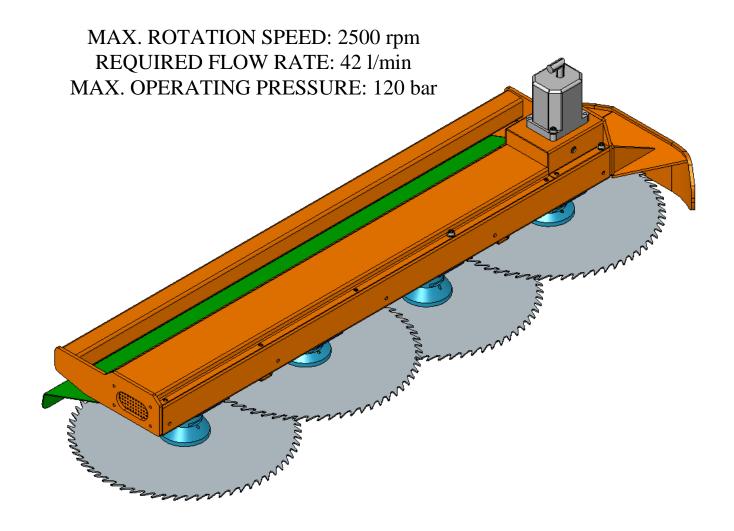


CUTTING SYSTEM 4500



USER'S MANUAL AND SPARE PARTS LIST

It is very important to follow the operating instructions

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1-/ Declaration CE of Conformity Concerning Equipment Covered by Self-Certification

2-/ FOREWORD

All our equipment is designed with the greatest care and manufactured with the best components, resulting in extreme reliability:

- Top-performance motor providing high output with proven durability.
- Blades machined from special steels for extra strength.
- Cutters featuring a special sharpening system and heat-treated for extra hardness.

The result is a range of ultra-professional tools tested to strict standards and suited to the toughest jobs.

Read the operating and maintenance manual before use.



- When starting or stopping blade rotation, the power take-off must be at minimum setting.
- The blade rotation speed must be between 2400 and 2500 rpm.
- The operating hydraulic pressure is 120 bar.

To minimise operating hazards and avoid incorrect operation it is essential for hedge cutter users to familiarise themselves with this handbook

3-/ INTRODUCTION

You are now in possession of your new hedge cutter . Thank you for choosing our product. We hope it provides you with the total satisfaction you are entitled to expect from high-performance equipments.
The operating, maintenance and spare part manual contains the information you need in order to: - benefit from the best operating conditions and advanced technical features of your equipment, - obtain optimum operation through the simple but thorough application of maintenance recommendations, - remedy as quickly as possible small operating problems not requiring specialist attention.
The short time you spend reading this manual will be more than rewarded by the informatio you gain from it. If some points are still not clear, our after-sales technicians will be pleased to provide any additional information.

4-/ SAFETY INSTRUCTIONS

Never allow inexperienced operators to use the machine unsupervised.

Never stand below the cutting section in raised position.

Never cut the top of a hedge with the blades or flail cutters pointed towards the operator.

Never continue using the blades if a wire becomes entangled in them.

Never use the blades or rotary flails without the rear protective casing.

Never exceed the recommended blade operating speed of 2500 rpm.

Never stop the thermal motor with the power take-off engaged.

Never move along the road without fitting the blade protection cover delivered with the equipment.

Never use a blade that no longer cuts.

Always inspect the work area or hedge to check for wires, metal posts, large stones, bottles and other dangerous objects. Remove these objects before starting work.

Always keep people away from the machine during cutting operations. Set up warning signs indicating moving plant at work. Set up a safety area with a radius of at least 100 metres.

Always check that nuts and bolts are tight and that the blades have no cracks.

Always replace damaged flails as soon as vibration is noticed. Flails must always be replaced **in pairs** to keep the disc balanced.

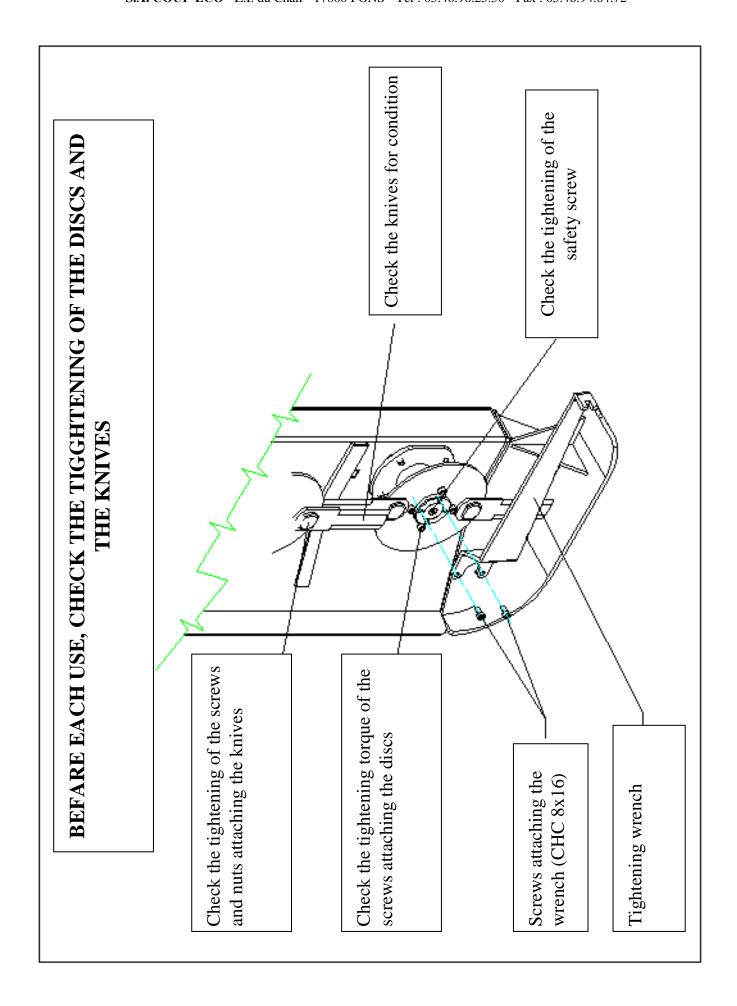
Always disengage the power take-off and stop the tractor motor before making adjustments.

