



# DUMPER

« DP-72 / DP-82 »

## USER MANUAL



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User Manual **1/30**

Original version

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## PRESENTATION OF THE MANUAL

### General information

The operator of this equipment must read this manual with care and attention before operating the machine.

This manual is intended for the owner and people likely to use and maintain the machine produced by Chargeur Plus. This manual was written to ensure the complete safety of the users of the equipment.

All manufacturing parts, connectors and controls were designed and built with maximum safety in mind, meaning they are particularly robust, even when they are not used in accordance with this manual.

The machine (in its assembled form) was tested before being delivered. Long-term performance depends on the correct usage and necessary preventive maintenance, in accordance with the instructions given in this manual.

For the usage, maintenance, restoration and technical safety checks of the dumper, the owner must ensure that the person using the equipment has the necessary skills to do so.

Only people capable of using the dumper independently, and those who have received the necessary information for operating this machine are authorized to operate it.

Original spare parts can be ordered directly from SAS Chargeur Plus or through one of their approved dealers. It is therefore necessary to specify the name of the model, the date the machine was put into circulation and a photo of the part if necessary. Any parts ordered from another dealer could compromise the safety of the machine.

### First use of the machine

Before using the machine for the first time, carry out a visual inspection of the dumper to make sure no external damage occurred during transport. Check all the parts supplied with the machine.

- Check the tension of the tracks
- Check the levels (oil and fuel)

See the maintenance chapter in order to carry out these checks correctly.

Running-in of the dumper:

For the first 50 hours of use, it is absolutely essential to follow these instructions:

- Warm up the dumper with medium engine power and rev the engine a little; do not warm up the engine at idling speed,
- Do not rev the engine unnecessarily.

Specific maintenance instructions:

- Change the engine oil before reaching 50 hours of usage (see the scheduled maintenance chart),
- Check the hydraulic oil to make sure there are not any visible impurities.

## CE CONFORMITY DECLARATION

With this CE declaration of conformity, the company CHARGEUR PLUS confirms that the dumper respects all regulations and standards applicable at the time of delivery. CE conformity marking is mentioned on the serial number plate; this confirms compliance with all applicable regulations and standards.

Any unauthorized modifications or any spare part added at a later date could have a negative impact on the stability of the dumper and as a consequence, the CE declaration of conformity is no longer valid.

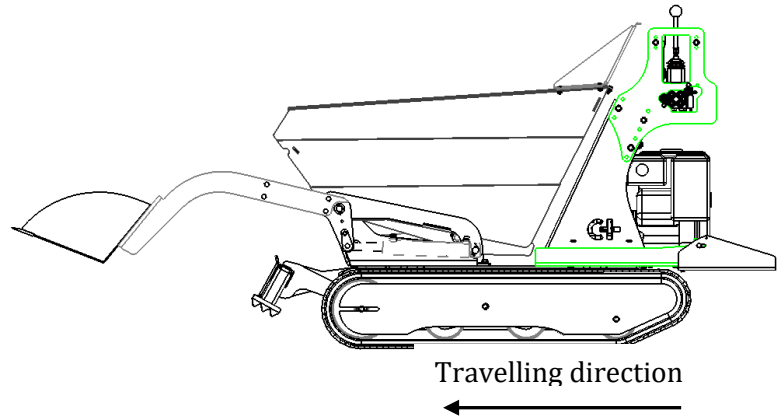
When the assembled dumper is delivered, the CE declaration of conformity is attached to the invoice. This CE declaration of conformity must be carefully retained and presented upon request, to the appropriate authorities.

<b>ORIGINAL</b>	
	
<b>DECLARATION CE DE CONFORMITE DES MACHINES</b>	
Nous déclarons sous notre responsabilité :	
Fabricant :	Responsable du dossier technique :
<b>SAS – Chargeur Plus</b> <b>3 rue Jacques de Vaucanson</b> <b>17180 Périgny</b> <b>Siret : 481 520 088 00024</b>	<b>Directeur technique</b>
Que le produit désigné ci-après en raison de sa conception et de son type ainsi du modèle mis en circulation par nos soins répond aux exigences fondamentales en matière de sécurité et santé définies par la directive CE concernée. Nous déclinons toute responsabilité en cas de montage non conforme aux notices de montages des machines fournies dans les versions : en kit (à souder, assembler et peindre) ainsi que la version soudée et peinte à assembler. Cette déclaration est invalidée par toute modification non approuvée par nos services.	
Produit : <b>Dumper</b>	
Modèle : DP-__-__ / DP-__-__	
N° de série :	
Année de construction :	
Masse en ordre de marche : __ __ Kg	
Directives CE applicables : <b>directive « Machines » 2006/42/CE</b>	
Conforme aux normes : <b>NF EN 474-1+A4, NF EN 474-5-A5</b>	
Respecte la directive comptabilité électromagnétique 2017/30/CEE.	
Les documents techniques de montage et d'utilisation ont été réalisés par le service habilité pour la documentation de la SAS – Chargeur Plus.	
Signature et qualité du signataire :	
Fait à :	
Le :	

## 1-TECHNICAL CHARACTERISTICS

### 1.1-Generalities

The information, instructions and data given in this operator's manual can be applied to all models. If instructions concern a specific model, this will be detailed.



The instructions “front” or “travelling direction” refer to the directions as seen by the operator on its footboard. The expression “forward motion” implies that the blade is at the front, in the same direction the machine is moving, as shown on the image.

### 1.2-Intended use and limitations

The dumpers described in this operator's manual are intended for loading operations, transport and unloading of earth, rocks and other materials. Wherever possible, the unloading of the dump should not be done during the translation of the dumper. The maximum authorized lifting capacity of the dump should never be exceeded.

A proper use of the machine also includes the following:

- Respecting all the instructions given in this manual,
- Carrying out all the required maintenance, at the scheduled times indicated,
- Respecting the scheduled compulsory tests, to prevent accidents.

#### Forbidden usage:

Any incorrect use of the dumper described in this manual, that is to say any difference in use compared to the information given in the next section of the operator's manual, is considered as forbidden. The same applies in the case of non-compliance with the standards and instructions given in this operator's manual.

