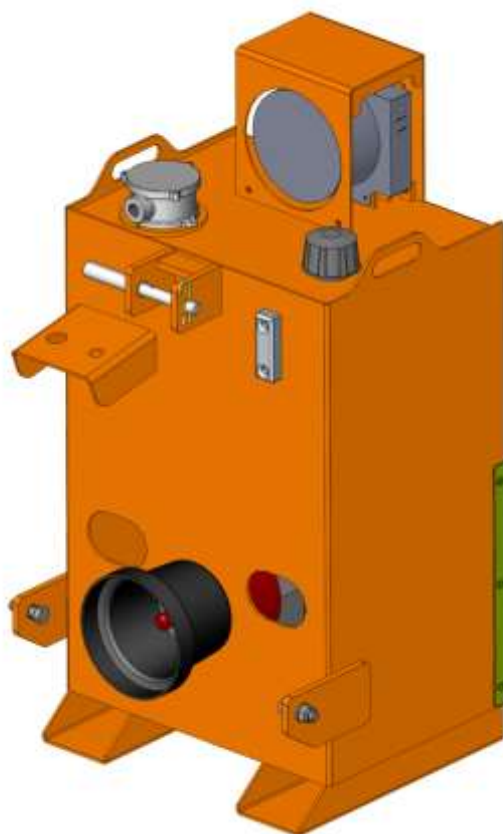


HYDRAULIC SUPPLY UNIT 60L



TRANSLATION OF THE ORIGINAL USER'S AND MAINTENANCE MANUAL - SPARE PARTS MANUAL

Dear User,

Thank you for your trust! We hope that your equipment will prove fully satisfactory.

Taking a few minutes to read these instructions will ensure that you can :

- d'utiliser pleinement les performances of votre équipement,
- Preserve its service life,
- Work in complete safety.

This manual comprises a description of how to use and maintain the hydraulic supply in the widest possible configuration. Consequently, the version of base of the Hydraulic supply unit and its accessories may vary. For more information on the equipment levels available in the market place, please contact your nearest dealer

If you have any question, please don't hesitate to contact your dealer.

When your hydraulic supply delivered, your dealer will have given you a start-up form.. If your dealer did not give you this document, please request it right away. This document will be necessary for any work performed under the warranty.

The start-up form shows :

- Whether the user's and maintenance manual comprising the CE declaration of conformity was given to you.
- Whether the spare parts manual was given to you.
- Whether you were informed of the conditions of use and warned about the safety rules to be complied with.

In cases where one of these requirements was neglected, it is up to you to contact your dealer right away.

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I - CE DECLARATION OF CONFORMITY Regarding self certified equipment

The undersigned manufacturer :

S.A.S. COUP'ECO
Z.I. of Chail
17800 PONS
(France)

Certifies that the new equipment designated below :

Description : **HYDRAULIC POWER UNIT**

Type : **CE.060.206**

Serial No : **10.22.205**

is in conformity with the provisions of the «Machinery» directive 2006/42/EC and the national legislation implementing the same.

Name of the person authorised to put together the technical file :

- Mr BIANCHI, S.A.S. COUP'ECO- ZI of Chail - 17800 PONS

Done at PONS, December 9th, 2022

The President,
Thierry BOULARD



II - INTRODUCTION

This manual describes the conditions of use and maintenance. It is an integral part of the Saw Head. It defines what the Saw Head was built for, and comprises the information needed to guarantee proper and safe use.

The Saw Head is intended for professional use, and only specialist personnel may use it. Its use is prohibited to minors, persons who have physical or mental health issues as well as persons who are insufficiently informed and trained.

2-1/ Characteristics and manual updates

All of the technical support and the description provided in this manual is the exclusive property of COUP'ECO that prohibits its reproduction, whether in full or in part, without their express written authorisation and permission.

The contents of this manual may be subject to change at any time. COUP'ECO reserves the right to make any changes that they see fit at any time, with a view to improving the Saw Head or for any manufacturing or sales needs.

The illustrations and the technical data provided in this manual may not all correspond precisely to your Saw Head. Les Conditions of use do however remain unchanged.

2-2/ Retaining the manual

This manual must be kept carefully in a suitable location to guarantee that it remains in good condition. It must be easily accessible to anyone authorised to access it. Manual is an important document that accompanies the Saw Head, and all users are responsible for keeping it in good condition. Pass it on to the new owner in case of resale.

III - USING THE SAW HEAD FOR ITS DESIGNED PURPOSE

The Saw Head is designed for use in cutting branches, field borders, edges, access paths, fruit trees, hedges...

It will cut all varieties of wood, hard or softwood, whether green or dry..

The branches of trees and hedges are cut cleanly, without shredding or crushing. This technique limits any development of plant ailments and encourages healthy vegetation regrowth.

Only use cutting equipment (knife blades, blade disks) recommended by S.A. COUP'ECO.

The Saw Head fits onto the end of an articulated arm (bank mowers, excavators, telescopic lifters, etc. that will henceforth be referred to as carrier vehicles), and the working area is adjusted using hydraulic cylinders located on the arms.