Always stay alert when working close to overhead obstacles, especially high voltage lines.

Never, under any circumstances, use the floating position of the head, the oleopneumatic arm suspension or the automatic return system if the verge cutter is fitted with this equipment.



One of the principal features of the equipment is its cutting capacity. Strict compliance with the constructor's data is therefore essential.



5-/ DESCRIPTION OF EQUIPMENT

The cutting bar 3500 need 35 l/min at 140 bar max to be operated

Specifications:

Length1.60 mWeight89 kg.Required flow rate (if delivered with motor)42 l/mnOperating pressure (with pressure limiter)120 bar

Blade rotation speed 2400 to 2500 rpm

 $\begin{array}{ccc} \text{Drive power} & 12.5 \text{ Hp} \\ \text{Max. pressure on motor drain} & 2.5 \text{ bar} \\ \text{Blade diameter} & 500 \text{ mm} \\ \text{Blade thickness} & 3 \text{ mm.} \\ \text{Gears motor} & 17 \text{ cm}^3/\text{rev.} \\ \text{Linear speed} & 65 \text{ m/s} \\ \text{Motor filter} & 10 \text{ } \mu\text{m} \\ \end{array}$

Series equipment:

4 saw blades, diameter 500 mm. 96 reclined teeth, thickness: 3 mm.

Optional equipment:

Flail plate.

Recommended uses:

Flail plate: - cutting green wood: branches Ø25 mm,

- cutting dry wood: branches Ø20 mm.

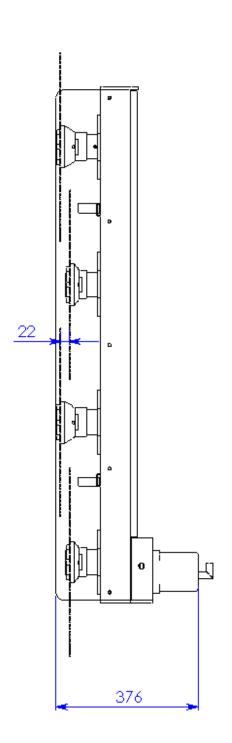
Saw blade: cutting branches Ø5 to Ø50 mm.

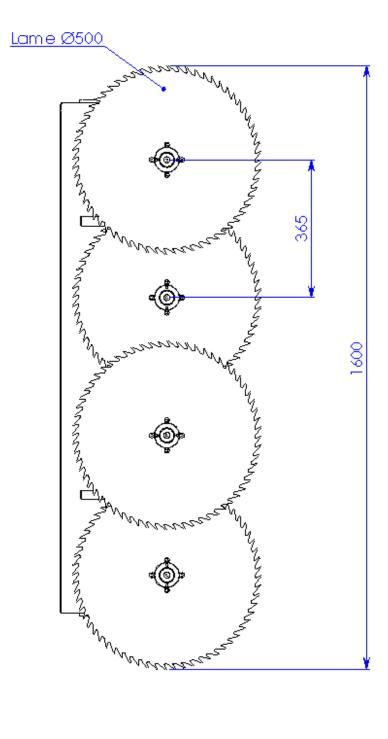
It is essential to choose the suitable cutting tool for the work to be carried out.

Once the blade is engaged, to avoid damage to the equipment, the work must always be carried out in the direction of the blade. It is strictly forbidden to change the angle during the cut. Incorrect operation may result in buckled or possibly broken blades.

High-quality work and user safety can only be achieved if the cutting tools are correctly serviced. Likewise, blunt cutting edges make a greater demand on the hydraulic and mechanical components and causes them to wear out more rapidly. Parts damaged under these circumstances will not be covered by the guarantee.

S.A. COUP'E(Fax: 05.46.94.64.72





6-/ INSTALLATION AND START-UP

6-1 / Installation Procedure

Only use hydraulics kits provided by the manufacturer (in the contrary case guarantee couldn't apply)

Only use fitting plates provided by the manufacturer (in the contrary case guarantee couldn't apply)

When securing the hedge cutter to the verge cutter it is essential to place the hedge cutter on a level, horizontal floor with the blades facing the floor.

