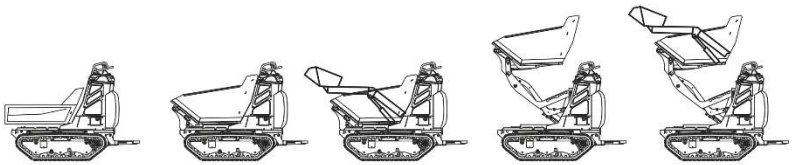
CORMIDI

MINIDUMPER



C8X-800 SERIES

EN

Original Instructions HONDA

MUM.C8X-800 H3-Rev.01 – 2025

Series C8X-800

Minidumper

Ed. 1

USER AND MAINTENANCE MANUAL

This manual must always be available so that the operator can consult it immediately, and it must be kept for the entire lifetime of the machine.

The text drafting, illustrations, and layout were produced by "Cormidi S.r.l." The information and technical data have been provided, verified, and validated by the Cormidi Technical Department.
The illustrations and technical data contained in this manual are not binding: **therefore, the manufacturer reserves the right to make any changes to the product without prior notice.**

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PRELIMINARY NOTES

Dear Customer,

Thank you for placing your trust in us by purchasing a CORMIDI Minidumper.
This product has been designed and built to last and to be used in complete safety.

However, it is essential to carefully read this manual, which describes the correct procedures for optimal use of the machine. Improper use may result in damage to the machine and cause injury and/or health risks.

Always keep this manual within easy reach so that it can be consulted at any time—before, during, and after using the machine.
In the event of resale, make sure to hand it over to the new owner along with the minidumper, as it contains the CE Declaration of Conformity.

Please note that the illustrations in this manual mostly refer to the basic model, and that our machines are constantly being improved and upgraded to allow our customers to benefit from the latest technological advancements.
As a result, the features and information in this manual may have undergone recent changes.
We kindly ask you to contact us should you encounter any issues.

For further information, you can always rely on your authorized dealer/distributor, or contact us directly by phone or by e-mail at: **info@cormidi.com**.
When in doubt, it is always better to ask than to proceed on your own initiative.

Wishing you a pleasant reading of this manual and full satisfaction with your machine, we extend our warmest regards.

Staff CORMIDI Srl

1 GENERAL INFORMATION

1.1 WARRANTY AND TERMS OF VALIDITY

Your machine is covered by a 24-month warranty starting from the date of delivery. The warranty covers the replacement of those components which, at the sole discretion of our Technical Department, are found to have manufacturing defects.

WARRANTY EXCLUSIONS

The warranty does not cover:

- Components not manufactured directly by the Manufacturer.
- Working parts in contact with the ground.
- Failures resulting from incompetence, negligence, or improper use.
- Consumable materials, labor, and travel expenses.

The engine, on the other hand, is covered exclusively by the warranty provided by the engine manufacturer, under the terms and conditions specified by the engine manufacturer.

WARRANTY VOIDANCE

The warranty will be immediately void in the following cases:

1. Use of the machine for purposes or applications other than those intended by the Manufacturer.
2. Damage caused by the application of unauthorized accessories.
3. Repairs performed with non-original or unsuitable spare parts.
4. Failure to carry out the mandatory servicing as indicated in the table and the relevant paragraph of the manual.
    - Servicing must be performed and certified exclusively by authorized Cormidi workshops.
5. Failure to register the machine with the manufacturer within 5 days of commissioning.
    - In the absence of registration, the sales document will be used to determine the warranty start date.

IMPORTANT:

Failure to comply with any of the above points will result in the immediate voiding of the warranty, releasing Cormidi from any legal obligation regarding repairs or replacements.

A Warranty Certificate is provided with the machine, which outlines the terms governing warranty service.
We strongly recommend reading the warranty form carefully to fully understand your rights and any potential responsibilities.
Please cooperate with your dealer when completing the form and ensure it is correctly filled out, as the date, content, and other required formalities (timely submission, etc.) constitute the legal basis for warranty entitlement on the machine.

1.2 PURPOSE OF THE MANUAL

This manual has been prepared by the Manufacturer and is an integral part of the machine. It has been issued in Italian, the Manufacturer's original language, and in accordance with point 1.7.4 of Directive 2006/42/EC.
The information contained herein is intended for experienced operators with specific expertise in the field of use. The manual defines the purpose for which the machine has been designed and built.
To avoid incorrect operations that could lead to accidents, it is important to read this manual, especially before first use, to become familiar with the main controls and functions.
Constant adherence to the information provided ensures human safety, operational economy, and a longer working life of the machine.
To highlight important sections of the text that must not be overlooked, these are emphasized in bold and preceded by the symbols described and defined below:

READ CAREFULLY: Users are strongly advised to read this manual carefully and thoroughly before carrying out any of the described operations.

DANGER: Indicates an imminent danger situation that can cause serious injury or death if the instructions are not followed.
Potential hazards on the machine are marked with a symbol characterized by a yellow triangle with a black border containing a pictogram representing the specific danger..

WARNING: Indicates a potential hazard situation that can cause serious injury or death if the instructions are not followed.
Warnings on the machine are indicated by symbols characterized by a yellow triangle with a black border containing an exclamation mark.

CAUTION: Indicates a potentially hazardous situation that may cause injury or damage to the machine if the instructions are not followed.

Caution procedures are indicated by symbols characterized by a blue circle containing the pictogram.

PROHIBITION: Prohibitions that must be observed by all persons who interact directly and/or indirectly with the machine in order to minimize risks.

1.2 MACHINE DESCRIPTION

The C8X-800 series minidumpers are compact, self-loading tracked machines equipped with a skip, specifically designed and built for transporting inert materials. To meet various market requirements, the machine can be equipped with engines of similar power output but from different manufacturers and with different specifications.

READ CAREFULLY: Accurately identify the type of engine installed on your machine and refer to the attached manual for detailed information.

1.3 SAFETY INFORMATION

READ CAREFULLY: It contains essential safety information for you and those working with you!

Every effort has been made in the construction of this machine to make your work safer. However, caution is irreplaceable: there is no better rule to prevent accidents.

WARNING: The machine must always be operated by a competent and well-trained operator.

- ☞ Carefully read the information before using the machine or performing maintenance and/or repair operations.
- ☞ A few minutes spent reading this manual will save you time and effort later on.
- ☞ Carefully read the warnings and information on the labels attached to the machine, and immediately replace any lost or illegible labels. Comply with all regulations indicated therein.
- ☞ The machine has been designed exclusively for the transport of inert materials. Any other use is prohibited.

PROHIBITION: It is strictly prohibited to use this machine for transporting people and/or animals.

PROHIBITION: It is strictly forbidden to use this machine for towing other machines, vehicles, and/or devices, even temporarily or in emergency situations.

- The machine is a work tool: always comply with all national regulations, especially those related to workplace safety.

OBLIGATION: Always diligently wear appropriate work clothing and, above all, suitable footwear. Always use hearing protection devices.

WARNING: Never wear loose or flowing clothing (such as scarves or ties) that could easily become caught in moving parts.

☞ It is always advisable to have a first aid kit readily available.

☞ Before starting the engine, always ensure that there are no people, animals, or objects within the operating range that could obstruct the work.

DANGER: Never operate the engine in enclosed spaces, as the exhaust gases are lethal.

OBLIGATION: Dispose of mineral oils and hazardous products in compliance with environmental regulations and current legislation.

☞ **All cleaning**, adjustment, and/or maintenance operations must be performed in suitable environmental conditions and adequate lighting, always **with the engine off**.

DANGER: Never refuel the vehicle with the engine running or hot, near an open flame, or while smoking. Always keep the machine clean from lubricant and/or fuel residues.

☞ Pay particular attention to avoid contact with overheated parts of the engine.

PROHIBITION: It is strictly forbidden to remove the guards and safety devices installed on the machine.

☞ Avoid operating the machine when physically unfit or very tired: instead, stop working.

DANGER: During operation, always ensure that the ground has adequate

firmness and avoid working on the edges of embankments or ravines, or on excessively steep or uneven terrain.

☞ When storing the machine, take all necessary precautions to prevent it from being moved or started by unauthorized or untrained persons.

CAUTION: Never leave the machine unattended while it is running, not even temporarily: when leaving, turn off the engine and engage the parking brake.

DANGER: Never let children play with the machine, even if it is turned off!

1.4 MANUFACTURER AND MACHINE IDENTIFICATION

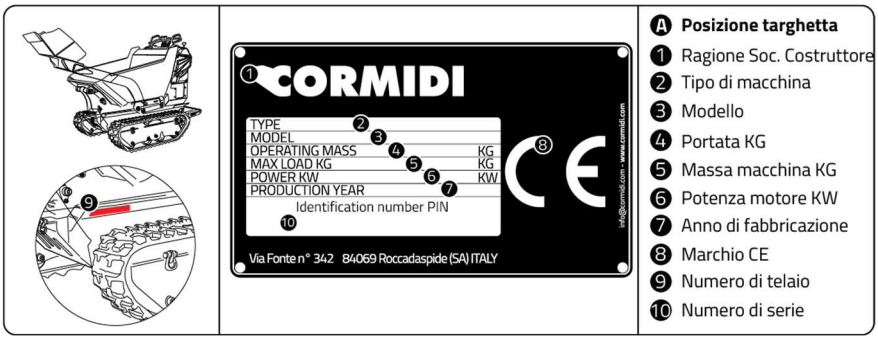


fig.1 – Identification Plate

The identification data of the manufacturer and the machine are shown on the aluminum summary plate fixed to the machine's dashboard, while the chassis number is stamped on the left rear frame arm. (*see. fig.1*).

1.5 STANDARD ACCESSORIES

READ CAREFULLY Instructions and operating procedures for any accessories installed on your machine. Always refer to the manual provided with the accessories.

The machine is supplied with a set of tools to enable the performance of routine maintenance operations.

2 SAFETY

2.1 SAFETY LABELS

READ CAREFULLY: During the design phase, every effort was made to prevent possible accidents; however, where this was not technically feasible, specific pictograms were used to highlight potential and imminent risks. Special stickers with signals and descriptions associated with pictograms were created to emphasize possible dangers, in accordance with the UNI 9244-95 (E) standard (see fig. 2.1).

PROHIBITION: It is strictly prohibited to remove the safety stickers and labels installed on the machine: immediately replace any that are damaged and/or illegible.

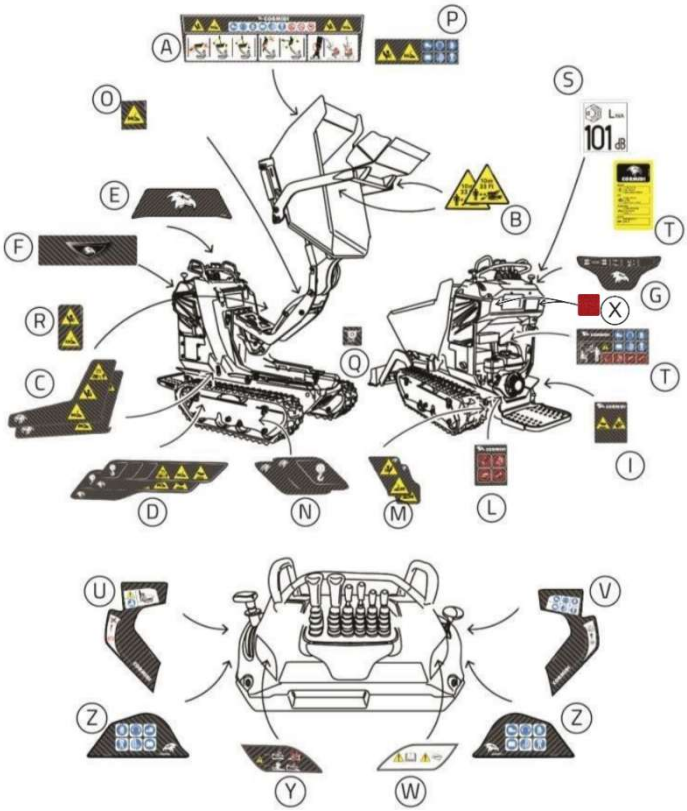


fig. 2.1 – Location of Safety Labels

2.1.1 Warnings for the HAC Version

Label requiring the operator to exercise caution while using the arm and the lifter to unload at height, due to possible collisions between the arm and the skip.

2.1.2 Safe Distance

Label warning of the serious danger of approaching or standing within the machine's operating range due to an imminent risk of hazard.

2.1.3 Control Panel

Through these pictograms, it is possible to understand how to operate and control all parts of the machine, such as travel, tipping, arm, and skip lifter (depending on the version)

2.1.4 Crushing Hazard

Label indicating a potential crushing hazard, which may cause serious injury or death.

2.1.5 Shearing Hazard

Label indicating a potential shearing hazard, which may cause serious injury or death.

2.1.6 Caution Procedures

This caution label serves as a reminder to follow all accident-prevention precautions, especially regarding the use of personal protective and safety equipment. The meaning of the pictograms is as follows:

- Read the manual before starting the machine for the first time, whenever the operator changes, and in any case where there is uncertainty about its operation;
- Wear hearing protection or other prescribed protective devices;
- Wear the prescribed protective gloves;
- Wear the prescribed safety footwear.

Fan and Overheating
Fan: Potential risk of contact with fans and/or rotating systems that could cause severe limb injury.
Do not touch the areas around this pictogram.

Overheating: Hot and/or boiling parts that can cause severe and irreversible injuries.
Do not touch the areas around this pictogram..

2.1.7 dB Label

Indicates the noise level.

2.1.8 Oil Indication

This label provides all the information regarding the oils usable for the C8X-800 series.

2.1.9 Read the Operation and Maintenance Manuals

Viene riportato sul cruscotto della macchina che vanno letti i manuali d'uso e manutenzione.