Any other use is prohibited. The manufacturer declines any liability in case of damage resulting from non compliant use. Always observe the maintenance and servicing measures set out in this manual.

The Saw Head user is responsible should an accident occur or if any damage is caused to third parties or to property belonging to third parties.



Using the Saw Head for mowing or brush cutting is absolutely prohibited.



Working with the Saw Head when travelling in reverse is absolutely prohibited.

IV - SYMBOLS USED

4-1/ Meaning of the symbols found in this manual

The following symbols are used in this manual to draw attention to specific hazards.



Warning.
These symbols warn of
specific hazards.



Prohibited. These
symbols show actions that
are prohibited.



Protective gloves must
always be worn.



Protective footwear must
always be worn.



A worksite helmet must be
worn.



Wearing a worksite
helmet, ear defenders and
protective goggles is
required.

4-2/ Signification of symboles présents on l'équipement

The following symbols are affixed to the Saw Head to warn of specific hazards.



Rotary tools!

Objects and debris are likely to be projected.
Keep a safe distance around the saw head.



Wearing a worksite helmet, ear defenders and
protective goggles is required.



Cutting hazard!

The cutting blades are cutting tools.
Caution! When handling them and when cutting.



Cutting hazard!

The blades are cutting tools.
Caution! When handling them and when cutting.

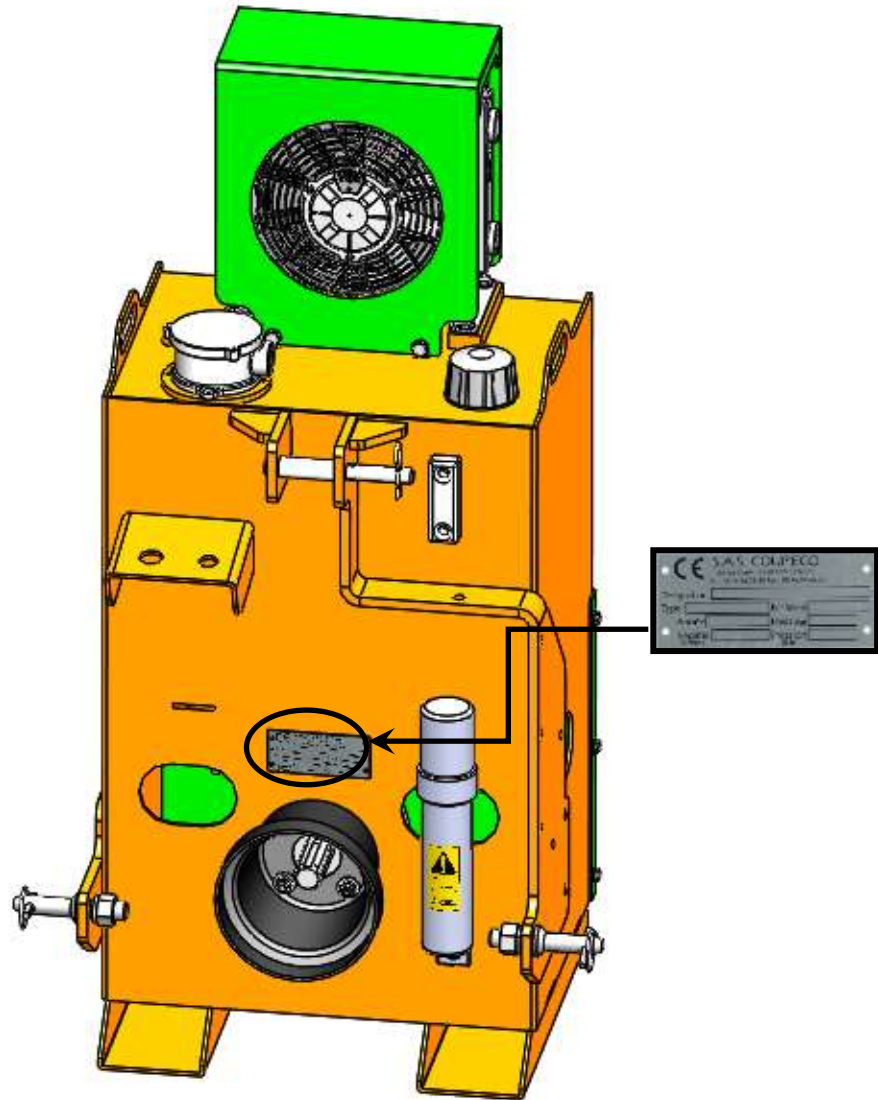


Anchor point for
handling.

V - LOCATING THE RATING PLATE

Every Saw Head is marked with a rating plate that shows the main technical and identification data. The rating plate is located in a location where it is easy to find and read.

The rating plate must never be removed nor used for other purposes. If the Saw Head is damaged or discarded, always ensure that it is properly destroyed to avoid any possible misuse.