Regardless of the type of verge cutter, the fitting plate must first be secured to the support tube, preferably level with the second blade.

If the verge cutter is not a two-way model, check that the supply and return hoses are in the correct position and allow the blades to rotate in the correct direction.

6-2 / Start procedure:

For the first start, don't forget the elementary instructions:

With cold engine:

- Start up with the idling engine.
- Make turn the equipment during 5 mn to average mode, in order to put oil and the transmission in temperature (blades with 1500 rpm).

At the end of the work:

Before the shutdown, it is essential to go down again the mode at least, and only after carrying out the cut of engine supply.

It is important that the feeding circuit of the engine is equipped with a limiting device of pressure calibrated at 120 bars (protection in the two directions of rotation). During a blocking, it is essential to reduce the mode of engine supply and to cut the engine supply at once. It is then necessary to carry out a reverse gear to give off the blades, then to give in rotation, catch of force to the idle.

In all cases, never increase, decrease or reverse brutally the hydraulic engine supply.

7-/ WORKING WITH THE HEDGE CUTTER

7-1/ Choosing the Forward Speed

The forward speed depends on the type of vegetation and its density. It also depends on the condition of the terrain over which the tractor is moving. For denser vegetation with larger branches the forward speed must be slower. Similarly, the forward speed must be reduced over uneven terrain. In general, we recommend a forward speed of 1 to 2 kph.

7-2/ Choosing the Rotation Direction

- For vertical cutting, the blades and plates must cut in an upward direction for the best cutting quality.
- For horizontal cutting, the blades and plates must rotate in such a way that debris is thrown away from the user.



Our general recommendation is to box in the cabin for protection against flying debris and falling branches.

7-3/ Start-up Procedure

Each time the hedge cutter is started up, apply the following basic rules:

- Remove the blade protection casing.
- Check that there is no obstacle or person near the blade.
- Start up the hedge cutter with the thermal motor operating at reduced speed.
- Operate the equipment for 5 minutes at a mid-range speed to bring the oil and transmission up to temperature (blades rotating at 1500 rpm).
- To start working, set the tractor motor speed to the value recorded during calibration.

7-4/ Precautions During Use

- * During use, we recommend the following precautions if the blades become entangled in the branches:
 - Keep the tractor on course
 - Do not try to correct the reach or height of the verge cutter arm.
 - Set your speed according to the size of the branches.
- * It is preferable to start working from the bottom: the vegetation will then drop away vertically from the cut.

WARNING: Working at ground level is strictly forbidden.

- * When cutting thick branches, the tractor must be kept as far away as possible to avoid any damage to it. We recommend cutting thick branches in several stages.
- * If the blades jam you must:
 - stop the hedge cutter
- extract all the equipment by moving the tractor out rather than retracting the arm or changing the cutting angle.
- * WARNING: Poorly serviced blades and rotary flails will not cut well and will damage the hedge cutter transmission.

7-5/ After Work

Before switching off the hedge cutter, it should be left to run for 5 minutes with the blades facing upwards so that the roller bearing at the top of the bearing block is well lubricated.

Before switching off the motor, it is essential to reduce the power take-off speed to the minimum. Only then can the motor power supply be switched off.

7-6/ Transport Position

The hedge cutter is supplied with a blade protection casing which must be fitted on the hedge cutter each time it is transported as soon as work stops.

Before switching off the motor, it is essential to reduce the power take-off speed to the minimum. Only then can the motor power supply be switched off.

8-/MAINTENANCE AND ADJUSTMENT

8-1/ Lubrication

- All the bearings are greased during assembly at the factory for a period of 150 hours.
- Greasing frequency: every 100 hours of operation.
- Quantity of grease: 18 grams per bearing (3 pump strokes).
- Approved grease: IGOL Rally GREASE with synthetic agents (420g pack)
- Use the grease gun designed for the purpose.
- The bearings should be greased with the equipment in the vertical position.
- Whenever work (maintenance, disassembly and reassembly) is carried out on the blades or rotary flails, apply grease to thread of the nuts securing the plates.

Tightening torque for CL 8.8 screws

Screw M8	1.94 m. kg
Screw M10	3.87 m. kg
Screw M12	6.75 m. kg
Screw ½ (flail screw)	11 m. kg
Nuts M24x150 (grooved wheel nut)	18 m. kg

WARNING:

The belts are not covered by guarantee

8-2/ Troubleshooting

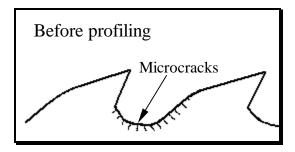
FAILURE	CAUSES	REMEDIES
Damaged belts	- Jammed blade	Determine the exact cause
	* Blade striking an obstacle (rock, post,	Change the damaged belts
	etc.)	
	* Incorrect action while cutting a thick	
	branch	
	*Blades not sharpened or incorrectly set	
	- Working with flails on thick wood	
	- Using incorrect blade rotation speeds	
	(2500 rpm)	
	Too fast or too slow	
Damage to a bearing:	- Violent impact with an obstacle	Remove the bearing and repair:
Broken rod	- Moving the hedge cutter when the blade is	be careful to change all
	engaged in a thick branch	damaged parts
	- Bearing seized: Incorrect lubrication	
None of the bearings	- Check that the hydraulic supply to the	- Check machine connection
turn	motor is correct.	and circuit
	- Motor cotter broken	- Change the cotter. Check
		condition of shaft and ½
		coupling
	- Flexible coupling destroyed.	- Change the coupling and
		check condition of other parts
Unusual noise in the	- Coupling damaged	- Change the coupling and
hedge cutter		check condition of other parts
	- Grooved wheel loose	- Check the condition of the
		grooved wheel, cotters, shaft
		and grooved wheel insert and
		re-tighten correctly.
Leak on motor shaft	Motor drainage pressure	- If couplings are used for
		connection, check they are fitted
		correctly.
		- Check that drainage is direct
		to the tank without passing
		through the filter.
		- Check that the drainage pipe is
		not damaged, pinched, etc.