Improper use can cause risks. Here are some examples of improper or abusive usage:

- Using the dumper as an elevator,
- Using the dumper in a contaminated environment,
- Using the dumper in enclosed areas without sufficient ventilation,
- Using the dumper in extreme temperatures (hot or cold),
- Using the dumper to work underground,
- Using the dumper to transport people in the dump or in the loading bucket,
- Using the dumper to bring down walls with the loading bucket,

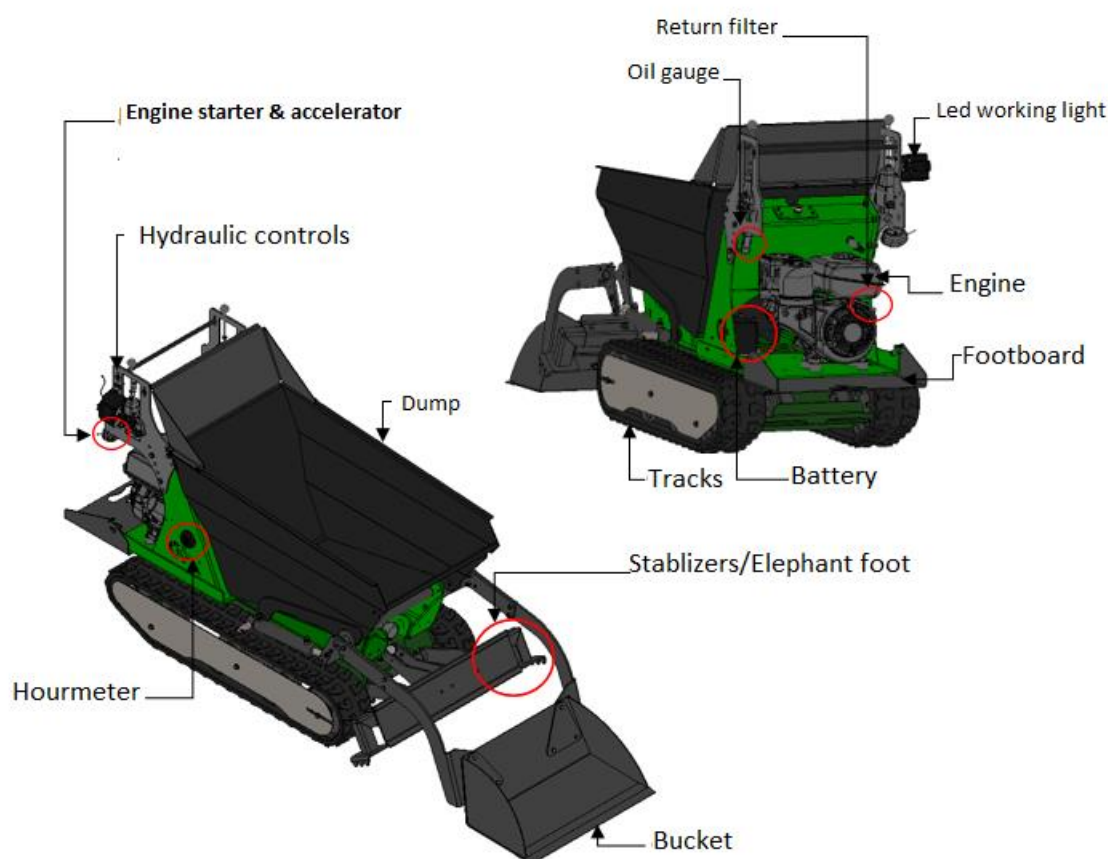
External operating conditions:

Operating temperature	Minimum	-10°
	Maximum	40°
Maximum humidity		90% at 40°
Maximum wind speed authorized		60 km/h
Maximum Temperature of hydraulic oil		60°

*\* Remember to order the cooler from Chargeur Plus, in the event of hydraulic or engine problems which could increase the temperature of the oil and could be dangerous\**

1.3-Description of the machines

See below the full description of a machine with all available options, depending on the model of your machine, some parts will come at an extra charge