2.1.10 Battery Disconnect Switch

The label on the side indicates the possibility to disconnect the battery from the machine's electrical circuit; the battery disconnect switch device can be found near this label.

2.1.11 Reflectors

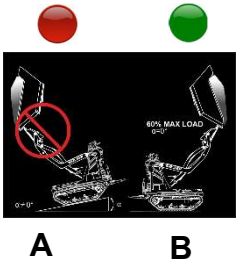
They are reflective devices designed to indicate the presence of the machine without an operator in low visibility conditions.

2.1.12 Unload for HI and HAC Versions

WARNING the label indicates that:

A: IT IS STRICTLY FORBIDDEN to perform high dumping (in the HI and HAC versions) when the machine is on a slope (longitudinal or transversal).

B: High dumping on a horizontal, level surface is allowed only with a load up to 60% of the maximum capacity.

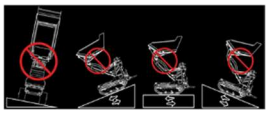


Strictly comply with the instructions indicated in §4.7.

2.1.13 Driving and Slope Handling for HI and HAC Versions

WARNING

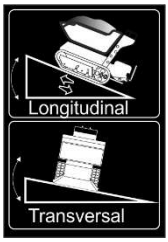
The label indicates that for HI and HAC versions it is strictly forbidden to drive on level ground or slopes with the dump bed raised, to avoid serious consequences for the operator and the machine, as there is a potential risk of tipping over.



2.1.14 Maximum Safe Slopes with STD (Standard) Load

Evitate Avoid working on terrain with longitudinal and transversal slopes exceeding those shown in Table 1 (see §4.5.5) to prevent the risk of tipping over, which could result in serious injury to the operator. Strictly observe the limit values indicated in Table 1 by using the appropriate.

INCLINOMETER (see §4.8). In any case, but especially on slopes, it is important that the ground is solid and stable.



2.1.15 Incli-Tech Inclinometer

Measuring instrument used to determine the machine's angle of inclination relative to the vertical and/or horizontal.

Measurement reading:

Table 1 – Maximum Allowable Slopes with Standard Load		
Machine	**Honda Engine**	
	Longitudinal	Transversal
C8X-800 RI	15°	19°
C8X-800 AC	14°	19°
C8X-800 RIA	13°	20°
C8X-800 HI*	16°	19°
C8X-800 HIAC*	15°	19°

1. The reading must be taken with the **MACHINE STOPPED** and **ENGINE OFF** to avoid inaccuracies caused by uneven terrain and vibrations. In the case of machines without a battery, the reading should be performed with the ENGINE IDLING to minimize the effects of vibrations (see §4.8 – INCLINOMETER).

2. It must be strictly compared with the limit values indicated in tables 1 and 2 (see chapter 4 “Operating Rules”). EXCEEDING these limits is **STRICTLY PROHIBITED.**

Table 2 – Allowable Slopes for Hi-Tip Discharge					
Machine	**USE**		**LOAD**	**Honda Engine**	
				Longitudinal	**Transversal**
C8X-800 HI	HI TIP	On flat ground (0°)	60%	0°	0°
		On an incline	0%	**NOT ALLOWED**	
C8X-800 HAC	HI TIP	On flat ground (0°)	60%	0°	0°
		On an incline	0%	**NOT ALLOWED**	

*The values indicated in Table 1 refer SOLELY AND EXCLUSIVELY to the LOW UNLOAD condition (see fig. 4.8 a - Chap. 4).

For the HIGH UNLOAD condition (see fig. 4.8 b - Chap. 4), strictly follow the instructions given in §4.7 and in Table 2.

2.2 SAFETY DEVICES

PROHIBITION: It is strictly forbidden to operate the machine with safety devices and guards removed, blocked, or otherwise rendered non-functional..

WARNING: Before starting work, always check the functionality of the safety devices and immediately replace any worn and/or faulty parts.

2.2.1 Skip Lock

The machine is equipped with a device designed to lock the skip in the raised position, preventing accidental descent.

Before performing any repair and/or maintenance work with the skip raised, always lock the cylinder following the procedure (see fig. 2.2):

1. Raise the skip;
2. Switch off the engine;
3. Remove the safety device “2,” attached to the right side member of the frame, by unscrewing the handwheel;
4. Insert the slots of the bar near the piston of the hydraulic jack;
5. Rotate the bar, positioning it parallel to the piston;
6. Slowly lower the skip with the engine off until the device locks into place.

2.2.2 Skip Lifting Lock ("HI-TIP") for Skip and Self-Loading

The skip lifting device for high dumping ("Hi-Tip") can be locked in the raised position to prevent accidental movement.
Before performing any repair and/or maintenance work with the Hi-Tip raised, always lock the piston following the procedure..

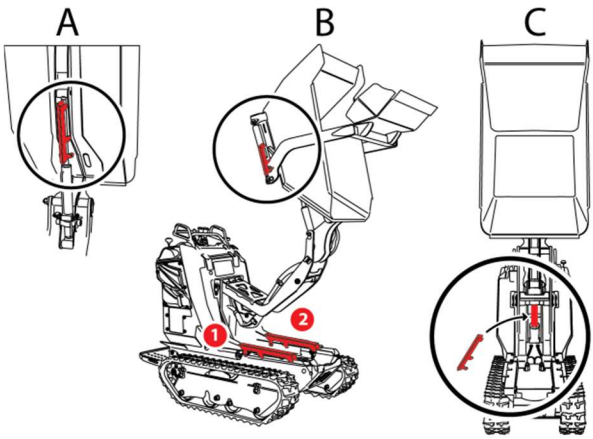


fig. 2.2 – Safety Devices

1. Raise the Hi-Tip mechanism, the arm, and tilt the skip.
2. Turn off the engine.
3. Remove the safety device "1," fixed on the chassis side member, by unscrewing the black handwheel.
4. Insert the slots of the bar near the piston of the hydraulic jack C.
5. Rotate the bar, positioning it parallel to the piston.
6. Slowly lower the mechanism with the engine off until the device locks into place.
7. The same procedure also applies to securing the skip and the arm.

At the end of the intervention, remove the device and properly place it back into its housing on the chassis.

2.2.3 Platform Lock

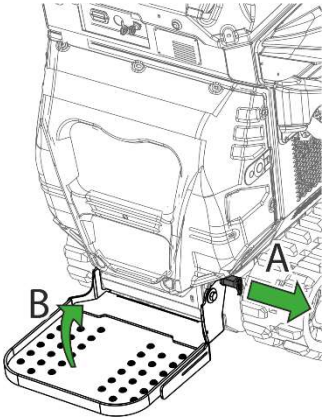


fig.2.3 – Platform block

The operator platform must always be locked in the open position during operation, as shown in the image above; to prevent accidental movement, use the locking device located on the right side of the platform, which consists of a spring-loaded safety pin “A” (see fig. 2.3).

- **To lower the platform:** pull the ring of the spring pin “A” outward and lower the platform, then release the ring; when lowered, the platform will automatically lock in the lowered position.
- **To raise the platform:** pull the ring of the spring pin “A” outward and lift the platform, then release the ring; when raised, the platform will automatically lock in the raised position.

WARNING: Always use the operator platform in the open position during work to prevent possible accidents. Close the platform only after completing use..

2.3 Driving Position

While operating the machine and during work, always use the driving platform in the lowered position (see fig. 2.5-A) to prevent possible injuries. Close the platform only after finishing use (see fig. 2.5-C).

To use the platform, position it correctly (see fig. 2.5-A):

- Pull the spring safety pin that locks the platform
- Rotate the platform until it reaches the horizontal position.
- Once in position, it will automatically lock with the spring pin.

fig. 2.4 Driving Position

DANGER: Never drive with the platform unlocked. Always ensure that the platform is securely locked and the safety pin is properly in place.

WARNING: When opening or closing the platform, be careful with your hands to avoid cuts or crushing injuries..

During operation, always firmly hold the handgrip with one hand while simultaneously operating both control levers with the other hand. Never release your grip on the handgrip to use both hands on the levers.

DANGER: During machine operation, the operator must always assume and maintain the prescribed driving position.

Proceed at a speed appropriate to your pace, ensuring you always maintain a safe and controlled position over the controls.

2.4 Driving with Platform Open or Closed

The machine must be driven with the platform open and the operator on board only when the dump body is loaded and the ground is SOLID and COMPACT. In this way, the weight inside the dump body ensures stable driving with the operator on board. (fig. 2.5-A)

If the dump body is empty and the machine is on a slope, either going uphill or downhill, thus on uneven ground (B) and (C), drive the machine with the platform closed and the operator on the ground.

DANGER: Do not drive the C8X-800 with the platform open when the dump body is empty. Risk of overturning!

DANGER: It is STRICTLY FORBIDDEN to operate the machine with the platform lowered without an operator on board. Always close the platform when maneuvering the machine from the ground. Failure to comply with this rule may cause serious harm to the operator.

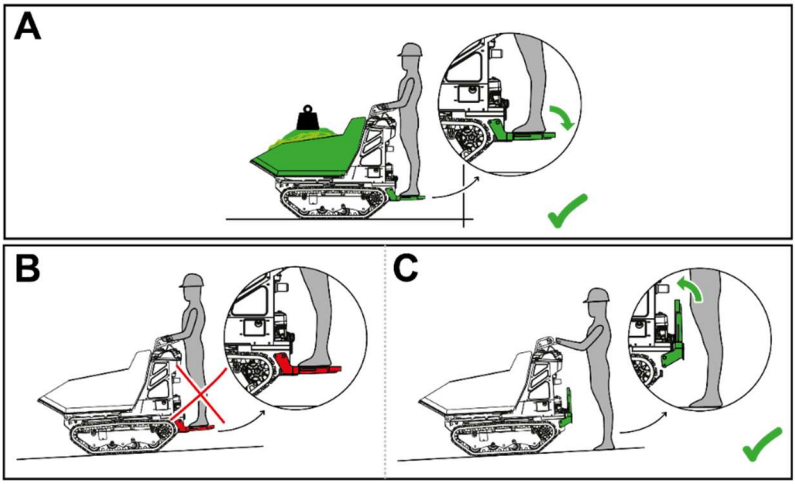


fig.2.5 – Operation with Platform Open or Closed

2.5 STOPPING AND PARKING

WARNING: If you leave the machine unattended, always engage the parking brake and ensure that no unauthorized person can start or move it.

Before stopping the machine, position it preferably on a flat paved surface or, in any case, on level, stable, and compact ground.

- Use the throttle lever to reduce the engine to idle speed.
- Engage the parking brake.
- Turn off the engine.
- Close the fuel valve (on engines equipped with one).

2.5.1 Use of the Parking Brake

The machine is equipped with a safety device called the "parking brake," which prevents the machine from moving even when the drive controls are engaged. This device is designed to prevent accidental movement of the machine in the absence of the operator; it also functions as an emergency stop in case the operator needs to immediately halt the machine during operation.

PROHIBITION: It is strictly forbidden to use the parking brake to stop the machine while it is in motion, except in emergency situations..

- **Engagement:** Pull the lever towards you, first lifting the ring under the knob with two fingers; the brake is engaged.
- **Disengagement:** Push the lever in the opposite direction; the brake is disengaged.

WARNING – If you encounter strong resistance when trying to disengage the brake lever, avoid forcing the mechanism as the wheel is locked. Before disengaging the brake, slightly move the machine forward or backward until the device unlocks.

Emergency Brake: the parking brake also functions as an emergency brake. To perform an emergency stop, gently pull the lever towards you, move it to the left to release it from the slot, and then release it; the brake will engage automatically.

DANGER: In case you need to use the emergency brake, be aware that it causes an instant lock of the traction mechanism, which may lead to loss of control of the machine.

WARNING: After using the emergency brake, have the device inspected for integrity and proper functionality. Continuing to operate the machine with a malfunctioning brake could be dangerous for your safety and that of others.

2.6 TRASPORT

WARNING: During transport, always position the machine on a level surface to prevent oil or other liquids from leaking.

If the machine needs to be transported, the procedure must be followed correctly to avoid risks to people and/or damage to the machine. If equipped, **keep the bucket fully lowered during transport**. Due to the machine's weight, manual handling is not possible; therefore, appropriate lifting equipment must be used for loading onto the transport vehicle.

The machine is equipped with **4 lifting hooks**, each with a capacity of 7,000 N (approximately 700 kg), for a total of **28,000 N (approximately 2,800 kg)**.

The position of each lifting hook is indicated by a label like the one shown in fig. 2.6 (C0900.13.66).

To carry out the operation safely, it is recommended to use four CE-certified lifting straps with hooks; the front and rear straps can be of equal length, approximately 170 cm. Proceed with the lifting as follows:

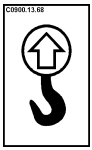


fig.2.6 – Lifting Point

- Empty the fuel tank and close the fuel valve;
- Attach the lifting equipment exclusively to the anchorage points specified by the manufacturer (see fig. 2.7);

WARNING: Lift the machine exclusively by hooking it to the designated lifting lugs; anchoring to other points may cause breakage, resulting in the machine falling and potentially causing serious injury to people.

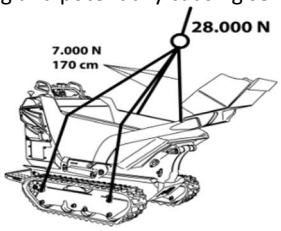


fig. 2.7 – Lifting Attachment Points

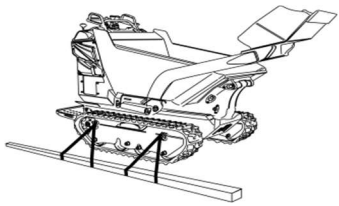


fig. 2.8 – Transport Anchor Points

- Secure it firmly to the transport vehicle's platform using strong CE-approved tie-down straps, always attaching them to the designated points shown in figure 2.8.