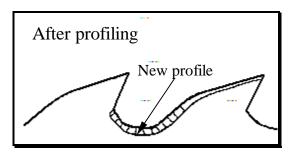
8-3/ Blade Sharpening:

Once every three days under normal operating conditions.

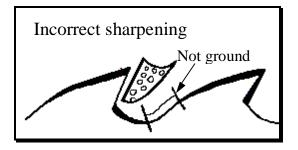
Frequent sharpening ensures that the blades stay in top condition and optimises work safety.

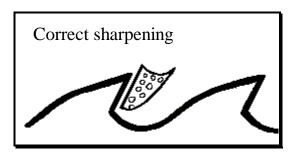
- high cutting capability for easy and straight cutting,
- less effort during cutting, less fatigue on the blade body, ensuring that it stays level and rigid for a longer time and reducing the risk of cracking.



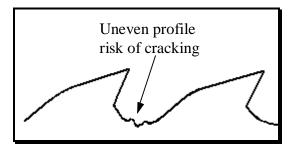


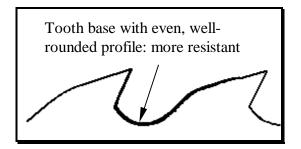
Before tooth setting, grinding or stelliting operations, profile the tooth carefully on the sharpener, using a few light strokes to remove microcracks produced by the cutting tool around the rim of the teeth. If this precaution is not taken, the teeth may break during setting or chip during grinding. In addition, cracks may spread from the base of the teeth into the blades during cutting.





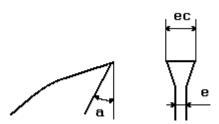
Surface blades are delivered pre-sharpened. Their first operation should therefore be kept relatively short and followed by re-profiling and sharpening with a few light strokes. Cracking at the tooth base often results from poor profiling during which the sharpening wheel has not removed the traces of fatigue in the metal at the tooth base.





Sharpening must not create an uneven profile, hollows, humps or facets likely to reduce the strength of the blade and therefore initiate cracking. It is especially important to produce an even, well-rounded tooth base. A suitable grinding wheel must be used, making several strokes with moderate pressure to avoid "burning" the steel.

Choosing a suitable blade for the wood to be cut:



Wider track and angle of attack for soft wood:

 $\mathbf{a} = 24 \text{ to } 30^{\circ}$

 $ec = (e \times 1.8 \text{ to } 2)$

Narrower track and angle of attack for hard wood:

a = 20 to 24°

 $ec = (e \times 1.8 \text{ to } 2)$

Note: The values given are average values and may vary in special cases.

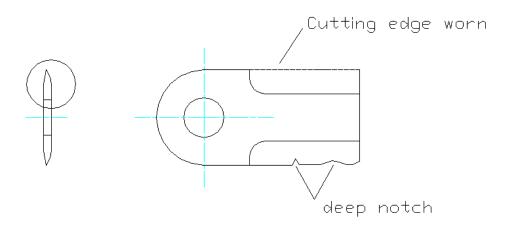
7-4/ Sharpening Flail Cutters

When using new cutters, whether on first start-up or after replacing, the cutting edge should be reworked with a fine file.

A well-sharpened cutter will make a cleaner cut and will have a longer life.

The condition of the flails should therefore be checked every day, replacing them if they are damaged (deep notches) or sharpening them if the cutting edge is marked.

If an obstacle (piece of metal, concrete post, stone, etc.) is struck during work, it is essential to stop and change the damaged flails.



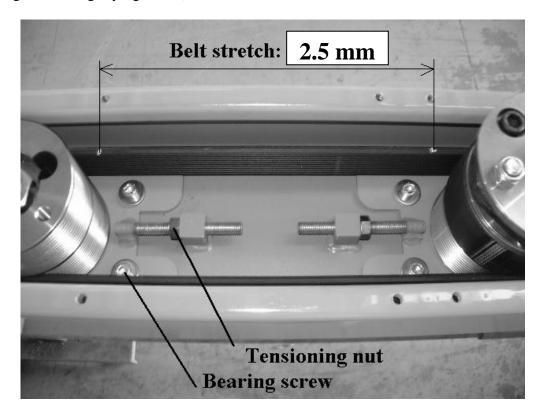
Cutting edge profil after sharpening



It is imperative to replace the bolts at each change of knives with knives

8-5/ Checking Belt Tension

- Place the equipment horizontally, preferably on the ground or on a stand.
- Remove the two top casings.
- Relax the 2 bearings (but not the motor bearing) by loosening the treaded rods (there is no need to remove the blades or rotary flail plates). For easier adjustment, all the inside screws are accessible from above.
- Tighten the belt slightly and make two marks on one side of it, 300 mm apart. Next tighten the threaded rod until the distance becomes 302.5 mm. Tighten it 3 or 4 turns by hand, then check the distance again. Repeat this operation until the distance of 302.5mm is obtained (carrying out tensioning with the 4 bearing screws slightly tightened).