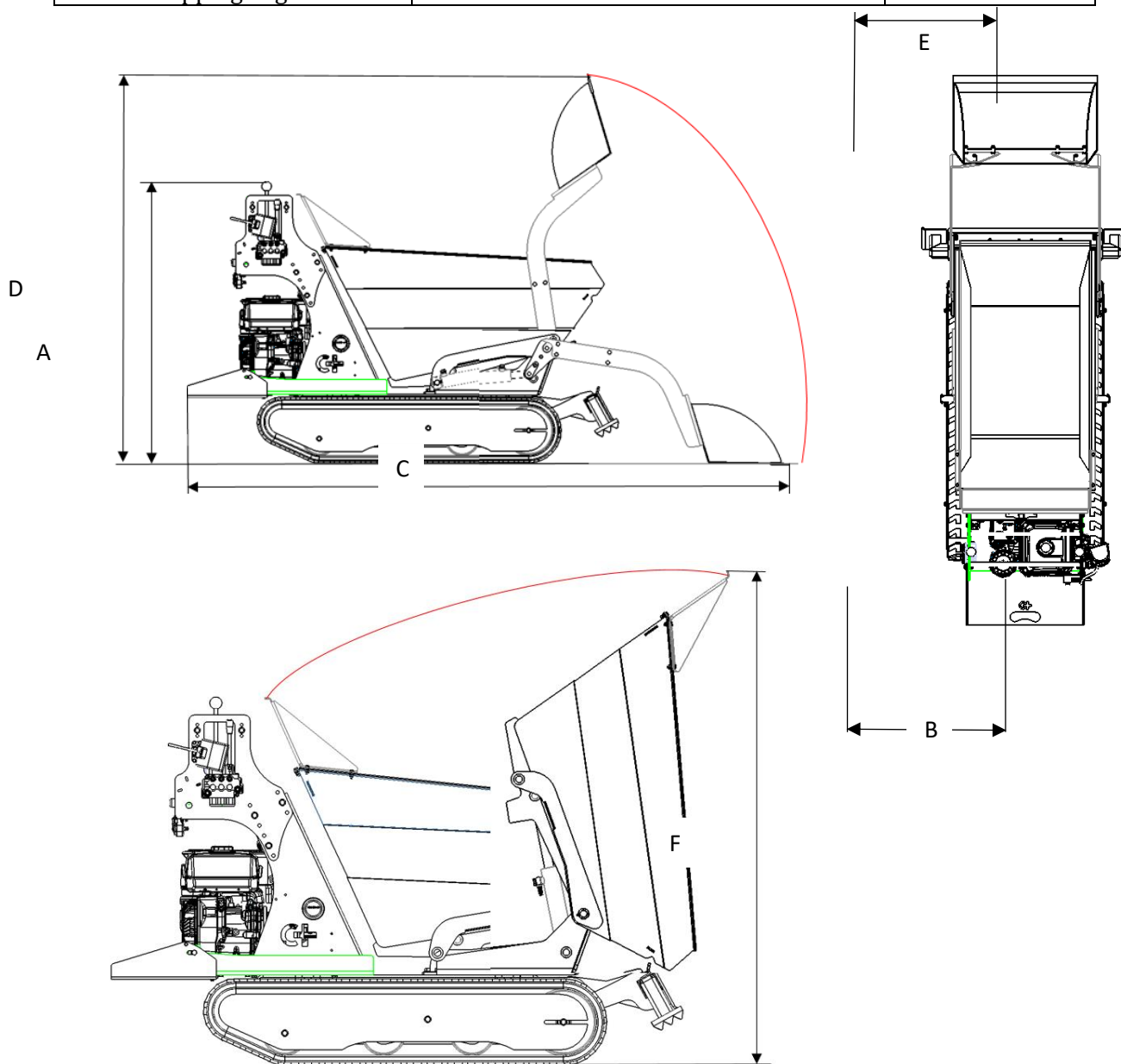
### 1.4-Dimensions and characteristics

Model :	<b>DP-72-S</b>	<b>DP-72-P</b>
Version :	2018	2018
Origin :	UE - France	UE - France
Empty Weight :	500 kg	550 kg
Fuel :	Petrol	
Engine power :	6.5 HP (4,4 kW)	9.5 HP (7 kW)
Type :	One cylinder, 4 strokes	
Engine Displacement :	196 cc	277 cc
Engine consumption (100% of engine speed)	1.9 L/h	
Fuel tank capacity :	3.7 L	7,4 L
Hydraulic pump :	3,2 cc Double gear pump	
Working pressure :	160 bar (2320 psi)	
Pump flow @ 3600 rpm :	2 x 11,5 L/mn	
Tractive motors :	OMR 200 cc	OMR 200 cc
Hydraulic tank capacity :	18 L	
Rubber tracks :	150x72x31	
Running speed :	2.8 km/h	2.8 km/h
Noise level @ 1m :	80 dB(A)	
Noise level from the driving station :	83 dB(A)	



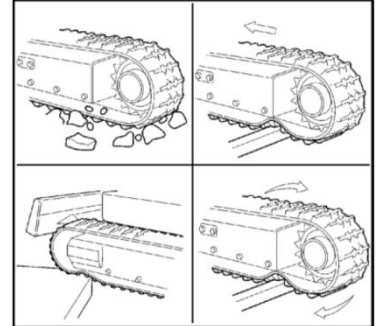
Model :	<b>DP-82-S</b>	<b>DP-82-P</b>
Version :	2018	2018
Origin :	UE - France	UE - France
Empty Weight :	650 kg	720 kg
Fuel :	Petrol	
Engine power :	9 HP (6,6 kW)	9.5 HP (7 kW)
Type :	One cylinder, 4 strokes	
Engine Displacement :	270 cc	277 cc
Engine consumption (100% of engine speed)	1.9 L/h	
Fuel tank capacity :	6 L	7,4 L
Hydraulic pump :	3.2 cc Double gear pump	
Working pressure :	160 bar (2320 psi)	
Pump flow @ 3600 rpm :	2 x 11,5 L/mn	
Tractive motors :	OMR 250 cc	OMR 250 cc
Hydraulic tank capacity :	18 L	
Rubber tracks :	180x72x43	
Running speed :	2,5 km/h	2,5 km/h
Noise level @ 1m :	80 dB(A)	
Noise level from the driving station:	83 dB(A)	

MODELS	DP-72	DP-82	Dimensions
Total height (Dump & bucket down))	1230 mm	1300 mm	A
Overall width	720 mm	820 mm	B
Overall length (Bucket down)	2640 mm	2880 mm	C
<b>Bucket :</b>			
Max height	1720 mm	1845 mm	D
Width	680 mm	750 mm	E
<b>Dump :</b>			
Max height	1570 mm	1835 mm	F
Tipping angle	70°		



Information regarding the rubber tracks:

- Travelling or turning 180° on objects with sharp edges or over-steps can cause extreme stress to the tracks and can break them or cut into the rubber surface of the tracks or the metallic casing.
- Make sure that no foreign objects become lodged in the rubber tracks. The foreign objects can damage the tracks and cause cracks; this could also bend the track tightening pin,
- Make sure the rubber tracks don't come into contact with oil.
- If fuel or oil has been spilled on the rubber tracks, make sure they are cleaned immediately.
- Avoid sharp turns on road surfaces with a high friction coefficient, for example on concrete pavements.
- Do not work with this machine in a place where it will be in contact with saltwater. (The salt corrodes the metallic parts casing).



## 2 SAFETY NOTICE

### 2.1-Foreword

#### 2.1.1-Responsibilities and tasks

**!/ IMPORTANT! !/**

**It is strictly forbidden to drive the machine on the road.**

For all machines mentioned in this manual, the safety regulations must be adhered to, as well as the instructions and rules regarding the usage of dumpers.

The user (entrepreneur) has the following duties:

- Make sure all current regional and national regulations are respected,
- Respect the legal regulations (laws, regulations, instructions, etc.) indicated in this operator's manual, to ensure the machine can be operated in complete safety,
- Make sure that this operator's manual is available to all operators and maintenance personnel concerned, and that the information, comments, warnings and safety instructions are fully respected,
- Make sure the safety instructions are respected,
- Take the necessary measures to prevent switching on or operating the dumper without prior authorization,
- Ensure the dumper is used in accordance with the location and is operated in compliance with the conditions of use given in this manual.

#### Dangers when using the dumper:

- The dumpers are built in accordance with current manufacturing techniques and in compliance with recognized safety instructions. However, using a dumper could constitute a health hazard or even death of an operator or third party, and risk damaging the machine itself or other assets and materials. It is only authorized to use the dumper for the work it is intended to do, and in compliance with the safety instructions  
*cf: Maintenance and machine verifications chart.*
- Repair immediately any faults which could affect the safety of the machine.  
*cf: Maintenance and machine verifications chart.*

#### Information about modifications:

Any modifications to the machine which are not authorized by Chargeur Plus, could affect the operation and safety of the machine.

### 2.1.2-Duties and warranty

Knowledge of the safety regulations and instructions is a basic requirement in order to correctly operate the dumper in complete safety.

The instructions given in this manual, and in particular, the safety instructions, must be respected by any person using the dumper or working with this machine, as well as the current rules and regulations for the prevention of accidents, in force at the location in question.

Details of the warranty such as scope, duration and nature are stipulated in the terms and conditions of sale and delivery issued by the manufacturer. Regarding the warranty claims which could arise due to incorrect documentation, the current operator's manual will be the correct one.

In addition to the terms and conditions of sale and delivery, the following clauses are applicable: a warranty claim is invalid for any damages to a person and material damages, in the event it is caused by one of the following:

- Any use of the dumper which is not in accordance with the intended usages and instructions,
- Switching on or driving the dumper incorrectly and improper maintenance of the dumper,
- Use of the dumper with faulty safety equipment or with safety and protection equipment which is not correctly assembled or broken,
- Lack of understanding and respect of the instructions in the present operator's manual,
- Usage by an unqualified operator,
- Repair works which is not carried out correctly,
- Unauthorized modifications in the assembly of the dumper,
- Insufficient monitoring of spare parts which are worn,
- Damage caused by foreign objects or force majeure.

