

USER MANUAL

ORIGINAL MANUFACTURE'S INSTRUCTIONS

EQUIPMENT NAME: HARDMOB 125

APPROVED FOR USE ON AIRCRAFTS:

AIRBUS H125

APPLICABLE TO EQUIPMENT PART NUMBERS:

AM-HDM-125-K01

EQUIPMENT MANUFACTURER:

Aeromob Equipamentos Aeronáuticos LTDA

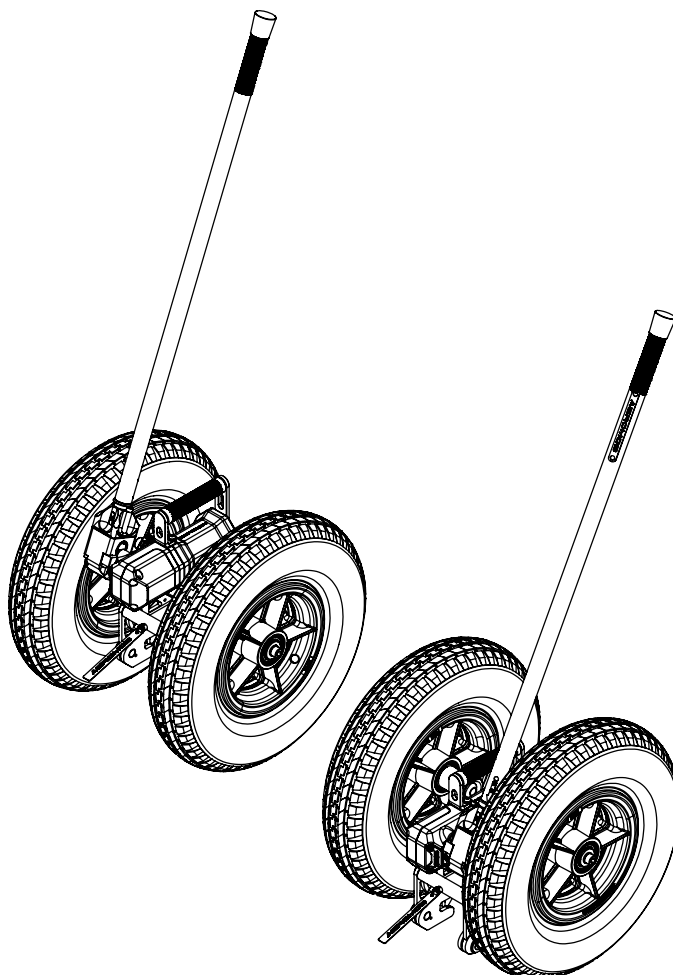
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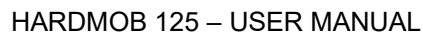
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INTRODUCTION

The equipment you are receiving was developed under the most advanced engineering concept. Congratulations on your operational choice!

This manual contains instructions and approved operating procedures for using HARDMOB 125, a set of ground handling wheels for Airbus H125 helicopter models.

This User Manual is a mandatory read by anyone wishing to operate the equipment, assuring quality and safety in the operation.

In addition to this User Manual, your equipment is accompanied by the following documents: Flight Manual Supplement (FMS), Maintenance Manual (MM), Illustrated Parts Catalog (IPC), and Assembly Manual. For more information on these documents, refer to chapter 8.

To access the most up to date versions of this manual, scan the QR-Code that follows:



www.aeromob-industry.com/support-am-hdm-125-k01

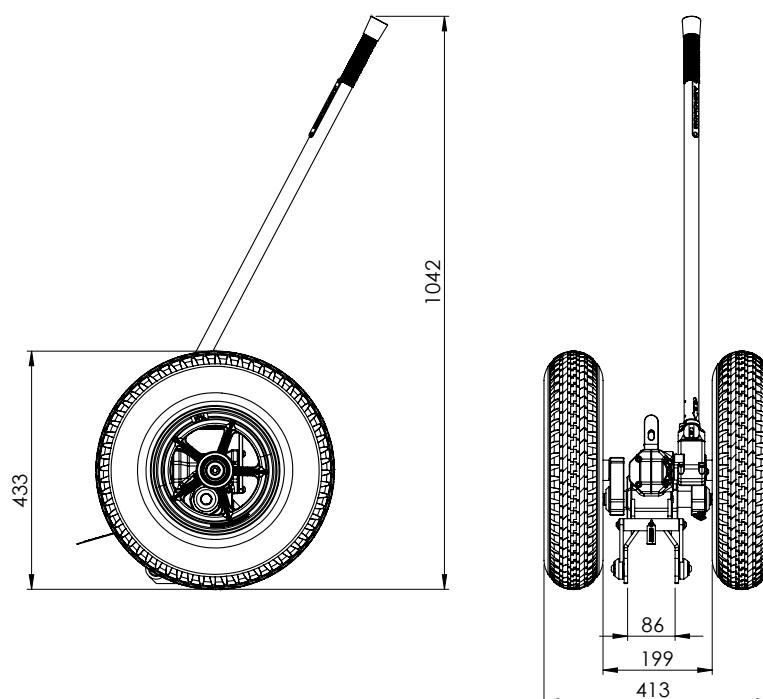
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1 GENERAL INFORMATION