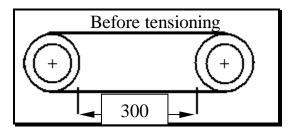
- Tighten the bearing screws and the counter-nut on the threaded rod.
- Repeat this operation on the other bearings.

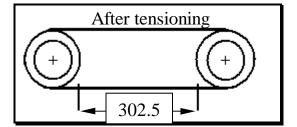


If the motor bearing is removed, it must be centred on the motor, before any other operation is carried out. It must be in the axis of the motor (no force should be required to remove or refit the motor)

8-6/ Changing the Belts

The operations are the same as above except that motor brace must be removed to allow the belts to be removed, and then re-centred on the motor.





8-7/ Fitting the belts

- Remove the worn belts.
- Clean the inside of the hedge cutter thoroughly.
- Check the condition of the roller bearings and bearing block seals.
- Check the condition of the grooved wheel furrows and make sure they contain no foreign matter.
- Proceed gradually, always starting from the motor shaft.
- Fit the belts.
- Before any tensioning operation, centre the fixed bearing (motor).
- The motor must be situated exactly in line (no force should be necessary to remove or refit it).
- For easier tensioning, remove the motor.
- To tension the belt, use the inward-facing tensioning nut on each bearing block.
- Tighten the belt slightly and make two marks 300 mm apart on the slack side.
- Tighten the belt until this distance is 302.5 mm.
- Rotate the blades manually 2 or 3 turns.
- Check the distance and repeat the operation if it is not correct.
- Tighten the bearing screws and go on to the next bearing.

After working on the cutter bar that required the removal of the covers, it is imperative to back the covers with all the screws

Putting into storage, with or without the verge cutter

Clean and grease the hedge cutter thoroughly, leave it to operate for 10 mn, then disconnect the hydraulic kits and fit the protective casings. Store in a dry place providing protection against knocks.

We also recommend wiping the blades with an oil-soaked rag before storage. This will protect them against rust and extend their operating life.

If the hedge cutter is removed from the verge cutter, it should be stored on a flat floor resting in horizontal position on two beams or a pallet, with the blades facing downwards.

If the hedge cutter is left on the verge cutter, store the verge cutter on a flat floor at an angle that guarantees its stability (see Verge cutter Storage).

If a part has to be removed, the openings left must be plugged to prevent foreign matter entering. The length of the machine's operating life depends on keeping the hydraulic circuit clean.

9 -/ GUARANTEE CONDITIONS

- The guarantee provided by COUP'ECO is for a duration of **1** (**one**) **year** from the date that the equipment is made available at our factory. It only covers manufacturing defects confirmed by our own examination and only commits us to dispatching parts for those recognised as being faulty (excluding labour) and without liability to pay compensation for down-time.
- Faulty assemblies or subassemblies must be returned to the after-sales service within 8 days of the incident, accompanied by a guarantee request:

Complete and not dismantled for a STANDARD REPLACEMENT request Complete and not dismantled for a GUARANTEE request

- Carriage and packing costs for faulty parts, as well as new parts replaced under guarantee will be entirely at the buyer's expense.
 - Repair or replacement of parts during the guarantee period does not extend its period of validity.
 - All faulty parts replaced by a new part remain the property of COUP'ECO.
 - The seller shall not be liable to pay compensation to the buyer for damage suffered, such as:
 - Personal injuries,
 - Damage to goods other than those covered by the contract.
- The guarantee does not cover everyday wearing parts such as blades, cutters, hoses, etc. or parts damaged accidentally or as the result of inadequate maintenance or failure to follow equipment operating instructions.
 - The guarantee expires:
 - If replacements or repairs are made by third parties or the buyer himself, without the seller's written consent,
 - If parts fitted by the constructor are replaced by parts from a different source,
 - If equipment is modified or transformed in any way by any person.
- We reserve the right to make any modifications to our models that we consider necessary, without being under obligation to make these modifications on equipment already delivered.
- In the event of disputes concerning the supply or payment for it, the Commercial Court of SAINTES is the only competent court, regardless of conditions of sales and means of payment accepted, even if the dispute concerns the guarantee or if there are several defendants.
- By express agreement, we remain the owner of delivered goods until they are fully paid for, under the terms of Law No. 80.335 of 12 May 1980.

10-/ SPARE PARTS LIST

Whenever maintenance work is carried out on the hedge cutter, it is essential to contact us to avoid any wrong actions.

For top performance, use COUP'ECO spare parts. This will give users the benefit of the latest developments.

Buy your spare parts from the COUP'ECO original part constructor via your importer or regional approved dealer.

Always mention the type of machine, serial number and part reference number.

Developments made by our company may result in modifications to some parts mentioned in this manual. We always supply the most recent part if it is interchangeable with the previous model.