### 2.1.3-PPE (Personal Protective Equipment)

Depending on the usage of the machine, the operator must be familiar with the nature of the possible hazards and consequently, equip themselves with the necessary PPE. For example, in the event of falling object hazards, they must be equipped with a hard hat, or in the event of chemical hazard; with gloves and a mask for respiratory protection.

This equipment is compulsory and means the operator can work in complete safety.














#### **WARNING!**

The operator must wear PPE which enable them to move freely.

#### **FOR INFORMATION!**

PPE must be chosen depending on the nature of the work to be done, the working environment and working conditions.

2.1.3-Safety symbols

	General hazard		Eye protection compulsory
	Suspended load		Ear protection compulsory
	Tipping risk		Head protection compulsory
	High temperatures		Hand protection compulsory
	Risk of slipping		Foot protection compulsory
	Danger of crushing, risk of hand injuries		Body protection compulsory
	Crushing hazard		

2.2-Working area

For usage in the right safety conditions, you must respect the following:

- A safety perimeter of 3m in which no person shall pass (you could cordon off the area with tape),
- The stability of the machine; do not exceed a tilting of 18° longitudinally and 16° transversally.
- Work on stable ground where the machine can move easily and make sure to keep the vibrations felt by the operator to a minimum. It is sufficient to simply use the machine as per the intended conditions, taking into account the actual conditions of the outdoor location and the effects these could engender,
- Do not work under electrical power lines to avoid any contact with the dump or bucket when they are lifted.
- Do not use the machine in undesirable weather conditions, the machine must be switched off and you should go to a safe place (the machine is not equipped with an atmospheric electric shock protection),
- Be aware of underground pipelines, you must be aware if they are present in your working area.

It is the user’s responsibility to ascertain whether there are dangerous conditions when using the machine such as for example, the presence of toxic gas, people or obstacles...

When the machine is moving, the operator must ensure that there are no people or obstacles in the way and prevent he is driving either verbally or with a pre-defined gesture.

### 2.3-Nuisances

The values given in the present operator's manual were recorded during a test cycle carried out on an identical machine. This data is valid for any machine with the standard equipment. The recorded values are given in the technical characteristics.

#### Noise emission:

Noise emission was noted in accordance with the process defined by the standard ISO4871, to determine the guaranteed sound pressure levels, based on the 200/14/CE guidelines, appendix VI.

However, the values given for noise emission are not applicable to determine the noise emission for different workstations.



Noise levels which exceed 85dB(A) can cause hearing problems. The operator must wear ear protection.

For a noise level from 80 dB(A), ear protection is recommended when using the machine.

#### Vibrations:

Vibrations were noted for an identical machine before being shipped.

If the operator is exposed to vibrations for an extended period of time, this must be measured at the workplace, in accordance with 2002/44/CE guidelines, in such a way as to take into account individual factors.

According to standard EN-474-1, the level of vibrations is lower than  $2\text{m/s}^2$ .

#### Lighting:

When the level of lighting at the workplace and machine workstations is lower than 100 LUX, it becomes necessary to use extra lighting equipment. If the machine is not equipped with such equipment, it is necessary to use lighting powered by an external power source.

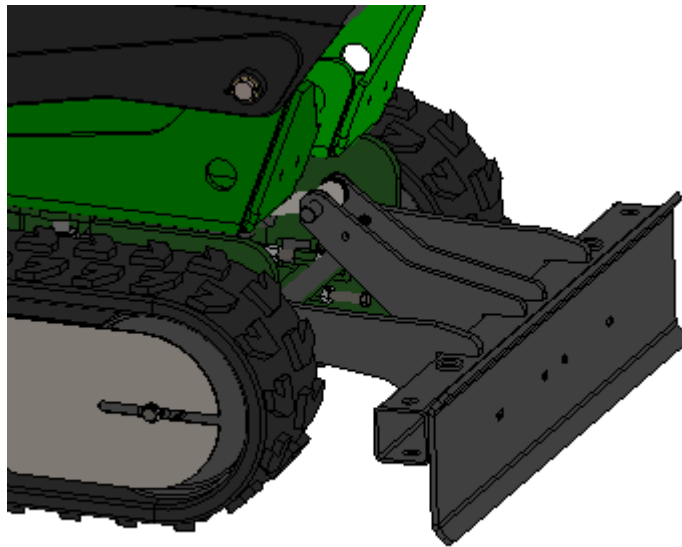
Lights for the working area must be positioned and set up so that they do not dazzle the personnel working on the worksite.

## 2.4-Stabilization feature (option)

### Stabilizing blade

The hydraulic blade can be used as a safety device that allow the machine to be stable during operations.

Below is an image showing the hydraulic blade installation.



## 2.5-Residual risks

### Hydraulic risk:

In the event oil enters the eye, rinse immediately with clean water, then consult your doctor without delay.

Skin and clothes must not come into contact with hydraulic oil. Skin which does come into contact with hydraulic oil must, if possible, be carefully washed immediately, several times over, with water and soap. If this is not done, the oil could irritate the skin and cause dermatitis.

In the event hydraulic oil is projected or spilled onto clothes, you must get changed immediately.

If a person inhales the hydraulic oil vapors (mist), they must be taken to see a doctor immediately.

In the event of a leak in the hydraulic system, do not switch on the excavator or switch it off immediately.



#### Hydraulic hose rupture:

The hydraulic hoses and connectors used on this machine are compliant with regulations. However, there is always a risk of rupture.

**Any work on the hydraulic circuit must be carried out by trained personnel, equipped with the necessary PPE (Protective glasses in particular).**

Do not search for oil leaks with bare hands, always use a piece of wood or cardboard. To search for leaks, wear protective equipment (Glasses and gloves).

#### Tipping:

It is hazardous to move the dumper on particularly rugged or unstable ground. The operator must proceed with caution.

#### Transporting people:

It is strictly forbidden to transport or lift people with these machines.

#### Usage in enclosed areas:

In the event the machine is used inside a building for example, or in an area without ventilation, an exhaust gas ventilation system must be installed so that the operator is not poisoned.