2.7 TOWING

The machine is equipped with a towing hook located on the lower front part of the undercarriage (see fig. 2.9).
If towing the machine becomes absolutely necessary, **make sure to empty the load body beforehand**.

Each towing anchor point is marked with a label bearing the symbol shown in **fig. 2.10** and is designed to withstand a **towing force of approximately 10,000 N (1,000 kg**).

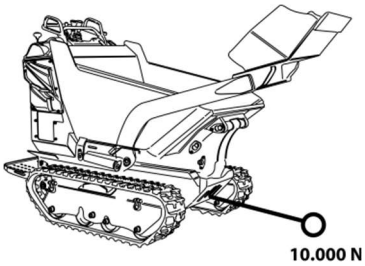


fig. 2.9 – Towing Anchor Points

fig. 2.10 – Towing Point

2.8 STORAGE

If the machine must remain inactive for several months, proper storage is essential to ensure it is fully operational when returned to service.
Carry out the storage procedure by following all the steps below:

- Perform all necessary repairs;
- Disconnect the battery using the battery disconnect switch;
- Completely empty the fuel tank;
- Thoroughly clean the machine, removing all traces of mud and/or organic substances;
- Carry out all engine-related procedures as described in the engine's user manual;
- Grease all lubrication points as indicated in the dedicated chapter;
- Store the machine indoors, protected from weather conditions, on a stable and level surface;
- If the machine is equipped with a battery, disconnect the terminals and apply suitable grease to prevent oxidation;

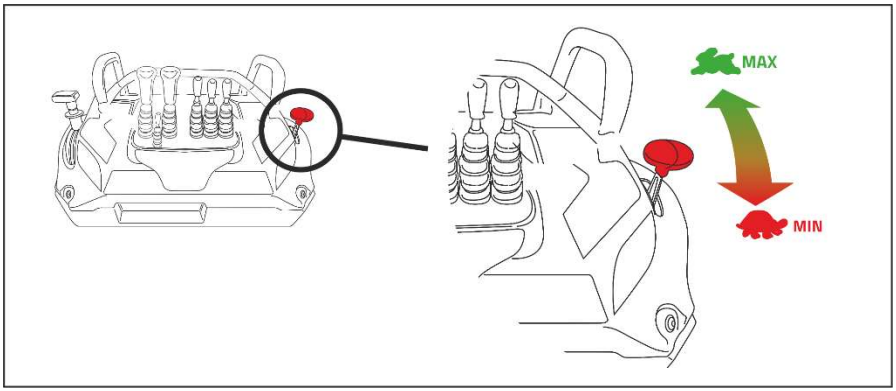
- Recharge the battery approximately every two months;
- If the machine is equipped with a starter key, remove it and store it in a safe place.

When placing the machine back into service:

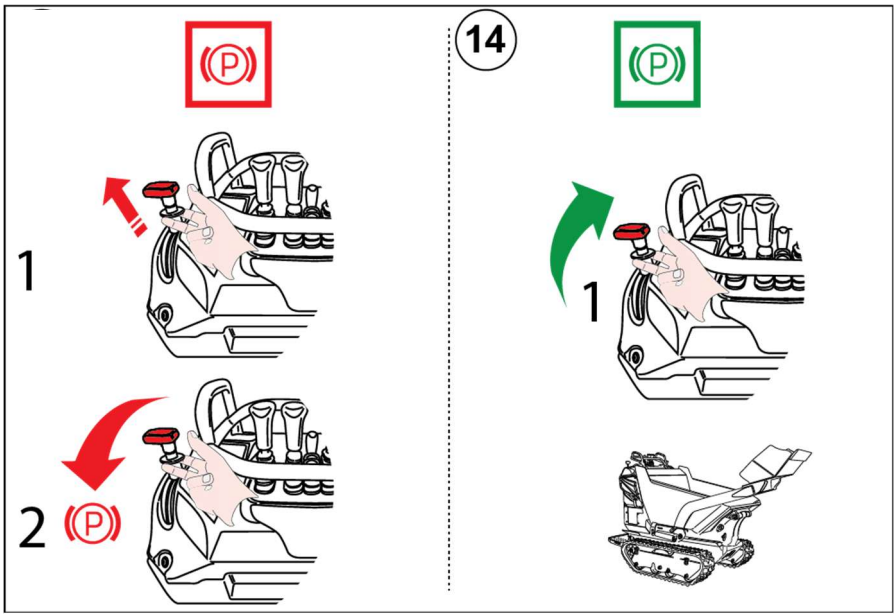
- Reapply grease to all lubrication points as indicated in the dedicated chapter;
- Perform any necessary engine procedures as specified in the engine's user manual;
- Check the oil level and top it up if necessary.

3 CONTROLS

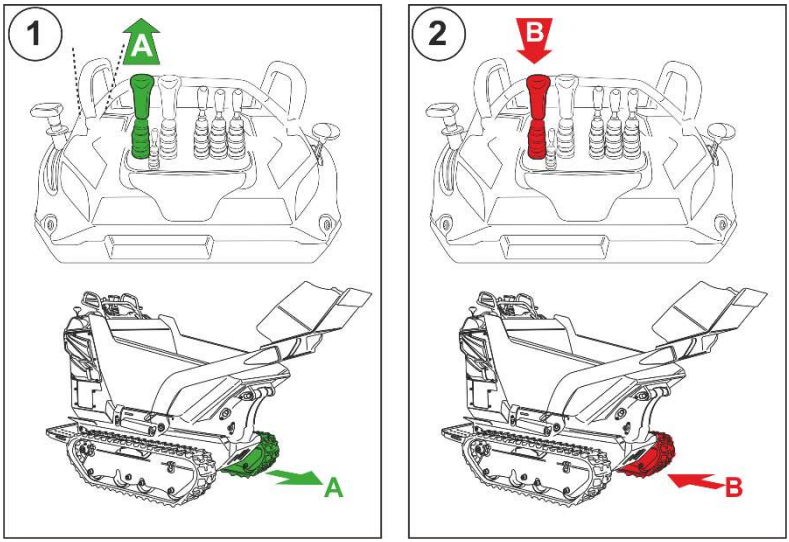
3.1 THROTTLE



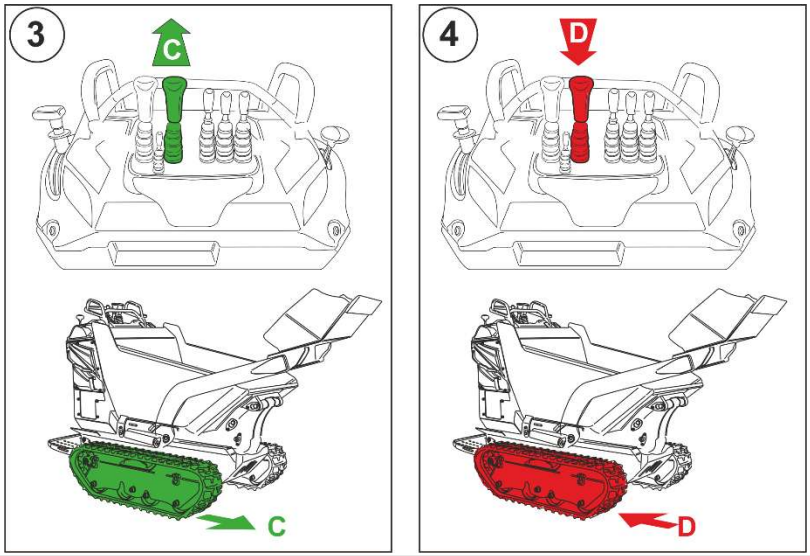
3.2 PARKING BRAKE



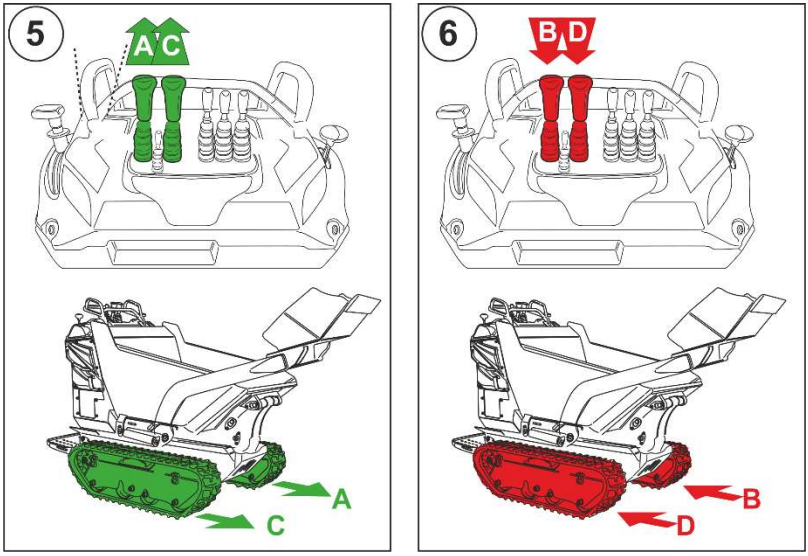
3.3 TURNING RIGHT (Move Left Track)



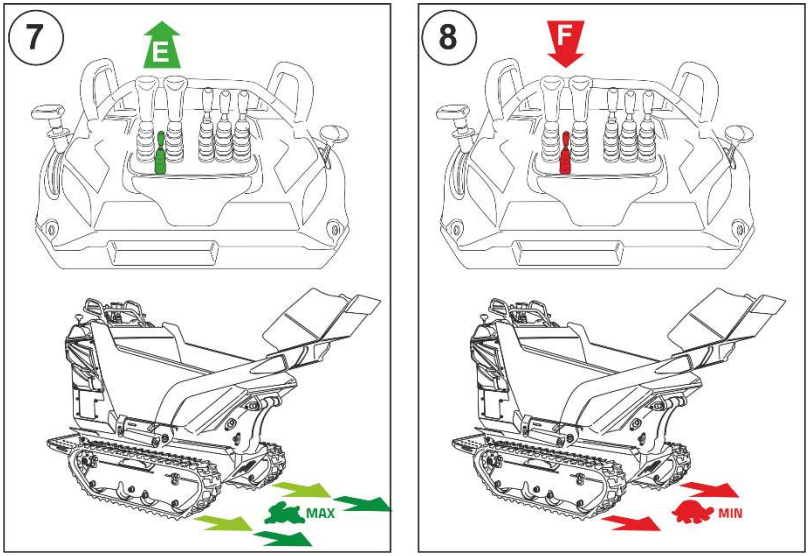
3.4 TURNING LEFT (Move Right Track)



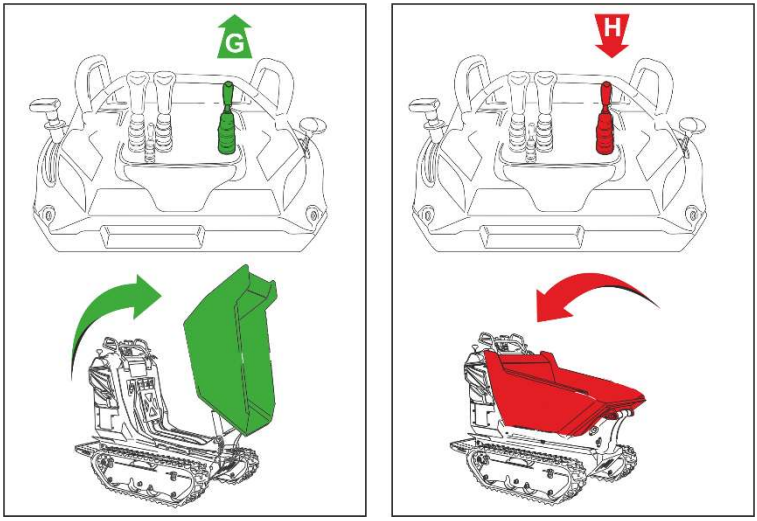
3.5 MOVING THE MACHINE FORWARD AND BACKWARD



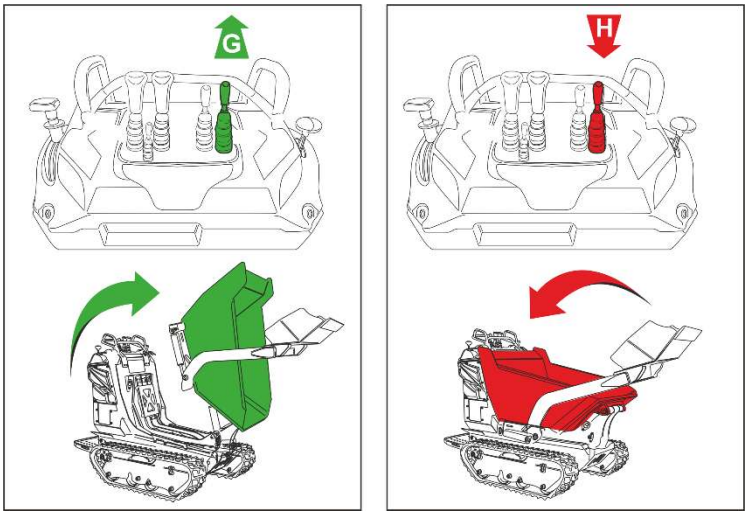
3.6 DOUBLE SPEED (All Versions)