TECHNICAL DETAILS

- Main material : Carbon Steel
- Equipment Weight (Per Wheel) : 29.1 kg – 64.1 lb
- Maximum speed : 6 km/h – 3.7 mph
- Maximum capacity : 1 800 kg – 3 969 lb
- Maximum ground slope : 5% – 2.86°



HARDMOB 125 DIMENSIONS
Figure 1

APPROVED USE

The HARDMOB 125 is a set of ground handling wheels for Airbus H125 and its models. The intended towing operations are as follows:

- From the hangar to the take-off point.
- From the take-off point to the hangar.

Use of the HARDMOB 125 for any other function is prohibited.

The HARDMOB 125 is approved by the manufacturer for ground handling operations of the aircraft that follow:

- Airbus H125

It is expressly forbidden to use this equipment on other helicopter models, above the approved weight and/or for non-approved functions.

2 LIMITATIONS

GENERAL LIMITATIONS

The maximum capacity of the equipment is 1 800 kg – 3 969 lb, distributed over the pair of wheels.

The tires must be calibrated to 74 psi (5.1 bar). All 4 tires of the set must be calibrated before using the equipment. If there is a variation in ambient temperatures larger than 10°C from the day of calibration to the time the equipment is used, the tires may lose their calibration and must therefore be recalibrated before use.

Operation without correct calibration may cause a circular line along the diameter of the tires. This line is indication of damage to the tires due to operation without proper calibration.

Incorrect calibration of the tires may cause the risk of personal injury and/or damage to equipment! In addition, under-calibration will make the helicopter heavy to move and reduce the helicopter's ground clearance during the movement.

TOWING SPEED

The maximum ground handling speed (loaded or unloaded) is 6 km/h (3.7 mph).

OPERATION

Operate the equipment only on paved surfaces, firm grass, or firm soil. Do not operate on uneven ground. Severe vibration can damage the aircraft or injure nearby personnel.

The maximum permitted slope is 5%.

A minimum of two operators is required to lever and lift the aircraft, with one person responsible for levering and the other for safeguarding the helicopter's tail from the risk of tipback. The tendency for the tail to droop will depend on the level of the ground, as well as the position of the aircraft's Center of Gravity at the time, which will vary depending on the amount of equipment installed in the aircraft, fuel supplied and the basic empty CG of your helicopter.

To move the aircraft with human power, at least three people are needed, one person to hold the helicopter by the tail and two others to push the aircraft.

Operation of this equipment with people or luggage aboard the aircraft is prohibited.

Operate the equipment only when it is complete and serviceable. Do not use the equipment if any part or identification plate is missing. Use only components supplied by the manufacturer for this equipment, and do not install components that are not part of this equipment.

If you need a replacement part, contact AEROMOB.

3 SAFETY MEASURES

- ✓ Before use, ensure the HARDMOB 125 is in good working condition.
- ✓ Read this Instruction Manual before operating the equipment.
- ✓ Do not move the aircraft with people or luggage aboard. Do not open or unlock the aircraft doors while the HARDMOB 125 is installed.
- ✓ Do not allow this equipment to be operated or handled by children.
- ✓ Make sure the tires are correctly calibrated to 74 psi (5.1 bar).
- ✓ Do not use the equipment if you are unsure of any operational procedure. Contact our support team and clear up any doubts before operating the equipment.

4 OPERATION

The HARDMOB 125 uses the ATM System® (Aeromob Torque Multiplier System®). The ATM System® is a mechanical force multiplier. The system replaces hydraulic wheel systems and mechanical lever wheels.

The operator moves a manual lever to activate the system. An internal gear mechanism multiplies the input force. The mechanism converts the lever movement into lifting force.

This force lifts the helicopter during ground handling operations. The mechanical design reduces force losses during operation. This allows controlled lifting with reduced operator effort.