## 3 FONCTIONNING

### 3.1-Working station



Cold engine lever

Ignition key



Engine throttle

### 3.2 Start / Stop

#### **To start the machine :**

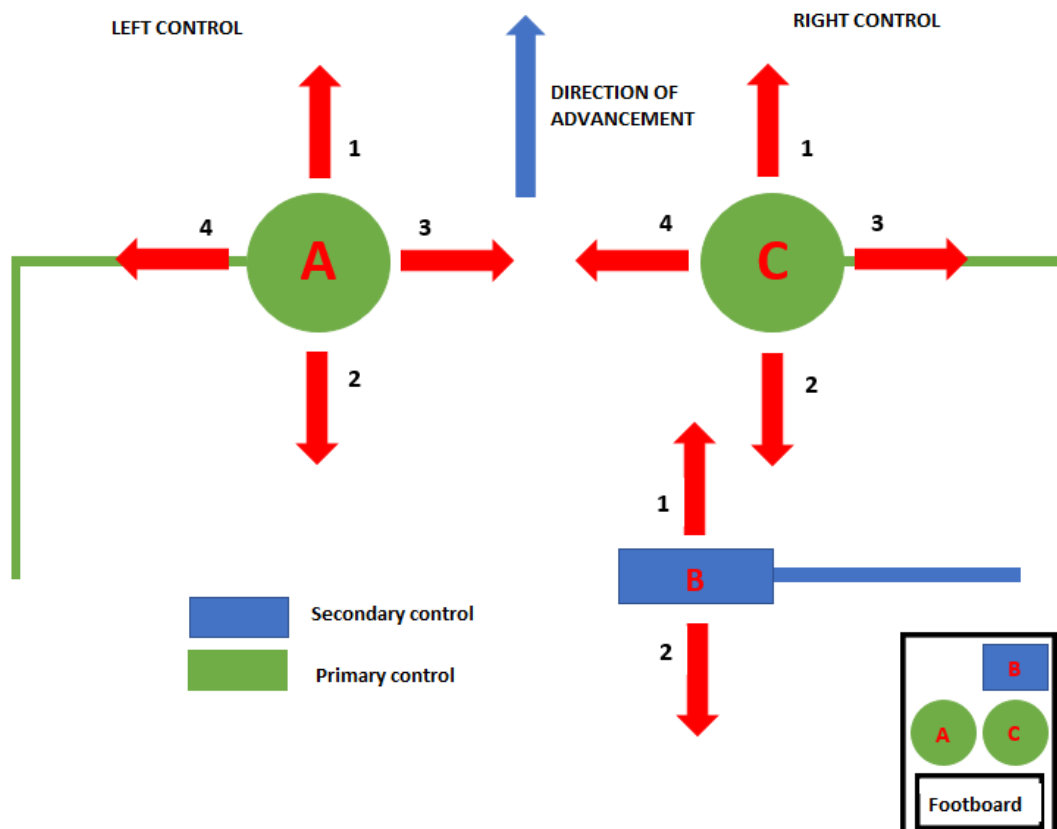
- Check if the fuel inlet is open,
- Handle the cold start lever “Starter”,
- Turn the ignition key to start the engine,
- Replace the cold start lever to its initial position once the engine is running properly,
- Adjust the necessary running speed with the engine throttle.

**To switch off the engine, place the ignition key on OFF position.**

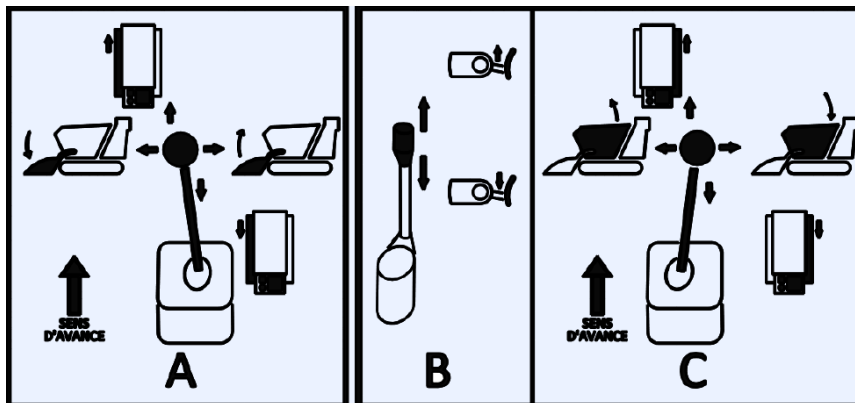
#### **IMPORTANT !**

**It is absolutely compulsory to turn the starter to the OFF position after using the dumper, if this is not done, the hourmeter will unnecessarily count extra hours.**

### 3.3-Fonctionning



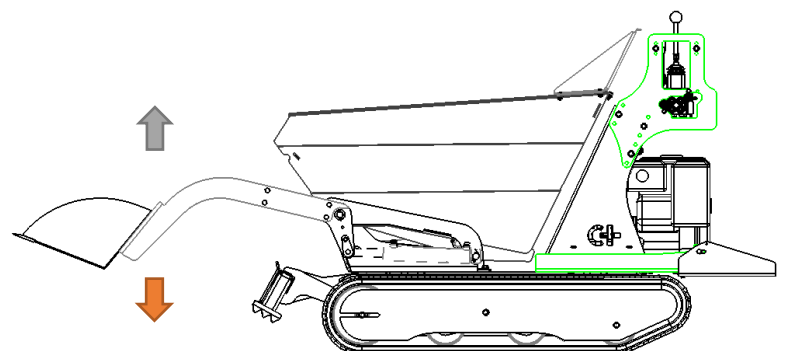
Lever	Position	Movement	Manette	Indice	Mouvement
Left Joystick (A)	1	Left track forward motion	Right joystick (C)	1	Right track forward motion
	2	Left track reverse motion		2	Left track reverse motion
	3	Bucket raising		3	Dump lowering
	4	Bucket lowering		4	Dump raising
			Right handle (B)	1	Blade raising
				2	Blade lowering



Bucket control :

To raise the bucket, pull the left joystick to the right (A) →

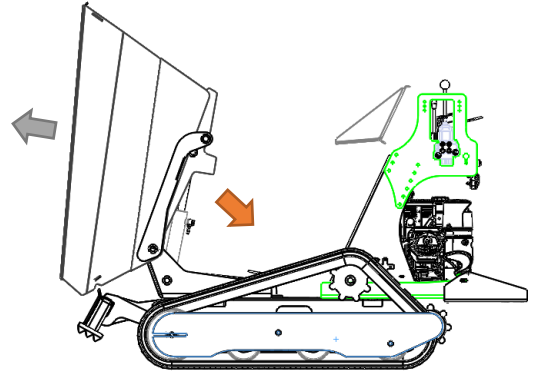
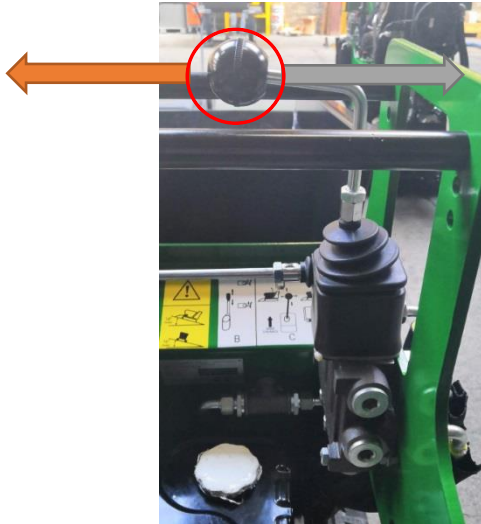
To get the bucket down, pull the left joystick to the left (A) ←



Dump control :