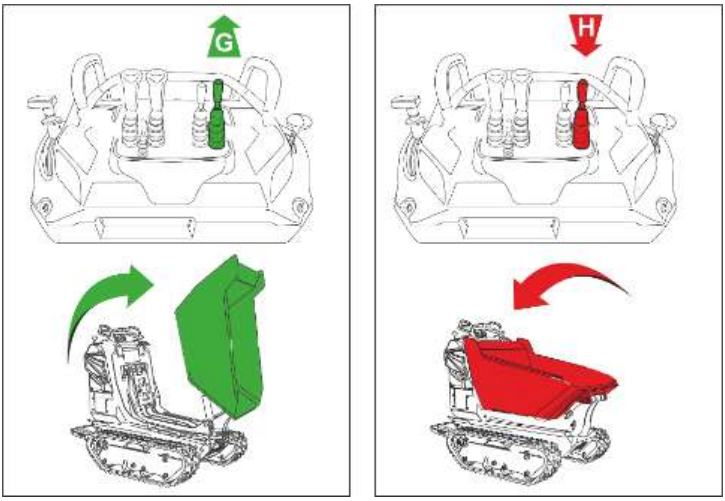
3.7 DUMP BED LEVER (RI-RIA Versions)



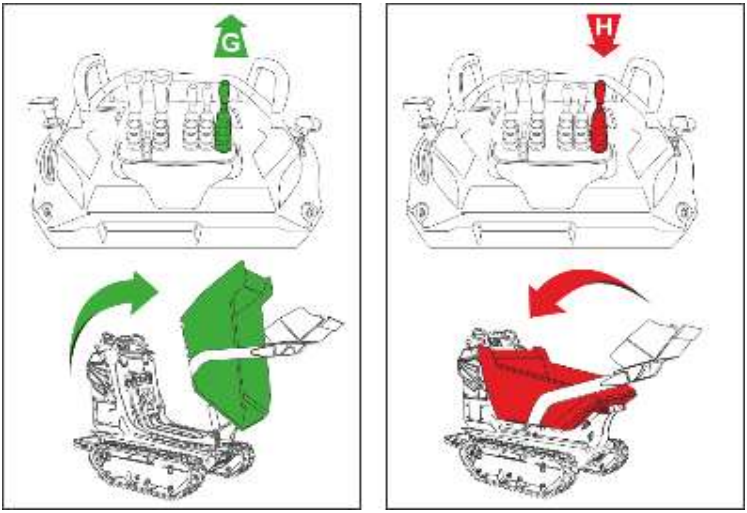
3.8 DUMP BED LEVER (AC Versions)



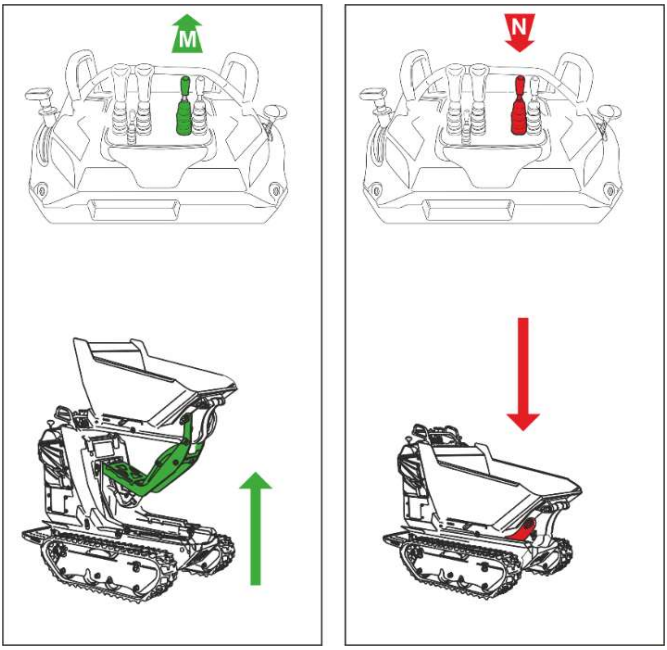
3.9 DUMP BED LEVER (HI Versions)



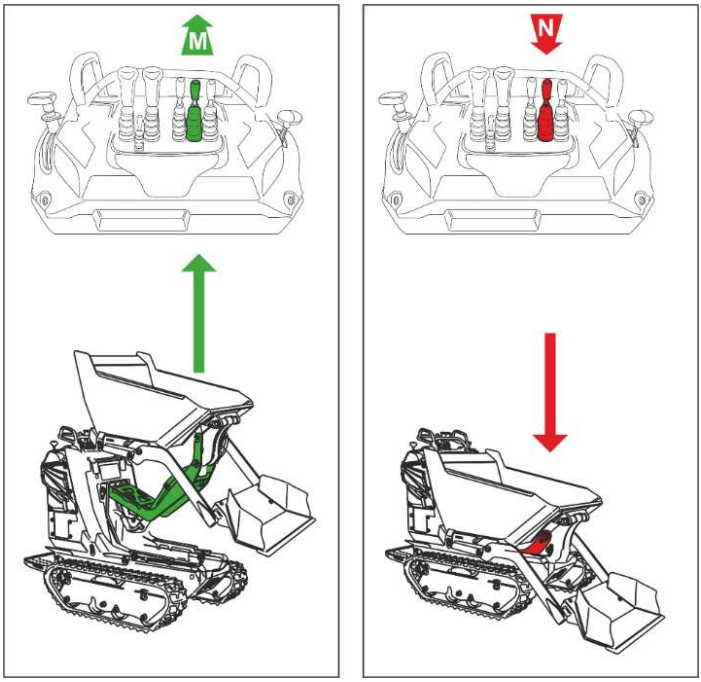
3.10 DUMP BED LEVER (HIAC Versions)



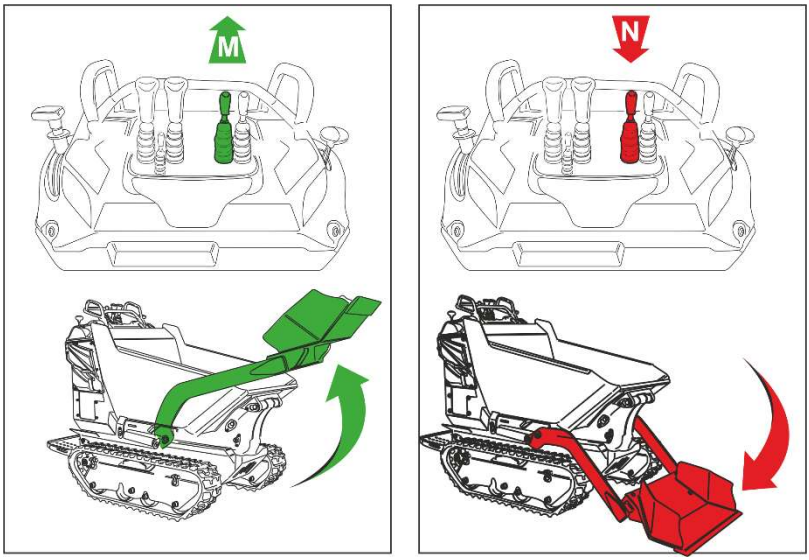
3.11 HIGH DUMP LEVER (HI VERSION)



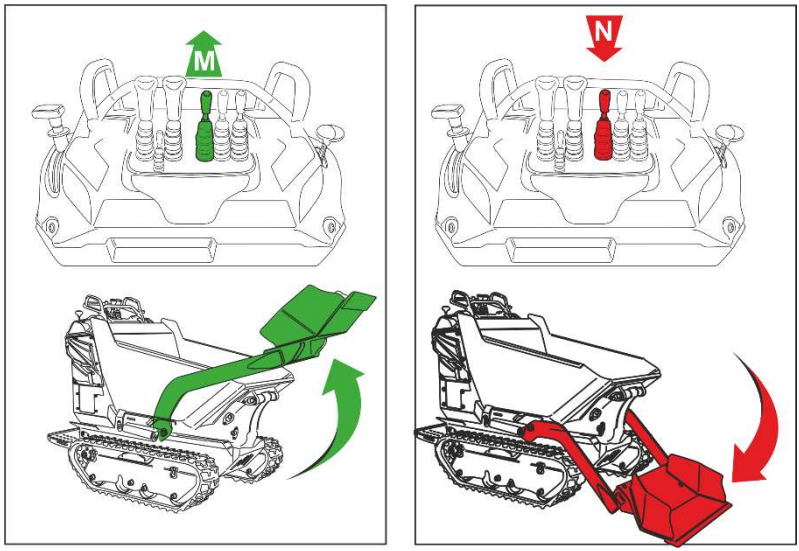
3.12 HIGH DUMP LEVER (HIAC VERSION)



3.13 SELF-LOADING LEVER (AC Version)



3.14 SELF-LOADING LEVER (HIAC Version)



3.15 HORN BUTTON AND BATTERY DISCONNECT LEVER

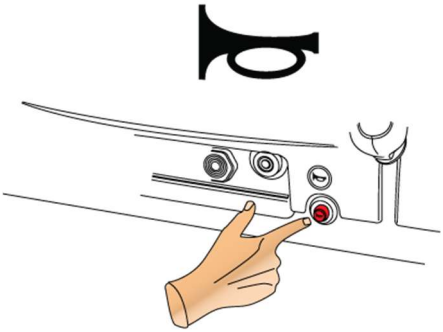


fig. 3.1 – Horn Button

The lever device located inside the dashboard (see adjacent figure), accessible by opening the hood, controls the disconnection of the battery from the machine's electrical circuit.

Use the battery disconnect switch to cut off power from the machine's electrical system. In particular, for extended periods of inactivity, the lever can be removed to prevent the battery from discharging.

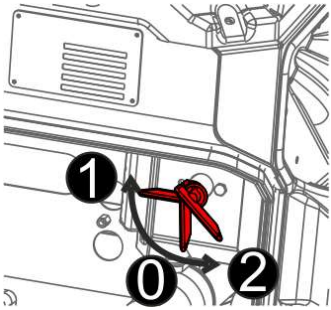


fig. 3.2 – Battery Disconnect Switch

0. STABLE POSITION – Battery Disconnected

1. STABLE POSITION – Battery Connected

2. STABLE POSITION – Battery Disconnected, the lever can be removed

3.16 FUEL IGNITION PANEL

The ignition panel is located on the rear side of the dashboard. To operate the panel, the designated key provided with the machine is required.

0. STABLE POSITION – Off.

1. STABLE POSITION – Run position.

2. UNSTABLE POSITION – Engine starting.

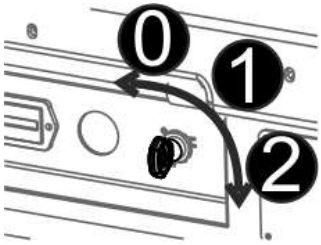


fig. 3.3 – Petrol Ignition Switch Panel

4 OPERATING INSTRUCTIONS

4.1 FIRST USE

READ CAREFULLY: before using the machine, thoroughly read all the instructions in this manual as well as the operation and maintenance manual of the engine installed on your machine, which must always be kept with it.

The operation and maintenance manual, along with the engine manual, must always be easily accessible and stored in the designated cylindrical document holder located in the engine compartment of the machine (see fig. 4.1).

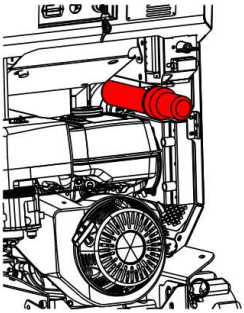


fig. 4.1 - Document Holder

The machine is normally delivered fully assembled and ready for use, with the fuel tank empty.

Refuel the machine, open the fuel valve, and carry out the starting procedure.

4.2 BREAK-IN PERIOD

The technology used in the construction of your machine does not require a break-in period. However, during the initial period of use, certain precautions must be observed:

- ☞ During the first 50 hours, avoid operating the engine above 70% of its total load capacity.

Carefully read the operating and maintenance manual of the engine installed on your machine and follow the prescribed break-in instructions.

- ☞ After the first 20 hours of operation, check the hydraulic oil level in the tanks.
- ☞ During the initial period of use, the tracks undergo settling; therefore, after the first 50 hours of operation, it is necessary to adjust the track tension.

4.3 ENGINE START-UP

Whenever you are about to start the engine, always carefully follow the instructions below:
• Always start the engine outdoors and make sure there are no people nearby the machine or any obstacles.
• Check that there is fuel in the tank and add fuel if necessary.
• Always engage the parking brake..

WARNING: Always engage the parking brake before starting the engine to prevent any unintended movement of the machine that could endanger the operator's safety.

- Follow the specific starting procedure provided by the engine manufacturer as outlined in the attached instructions.
- The gasoline machine is equipped with a remote air control on the console (see fig. 4.2)
  - To start the engine cold: push the air control lever forward. After starting, gradually pull the lever backward as the engine warms up.
  - To restart the engine when warm, leave the air control lever in the backward (closed) position.

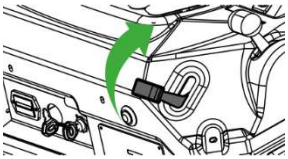


fig.4.2 – Air Command

4.4 FUELING

DANGER: Always refuel with the engine turned off! Do not smoke while refueling or handling fuel to avoid the risk of fire or explosion!!

Refueling and/or fuel transfer must always be carried out outdoors, away from open flames or heat sources.
Always ensure that the type of fuel used is the one specified for your machine's engine.

DANGER: Position the machine on a horizontal, solid, and stable surface.

For the C8X-800 petrol version:

- Open the engine cover
- Unscrew the fuel tank cap
- Insert the appropriate funnel and slowly pour in the petrol
- Screw the cap back on.

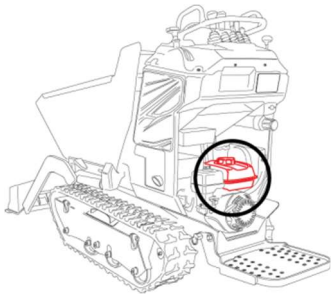


fig.4.3 – Fuel Cap

DANGER – Immediately wipe up any fuel spillage.