Please contact us for any additional information you require and also for special studies or products.



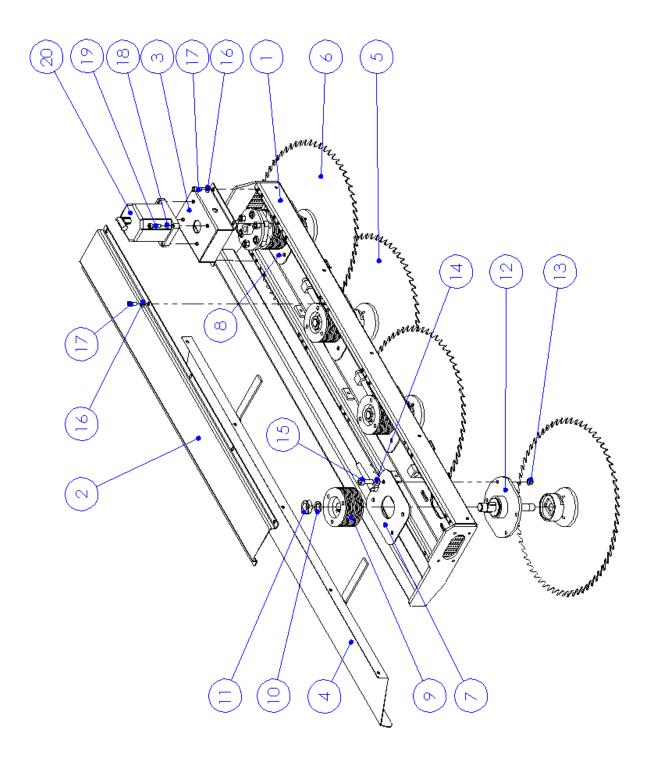
The constructor disclaims all responsibility if the equipment is used in a manner contrary to the recommendations made in this manual.

The user must observe general hygiene and safety rules.

Other measures may be required in addition to our advice and safety rules.

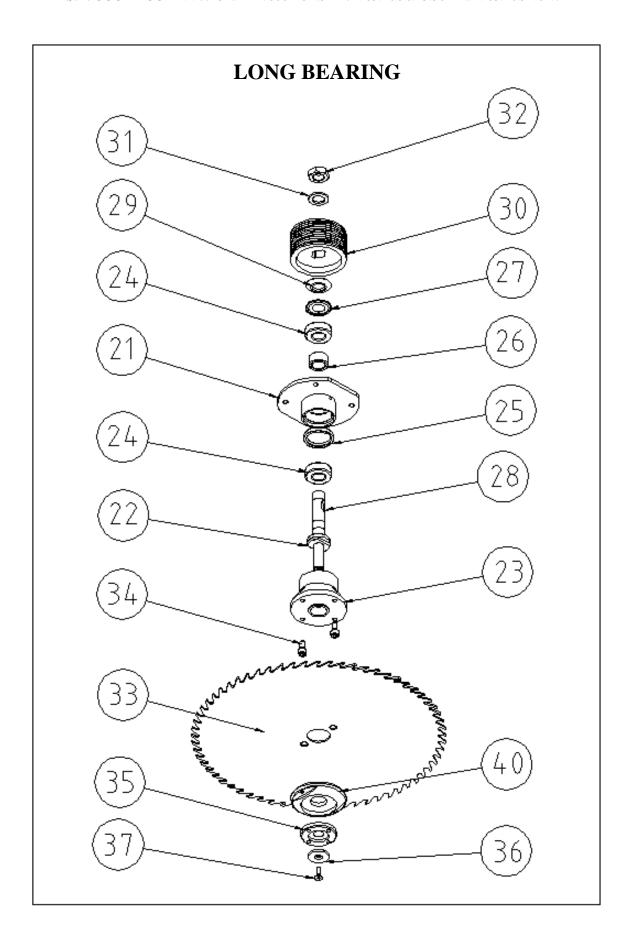
10-1/ Parts list, 4500 mm cutter bar

REFERENCE	PART NAME	ITEM
	4500 Hedge cutter case	
30.510.400	Bare case 4500	1
30.510.420	Hedge cutter cover,	2
30.510.130	Motor seat	3
30.510.440	Rear protective casing 4500	4
30.510.160	Foot Hedge cutter	5
30.510.241	Beam fastener (outside)	6
30.510.240	Beam fastener (inside)	7
30.510.127	Bearing tensioning plate	8
30.510.125	Bearing tensioning plate for motor	9
21.036.526	Contact washer 10x20	10
21.075.805	Screw CHC 10x35	11
21.026.505	Locking nut M10	12
21.750.501	Grooved Belt	13
21.036.529	Contact washer 8x22	15
21.075.701	Screw CHC 8x20	16
21.031.502	Thick washer 8	17
21.075.703	Screw CHC 8x30	18
21.620.805	Gears motor 17cc	20
30.510.522	Hedge cutter cover, large side	22
30.510.450	Blade casing 4500	
35.600.601	Saw blade Ø500 mm. 96 reclined teeth, thickness: 3 mm	
21.067.702	Screw TH 8x20	
21.036.529	Contact washer 8x22	
30.511.4T80	Square support tube, 80 mm for 4500	
30.511.4T70	Square support tube, 70 mm for 4500	
30.511.4T50	Square support tube, 50 mm for 4500	
	Pressure limiter (not shown) (option)	