For tipping the dump, pull the right joystick to the right (B). →

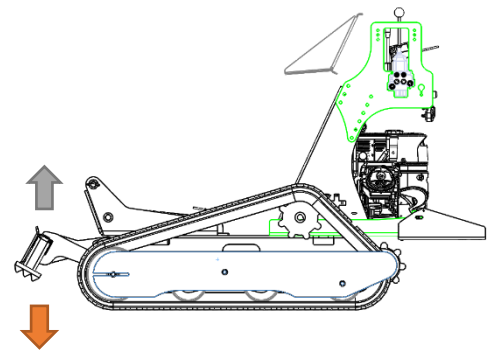
To bring the dump down, pull the right joystick to the left (B). ←



Blade control:

To raise the blade, pull the right handle up (C) ↑

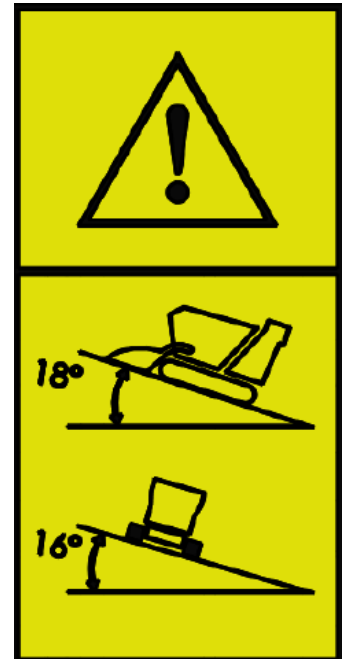
To lower the blade, pull the right handle down (C). ↓



Travelling forward:

When driving the dumper, you must respect the following safety instructions.

- When working on a hillside, consider the tilt of the dumper (see illustration).
- Maximum side tilt -> 16°.
- Maximum longitudinal tilt -> 18°.
- When travelling forward, keep the bucket as low as possible.
- Check the bearing capacity of the ground, check whether there are potholes or other obstacles.
- When approaching an embankment or a ditch, move very carefully, take into account the risk of unstable earth.
- When moving down a slope, move forward slowly to avoid losing control of accelerations.
- When descending backwards, progress slowly to avoid jamming legs
- Move the blade up to the highest possible position.



Push the two travelling joysticks (A-C) forward at the same time, the dumper will move straight forward. When these controls are released, the dumper will stop immediately.



When the two travelling joysticks are pulled back, the dumper will reverse in a straight line.





Travelling around bends:

*The following instructions refer to moving forward around a bend with the blade at the front. If the blade is at the rear, the movements must be carried out in reverse.*

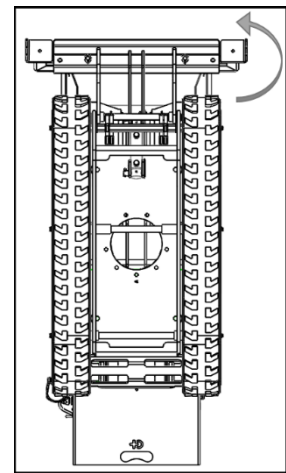
*When moving around bends, make sure no persons are in the swing area of the excavator.*



Rotating left:

Leave the right travelling joystick in the idle position and push the left travelling joystick back.

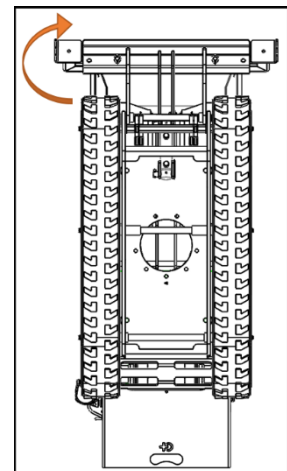
It is also possible to rotate to the left if the right joystick is pushed forward and the left joystick is left in the idle position.



Rotating right:

Leave the left travelling joystick in the idle position and pull the right travelling joystick back.

It is also possible to rotate to the right if the left joystick is pushed forward and the right joystick is left in the idle position.



Turning 180° on the spot:

Push both joysticks in opposite directions at the same time. The tracks will turn in opposite directions and will pivot around the vertical axis.

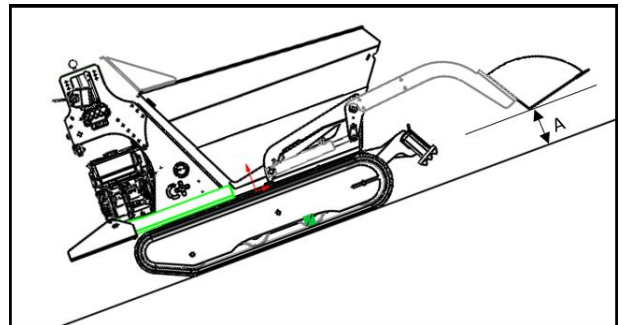


Travelling on a slope:

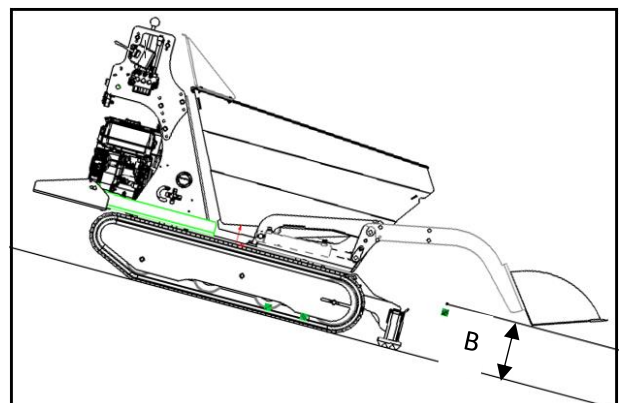


*Extreme caution must be taken when travelling on a slope*

When travelling uphill, lift the bucket approximately 200 mm from the ground (distance “A” on the illustration)



When travelling downhill, lift the bucket approximately 200 mm from the ground (distance “B” on the illustration)



Emptying of the dump :

*During operation with the dumper, you must respect the following safety instructions*

- It is prohibited to lift the dump in a descending longitudinal slope, or on a transversal slope.
- Always drain the bucket on a flat floor.
- It is prohibited to attempt to break concrete or rocks with the bucket.
- Do not bump the actuators at the end of the stroke. Always leave a safety margin.
- When working in water, the dumper can be submerged, to its maximum, up to the half-height of the roller tracks.
- After operations in water, always regrease the axes with a grease pump until the old grease emerges from the bearings.
- It is forbidden to use the dumper as an elevating machine.
- For emptying of the dump always lower the blade up to the ground.