WARNING – Do not refuel when the machine is hot. Wait 2 hours after engine shutdown before refueling.

WARNING – Do not start the engine until you have ensured that there are no traces of accidentally spilled fuel.

WARNING – Fuel must always be stored in compliance with specific regulations, in suitable locations, away from heat sources, and in appropriate, clean, and tightly sealed containers!

OBLIGATION: Avoid dispersing fuels and/or containers into the environment; disposal must be carried out in compliance with environmental regulations and current legislation.

4.5 MACHINE OPERATION

DANGER: Always avoid overloading the machine beyond the specified limits: during maneuvers, overloading may cause unexpected shifts in balance and lead to tipping, resulting in serious injury risks to personnel..

WARNING: Whenever possible, avoid driving on rocky, gravelly terrain, rails, and logs, as these can damage the tracks and reduce their lifespan. Additionally, avoid passing over materials that may harm the tracks, such as sharp objects, iron rods, etc., which could get lodged in the tracks and cause breakage.

At startup, adjust the engine speed to the desired level by operating the throttle lever according to the required power (when the machine is loaded, it will be necessary to move the lever beyond the midpoint of the travel between minimum and maximum).

Under certain conditions, especially when the machine is loaded or on an incline, a

loss of engine torque may occur due to engine overload, which can also cause the engine to stall. In this case, slowly release the control levers, adjusting the speed to a level that no longer causes engine overload.

Since the machine is equipped with a hydrostatic transmission, it is not necessary to operate the engine at maximum speed for movement. Running the engine at maximum RPM does not improve machine performance but certainly increases (and unnecessarily) fuel consumption. Therefore, it is recommended to increase the engine speed only when strictly necessary (e.g., to achieve maximum speed or to tackle steep inclines at full load).

4.5.1 Forward Drive

To enable the machine to move forward, simultaneously push both control levers forward.
Avoid descending slopes while driving forward; refer instead to the paragraph: “Driving on Slopes.””.

4.5.2 Reverse Drive

To enable the machine to reverse, simultaneously pull both control levers backward.
Avoid ascending slopes while reversing, especially when the machine is loaded; instead, follow the procedure described in the paragraph “Driving on Slopes.”

DANGER: When reversing, always ensure there are no obstacles and/or people nearby. Absolutely avoid operating on slopes steeper than those specified to prevent the risk of overturning, which could result in serious injury to the operator.

4.5.3 Turning While Driving

To enable the machine to turn, release the lever on the side toward which you intend to turn:

- To turn right, release the right control lever;
- To turn left, release the left control lever.

The steering is achieved by slowing down the speed of one track relative to the other. Consequently, the speed and degree of the turn are proportional to the intensity of the release and the pressure applied to each lever.

4.5.4 Counterrotation

WARNING: Avoid performing counterrotation, especially when the machine is loaded.

It is also possible to rotate the machine on its own axis; however, performing counterrotation is discouraged to avoid damaging the tracks and undercarriage. As an alternative, without rotating around its own axis, the turning radius should be extended by allowing the tracks to slide more gently on the ground, avoiding reversing with counterrotation.

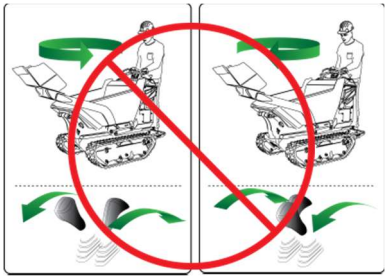


fig. 4.4.a – Counterclockwise Rotation

fig. 4.4.b – Clockwise Counter-Rotation

- Clockwise counterrotation (in the direction of the clock hands).
- Counterclockwise counterrotation (in the opposite direction of the clock hands).

4.5.5 Permissible Safety Slopes

With standard (STD) load during normal operation

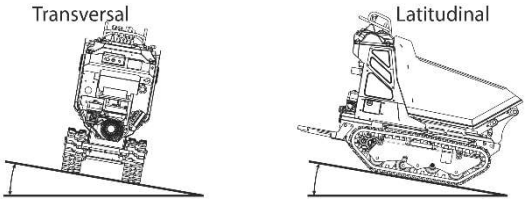


fig. 4.5 – Inclines

Table 1 – Maximum Allowable Slopes with Standard Load		
Machine	**Honda Engine**	
	Longitudinal	Transversal
C8X-800 RI	15°	19°
C8X-800 AC	14°	19°
C8X-800 RIA	13°	20°
C8X-800 HI*	16°	19°
C8X-800 HIAC*	15°	19°

* The values indicated in Table 1 refer ONLY and EXCLUSIVELY to the LOW DISCHARGE condition (see Fig. 4.8 a). For the HIGH DISCHARGE condition (see Fig. 4.8 b), strictly follow the instructions provided in §4.7 and Table 2.

With reduced load and high discharge.

Table 2 – Allowable Slopes for Hi-Tip Discharge					
Machine	**USE**		**LOAD**	**Honda Engine**	
				Longitudinal	**Transversal**
C8X-800 HI	HI TIP	On Flat Surface (0°)	60%	0°	0°
		On an incline	0%	**NOT ALLOWED**	
C8X-800 HAC	HI TIP	On Flat Surface (0°)	60%	0°	0°
		On an incline	0%	**NOT ALLOWED**	

CAUTION:
Table 1 shows the maximum transverse and longitudinal slope values of the terrain on which safe operation is possible. These limits must never be exceeded to avoid the risk of machine rollover and possible damage to the internal combustion engine.

Additionally, it is essential to ensure that the ground is firm and stable, especially on slopes. Operating on unstable or loose terrain increases the risk of accidents and compromises operational safety.

DANGER: When reversing, always check that there are no obstacles and/or people nearby.

4.5.6 Driving on Slopes

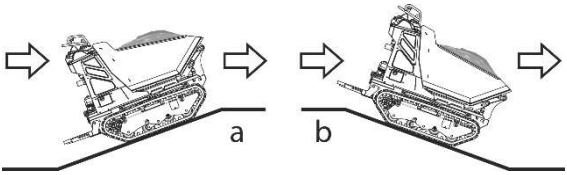


fig. 4.6 – a) uphill driving; b) downhill driving

DANGER:

It is absolutely essential to avoid operating on terrain with transverse and longitudinal slopes exceeding the values specified in Table 1. Exceeding these limits may cause the machine to overturn, posing serious risks to the operator's safety.

1. Carefully consult the user and maintenance manual to understand:

- The maximum allowable slopes.
- The correct procedures for reducing the load according to the machine and operating conditions.

Adhering to the instructions and specified limits is indispensable to prevent accidents and ensure the safe operation of the machine.

4.6 LOAD TRANSPORT

PROHIBITION: It is strictly forbidden to exceed the load capacity limits specified in the technical data table.

4.6.1 Construction Skip (Dumper)

The standard machine is equipped with a “dumper” type skip for transporting solid inert materials, primarily intended for use in construction work.

4.6.2 Agricultural-Type Skip

AUpon request, your machine can be equipped, in place of the “dumper” type skip, with a material transport skip featuring foldable sides, suitable for agricultural transport.

Opening the sides allows you to widen the loading surface to carry bulky objects. To extend the loading platform, operate one side at a time as follows (see Fig. 4.7):

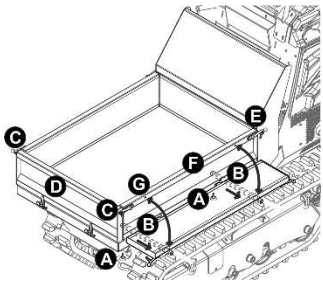


fig. 4.7 – Agricultural Skip

- Open the two front “C” hooks, lower the front side “D” and remove it;
- Loosen the two handwheels “A” located beneath the loading platform;
- Remove the two supports “B” from their housing;
- Open the rear hook “E” and lower the side panel “F,” aligning the support pins with holes “G”;
- Repeat the operation on the other side;
- Ensure that the sides are securely locked and arrange the load so it cannot fall—if possible, secure it with ties.

4.7 MATERIAL UNLOADING

4.7.1 Tipping of the Skip

WARNING – Before unloading, ensure that the ground is level, firm, and compact. Perform the tipping operation slowly and smoothly. Do not move the machine forward during the tipping process.

Your machine is equipped with a hydraulic tipping device for unloading the material.

To perform the tipping operation:

- Position the machine on a level, firm, and compact surface or ground;
- If the machine is fitted with an agricultural-type skip, remove the front side panel;
- Push the lever forward to initiate tipping and unload the material;
- Pull the lever back until the skip returns to the travel position, then release the lever.

CAUTION: During unloading, if the skip strikes an obstacle, avoid moving the machine forward, as this may damage the skip mounting points.

PROHIBITION: It is strictly forbidden to operate the machine unless the skip is in the resting position.

4.7.2 Use of the Self-Loading Arm

WARNING – Before using the arm, ensure that the ground is level, firm, and compact. Perform the operation slowly and smoothly.

CAUTION: While driving, the self-loading device must remain raised off the ground to avoid contact with the terrain and positioned so as not to obstruct visibility.

Your machine is equipped with a hydraulic device that allows the use of the bucket to load material into the machine's skip.

To perform the self-loading operation (see Fig. 4.8):

- Position the machine on a level, firm, and compact surface;
- Push the lever forward to lower the bucket and move forward until the bucket is full;
- Pull the lever backward to raise the arm to its upper limit— the material will slide out of the bucket and fall into the skip;
- Repeat the operation as needed to fill the skip.

CAUTION: When using the arm, ensure it does not accidentally collide with surrounding objects. Check that the arm's range of motion is clear of any obstacles.

4.7.3 Skip Lifting ("HI and HAC")

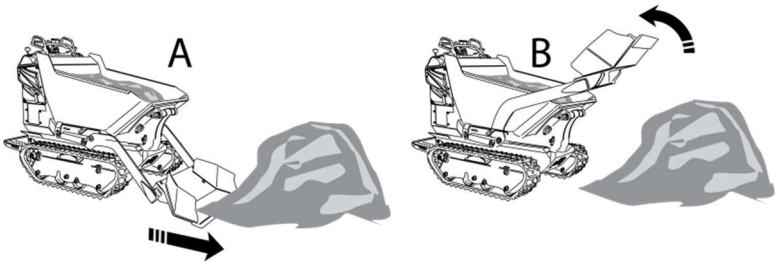


fig.4.8 - Operation of the Self-Loading Arm

Upon request, the machine can be equipped with a hydraulic device for lifting the skip during unloading, allowing discharge into containers or bins with high edges. This system is referred to as "Hi-Tip" (see Fig. 4.9.b).

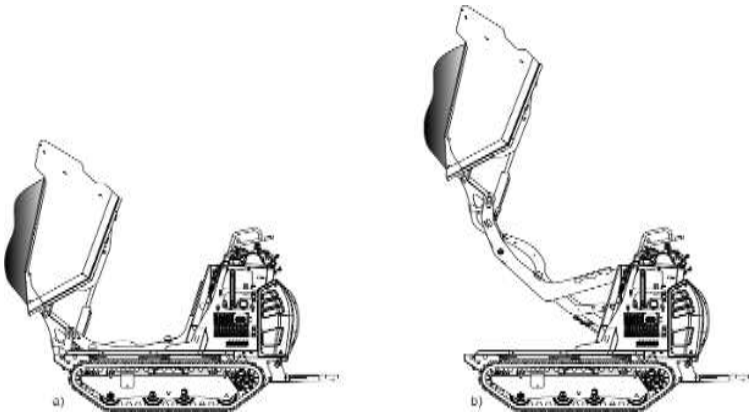


fig.4.9 a) Low Discharge – b) High Discharge

The system is equipped with a safety valve that prevents accidental lowering of the

assembly, even in the event of hydraulic hose failure. To unload the material under normal conditions, operate the skip tipping lever (as described in the previous paragraph). To perform the unloading operation, proceed as follows:

UNLOADING (HI)

Standard Discharge (see Fig. 4.9a):

If the machine is on a slope (strictly adhere to the limit values specified in Table 1, §4.5.5):

1. Stop the machine on a firm and compact surface or ground;

2. Push the skip tipping lever forward to allow the material to be discharged.

HI-TIP (vedi b fig.4.9):

1. **Reduce the load to 60% of the maximum capacity.**
2. Stop the machine on a level, horizontal, firm, and compact surface.
3. **WITH THE MACHINE STOPPED**, raise the skip to the desired height by pushing the lifting lever forward (❷ - see fig.4.10).
4. Push the skip tipping lever forward to discharge the material..

IT IS STRICTLY FORBIDDEN to reverse or move forward on LEVEL GROUND or ON SLOPES while in the high discharge position..

HIGH DISCHARGE IS STRICTLY PROHIBITED when the machine is on a slope.

DANGER: Under no circumstances operate the lifting lever while the machine is in motion, as this may cause the machine to overturn

DANGER: Never raise the skip without first stopping the machine on a level, firm, and compact surface.

UNLOADING (HAC):

Standard Discharge (see a fig.4.9):

1. If the machine is on a slope (strictly adhere to the limit values specified in Table 1, §4.5.5).
2. Stop the machine on a firm and compact surface or ground.
3. Pull the self-loading device lever backward to its full stroke to raise the bucket (2 – see Fig. 4.10).
4. Push the skip tipping lever forward to discharge the material.

HI TIP (see b fig.4.9):

1. Reduce the load to 60% of the maximum capacity.
2. Stop the machine on a level, horizontal, firm, and compact surface.
3. Pull the self-loading device lever backward to its full stroke to raise the bucket (2 – see Fig. 4.10).
4. Raise the skip to the desired height by pushing the lifting lever forward (3 – see Fig. 4.10).
5. Push the skip tipping lever forward to discharge the material.