The lever bar can be set to two configurations. Each configuration can be selected with a twist of the lever arm. The name of the selected configuration is shown on the equipment's handle. The configurations are as follows:

- Up: lift the helicopter.
- Down: lower the helicopter.

During helicopter lifting and lowering operation, an indicator attached to the HARMDMOB 125 arm moves along a colored stroke.

The arm is fitted with two arrows, which indicate the correct arm movement direction. During correct equipment operation, the arm will move following the direction indicated by the arrows.

Movement of the arm in a direction different than the one indicated by the arrows does not create a risk to the operation or to the structural integrity of the equipment. It can make operation more difficult and less ergonomic. This operating condition is not intended and is not approved by AEROMOB.

WARNING:

REMOVE ALL GROUND HANDLING EQUIPMENT BEFORE FLIGHT.

CAUTION:

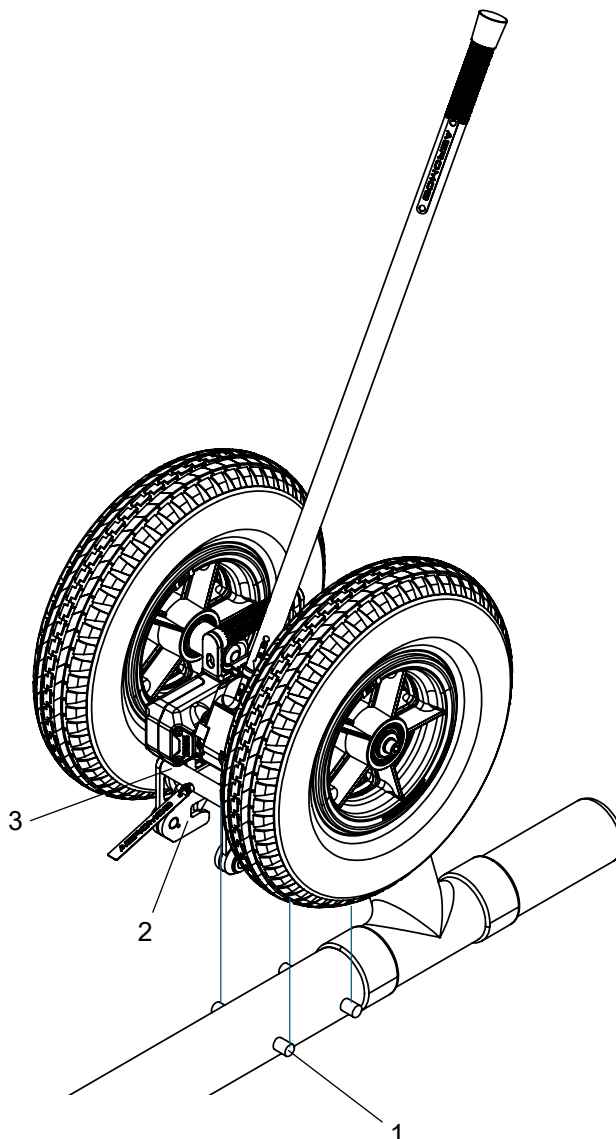
DO NOT TOW THE HELICOPTER IF THE GROSS WEIGHT IS MORE THAN 3969 POUNDS (1800 KG).

INSTALLATION

NOTE:

Additional steps may be required before aircraft ground handling. Refer to the aircraft maintenance manual before operation.

1. Make sure that the HARDMOB 125 tires are calibrated to 74 psi (5.1 bar).
2. Ensure that all helicopter doors are closed and locked.
3. Install the pins (1) of the skid on the claw of the HARDMOB 125 (2).
4. Ensure latch (3) is locked, with the pins fastened to the slots of the HARDMOB 125.
5. Twist the lever bar to the UP position indicated on the handle.
6. Lever until the cursor on the HARDMOB 125 body reaches the end of the stroke to lift the helicopter.
7. Repeat the operation on the other side.



HARDMOB 125 INSTALLATION
Figure 2

HANDLING

There are two options for moving the aircraft. The options are as follows:

- manual operation
- equipment assisted operation

Manual Operation

1. Put one operator on the helicopter's tail to avoid the aircraft from tipping back while suspended and angled.
2. With two operators, push the skid's cross-tube or footstep to move the helicopter. Never apply pressure on the fuselage.

Equipment Assisted Operation

WARNING:

KEEP YOUR FEET CLEAR OF THE LANDING-GEAR SKID TUBES WHEN YOU LOWER THE HELICOPTER. FAILURE TO DO SO MAY RESULT IN INJURY TO PERSONNEL.