This plate displays the following information:

- Information on the manufacturer
- The Description
- Type
- Serial No.
- Year manufactured
- Weight
- Max. operating pressure

Systematically record the data on the manufacturer's rating plate when making any request for support and/or ordering spare parts.

VI - SAFETY INSTRUCTIONS

6-1/ General safety instructions

Following the measures introduced by articles R4323-55 and R4323-56 of the Labour Code, operating this machine is strictly reserved for personnel who are trained and designated by name.

6-2/ Checking the conformity of the cutter prior to starting, every time it is run

Always check that the equipment is properly on the carrier arm.

Always check the condition of the cutting tools and sharpen or replace them as required.

Always check that the cover and protective casings are properly attached.

Always ensure that all safety symbols are present on the machine, are legible and clean and replace them if necessary.

Always check the condition of hydraulic hoses and ensure that there are no leaks.

Always check that related components are greased.

6-3/ Prior inspection of the work area

Always inspect the work area to check for the possible presence of wire, metal posts, large stones, bottles and other dangerous objects. Remove these objects before starting work. Also lift up broken or damaged branches before starting work to prune branches.

Always note the presence of raised obstacles, particularly electrical cables: in this case, always determine the category of cable, notify the driver, and check the instructions : **(In France)**

- For power lines of less than 50 kV, the minimum working distance to respect is 3 metres.

- For power lines of more than 50 kV, the minimum working distance to respect is 5 metres..

See local regulations in force.

6-4/ Characteristics of the ground that the carrier can operate on

The kind of ground that the carrier can operate on is of great importance as regards stability and safety : wet ground, bare earth, grass, leaves, steel plates must all be taken into consideration especially when working on ground that is sloping or inclined.



**Il est impératif de respecter les pentes et dévers maxi autorisés, indiqués dans la notice du porteur.
Le non respect de cette consigne peut provoquer le renversement du porteur.**

6-5/ General operating instructions

Always keep third parties away from the machine during operations to mount or unmount the Saw Head on the carrier. During these operations, define a safety perimeter of 10 metres around the machine in case it should overturn.

Always keep people away from the machine during cutting operations and create a safety perimeter of 100 metres around the machine in case branches fall or are ejected.

Place warning markings sign posting that tree cutting is in progress, in line with the applicable rules for marking off hazardous worksites.

Always inform worksite staff of any safety areas to be complied with.

Always ensure that personnel dedicated to picking up fallen branches or other wear suitable personal protective equipment and not remain within a 50 meter perimeter around the cutting tool and 100 metres in the direction that the blades are pointing in (both ahead and behind it).

Always ensure that people gathering branches and other objects respect and ensure that others respect the safety perimeter.

Always keep the carrier stable when cutting.

Always stop the rotating blades before carrying out any manoeuvres not related to cutting: carrier arm movements, reversing, positioning the saw head, etc.

Always call on someone on the ground to watch over movement, with the blades stopped, if the operator's visibility is reduced.

Always adapt the machine's forward motion speed to the condition of the terrain that the carrier is operating on.

Always fit the protective cover over the blades as soon as the work ends or as soon as the carrier stops.

Always clean the cutting equipment at the end of each working day: remove branches, leaves and any accumulation of sawdust.

Always fold the cutting equipment to the transport position after saw head shutdown and when moving it away from the work area.



Whenever reverse motion is required, always stop saw head rotation.

6-6/ Site safety instructions

When working with cutting equipment, there are projection hazards, a risk of falling branches or flying debris, especially in front of and behind the saw head.

To avoid these risks, it is necessary to stop anyone from entering the safety zone, this being a circle with radius of 100 metres around the carrier.

➤ *Pedestrians, cyclists, site personnel:*

- ✓ For site personnel, always wear personal protective equipment (helmet, gloves, glasses etc.), the safety zone can be reduced to a 50 metre radius.
- ✓ Excluding site personnel, it is necessary to ensure that no other people (pedestrians, cyclists etc.) are within an area with a radius of 100 metres around the carrier.



If people enter the zone, the operator must stop working momentarily to allow enough time for these people to leave this zone.

➤ *Other vehicles :*

- ✓ Other vehicles passing through the safety zone is strictly prohibited while cutting is in progress.
- ✓ During the manoeuvre phases, please mark off a travel area located 1.50 metres away from the outer edge of the wheels or the turret.



If the width of the road does not allow it, it is essential for the operator to stop when meeting oncoming traffic.

➤ *Homes alongside the site:*

When homes are inside the safety zone, inform residents of cutting operations and, for their safety, of the need to remain off balconies or terraces, to close windows and shutters and to not leave the house in order to avoid any harm linked to potential flying debris.

6-7/ Maintenance instructions

Always position the carrier vehicle and cutting machine on flat, stable ground in an open environment to carry out any maintenance operations.

Always wear personal protective equipment for maintenance operations: Gloves, safety shoes, safety glasses.

Always cut the power from the carrier vehicle and activate the parking brake before carrying out any work on the cutting equipment: Switch off the carrier's engine.

Always respect all general safety standards in addition to the recommendations given in this manual.