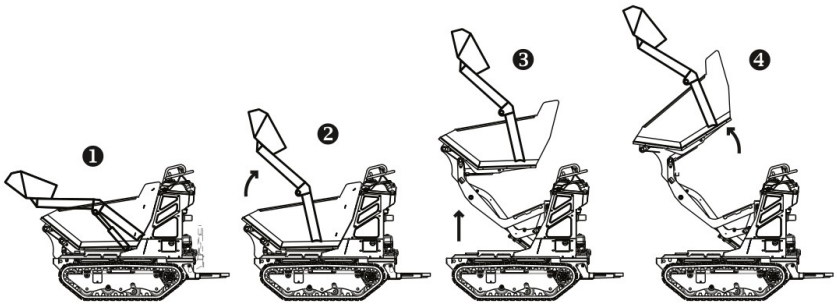


fig. 4.10 – Position for High Discharge (HAC)

To return the skip to the driving position, proceed as follows:

- First, pull back the tipping lever to bring the skip to a horizontal

position;

- Release the skip control lever;
- Pull back the skip lifting lever until the skip reaches the driving position;
- Release the lifting lever.

DANGER: Under no circumstances operate the lifting lever while the machine is in motion, as this may cause the machine to overturn..

IT IS STRICTLY FORBIDDEN to reverse or drive forward on LEVEL GROUND or ON SLOPES while in the high discharge position.

HIGH DISCHARGE IS STRICTLY PROHIBITED when the machine is on a slope.

DANGER: Never raise the skip without first stopping the machine on a level, firm, and compact surface.

4.8 INCLINOMETER

4.8.1 Operating Instructions

IMPORTANT **INFORMATION:**

The inclinometer measures the machine's lateral and longitudinal tilt and is an essential tool to ensure safety and efficiency when working on uneven terrain. To obtain accurate and reliable readings, it is crucial to follow these instructions:

HOW TO USE CORRECTLY

1. Machine Conditions
   - Measurements must be taken with the machine stationary and the engine off, or with the engine idling if the machine is without a battery.
   - his precaution prevents interference caused by engine vibrations or unwanted movements that could compromise reading accuracy.

2. Measurement Procedure
   - Before starting work, measure the slope at various points of the terrain where the machine will operate.
   - The obtained values must be compared with the parameters listed in Table 1, paragraph 4.5.5 of the user manual and on the sticker located on the machine.

- Ensure that the slope measurements fall within the established safety limits.

USE WHILE IN MOTION

The inclinometer can also be used while the machine is moving, but only as an approximate indication.

- In this mode, readings may be affected by sudden tilt spikes and vibrations, compromising reliability.
- Use during movement is strongly discouraged for precise measurements, as the data may be inaccurate

By carefully following these instructions, correct use of the inclinometer is ensured, enhancing operator safety and the effectiveness of work operations.

It is essential that the operator uses good judgment and strictly adheres to the specified operating limits:

- In Table 1, paragraph 4.5.5 of the manual.
- On the safety labels applied to the machine.

DANGER: Compliance with the longitudinal and transverse slope limits is mandatory. Failure to adhere to these limits entails direct operator responsibility and may cause serious risks, including:

- Tipping or overturning of the machine.
- Damage to persons, property, or the machine itself.

Fig. 4.11 - Inclinometer

When operating on slopes, especially with a loaded machine, the following specific driving technique must be observed:

☞ Always ascend and descend slopes moving forward;

The machine is equipped with an automatic anti-cavitation speed control system.

DANGER: It is prohibited to operate the machine downhill on uneven terrain. Use the machine only on solid, stone-free ground.

4.8.2 Product Introduction

The Cormidi Inclitech is a precision inclinometer specifically designed for tracked dumpers. Equipped with an integrated multi-axis gyroscope, it accurately monitors pitch and roll angles in real-time, assisting operators in assessing working conditions more safely and effectively. The built-in slope alarm provides timely warnings when inclination angles exceed safety limits, significantly enhancing operational safety.

4.8.3 Main Functions

- **Display of the dumper track inclination angle:**
  Real-time measurement of the dumper track's pitch angle during operation, within a range of -40° to +40° from front to rear.
- **Display of the dumper track roll angle:**
  Real-time measurement of the dumper's roll angle during operation, within a range of -40° to +40° from left to right.
- **Mode Selection:**
  It is possible to select between standard mode and off-road mode

- **Voltage Display:**
  Real-time measurement of the output voltage of the dumper's battery and a digital hide function that allows users to conceal the angle display data on the screen when not needed, reducing distraction and improving focus during operation.
- **Adjustable Safety Alarm:**
  When the dumper's pitch or roll angle exceeds the preset alarm value, the device emits a safety alarm "beep."
- **Hidden Functions:**
  Allows users to hide the angle display data on the screen when not needed, reducing distraction and improving concentration during operation.
- **Five-Level Filter Adjustment:**
  Supports five sensitivity filter adjustment levels to help smooth angle fluctuations according to working conditions for more stable readings.

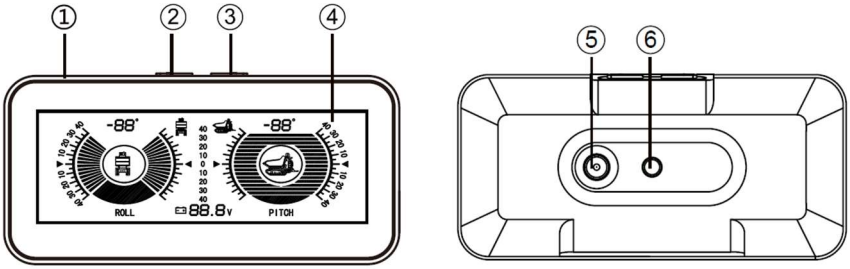
4.8.4 Main Features

- Fully automatic monitoring of the dumper's driving conditions.
- Manual brightness adjustment of the display.
- Free-rotation design with enhanced sensitivity.
- High-resolution LCD display.
- High-temperature resistant ABS material.
- Automatically powers on with the dumper and shuts off once parked.

4.8.5 Technical Specifications

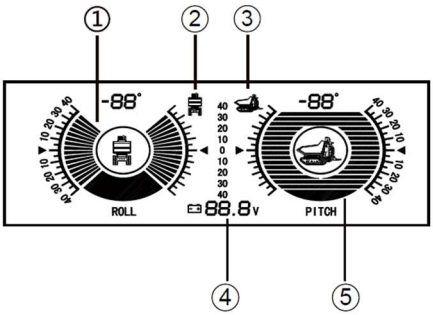
- **Power Supply**:
  DC 10V ~ 30V
- **Voltage Measurement Range:**
  DC 10V ~ 30V
- **Operating Temperature:**
  -40°C ~ +80°C
- **Voltage Measurement Accuracy:**
  0,5V
- **Pitch and Roll Angle Range:**
  -40° ~ +40°
- **Product Dimensions:**
  127x25x60 mm
- **Weight**:
  230g

4.8.6 Device Structure.



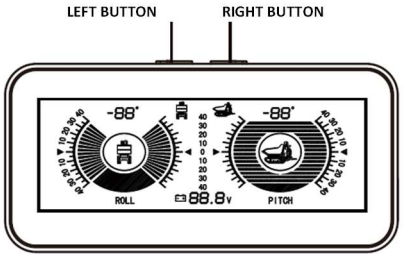
1. ABS Housing
2. Left Button
3. Right Button
4. HD LCD Display
5. DC 12V Power Supply
6. Mounting Bracket

4.8.7 DInterface Description

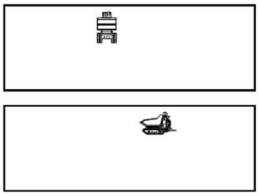


1. Roll Angle
2. Off-Road Mode
3. Standard Mode
4. Voltage
5. Pitch Angle

4.8.8 Function Settings



- **Mode Switching:**
  Press and hold the left button for 5 seconds to access the mode selection interface (Standard or Off-Road). Then press and hold again for 5 seconds to save the selected mode.



- **Slope Value Reset:**
  Briefly press the right button to reset both the roll and pitch angles to zero.
- **Brightness Adjustment:**
  Briefly press the right button to adjust the display brightness.
- **Filter Adjustment:**
  Press and hold the button for approximately 3 seconds to enter filter adjustment mode. Then, briefly press the button to select the desired filter level.
- **Hide/Show Data:**
  Press and hold the left button for about 7 seconds to enter the hide/show data mode. Then, briefly press the right button to toggle between hiding or displaying the angular data on the screen.

4.9 BATTERY

The battery of the C8X-800 is housed in a compartment on the right side of the dashboard. To access it, it is necessary to remove the plastic cover Ⓐ from the dashboard (see Fig. 4.12).

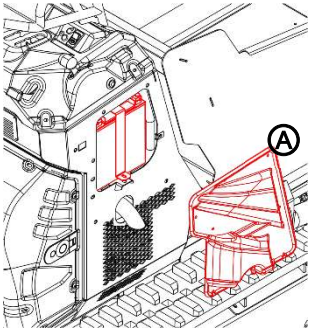


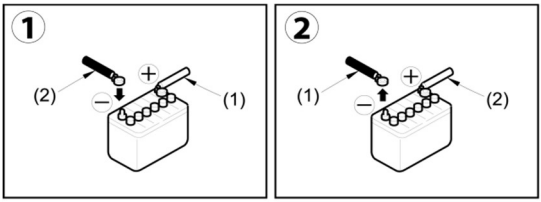
fig.4.12 – Battery Compartment

4.10 IF THE BATTERY IS DISCHARGED

4.10.1 Precautions for Connecting Jump Start Cables.

WARNING:

- When starting the engine with jump start cables, wear protective goggles.
- If starting the engine by drawing power from another vehicle, ensure that the two vehicles do not come into contact.
- When connecting the jump start cables, start with the positive terminal; when disconnecting, start with the negative terminal (ground).
- If a tool comes into contact with the vehicle's positive terminal, there is a risk of sparks.
- Do not reverse the polarity: never connect the negative terminal of one vehicle to the positive terminal of the other, and never connect the positive terminal of one vehicle to the negative terminal of the other.
- The capacity of the jump cables and the size of the clamps must be suitable for the battery size.
- Check that the cables and clamps are intact and free from any damage.
- The batteries of the vehicles must have the same capacity.



When connecting, always start with the positive terminal (1)

When disconnecting, always start with the negative terminal (1)

4.10.2 Cable Connection

1. Set the starter switches to OFF.
2. Connect the clamp of the red cable (A) to the positive terminal of the disabled vehicle.
3. Connect the other end of the red cable to the positive terminal of the assisting vehicle.

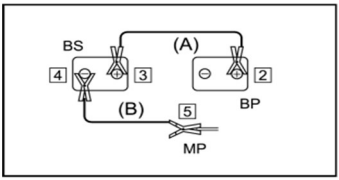
4. Connect the clamp of the negative cable to the negative terminal of the assisting vehicle.
5. Connect the other end of the black clamp to the engine block of the disabled vehicle.

4.10.3 Engine Starting

1. Ensure that all cables are securely connected to the battery terminals.
2. Start the engine of the assisting vehicle and bring the engine to maximum RPM.
3. On the disabled vehicle, turn the ignition key to START to start the engine. If the engine does not start, wait at least two minutes before trying again. Do not turn off the engine of the assisting vehicle; keep it running at full RPM.

4.10.4 Disconnecting the Jump Start Cables

After starting the engine of the disabled vehicle, disconnect the cables in the reverse order of the connection procedure.



BS – Backup Battery
BP – Battery Failure
MP – Machine Engine Fault

1. Remove the black cable clamp from the engine block of the disabled vehicle.
2. Remove the black cable clamp from the negative terminal of the battery on the assisting vehicle.
3. Remove the red cable clamp (A) from the battery terminal of the assisting vehicle.
4. Remove the red cable clamp (A) from the disabled vehicle.

4.10.5 Battery Charging

- Remove the cables from the negative and positive battery terminals before adjusting the battery. Otherwise, abnormal voltage may reach and damage the alternator.
- When charging the battery, disconnect all connections.
- If the battery overheats (electrolyte temperature exceeds 45°C), stop

the charging operation immediately.

- Stop charging as soon as the battery reaches the proper charge. Continuing to charge may cause the following issues:
- Battery overcharge
- Reduction of battery electrolyte
- Battery failure
- Never connect jump cables with reversed polarity. For example, do not connect the cable to the negative terminal on one vehicle and the positive terminal on the other. Both ends of the same cable must always be connected to the same type of terminal. Polarity reversal can damage the alternator.
- The battery should only be handled after the cables have been disconnected (except when checking the electrolyte).

4.11 FUSES

Fuse	Amperage	Function
1	15A	Ignition Panel
2	15A	Left Engine Compartment Fan Right Engine Compartment Fan Hydraulic Oil Radiator Fan Buzzer Hour Meter Horn
3	15A	Voltage Rectifier
4	15A	Inclinometer Utility Socket
5	-	
6	-	

5 MAINTENANCE

DANGER: Always perform all maintenance operations with the engine off and the ignition key removed.

Proper maintenance is essential and is the key to achieving low operating costs and extending the life of your machine, keeping it always in optimal condition. In addition to the regular maintenance of mechanical and hydraulic components, it is good practice to periodically wash the machine and perform a thorough cleaning to remove all mud residues. After each wash, it is necessary to lubricate all friction points, as specified in the "Lubrication" section."

5.1 MAINTENANCE INTERVALS

To maintain the highest level of efficiency, maintenance must be performed at regular and scheduled intervals. The following table summarizes the maintenance tasks to be carried out periodically.