NOTE:

To tow the aircraft with a motorized vehicle, it is recommended to use AEROMOB's CARTMOB UNIVERSAL (PN AM-CRT-K02) tow bar or AEROTANK T10 (PN AM-ATK-T10-K00). For more information, contact AEROMOB.

1. Obey the towing manufacturer instructions of the equipment used for the operation.

REMOVAL

1. Put an operator near the tail of the helicopter to keep it tipping back until the first side of the skid is fully lowered.
2. Twist the lever bar to the DOWN position indicated on the handle.
3. Lever until the cursor on the HARDMOB 125 body reaches the end of the stroke to lower the helicopter.
4. Pull the latch (3) to remove the HARDMOB 125 from the skid.
5. Repeat the operation on the other side.

5 STORAGE

To store the HARDMOB 125, keep the lever bar attached to the equipment.

You can keep the equipment coupled to the aircraft if it is fully unlevered. You can also store the equipment inside the hangar.

Make sure the equipment does not obstruct the movement of personnel or aircraft.

To preserve the tires, keep the equipment sheltered from weather and direct sunlight. Exposure can dry the tires and cause small cracks. This can negatively affect operation.

Keep the equipment out of reach for children.

To take the equipment on board, disconnect the lever bar and transport the equipment.

6 ASSEMBLY

To ensure safe shipment of the HARDMOB 125, the lever bars are shipped detached from the handle.

To attach a lever bar to the handle, insert the lever bar into the location indicated on the handle.

After installation, do not remove the lever bar. The lever bar can remain attached during all use, including aircraft handling.

7 EQUIPMENT DOCUMENTATION

FLIGHT MANUAL SUPPLEMENT (FMS)

The equipment Flight Manual Supplement (FMS) sent printed with the equipment and is available for digital consultation. It is advised that this equipment FMS be inserted into the flight manual (POH), in the SUPPLEMENTS section, for quick access of basic information relating to this equipment.

To access the updated version of the Flight Manual Supplement (FMS), go to: www.aeromob-industry.com/support-am-hdm-125-k01 or scan the QR CODE available in this Manual.

USER MANUAL

This document is the User Manual. It is mandatory to read this manual before operating the equipment.

To access the updated version of the User Manual, go to: www.aeromob-industry.com/support-am-hdm-125-k01 or scan the QR CODE available in this Manual.

MAINTENANCE PROCEDURES

The overhaul plan and any necessary maintenance procedures must be carried out in accordance with the Maintenance Manual.

To access the updated version of the Maintenance Manual, go to: www.aeromob-industry.com/support-am-hdm-125-k01 or scan the QR CODE available in this Manual.

SPARE PARTS

The Illustrated Parts Catalog – IPC is the official reference document for ordering spare parts.

To access the updated version of the Illustrated Parts Catalog, go to: www.aeromob-industry.com/support-am-hdm-125-k01 or scan the QR CODE available in this Manual.

8 WARRANTY

Limited Warranty

This AEROMOB Equipment is warranted to the original purchaser (only) for one full year from the date of invoice issuance to be free from factory defects in material and workmanship. During this 12-month period, AEROMOB will repair or replace, at our discretion, the defective component determined by AEROMOB to be defective. This warranty does not apply to damage or defects caused during shipping, or resulting from misuse, improper application, or attempted repair by non-authorized service staff. The buyer must retain the original shipping box for the entire warranty period. Equipment returned in packaging other than the original box will not be eligible for warranty coverage. Shipping and return shipping costs associated with warranty will be borne by the purchaser. Contact AEROMOB via the link: www.aeromob-industry.com/support-am-crt or by scanning the QR CODE available in this Manual.

Limitation of Liability

AEROMOB shall not be liable for indirect, consequential, or special damages, including but not limited to lost profits, production loss, or commercial damages, regardless of the legal basis of the claim. In no event shall AEROMOB's liability exceed the purchase price of the product subject to the claim. AEROMOB has no control over installation, application, modification, or use of this product and therefore assumes no liability for resulting injury or damage. By the first act of installation, setup, or use, the user accepts full responsibility. Failure to operate this product in a safe and responsible manner may result in injury or damage to the user, third parties, property, or the product. This product is not a toy and must not be used by children without adult supervision. Users must read the entire manual and warranty/liability terms before first use, application, or installation. If the purchaser or user does not agree to these terms, the product must be returned unused to the original place of purchase.

Return Policy

Products may be returned within 7 days of delivery for a full refund, provided they are unused, in new condition, and include all original packaging and accessories. Shipping costs related to delivery or return are non-refundable. A return authorization must be obtained from AEROMOB before any product is returned.

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