Always use a specialist technician to carry out any maintenance operations other than those described in this manual.

Always keep the blades in good, sharp condition and properly set. Replace a blade as soon as you see any cracking appear at the base of a saw tooth.

Always keep the knives blades in good, sharp condition. Replace the knife blade fixing nuts and bolts each time that they are removed.

Always check that the nuts and bolts on the cutting equipment are securely screwed in before each use.

Always be very careful to follow the procedures described in the manual dismounting and mounting the cutting part (knife blade or blade disk).

Always clean the cutting equipment fully at the end of each working day.

Always replace worn or defective parts with original COUP'ECO parts..

6-8/ Warnings

Never allow non-accredited or untrained people to use this cutting equipment.

Never use this cutting equipment or carrier vehicle under the influence of alcohol or drugs.

Never use the machine during strong winds: maximum: 40 km/h.

Never use the cutting equipment during a storm: risk of lightning.

Never use the cutting equipment at night, nor if light levels do not allow the operator to clearly see the end of the cutting tool.

Never use the machine without setting out the site markings.

Never stand below the cutting component regardless of its height.

Never cut large branches using the saw head when the blades are not parallel to the direction of carrier motion or to the cutting direction.

Never cut branches larger than the dimensions recommended in this manual (*cf. « Technical characteristics »*).

Never continue using the cutting equipment when a wire or similar wire objects have wound themselves around a disk.

Never use knife cutters that no longer cut. These must always be replaced in pairs, to keep the cutting discs balanced.

Never use a blade that no longer cuts.

Never overhang a traffic zone without having first stopped access.

Never travel along the road without having first installed the blade covers.

Never carry out maintenance operations not described in this manual.

Never use spare parts that do not originate from COUP'ECO.

Never use the cutting equipment as lifting equipment for people or objects.

Never use the Saw Head tip to push cut branches.

Never leave the circular saw blades rotating during manoeuvres with the carrier when not cutting (changing road, reversing, changing carrier direction, etc.)

VII – PRESENTATION OF MATERIEL

This hydraulic supply unit had a capacity of 60 l and it's designed for a hitch 3 points cat II.
It is driven by power take-off.

This hydraulic unit only accepts a maximum power take-off speed of 540 rpm.

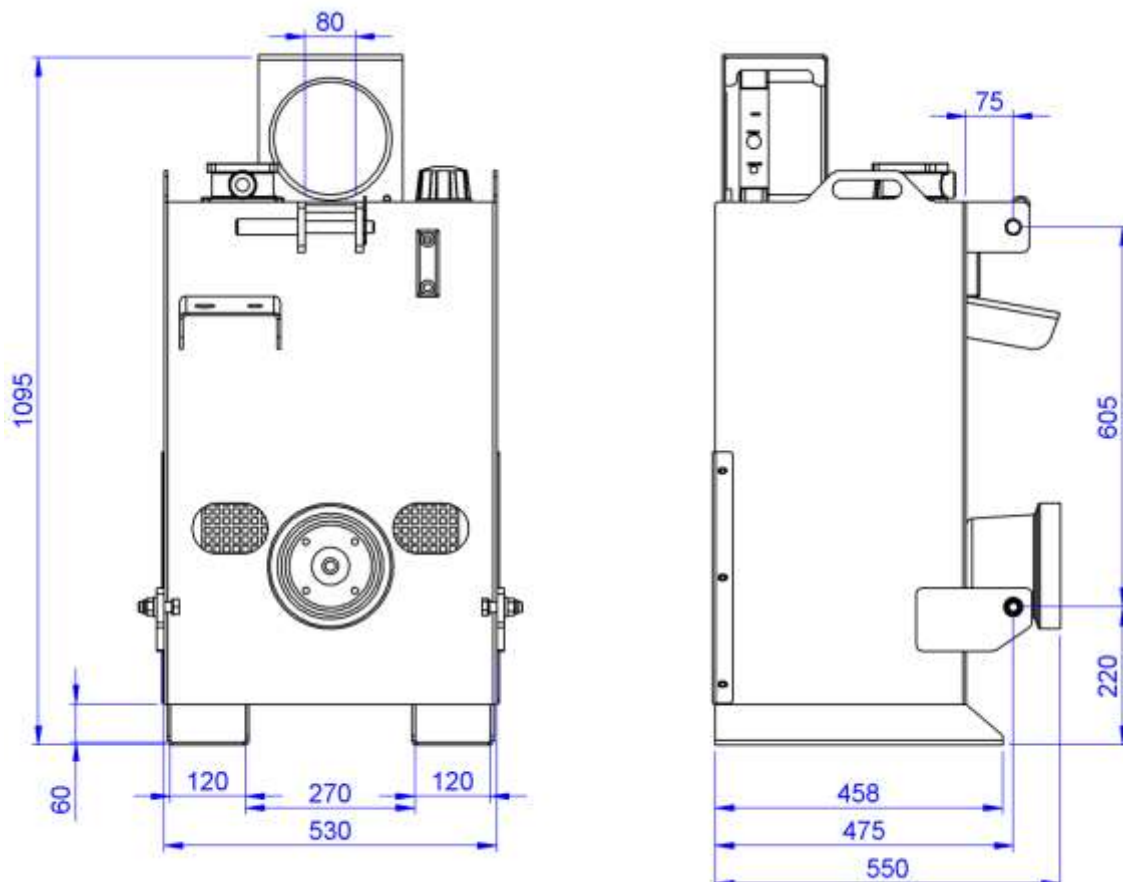
7-1/ Characteristics

Capacity :	60 L.
Height :	1095 mm.
Width :	530 mm.
Depth :	550 mm.
Weight of the complete unit :	180 kg.