5.1.1 Maintenance and Adjustment Table

Working Frequency	Description	Check	Greasing	Cleaning	Adjustment	Replacement
Every 8 hours	Machine			□		
	Steering levers			□		
	Control levers			□		
	Skip		□			
	Air Filter (1)(2)	□		□		
	"Hi-Tip" lifter		□			
	Hydraulic oil	□				
	Engine oil (1)	□				
Every 50 hours	Tracks				□	
At 50 hours	Engine oil (1° cambio)					□
Every 100 hours	Track rollers		□			
Every 150 hours	Parking brake				□	
Every year	Hydraulic oil					□
	Hydraulic oil filter (service)					□
	Hydraulic oil filter (drive)					□
	Dry air filter (1)(2)					□
	Engine oil (1)					□

(1) Check the attached engine manual.
(2) In dusty areas, increase frequency.

5.2 MOTOR

READ CAREFULLY the instructions and operating procedures of the engine provided in the specific attached manual.

The machine you have received may be originally equipped with different engines to meet specific requirements and/or markets. Proper maintenance is the best way to keep your machine's engine running at optimal efficiency and to help you maintain low operating costs. For engine maintenance, strictly follow the instructions in the attached manual provided with the machine.

REQUIREMENT: When changing the engine oil, always use a proper oil extractor to remove the used oil

REQUIREMENT: Always avoid releasing oil and filters into the environment, and dispose of them properly in compliance with environmental regulations

5.2.1 Checking the Gasoline Engine Oil Level

- Ensure the engine is in a horizontal position.
- Remove the oil dipstick "A" and clean it with a damp cloth.
- Fully reinsert the oil dipstick, but do not screw it in.
- Check that the dipstick is coated with oil up to the Max "B" mark.

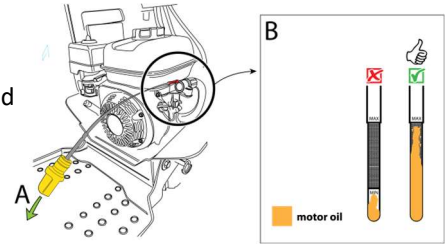


fig. 5.1 – Engine Oil Level

5.2.2 Adding Engine Oil

- Add the specified amount of oil to the engine (see Chap. 6 – Capacity Table).
- Wait one minute and check the oil level.
- Add more oil if necessary.
- Fully reinsert the oil filler cap/dipstick (1) and tighten by hand. Over-tightening the oil filler cap/dipstick may cause damage.

5.2.3 Air Filter (Gasoline Engine)

The C8X-800 machine with Honda engine is equipped with a special high-efficiency air filter (see Fig. 5.2).
The air filter requires periodic maintenance to ensure the proper functioning of the machine. It is easily accessible.
To clean it, perform the following simple steps:

- Unscrew the plastic screw 1
- Lift the plastic cover 2
- Remove the filter cartridge "3" from its housing and clean it thoroughly by blowing compressed air

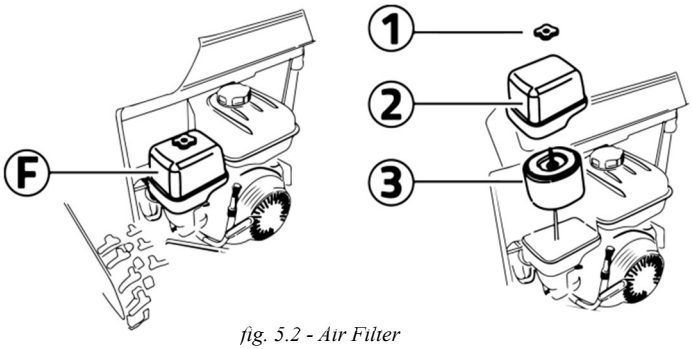


fig. 5.2 - Air Filter

5.3 HYDRAULIC CIRCUIT

MANDATORY: Avoid releasing oil into the environment and dispose of it in compliance with environmental regulations and applicable laws.

Check the Level

Before checking the correct hydraulic oil level, place the machine on a flat and solid surface.

The correct level is when, with the oil cold, it does not exceed the mark on the dipstick (approximately ¾ of the tank) and does not fall more than 1 cm below the mark (see fig. 5.3).

Hydraulic Oil Level Refill

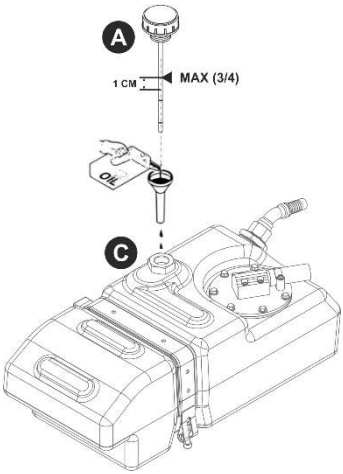


fig. 5.3 – Oil Level

- Unscrew the breather cap located on the tank;
- Restore the level by adding the specified oil through the opening;
- Screw the breather cap back on, making sure to reposition the gasket properly, and start the engine following the correct procedure; briefly operate the drive levers and control levers.
- Stop the engine and check again that the oil level on the dipstick is correct. If necessary, repeat the operation.

Replacement

To replace the hydraulic oil, use a suitable suction pump and a proper thermometer to check the temperature.

WARNING: Hydraulic oil can reach high temperatures. Before draining the tank, make sure the oil is not hot to avoid the risk of burns.

DANGER: Always perform the draining operation with the engine switched off and the skip secured with the appropriate locking bar.

First, drain the tank

- Unscrew the breather cap “A” on the tank (see fig. 5.3), and extract the oil using a suitable suction pump;
- Fill the tank through the opening “C” of the breather/filler cap until the upper line of the level indicator is reached;
- Screw the breather cap “A” back on and start the engine;
- Briefly operate the drive and control levers;
- Stop the engine and check that the oil level reaches the correct mark. If necessary, top up the oil;
- After 8 hours of operation, check the oil level again.

5.3.1 Hydraulic Oil Filters

Your machine is equipped with filters on the hydraulic oil circuit, located on the lower part of the frame, beneath the skip.
The filters, of the submerged type, are screwed directly into the hydraulic oil tank, which is easily accessible by lifting the machine's skip.

DANGER: Always replace the filters with the engine turned off and the skip secured with the appropriate locking bar.

MANDATORY: Dispose of the oil and filters in compliance with environmental regulations and current legislation.

To replace the filters, follow the instructions below, referring to fig. 5.4.

Replacement:

1. Drain the oil tank following the previously described procedure;
2. Unscrew the fastening screws of the filter flange “M” from the oil tank;
3. First, replace filter “H,” which is mounted from the outside of the tank and secured with a retaining nut inside the tank;
4. Unscrew the retaining nut “G”;
5. Replace filter “H” after inserting the retaining washer and O-ring “I”;
6. To change filter “E,” simply unscrew it from the filter flange “M”;
7. Screw in the new filter and reassemble the filter flange “M” on the tank;

Fill the tank and check the oil level as previously described (see oil table at the end of chapter 5).

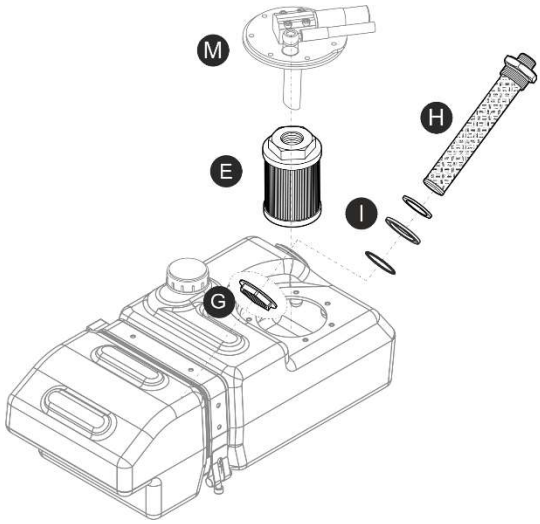


fig. 5.4 – Replacement of Oil and Filters

5.4 TRACKS

5.4.1 Check and Adjustment

The correct track tension is important to ensure their durability and your safety: to check it, apply a force of 5 kg on the track and verify that the deflection is approximately 15 mm.

To correctly adjust the track tension:

- Remove the cover “B” by unscrewing the two screws “A”;
- Adjust the tension using a wrench on the tensioner “C”;
- Check that the deflection is 15 mm near the front or rear midpoint relative to the central guide “S” of the track (see fig. 5.5);
- Reinstall the cover;
- Repeat the same steps for the other track.

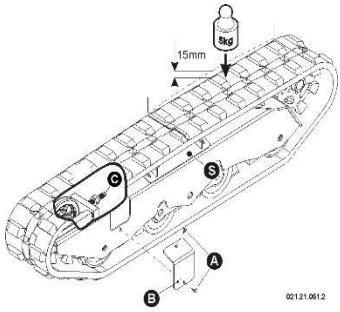


fig. 5.5 - Track Tension Adjustment

5.4.2 Replacement

To replace the tracks, proceed as follows:

- Lift the side of the machine where you want to work using hydraulic jacks or a crane;
- Place the machine on suitable stands, ensuring its stability;
- Remove the cover “B” by unscrewing the two screws “A”;
- Using a wrench, fully unscrew the tensioner “C” to completely loosen the track;
- Remove the track “E” starting from the front;
- Install the new track, aligning it with the teeth of the drive sprocket “F”;
- Engage the front part of the track on the idler wheel “G”;
- Adjust the tension by operating the tensioner “C”;

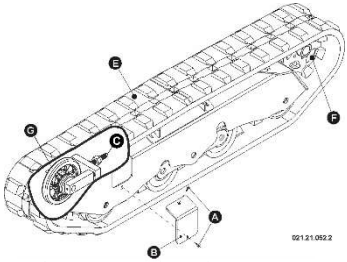


fig. 5.6 – Track Replacement

- Check that the deflection is 15 mm near the front or rear midpoint relative to the central guide "S" of the track (see fig. 5.5);
- Reinstall the cover.

DANGER: Never work with the machine lifted on jacks or suspended; always rest it on suitable stands capable of supporting the machine's weight before starting any work.

5.5 GREASING

5.5.1 Greasing Points

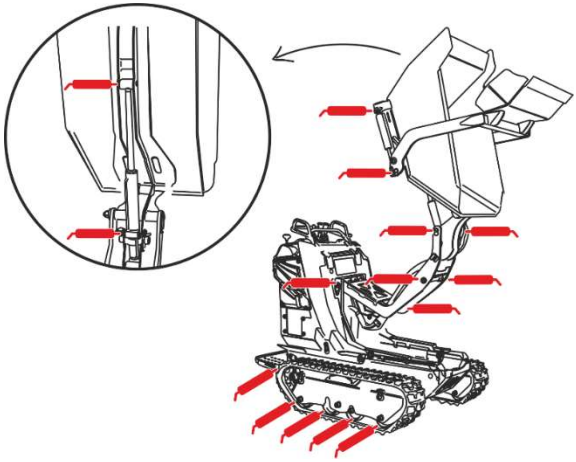


fig. 5.7 – Grease Points

Lubricate all designated greasing points using a suitable grease gun. Additionally, grease the drive levers using a spray-type grease can.

5.6 RECOMMENDED LUBRICANTS

Lubricant	Type	Quantità
Engine Oil	• **SAE 10W - 40W** • **API SN/CF** • **ACEA A3/B4**	**1,1 L**
Hydraulic Oil	• **HYD 32 HVI** • **DIN 51524-3 HVLP** • **ISO 11158 HV**	**18 L**
Grease	**MR Filante**	

DANGER: Before lubricating the machine, ensure the engine is turned off, the parking brake is engaged, and the machine is positioned on a flat, stable, and solid surface.

MANDATORY: Avoid releasing grease and oil into the environment and dispose of waste in compliance with environmental regulations and current laws. Do not pollute.

6 TECHNICAL DATA

6.1 DATA TABLE

	C8X-800
Engine	
Brand - Model	Honda GX 390
Fuel Type	Petrol
Number of Cylinders	1
Displacement (cm^3)	389 cm^3
Power	11.7 Hp@3600 rpm
Cooling	Air
Starting System	Elettrict
Emissions	Stage V - Epa Tier 4
Trasmission	
Pompa ad ingranaggi	n° 3 (47 lt/min 210 bar)
Motori Idraulici Heavy Duty	Heavy Duty for Tough Use
HYD System	
Gear Pump STD Flow	n° 1 x (17 l/min-130 bar)
Auxiliary Hydraulic Output	1 Opt
Undercarriage	
Track Width	180 mm
Track Type	Cormidi Long Life
Track Tensioning	Spring + Adjustment Screw
Rollers	Oscillating with Permanent Lubricatior
Equipment	
12 Volt Socket	Standard
Automatic Engine Compartment Temperature Control **"VCT System"**	Standard
Automatic Slope Speed Control **"CVD System"**	Standard
AUX Hydraulic Output	Optional
Double-Piston Parking Brake	Standard
Foldable and Shock-Absorbing Operator Footboard	Standard
Hour Meter	Standard
HYD Oil Radiator with Automatically Engaging Electric Fan	Standard
Inclitech Cockpit **(Inclination Monitoring System) Display LCD**	Standard
Machine Lifting Hooks **"Lifting and Transport Anchoring"**	Standard
Manual Hermetically Sealed Door	Standard
Safety Supports for Stabilizers	Standard
Special Acid-Proof Stickers	Standard
Special Long-Life Track Zero Vibration **"TVL System"**	Standard
Super-Silent Engine Hood	Standard
Temperature Alarm Buzzer	Standard
Warranty up to 3 years (see terms in the dedicated document)	Standard
Wheels and Rollers in Special Heat-Treated Alloy Casting	Standard
Performance	
Speed (2 Speed)	0 - 4,5 Km/h
Load Capacity	800 Kg
Maximum Climbable Gradient Forward (unloaded)	67%---(38°)
Maximum Allowable Side Slope (unloaded)	55%---(31°)
Ground Pressure (unloaded)	0,2 kg/cm^2
Maximum Climbable Gradient Forward (loaded)*	26%---(15°)
Maximum Allowable Side Slope (loaded)*	35%---(20°)
Ground Pressure (loaded)	0,47 kg/cm^2
Operating Weight RI	476 Kg
Operating Weight RIA	480 Kg
Operating Weight AC	547 Kg
Operating Weight HI	615 Kg
Operating Weight HAC	685 Kg

*To obtain the exact value of your machine, consult the user manual supplied and verify the exact match of the model. The values shown in this table, under load conditions, are reduced by 25% as an additional safety coefficient.

