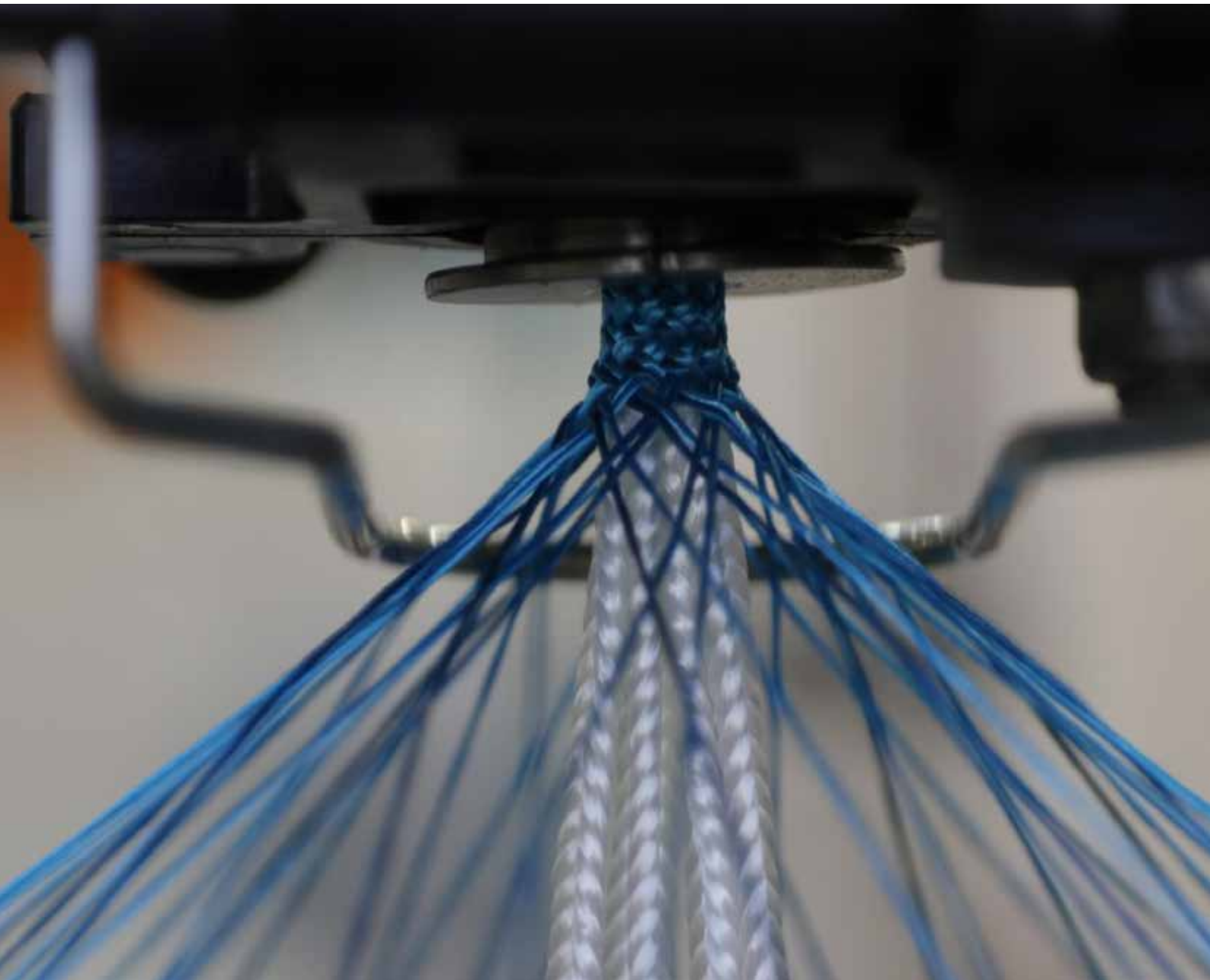


Ropes



Dynamic climbing rope

At Ocún we have specialized in dynamic ropes since 2000. We focus on the segment of dynamic ropes intended for sport and traditional climbing.



Our experts are well versed in both climbing and textile engineering. Our greatest advantage is that both of these disciplines enjoy traditions that reach back over a hundred years in the lands of former Czechoslovakia. It is no coincidence that polyamide fiber from the Slovak town of Humenné is used by all international climbing rope manufacturers and we have an exceptional concentration of this industry here. These are the traditions, industrial base and manufacturing experience that we draw upon. Add to that our passion for climbing and the result is our outstanding line of OCUN ropes.