The data below correspond to a PTO speed of 540 rpm :

Type hydraulic power unit	CE.060.206	CE.060.207	
Pump	25cc + 4cc	25cc + 6cc	
High flow available	45 l/min at 180 bar	45 l/min at 180 bar	
Low flow available	8 l/min at 180 bar	10 l/min at 180 bar	
Refroidisseur	Oui	Oui	

7-2/ Dimensions



VIII – INSTALLATION AND START-UP

8-1/ Set-up procedure

This machine is intended to be hitched on a cat II three point hitch.

- The required PTO speed is: 540 rpm maximum
- The power supply to the control box is 12Vdc. The power cable must be of sufficient cross section (recommended minimum of 2x2.5mm²) and must be connected directly to the 3-pin power socket on the control box of your COSMOS.
If the box is not equipped with this socket, a direct battery supply line must be drawn with a protection fuse.

The control box will be positioned at the level of the driving position.

The hydraulic connection is made through couplers positioned on the unit:

- 1 x high flow pressure line coupler
- 1 x low flow pressure line coupler
- 1 x coupler for the common return line of the 2 flow rates
- 1 x coupler for motor drainage.

8-2/ Start-up procedure

Before any start-up, check that the couplers are correctly connected.

Check the oil level of the multiplier, as well as the oil level of the unit.

Make sure that the control unit is properly supplied with power: light on when the emergency stop is unlocked.

When using for the first time with a device such as a fruit tree pruner, it is essential to calibrate the pressure limiters to the values recommended in the pruner's user manual. These adjustments are made when the PTO is rotating at 540 rpm.

In addition, after filling the circuit, it is imperative to top up the unit.

IX – MAINTENANCE

* Drain the multiplier :

Interval : After 100 hours of use the first time, then every 300 hours.
Quantity: 0.25 liter of transmission oil

Recommended oil : **IGOL HYPOID B SAE 80 w 90**

* Draining the tank :

The drain is subjected to an analytical monitoring of the oil: A levy is to be carried out after one year and to send back to Coup'Eco.

- Fill and stick the sticker on the bottle provided
- Fill out the information sheet and attach it to the bottle (note the sample number in the table on the last page of this manual)
- Send everything in a suitable packaging to :
 - o PANOLIN AG – Attn : Labor
 - P.O. BOX – CH-8322 Madetswil – Suisse

Depending on the result of the analysis you will be told if it is necessary to perform the draining

Recommended oil : **PANOLIN HPL 46 BIO**

Quantity: 70 liters of oil for hydraulic circuit

25.410.702 Extra can 5L Oil Panolin Sprint 46 Bio

* Oil Filter Cartridge :

It is recommended to change the return filter cartridge at each oil change:

- Tank return filter cartridge : Reference 20.555.008

X – WARRANTY TERMS

- The warranty period covered by COUP'ECO is **1 (one) year** from the date of availability on our premises. It only applies to manufacturing defects duly noted by us and only commits us to sending the parts recognised as defective (this excludes any labour costs), or compensation as a result of any machine unavailability.
- Faulty assemblies or subassemblies must be returned to the after sales service department within eight (8) days of the incident, together with a warranty claim:

**Complete, not disassembled
for a STANDARD EXCHANGE
application**

**Complete, not disassembled
for a STANDARD EXCHANGE
application**

- The packaging and transport costs for the defective parts and for the new parts taken in guarantee will be entirely charged to the purchaser.
- The repair or replacement of the parts during the guarantee period shall in no way prolong this period.
- Any defective part that is replaced by a new part under guarantee shall remain the property of COUP'ECO.
- The vendor will not be bound to provide any compensation to the purchaser for any losses incurred such as:
 - personal accident,
 - Damage to property other than the subject of the contract.
- The warranty does not apply to normal wearing parts such as blades, belts, blades, flexible hoses... as well as to parts damaged by accident or due to poor maintenance or a failure to follow the equipment usage instructions.
- The warranty shall cease to apply:
 - When changes or repairs are made by third parties or by the purchaser themselves, without written consent from the vendor,
 - When parts fitted by the maker are replaced by parts of a different origin,
 - When the appliances are modified or transformed in any way and by anyone.
- We reserve the right to make any changes to our models that are considered useful with no obligation to carry out these changes on equipment already delivered.
- In the event of dispute regarding the supply of the equipment or its settlement, the Commercial Court of SAINTES shall be solely competent, whatever the conditions of sale and method of payment accepted, even in the case of appeal under guarantee or multiple defenders.

