

Operating instructions

IMMOOS rescue carriage

Type TB / Type TB+

2 rollers



Table of contents

1.	Important information	2
2.	Technical specifications	3
3.	Application and description	3
4.	Mounting the rescue carriage.....	4
5.	Travelling with the type TB rescue carriage.....	4
6.	Setting up and removing the rescue carriage.....	4
7.	Storage and cleaning	5
8.	Inspection / maintenance /repair.....	5
9.	Service life.....	6
10.	Exclusion of liability	6
11.	Documentation of the annual expert inspection	7

1. Important information

If cableways have hydraulic carrier cable tensioning, it must be switched off before the rescue begins in order to prevent movement of the cable due to the tensioning device. Rescue work in the danger zone of the cable may only start after the shutdown switch has been operated.

These operating instructions refer to the type TB and TB+ rescue carriage. Please read through these operating instructions carefully and keep all product instructions and information available.

Activities at a high elevation are dangerous and can result in severe and even fatal injuries. Learning how to use the rescue carriage and appropriate safety measures is solely your responsibility.

The IMMOOS type TB rescue carriage may only be used by instructed and trained, expert personnel.

The IMMOOS type TB rescue carriage is only designed for rescuing people in cableway installations. The manufacturer should be consulted regarding use for non-intended purposes.

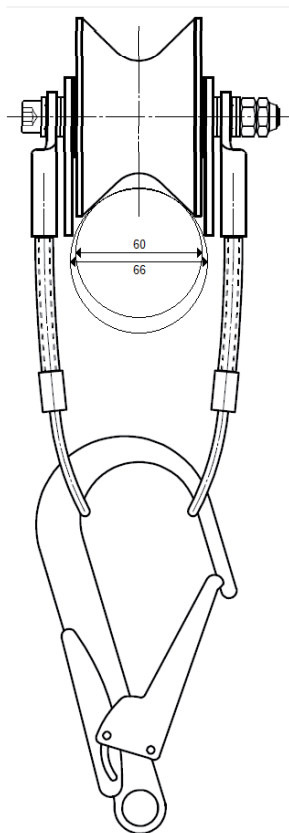
The operating instructions of the various products used in conjunction with the IMMOOS type TB rescue carriage must be complied with.

No changes may be made to the components.

In the event of a serious fall or if the IMMOOS rescue carriage itself falls down or a heavy object falls onto it, the device may no longer be used. A deformation can impair the function of the sliding vehicle or internal non-visible fractures can reduce its strength.

2. Technical specifications

The IMMOOS-rescue carriage has been certified according to Regulation (EU) 2016/424.



	Type TB	Type TB+
Nominal diameter of hoisting cable:	< 60 mm (splice 66 mm)	< 72 mm
Maximum load:	3 x 125 kg	3 x 125 kg
Maximum cable slope:	120% (~50°)	120% (~50°)

Use:

The carriage can be used with all cable systems to move the “rescuer on the cable” or to move passengers. The requirement for it is a stay rope with a corresponding rope brake.

Moreover, it is important that the “safety person” selects a good location.

We recommend turning the stay rope consistently around an appropriate point (pay attention to sharp edges) on the pylon or the cable car.

3. Application and description

The IMMOOS type TB rescue carriage is mainly used for rescuing persons on cableways.

With the type B rescue carriage, a rescuer can be brought along the cable of the cableway to the occupied cable cars, or up to three passengers can be rescued along the cable.

The rescue carriage basically consists of a rocker with 2 rollers and 6 steel cables. The system is attached to the lower eyes of these steel cables by hooking up an aluminium safety hook.

The rescue carriage is secured by a “safety person” with a stay rope from a suitable position.

4. Mounting the rescue carriage

The rescue carriage is mounted from the pylon platforms or the cable cars.

The type TB rescue carriage is mounted on the hoisting cable and then the two lower ends of the steel cable are connected with an aluminium safety hook.

The “rescuer on the cable” is secured with a safety line by the “safety person on the ground”.

For his or her own protection, after being secured with the safety rope, the “rescuer on the cable” also hangs the hook of his or her safety line onto the hoisting cable toward the mountain side of the rescue carriage.

When moving several persons, care must be taken to achieve an even distribution of the loads on the three attachment possibilities.

5. Travelling with the type TB rescue carriage

The rescue carriage can be travelled on when the stay rope is released. Securing with the stay rope is done from a suitable position, such as the ground, pylon, cable car, etc. The safety person controls the speed using the rope brake and stop device. The carriage can be stopped at any time. A certified kernmantel rope in accordance with EN 1891 serves as the safety rope.

Caution: only original ropes may be used!

6. Setting up and removing the rescue carriage

In every manoeuvre, the “rescuer on the cable” is secured with a safety line to the hoisting cable.

The rescue carriage is set up or removed with one hand. With the other hand, the safety hook is unhooked only if there is an eye. The rescue carriage can thus be removed from or mounted on the cable.

7. Storage and cleaning

The IMMOOS type TB rescue carriage must be stored dry and protected from the light.

Avoid contact with acids, corrosive liquids and oils.

Clean as required after use or if dirty. Clean with mild laundry detergent and copious water (max. 30° C)

Always dry naturally, i.e., never near fire or other sources of heat.

8. Inspection / maintenance / repair

The following frequencies for inspection, maintenance and repair must be complied with:

- Before every use visual inspection (check) by the user
- At least 1 x per year inspection (check) by an expert

Visual inspection (check):

Each time before the carriage is used, the user must visually check that all screws are tight and the individual components have no special wear spots or cracks.

Caution: Damaged carriages must not be used. In case of doubt, the carriage must not be used.

Annual inspection (check):

Inspections (checks) by an expert must be conducted and documented at least 1 x per year.

The annual inspection (check) comprises essentially:

- visual inspection
- function check

In cases of doubt, the manufacturer or a person the manufacturer authorises must carry out inspection and maintenance.

Repair work may only be carried out by the manufacturer or manufacturer-authorized personnel.

In particular:

We recommend dismantling the type D rescue carriage at least every three years and checking of the hub in the roller as well as all parts for their condition and to lubricate them as necessary.

9. Service life

The service life depends on the intensity and frequency of use, as well as the handling of this product.

For example, it can be damaged so badly at the first use that it must be replaced immediately. Certain factors, such as salt, snow, ice, moisture, sand, etc. (list not exhaustive) can also negatively affect the service life to a considerable extent.

The textile parts (energy absorbers) must be replaced after 8-10 years.

10. Exclusion of liability

IMMOOS GmbH declines any liability or obligation to pay damages if accidents or damage are attributable to:

- noncompliance with legal and official regulations.
- noncompliance with rules or contractually agreed conditions of IMMOOS GmbH.
- non-intended use of the rescue carriage.
- influences on the rescue carriage or safety of persons that are caused by changes.
- unauthorised changes to parts or their replacement by other materials or additional loads placed on them.
- parts not supplied by IMMOOS GmbH.
- sabotage, acts of war and cases of force majeure.

11. Documentation of the annual expert inspection

Prescribed verification of the inspection conducted (EN 365):
 (Fill out 1 page for each product)

Product:	IMMOOS type TB rescue carriage 2 rollers
Owner:
Serial number:

Year of production:	Date of purchase:	Date of first use:
.....

Date	Evaluation	Official stamp or visa

Notes

IMMOOS

**Evacuation and
safety solutions**

IMMOOS GmbH
Tramweg 35
CH-6414 Oberarth
www.immoos.com

Tel: +41 (0)41 857 06 66
Fax: +41 (0)41 857 06 65
info@immoos.com