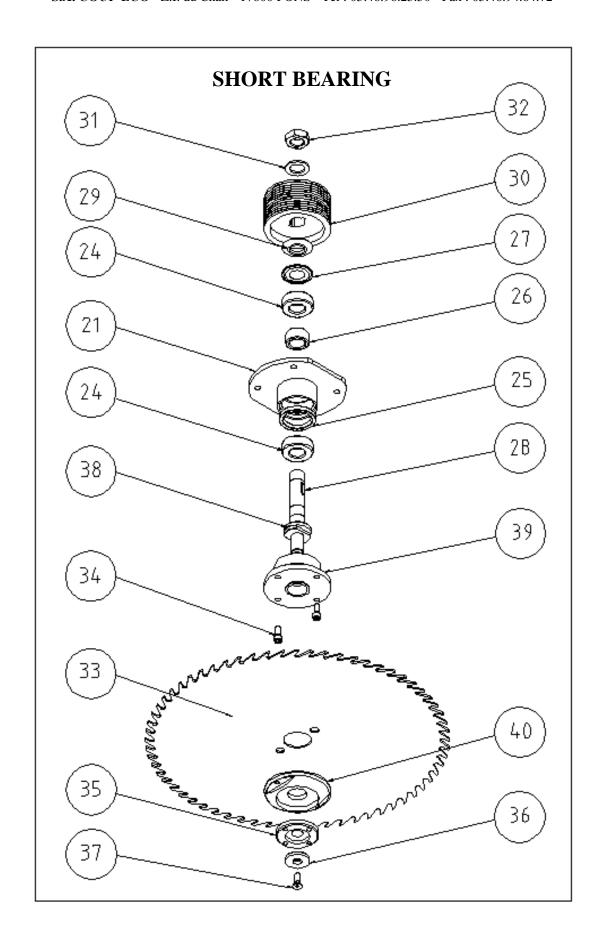


10-2/ Installing the bearings

REFERENCE	DESIGNATION	ITEM
	Long bearing mounting	
30.510.203	Casing, 500	21
30.510.206	Shaft, 500 mm long	22
30.510.208	Backing flange, 500, long offset	23
21.675.603	Bearing	24
20.581.808	Lip seal, 45x60x6.5 IE	25
30.510.204	Lubrication spacer, 500	26
21.675.505	Nylos seal	27
21.560.525	Key 8x7x25	28
30.510.207	Pulley spacer, 500	29
30.510.202	Poly V L5 pulley Ø110 alu, 2 keyed assemblies	30
21.046.502	NordLock washer NL 24	31
21.029.103	Nut, HM 24x150, bottom	32
35.600.601	Blade Ø500 mm, 3 mm thick	33
21.075.803	Screw, hex skt head 10x25	34
30.510.211	Tightening nut	35
30.510.212	Safety washer	36
21.085.108	Safety screw, TFHC 1/4 x1" UNF 10.9	37
TH.440.914	Tightening flange, alu	40
21.020.506	M14 nut for tension plate	



REFERENCE	DESIGNATION	ITEM
	Short bearing mounting	
30.510.203	Casing, 500	21
30.510.205	Short shaft, 500	38
30.510.209	Backing flange, 500, short offset	39
21.675.603	Bearing	24
20.581.808	Lip seal, 45x60x6.5 IE	25
30.510.204	Lubrication spacer, 500	26
21.675.505	Nylos seal	27
21.560.525	Key 8x7x25	28
30.510.207	Pulley spacer, 500	29
30.510.202	Poly V L5 pulley Ø110 alu, 2 keyed assemblies	30
21.046.502	NordLock washer NL 24	31
21.029.103	Nut, HM 24x150, bottom	32
35.600.601	Blade Ø500 mm, 3 mm thick	33
21.075.803	Screw, hex skt head 10x25	34
30.510.211	Tightening nut	35
30.510.212	Safety washer	36
21.085.108	Safety screw, TFHC 1/4 x1" UNF 10.9	37
TH.440.914	Tightening flange, alu	40
21.020.506	M14 nut for tension plate	



Fitting the Nord-Lock washers

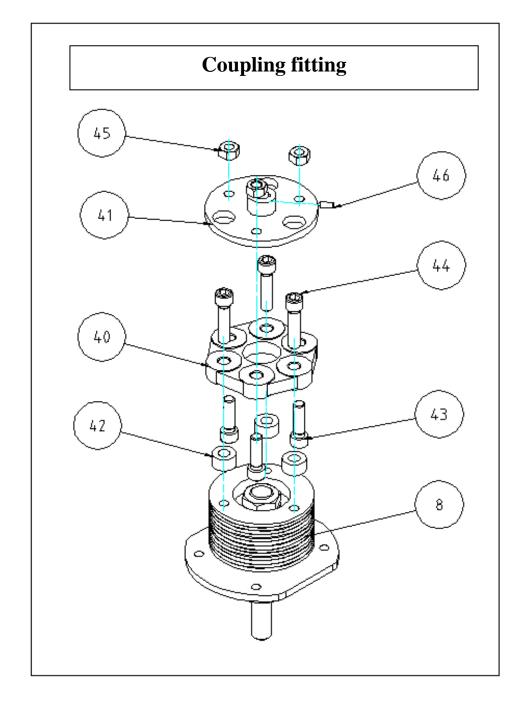
Nord-Lock washers

Flat nut HM 24

- Nord-Lock washer fitting (Installed in pairs)
- Note the direction (wide faces opposite)
- Do up the HM nut (tightening torque 28 m.kg)