It is expressly agreed that we reserve ownership of the merchandise supplied up to the day on which payment is received in full, in accordance with the terms of the act No. 80.335 of 12 May 1980.

XI – SPARE PARTS MANUAL

For optimum performance, use only COUP'ECO spare parts in order to benefit from the latest refinements.

Buy your original COUP'ECO parts from your local dealer.

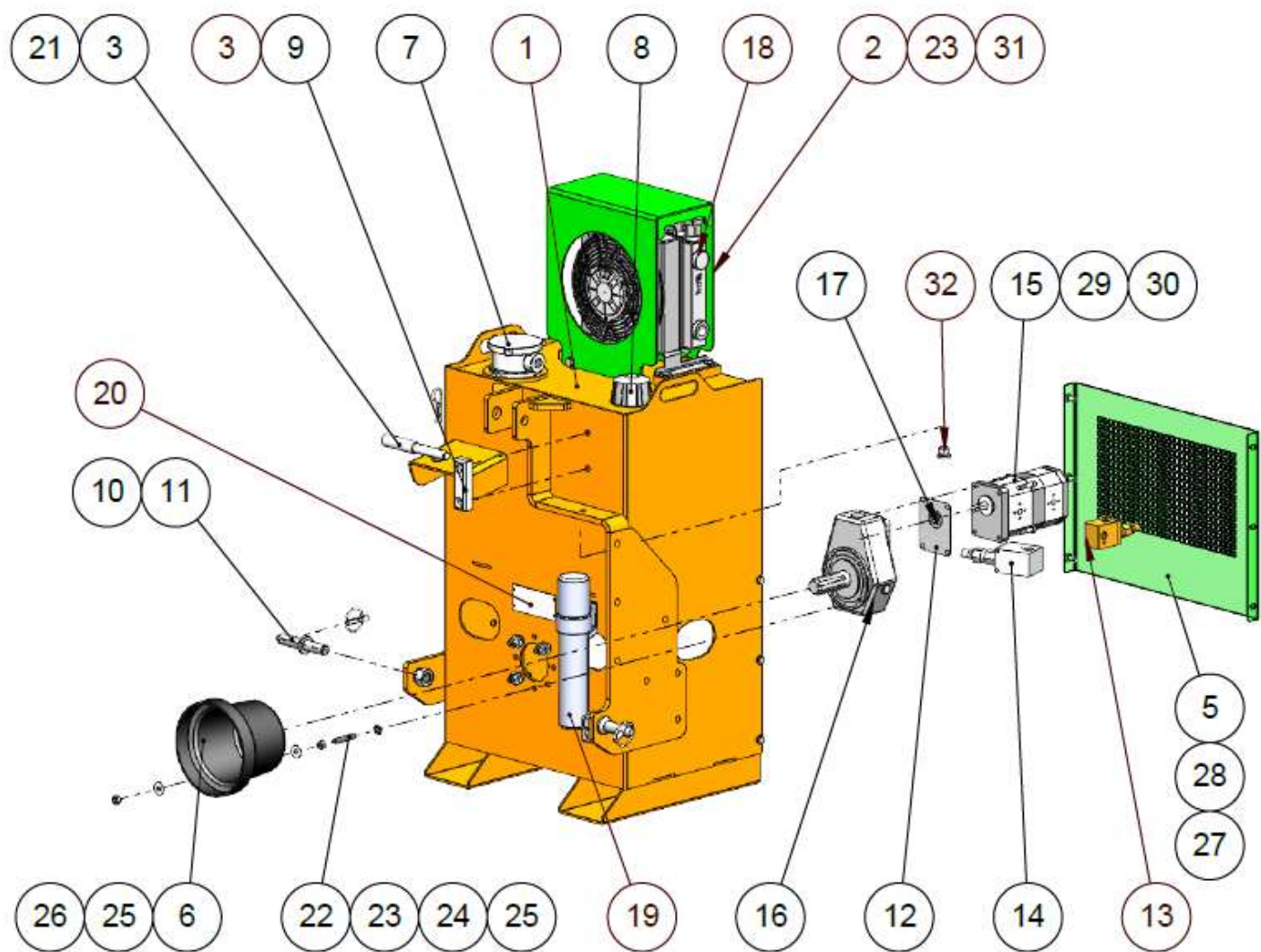
Always state the type of machine, its serial number and the Reference number of the part.

