

# the dive of the future

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## GENERAL INFORMATION

Considering the MBSZ Diving Rules , the MBSZ Cave Diving Rules and the valid regulations and laws in Hungary.

### **Terms of Registration:**

The only way to register your dives into the Molnar Janos Cave is possible, if you write an email to [info@mjcave.hu](mailto:info@mjcave.hu)

Every other way is not official and we can't take the responsibility for it.

### **Required certificates :**

Every diver need to have the following certificates:

- Valid medical certificate (from the doctor) --IMPORTANT-- You need to have it!!
- Valid Cave diving insurance (e.g. DAN Silver Sport, Pro Bronze, Pro Silver )
- Valid diving certificate depends on the type of the dive (e.g. Using Nitrox -- Nitrox Certification need, Using Dry Suit -- Dry Suit Certification need.)
- Signed diving plan, rescue plan, signed at the place.
- Every Guest need to observe the rules of the Cave.

### **Mandatory Equipments:**

- Fins
- Mask
- Reserve Mask
- Hood
- Diving Suit adequate protection against the cold. Wet suit can be use only in 1<sup>st</sup> Zone!!

Wet suit in the 2<sup>nd</sup> Zone can be use only, if you using double bledder bouyancy compensator or Lift Bag. In the planned route can not be stenosis, in the case of using Lift Bag.

**In the 3<sup>rd</sup> zone only Dry Suit can be used. To use the Dry Suit you need to have Certification for it.**

- „Wing” system bouyancy compensator depends on the tanks weight, minimum 20l.
- **Twins with manifold system, minimum 4000l breathing gas , or CCR suitable for cave diving with the right configuration.**
- 2 separate first and second stage, 210cm long hose on one of them and a pressure gauge.
- 1 computer suitable for the dive but minimum NITROX diving computer, which details can be readable after dive.
- 1 depth gauge
- 1 Main Lamp, which is enough 1,5x more then the planned dive time and minimum power 25W(halogen)

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or equivalent with this.

- 2 separate backup lamp
- 2 finger spool minimum 20m
- 2 cutter(knife, scissor)
- Wetnotes

Use of any kind of high pressure beacon or mechanical quick-connect pressure gauge are not allowed.

## **Stage cylinders and Twins:**

Minimum 40CUFT capacity, with 1 first stage and 1 second stage, separate pressure gauge, tie that can be cut.

Every cylinders need to analyze and the result must be on the cylinder.

On every cylinder you must write the maximum depth of the analyzed gas.

On every cylinder must have a clearly visible identifier (e.g MJ monogram).

Every diver must declare before dive about that his/her equipment is reliable, is in good condition, Properly maintained and safety. If diving with a rented equipment, before the dive must have to check about the condition of the diving gear. Marking your equipment is mandatory to avoid mixing the equipments.

Using your own cylinders are allowed, if they have valid pressure (hydrostatic) test.. We can fill only that cylinders which have valid pressure (hydrostatic) test. We can fill Nitrox or/and TMX only into oxygen clear cylinders.

## **Diver Propulsion Vehicles(DPV) :**

Using DPV in the cave is only available if you own certification for it and enough experience.

The Guide decide that you can use DPV for the current dive or not or he can make it as a specification of the dive.

The guide decide that what equipment and configuration can be used for the dive if using DPV.

## **Special requirements for CCR dives:**

**Must have a valid certification for the used CCR in addition to the cave certification.**

For CCR diving you must have minimum 50 certified open water dives with the same device what would you like to use for the dive.

Each diver must have to carry as much open-circuit bailout gas as is provide the safety coming out from the planned turning point observing the proper decompression instructions.

During CCR and OC mixed gas diving the diving buddies must have to be warned about the emergency solutions.

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## **Side-Mount dives are not allowed in the Cave:**

The "sidemount" equipment originally requiring a high-skilled cave diving techniques. There are caves where this techniques are not "not allowed", but simply no other things to do. Has countless advantages and disadvantages compared to the "DIR manifold twin-set" configuration. In the Molnar Janos Cave the wide and deep routes makes a complicated cave system. Here it is very important the proper gas planning. In the case of "side-mount" dives we can't reach the safety of the "third rule" even if we using 1/2 rule. We can observe only in case if we bring 2 additional cylinders and during the dive we observe the 1/6th gaschanging rule or during the use of the additional 2 cylinders, the time of the penetration does not reach any of the cylinders gas resources 1/3rd and we using the 1/6th gaschanging rules. This significantly limits the penetration distance of the groups, or require significant additional bottles. The entrance of the cave is not suitable for bigger "side-mount" groups and to serve them properly. For these reasons, "side-mount" dives are not possible at this moment in the cave!

## **Only Guided dives available in the cave.**

### **Guided Group:**

In case of one Guide, the maximum number of group 5 person(Guide inc.)

In case of one Guide + 1 assistant at the end of the group, the maximum number of the group 7 person(Guide+Assistant inc.)

### **Breathing Gases:**

The breathing gases need to be analyzed before every dive. Every diver must have to do this on his own and record the result at the place.

During mixed gas diving, the partial pressure of the oxygen in the water during use can not be less the 0.16bar, but can not exceed 1.6bar. If the mixed gas is not used as a dekompression gas, you must plan the dive with maximum 1.4bar oxygen partial pressure.

During mixed gas dive planning and performance you must strictly observe the oxygen exposure limits belonging to the oxygen partial pressure which are in the nationally accepted tables.

During mixed gas diving the partial pressure of the nitrogen can not exceed 4.0bar.

During mixed gas diving the recommended helium partial pressure is 10.0bar..

### **Environmental Protection:**

Molnar Janos cave is a highly important , highly protected natural treasure . The divers increasingly need to care that with their actions in the cave try to do the lowest possible impair for the cave while they protect the natural environment , flora and fauna of cave and preserve its original appearance . Its forbidden to take anything from the cave, and should strive for " contactless " diving.

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Dive Prices in Molnar Janor-cave			
Guided Cave Dives	1 Pax	2 Pax	3 or more
1 dive between 50-70 minutes. On a planned route.	21 000HUF	18 000HUF	15 000HUF
Dives longer than 1 hour are the subject of a separate discussion			
Intro Cave Dive	17 000HUF	34 000HUF	No
<b>1 person price is valid in that case, if the candidate insists to be the only person in the group beside the Diving Guide</b>			
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Equipment rentals / Day			
Twin Set	3 000 HUF		
Stage cylinder/80cuft alu	1 500 HUF		
Wing	3 000 HUF		
Backplate	3 000 HUF		
Regulator Set For Doubles	3 000 HUF		
Regulator Set for Stages	3 000HUF		
Main Lamp	3 000 HUF		
Backup Lamp	1 000 HUF		
Fin	1 000 HUF		
Reel, Mask, etc	1 000 HUF		
Full Set	10 000 HUF		
Full Set + Accessorries	15 000 HUF		

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