6.2 VIBRATION LEVEL

Hand-arm vibration level	**aw=**	**2,5m/s²**
Whole-body vibration level	**aw=**	**1m/s²**

6.3 GROUND PRESSURES

Ground pressure			
Machine	Version	Unladen ground pressure	Maximum loaded ground pressure*
		kg/cm²	kg/cm²
C8X -800	RI	0,173	0,488
	AC	0,196	0,511
	RIA	0,176	0,491
	HI	0,220	0,535
	HIAC	0,244	0,559
* Calculated based on maximum load capacity plus operator weight (85 kg)			

6.4 SOUND LEVEL TABLE

Trade Name	**Engine Model**	**Power (kW)**	**Revolutions (rpm)**	**Measured Sound Power (dB)**	**Guaranteed Sound Power (dB)**	**Allowed Sound Power Level (dB)**
C8X-800	HONDA GX390	8,2	3600	98	101	101

6.5 CAPACITY TABLE

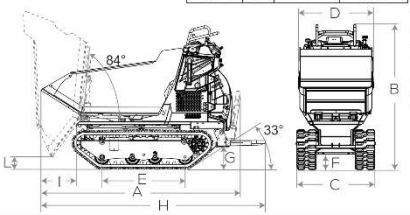
Model	**Version**	**Engine**	**Type**	**Capacity**
C8X-800	All	HONDA GX390	Fuel Tank Capacity	6,1 L
			Hydraulic System Capacity	18 L
			Maximum Engine Oil Capacity	1,1 L

6.6 DIMENSIONS

RI

	m³
Heaped capacity SAE	0.37
Heaped capacity CECE	0.34
Struck capacity	0.29
Water capacity	0.14

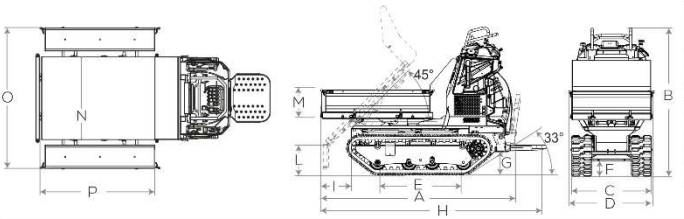
	mm	in
A	1872	73.7
B	1347	53.0
C	762	30.0
D	730	28.3
E	780	30.7
F	142	5.6
G	211	8.3
H	2105	82.9
I	332	13.1
L	117	4.6



RIA

	m³
Heaped capacity SAE	0.21
Heaped capacity CECE	0.18
Struck capacity	0.13

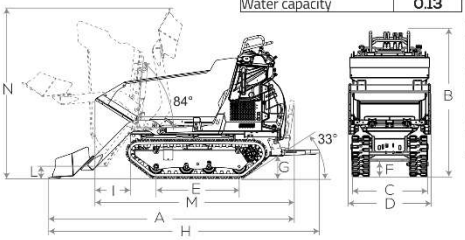
	mm	in
A	1751	68.9
B	1347	53.0
C	762	30.0
D	780	30.7
E	780	30.7
F	142	5.6
G	211	8.3
H	1995	78.5
I	280	11.0
L	315	12.4
M	261	10.3
N	716	28.2
O	1213	47.8
P	980	38.6

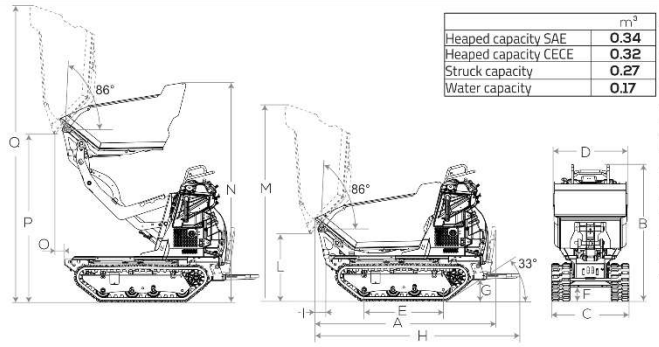


AC

	m³
Heaped capacity SAE	0.35
Heaped capacity CECE	0.32
Struck capacity	0.27
Water capacity	0.13

	mm	in
A	2308	90.9
B	1347	53.0
C	762	30.0
D	760	29.9
E	780	30.7
F	142	5.6
G	211	8.3
H	2541	100
I	332	13.1
L	117	4.6
M	1872	73.7
N	1602	63.1

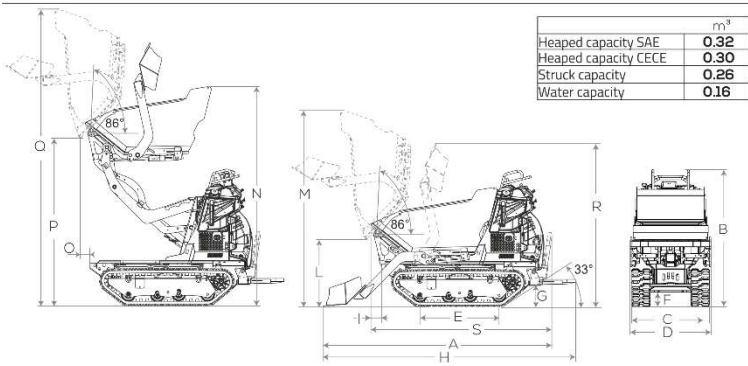




	m³
Heaped capacity SAE	0.34
Heaped capacity CECE	0.32
Struck capacity	0.27
Water capacity	0.17

HI

	mm	in
A	1781	70.1
B	1347	53.0
C	762	30.0
D	730	28.7
E	780	30.7
F	142	5.6
G	211	8.3
H	2015	79.3
I	104	4.1
L	665	26.2
M	1934	76.1
N	2159	85.0
O	94	3.7
P	1651	65.0
Q	2921	115.0



	m³
Heaped capacity SAE	0.32
Heaped capacity CECE	0.30
Struck capacity	0.26
Water capacity	0.16

HAC

	mm	in
A	2254	88.7
B	1347	53.0
C	762	30.0
D	760	29.9
E	780	30.7
F	142	5.6
G	211	8.3
H	2487	97.7
I	104	4.1
L	665	26.2
M	1934	76.1
N	2159	85.0
O	94	3.7
P	1651	65.0
Q	2921	115.0
R	1605	63.2
S	1781	70.1

7 MALFUNCTIONS AND FAILURES

7.1 Table of Malfunctions and Faults

MALFUNCTION	CAUSE	REMEDY
Hydraulic oil is leaking from the breather	Excessive oil level	Restore the correct level
	Oil overheating	Stop work and allow to cool down
	Hydraulic circuit	Have the machine inspected by a specialized workshop
Oil leakage	Excessive oil level	Restore the correct level
	Hydraulic circuit or seal failure	Have the machine inspected by a specialized workshop
The hydraulic controls are not responding correctly	Insufficient oil level	Restore the correct level
	Hydraulic circuit failure	Have the machine inspected by a specialized workshop
The dumper body moves slowly	Oil overheating	Stop work and allow to cool down
	Engine lacks power	Have the engine inspected by a specialized mechanical workshop
High oil temperature	Insufficient oil level	Restore the correct level
	Overheating	Stop work and allow to cool down
The parking brake does not release	Brake cable is broken	Have the cable replaced by a mechanical workshop
	Brake is stuck	Move the machine slightly forward and/or backward and try again
The machine does not move	Parking brake is engaged	Release the brake
	Lack of oil in hydraulic circuit	Restore the correct oil level
	Tracks are broken	Replace the tracks
	Hydraulic component failure	Have the machine inspected by a specialized workshop
Excessive track noise while moving	Incorrect track tension	Restore the correct tension
	Broken or worn tracks	Replace the tracks
	Bearing or roller failure	Have the machine repaired by a mechanical workshop
Excessive noise from the skip	Lack of grease	Grease
	Bearing failure	Have the machine repaired by a mechanical workshop
The accelerator does not respond	Throttle cable is broken	Have the cable replaced by a mechanical workshop
The engine is not operating properly or the noise level is excessive	Miscellaneous	Have the engine inspected by a specialized mechanical workshop
The engine does not develop power	Air filter is clogged	Replace the air filter
	Miscellaneous	Have the engine inspected by a specialized mechanical workshop
The engine does not start	Fuel is missing	Refuel the machine
	Starting procedure is incorrect	Follow the correct starting procedure
	Battery is discharged	Recharge or replace the battery

Table of Contents

CORMIDI S.R.L.
VIA FONTE 342
84069 - ROCCADASPIDE–SALERNO
TEL.: +39 0828.943688 - FAX: +39 0828.943963

DICHIARAZIONE CE DI CONFORMITA'
EC DECLARATION OF CONFORMITY

La presente dichiarazione di conformità è rilasciata sotto la responsabilità esclusiva del fabbricante che:

Dichiara la macchina oggetto della presente dichiarazione conforme alle direttive seguenti:

This Declaration of Conformity is issued under the sole responsibility of the manufacturer who:

Declares the machine subject to this declaration complies with the following directives:

1. **2006/42/CE "MACCHINE/MACHINERY"**
   - 1.1. NORME EUROPEE ARMONIZZATE NEL CUI RISPETTO LA CONFORMITÀ È DICHIARATA: / EUROPEAN HARMONISED STANDARDS UNDER WHICH CONFORMITY IS DECLARED: **EN 474-1:2022 X EN 474-3: 2022 X EN 474-6:2022 X EN ISO 13...**
   - 1.2. PRINCIPALI COMPONENTI DI SICUREZZA MONTATI E FORNITI CON LA MACCHINA / MAIN SAFETY COMPONENTS INSTALLED AND SUPPLIED WITH THE MACHINE — SI/YES ☐ — NO ☒
   - 1.2.1. VARIANTE PER LA MOVIMENTAZIONE DEI CARICHI SOSPESI / OBJECT HANDLING APPLICATION KIT (EN 474-5 PUNTI 4.1.7.3 – ...5) — SI/YES ☐ — NO ☒

2. **2000/14/CE "EMISSIONE ACUSTICA/NOISE EMISSION"** (D.LGS 262/2...)
   - 2.1. PROCEDURA DI VALUTAZIONE DELLA CONFORMITÀ SEGUITA / CONFORMITY ASSESSMENT PROCEDURE FOLLOWED: **ALLEGATO VI (ART. 6/1)**
   - 2.2. NOME ED INDIRIZZO DELL'ORGANISMO NOTIFICATO COINV... / NAME AND ADDRESS OF THE NOTIFIED BODY INVOLVED: **...ERICERT SRL – CERTIFICAZIONI E VERIFICHE ...GANISMO NOTIFICATO EUROPEO N. 1878 ...IA L. MASOTTI 5 – 48124 – FORNACE ZARATTINI RAVENNA**
   - 2.3. LIVELLO DI POTENZA SONORA MISURATO LWA / MEASURED SOUND POWER LEVEL LWA: **99 dB (A)**
   - 2.4. LIVELLO DI POTENZA SONORA GARANTITO LWA / GUARANTEED SOUND POWER LEVEL LWA: **101 dB (A)**
   - 2.5. POTENZA NETTA MOTORE INSTALLATA / ENGINE NET INSTALLED POWER: **8,2 kW**

3. **2014/30/UE "COMPATIBILITÀ ELETTROMAGNETICA/ELEC...AGNETIC COMPATIBILITY"**
   - 3.1. NORME EUROPEE ARMONIZZATE NE... OGETTO ...ORMITÀ È DICHIARATA / EUROPEAN HARMONISED STAND... UNDER WHICH CONFORMITY IS DECLARED: **EN ISO 14982:2009**

4. **ALTRE DIRETTIVE APPLICABILI / OTHER AP... DIRECT... 2011/65/CE_ROHS**

5. **FABBRICANTE/MANUFACTU...S.R.L. – VIA FONTE 342 – 84069 – ROCCADASPIDE – SALERNO**

6. **MACCHINA / MACH...** — **AUTORIBALTABILE A CINGOLO COMPATTA** / **MACCHINA ALL.1 NUM.18 (DIR. 2000/14/CE): MINI DUMPER CINGOLATO / CRAWLER**

7. **TIPO/TYPE:** C8X_H3_AC_C
8. **MATRICOLA N°/ SERIAL N°:** CRMC8XH3
9. **ANNO DI COSTRUZIONE / CONSTRUCTION YEAR:** 2025
10. **PERSONA AUTORIZZATA A COSTITUIRE IL FASCICOLO TECNICO / PERSON AUTHORISED TO COMPILE THE RELEVANT TECHNICAL DOCUMENTATION:** *LEGALE RAPPRESENTANTE* ARMANDO CORMIDI, VIA FONTE, 342 – 84069 ROCCADASPIDE (SA)

ROCCADASPIDE 07.07.2025 **DICHIARAZIONE N°** /25

CORMIDI C8X-800 SERIES

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