Construction of dynamic ropes

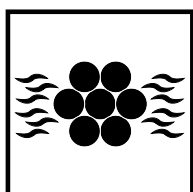
Dynamic ropes consist of a core and braid – both made from polyamide fibers. An identification thread runs through the center of the core, the ends of the rope are melted and labeled with required information and serial number.

The braid is essentially a protective sheath protecting the load-bearing core. The braid of Ocún ropes is made from brightly colored polyamide fibers that make the rope visible from a greater distance. The braid fibers are chemically and thermally treated to ensure optimal mechanical properties – specifically strength, abrasion resistance, elongation and elasticity. Treatment also prevents moisture and mechanical impurities from penetrating into the rope core. The resultant pliability and durability plays an important role when working with the rope and using protective equipment.

The core of the rope consists of several counter-spun strands that are heat-treated in advance to give the rope its important dynamic properties. The PAD 6 polyamide fiber we use to make Ocún ropes is outstanding at absorbing the energy generated during a fall. With its strength, elongation and elasticity, the core represents the central structural component of the rope that ensures safety during a fall.

OCUN Technologies

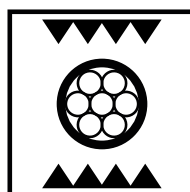
■ CORE THERMAL TREATMENT



Individual strands of the core are heat treated to give the rope its dynamic and mechanical properties.

The individual strands of the core are chemically and thermally treated before weaving. This improves the interaction of core strands and its mechanical and dynamic properties.

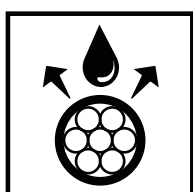
■ HEAT SHEATH TREATMENT



Final heat treatment of the braid ensures compact flexibility and supple handling.

The final thermal treatment is a standard treatment applied to all Ocún ropes to ensure compact flexibility and pleasant handling properties.

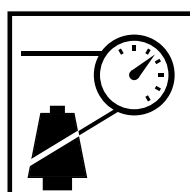
■ DRY AND PROTECT SHEATH COATING



Woven fibers give permanent protection and create a barrier against moisture and impurities.

Each of our ropes has a permanent PFC-Free protective layer that creates a barrier to prevent water and impurities from reaching the core. This protective treatment of fibers also reduces their friction and increases the mechanical resilience of the weave. As a result, the life span of the entire rope is extended.

■ SUPER TENSION CONTROL

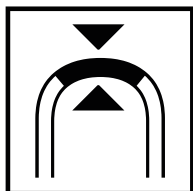


Strict control of fiber tension during the manufacturing process ensures perfectly balanced tension throughout the entire cross-section of the rope.

Ocún devotes exceptional attention to checking fiber tension when processing and weaving strands. This technological discipline ensures that Ocún ropes perfectly balance tension throughout the entire cross-section, enabling the rope to attain excellent results when measuring normative parameters.



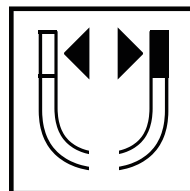
■ MIDPOINT MARKING



Every Ocún rope has a colored band marking the mid-point to make descending easier.

Each Ocún rope has a colored band 8 cm long to mark the midpoint. The color used does not have a harmful effect on the braid materials nor does it change the mechanical properties of the rope. Each new rope comes with a marker that can be used to brighten the midpoint mark or mark a new midpoint if the rope is shortened by the user.

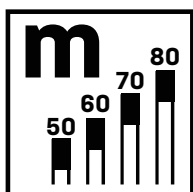
■ DOUBLE END MARKING



The ends of all ropes have different color codes to easily distinguish them from one another and ensure uniform use.

Both ends of the rope are fitted with a durable, multi-layer label with required information (manufacturer, standard, certification, year of manufacture, type, model, diameter and length) and a hidden serial number to trace the origins of the rope. Each end has a different color making them easier to identify, that way you can alternate the active end of the rope to ensure even wear of both.

■ COLOUR LENGTH MARKING



Every Ocún rope is color coded on one end to indicate length and increase safety during use.

Ocún ropes have visible length markings. One end of the rope is always marked with the color of the particular length (50m/yellow, 60m/blue, 70m/green, 80m/purple). This standard marking of rope length helps increase safety when tying in and descending, where knowledge of rope length is important. If a user needs to shorten a rope, each rope comes with a gray replacement label and blank area to mark the individual length.