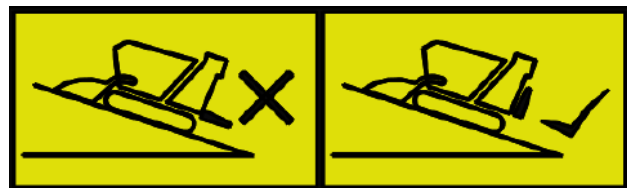
**3.4-Dump filling with the bucket (option)**

*During operation with the dumper, you must respect the following safety instructions*

- It is prohibited to attempt to break concrete or rocks with the bucket.
- Do not load more than 200 kg in the bucket.
- The user must wear protective glasses.

**3.5-Footboard use**

Always raise the footboard when the dumper is moving uphill.

**3.6-Cleaning ( To be done after every use )**Cleaning instructions:

Do not clean the engine compartment or any electrical parts with a large quantity of water. These are located mainly under the workstation. The dump and track base can be cleaned with a large quantity of water without the risk of damaging the dumper.

It is preferable to clean the machine with a sponge and water. If the rollers are cleaned with a lot of water, the bearings must be regreased.



## 4 CHECKS AND MAINTENANCE WORKS

### 4.1-Action

#### Conditions:

For safety reasons during maintenance work, lower the bucket and blade to the ground to prevent the equipment from falling when the hydraulic system is activated. Once the machine is stopped, with a 3m safety distance, you should always remove the residual pressure from the system by testing each control lever.

In order to reduce the risks with dangerous chemicals during maintenance work, wear gloves, long sleeves and a protective mask and safety glasses.

### 4.2-Corrective maintenance

When changing any spare parts, hoses, etc. please see the assembly instructions which explain in detail how to assemble all the individual parts of the dumber.

Connectors between parts and hoses are tightened in a factory and,

- Fixed in place with thread-lock for 12L connectors with a seal (24° cone),
- Made watertight with hydraulic glue (high pressure line) or with Teflon adhesive (low pressure line).

Due to the vibrations of the machine, some connections could become loose. After each use, (maintenance chart) you need to check they are correctly tightened in order to avoid any possible leaks, and to follow the same procedures to make sure all connections are watertight (Contact a hydraulic supplier for more information).

*Reminder: Hydraulic oil constitutes a health hazard.*

### 4.3-Preventive maintenance

#### Checking oil levels:



#### Engine oil:

The engine oil levels can be checked on either side of the combustion engine, by unscrewing and checking the level on the dipstick.

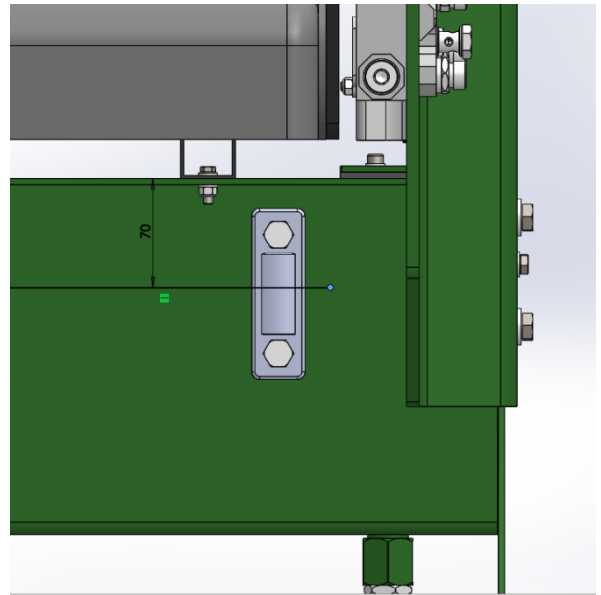


Hydraulic oil:

To check the hydraulic oil level, unscrew the cover of the oil tank, check the gauge in the tank.

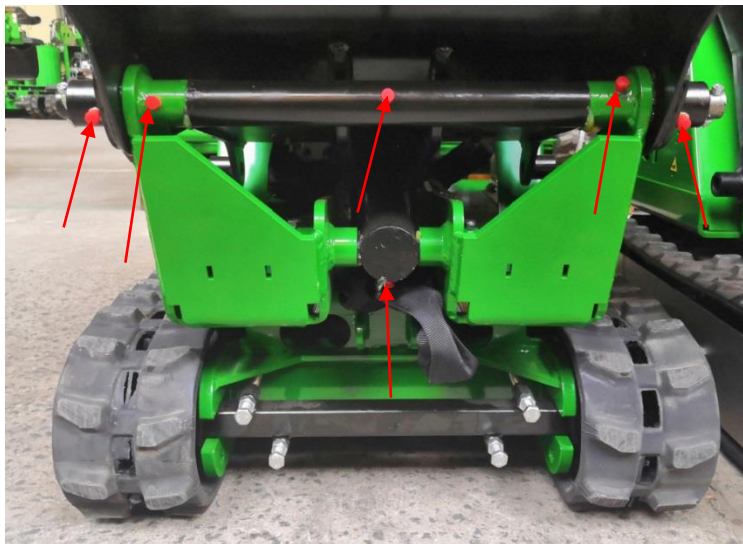
Some machines are equipped with a level.

The oil level should be 7 cm below the cover of the tank (cylinder rods retracted – applicable for DP-72/82).

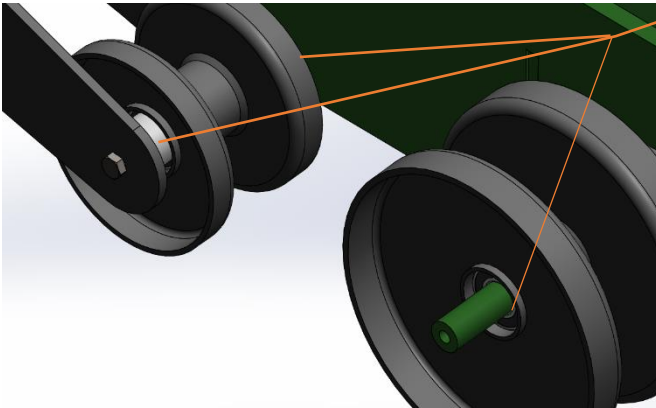


Lubrication points:

All axle fittings have a lubrication point. They must be lubricated at least once a week when the machine is used on a regular basis.