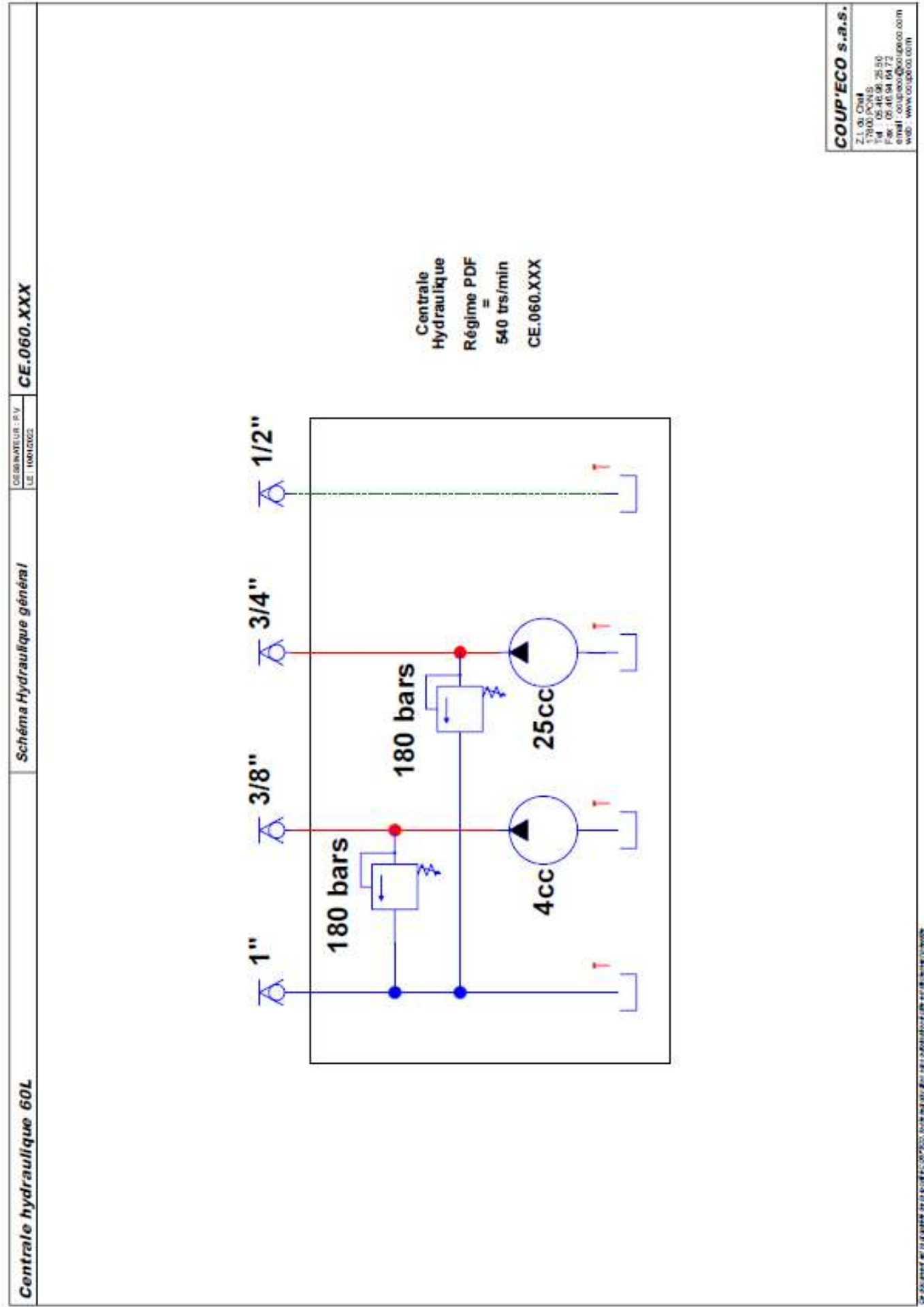
Improvements made by the company may have modified some of the parts listed in the present manual. The most recent part will always be supplied if it is interchangeable with the previous model.