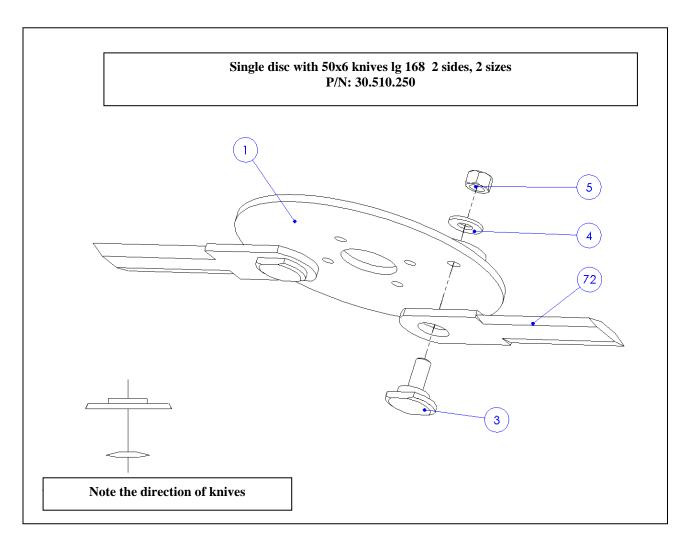
10-3/ Coupling fitting

REFERENCE	DESIGNATION	ITEM
	Coupling fitting	
21.667.503	Flector, 633	40
30.510.210	Half-coupling, 633	41
30.610.553	Coupling spacer	42
21.075.206	Screw, hex skt head 12x40	43
21.075.207	Screw, hex skt head 12x50	44
21.026.506	Locknut, M12	45
21.052.502	Screw, hex skt head 6 x16	46
	Engine bearing (long)	8



10-4/ Fitting discs

REFERENCE	DESIGNATION	ITEM
30.510.250	Single disc	
	with 2-side, 2-size knives	
30.510.225	Unequipped single disc	1
30.600.204	Complete bolt for knives	2
30.600.202	Screw stamped 1/2 for knife	3
21.031.602	Grower washer, 1/2	4
21.025.502	Nut, HU 1/2 UNF	5
30.700.451	2-side, 2-size knife, 50x6x168	72



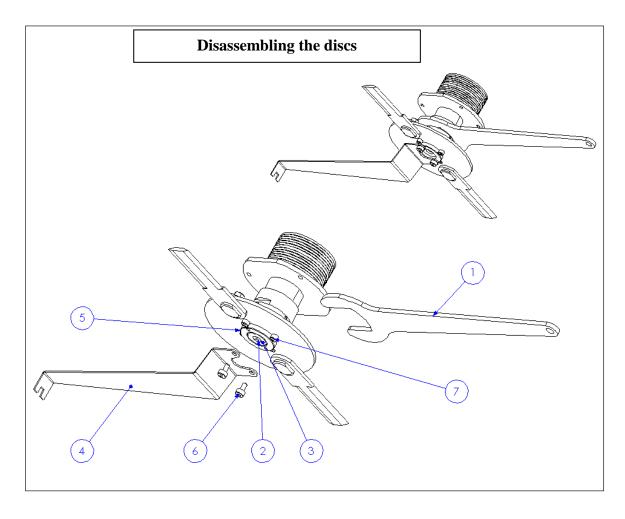
It is essential to replace the knife attaching bolts each time knives are replaced

10-5/ Tools

REFERENCE	DESIGNATION	ITEM
30.510.250	Single disc	
	with 2-side, 2-size knives	
30.510.225	Unequipped single disc	1
30.600.204	Complete bolt for knives	2
30.600.202	Screw stamped 1/2 for knife	3
21.031.602	Grower washer, 1/2	4
21.025.502	Nut, HU 1/2 UNF	5
30.700.451	2-side, 2-size knife, 50x6x168	72

Procedure for removing discs

- Fit the holding wrench (*item 1*) in the slots of the backing flange
- Remove the safety screw (item 2) and safety washer (item 3)
- Attach the tightening wrench (*item 4*) to the tightening nut (*item 5*) with the 2 attaching screws (*item 6*)
- Unscrew the tightening nut
- Undo the disc attaching screws (item 7)
- Remove the disc



Blade fitting procedure:

- Fit the 2 blade drive screws (*item 7*)
- Fit the blade (item 8) on the backing flange centring part
- Fit the tightening flange (item 9)
- Tighten the assembly with the tightening nut (*item 5*)
- Fit the holding wrench (item 1) on the backing flange
- Attach the tightening wrench (item 4) to the nut with the 2 attaching screws (item 6)
- Firmly tighten: 28 mKg
- Fit the safety washer (item 3) with the safety screw (item 2)