SUPPLIERS – GREASE BRANDS	Grease for bearings
ARAL	Aralub HLP2
BP	Energrease LS-EP2
CASTROL	Grease LMX
ELF	Epexa 2
ESSO	Beacon EP2
LUBCON	Turmoplex 2EP
MOBIL	Mobilux EP2
SHELL	Calithia EP2

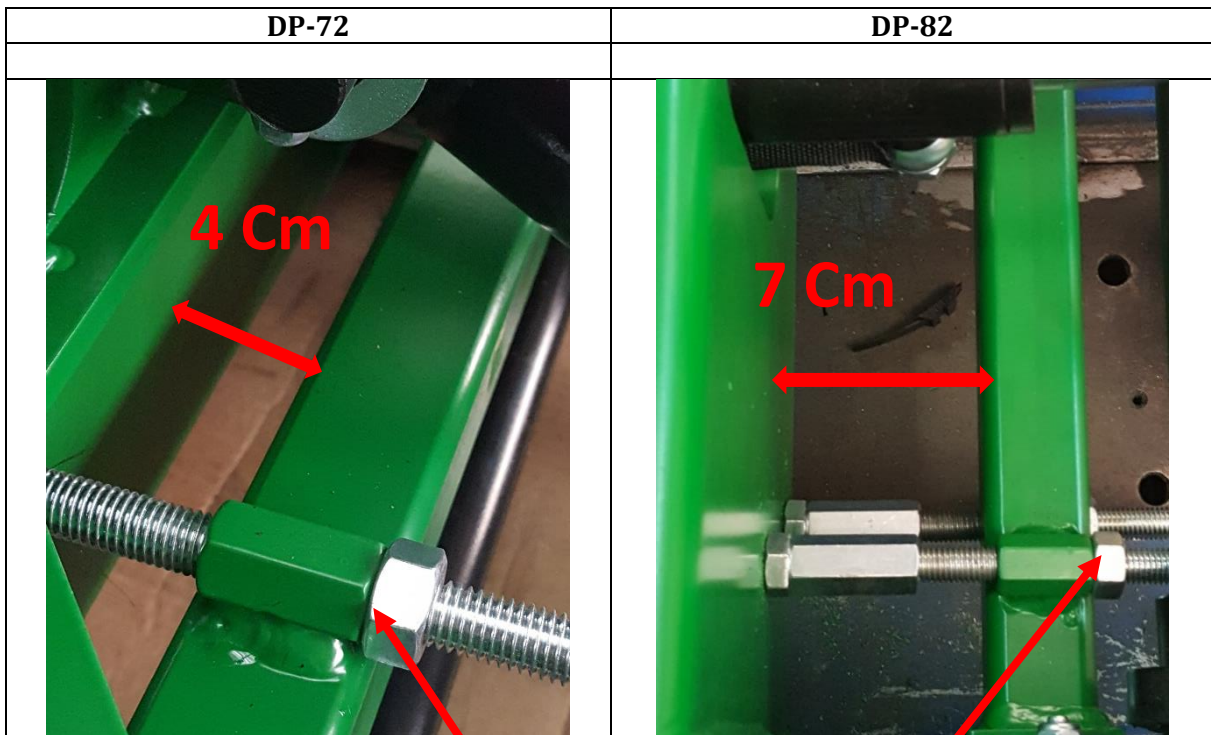


**Lubricating Roller casing and axles:**

Normal grease:

- Roller bearings are lubricated for life and equipped with seals.
- It is however necessary to fill the casing with grease in order to avoid any humidity.
- Make sure any missing grease is replaced (especially after cleaning, operation in particularly muddy conditions...) see Maintenance chart

Adjustment of tracks tension



**Warning!**

**Do not forget to tighten the locknuts**

Scheduled maintenance chart:

Maintenance chart for petrol 6,5hp, 9hp &amp; 9,5hp or diesel 10hp combustion engine:

<b>Regular maintenance</b> To be carried out every month or after a given number of service hours since the first use of the machine		Every use	The first -5 hours (Kohler) -20 hours (Excalibur) or first month (4)	Every -1 year (Kohler) -6 months (Excalibur) or 100 hours (4)	Every 3 months or 100 hours	Every 6 months or 200 hours	Every year or 300 hours
Operation							
Engine oil	Check the level	x					
	Change		x	x			
Air filter	Check	x					
	Clean				x (1)		
	Replace						x (2)
Sediment cup	Clean				x		
Spark plug	Check / clean				x		
	Change						x
Interference suppressor	Clean				x		
Idle speed	Check / reset						x (3)
Valves	Check / reset						x (3)
Tank and filter	Clean						x (3)
Combustion chamber	Clean	After around 300 hours					
Fuel line	Check	After 2 years (replace if necessary)					

- (1) Carry out more regular checks when the machine is used in dusty conditions
- (2) Replace only the foam part
- (3) These parts must be dealt with by the dealer-repairer, unless you have the right tools
- (4) The first of the 2 periods (whether it is in terms of hours or the calendar)

Maintenance and machine verifications chart:

<b>Regular maintenance and checks</b> To be carried out every month or after a given number of service hours since the first use of the machine		Every use	First month or 50 hours	Between 100 and 200 hours	Every 6 months or 200 hours	Every year or 300 hours
Operation						
Hydraulic oil	Check the level	x	x (1)			
	Change					x
Strainer	Check		x (1)			
	Clean		x (1)			
	Replace					x
Tank	Clean		x (1)			x
Pins	Check	x				
Lever pin	Check the wear by removing the pin from its housing	x				
	Replace					x
Screws	Check / Re-tighten	x				
Pin lubrication	To be done	x				
Ring / roller track	To be done			x (3)		
Ring / Teeth	To be done	x (3)				
Rollers	To be done	x (3)				
Tracks	Tightening	x				
	Check	Caution: if 2 or more links are absent, change the track				
Hoses, connectors and textile sheath	Check / Re-tighten	x				x (2)
	Check	In the case of a leak, change the hose immediately. If the sheath is damaged, replace it.				

- Cleaning the machine

- (1) Empty the tank, if there isn't too much deposit, filter the oil and use it again.
- (2) Change the hoses if the braid is visible and rusty.
- (3) For each cleaning and after a long period without being operated.

\* Only carry out maintenance for Kohler engines with the approved maintenance kit.

## -5 TRANSPORT AND STORAGE

### 5.1-Loading and unloading

#### On a truck:

It is recommended to load the dumper in reverse into the truck to stabilize the unit and to avoid any accidents. The lower is the slope, the easier will be the loading.

#### Using a pallet truck:

For transporting on a pallet, it is essential to strap down the machine to ensure that nothing moves during transport.

#### Weight of the machines:

Machine	Empty weight: (Kg)
DP-72-S / DP-72-P	550
DP-82-S	650
DP-82-P	700

### 5.2-Storage

#### Durability of the machine:

The following is advised:

- Keep the machine in a sheltered place,
- Store the machine fully lubricated,
- Start the engine regularly so that it does not become blocked.

#### Safety:

To avoid the blade falling unexpectedly, it is essential to place the blade on the ground, so that just in case the hydraulic controls are activated, they will not cause any sudden movements.

### 5.3-Disposal

The disposal of the machine must only be done of by technicians who have been trained and have the appropriate equipment. Components must be separated so that certain raw materials can be reused.

All contaminated components (oil, fuel, lubricants) or polluting components (battery) must be disposed of accordingly by certified security organizations.

#### **WARNING!**

It is strictly forbidden to reuse parts of the machine for functions other than those originally intended in this manual.

#### **INFORMATION!**

Chargeur Plus declines any responsibility for damages caused by non-respect of the recommendations given in this manual.