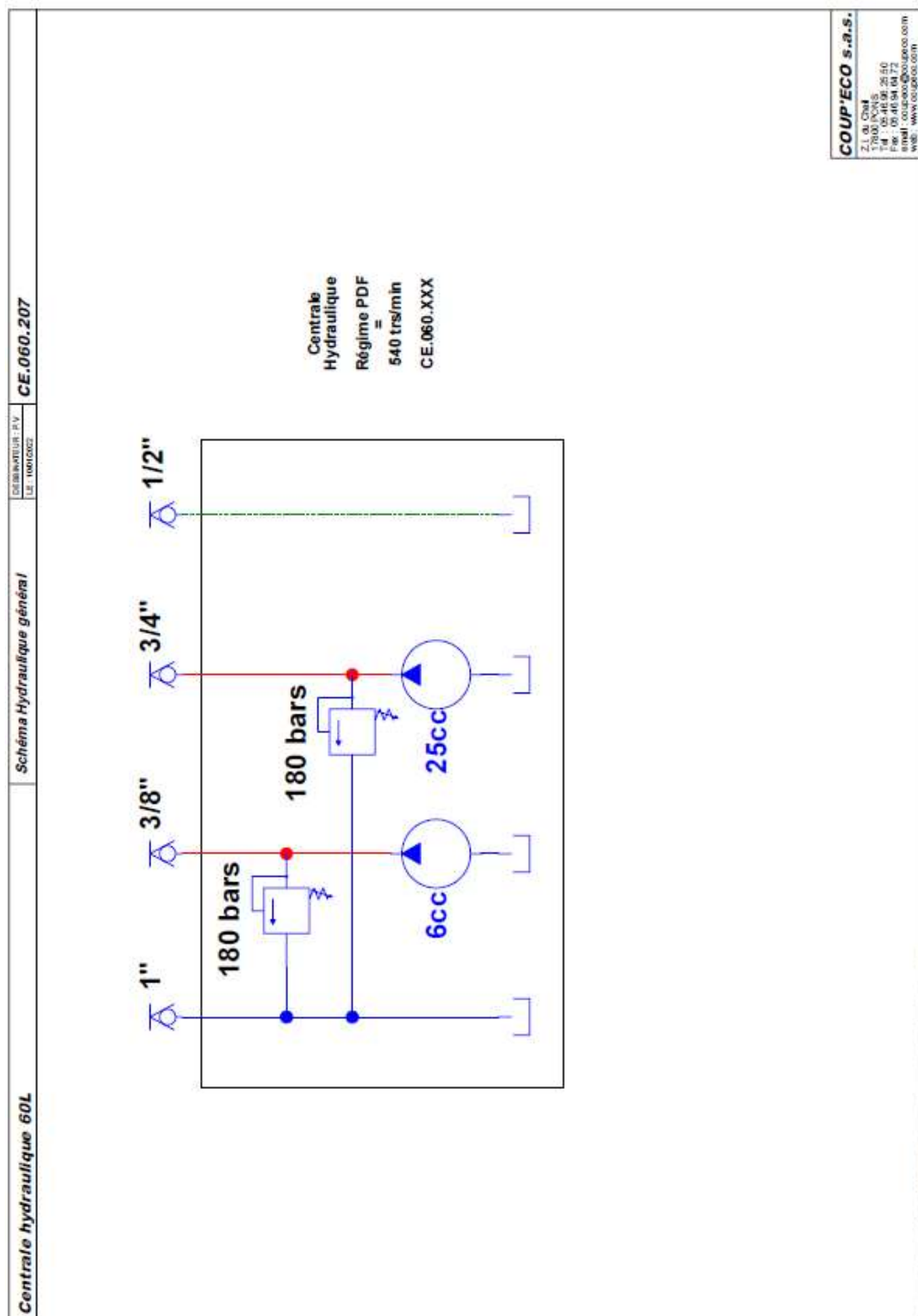
Do not hesitate to contact us for any information, as well as for special designs or products.

Description générale

Rep	Référence	Désignation	Qté
1	RE.060.05	Tank	1
2	RE.060.03.140	Crankcase cooler	1
3	AXE.25.19.180	Double diameter axle for 3rd point	1
4	25.410.600	Oil PANOLIN SPRINT 46 Bio 75L	75L
5	RE.060.03.C01	Rear protective casing hydraulic power unit	1
6	20.586.200	Protective bowl 21902 CE	1
7	F2-003	Return filter OMTF 100	1
	20.555.008	Filter cartridge 3B 25 microns 75 L/min	1
8	A1-500	Filler cap	1
9	20.557.004	Visual level E76 M12 A4-001	1
10	21.576.103	Clip pin D10x50	2
11	TH.440.A22	Eyebolt to screw 22	2
12	21.500.008	Paper gasket for pump Gr.2	1
13	20.620.038	Direct acting pressure relief valve 3/8 - 30L/min	1
14	20.620.039	Direct acting pressure relief valve 1/2 - 60L/min	1
15	21.630.726	Dual pump Gr2 25cc + 4cc (CE.060.206)	1
	21.630.732	Dual pump Gr2 25cc + 6cc (CE.060.207)	
16	21.640.505	Multiplier 1/3,5	1
	25.410.507	Oil IGOL HYPOID B SAE 80 w 90	0.25L
17	21.640.507	Coupling sleeve	1
18	RE.060.03.RE	Cooler + probe	1
19	25.550.057	Document holder	1
20	25.550.102	Ueuropean conformity plate	
21	21.576.101	Béta pin D4	1
22	21.052.708	Flat end screw STHC M10-60	4
23	21.036.526	Contact washer Ø10	12
24	21.020.504	Nut H M10	4
25	21.040.102	Flat washer Ø10	8
26	21.026.505	Brake nut H M10	4
27	21.067.702	Screw TH 8x20	6
28	21.036.529	Contact washer Ø8	6
29	21.031.502	Spring washer Ø8	4
30	21.075.705	Screw CHC M 8 x 40	4
31	21.067.801	Screw TH 10x20	8
32	BMGCY08PJ	Male plug ½ MGCY	1
OPTIONS			
	CE.060.SM100	Ground support	1
	RE.060.05.100	Cat 2 Cat 3 hanging	1









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**S.A.S. au capital de 100 000 €
R.C.S. SAINTES B 401 895 883
SIRET 401 895 883 00023
Code A.P.E. 285 D**

www.coupeco.com