



Características

El chasis asegura cortes rectos a la vez que resiste deformaciones y vibraciones, prolongando la vida útil de la máquina. Diseñado ergonómicamente, manecillas confortables y ajustables en altura. Manivela para subir/bajar la profundidad del corte de una manera fácil. La protección especialmente diseñada con bisagras, se levanta hacia arriba, proporcionando una sustitución fácil del disco. Su gran depósito de agua proporciona un flujo y un volumen óptimos de agua al disco. Válvula de control reguladora como parte estándar.

Specifications

Super-rigid box frame ensures straight cuts while resisting warping and vibration prolongs saw life, extends blade life. Ergonomically designed, height adjustable handles with comfortable grips. Easy crank for raising / lowering cutting depth. The blade protection specially hinge designed, rises upwards providing an easy disc replacement. Large water tank provides an optimum flow and volume of water to the blade. Valve water control as standard part.

CARACTERÍSTICAS TÉCNICAS TECHNICAL SPECIFICATIONS

Modelo / Model	CA-500
Motor / Motor	Honda GX 390
Potencia / Power	13 Hp
Peso / Weight	125 Kg
Profundidad de corte máx. / Max. incising depth	125 - 175 mm
Tamaño disco (ø eje / ø disco) / Blade size (ø axel / ø blade)	ø 25,4 / ø 400 - 500 mm
Capacidad del depósito del agua / Weight	40 L.



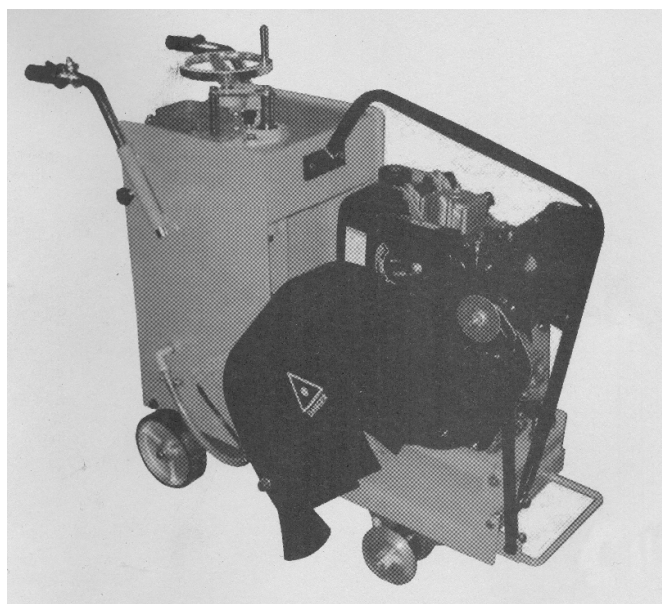


FAMCO
هایپر صنعت

INDUSTRIAS TECHNOFLEX SA

<http://www.technoflex.es/>

Cortadora de Asfalto CA-500
Concrete Cutter CA-500



Manual de Instrucciones / Lista de Recambios
Instruction Manual / Spare Parts

MAQUINARIA PARA LA CONSTRUCCIÓN Y OBRAS PÚBLICAS
BUILDING AND PUBLIC WORKS MACHINERY

www.famcocorp.com

E-mail: info@famcocorp.com

@famco_group

Tel: ۰۲۱ - ۴۸۰۰۰۰۰۴۹

Fax: ۰۲۱ - ۴۴۹۹۴۶۴۲

تهران، کیلومتر ۲۱ بزرگراه لشکری (جاده مخصوص کرج)

روبروی پالایشگاه نفت پارس، پلاک ۱۲

Este manual contiene información y procedimientos que son necesarios para utilizar y mantener esta máquina. Para su propia seguridad y protección, por favor lea cuidadosamente, entienda y observe todas las instrucciones de seguridad descritas en este manual. LOS DATOS CONTENIDOS EN ESTE MANUAL SON CORRECTOS EN EL MOMENTO DE SU EDICIÓN. NO OBSTANTE EL FABRICANTE SE RESERVA EL DERECHO DE MODIFICAR LAS CARACTERÍSTICAS, SIN PREVIO AVISO A FAVOR DEL COMPROMISO DE MEJORA CONTINUA.

This manual provides information and procedures to safely operate and maintain this machine. For your own safety and protection from injury, carefully read, understand and observe the safety instructions described in this manual. THE INFORMATION CONTAINED IN THIS MANUAL ARE CORRECT FROM THE MOMENT OF EDITING. HOWEVER THE MANUFACTURER RESERVES THE RIGHT TO MODIFY THE CHARACTERISTICS, WITHOUT PRIOR NOTICE IN CONSIDERATION OF CONTRACT COMMITMENT OF CONTINUOUS IMPROVEMENT.

Mantenga este manual ó una copia de él con la máquina. Si se pierde ó Ud. desea un ejemplar adicional haga el favor de comunicarse con INDUSTRIAS TECHNOFLEX S.A. Esta máquina fue fabricada con la seguridad del usuario en mente; sin embargo, situaciones peligrosas pueden presentarse si la máquina es utilizada inapropiadamente. Siga las instrucciones de utilización cuidadosamente. Si Ud. tiene preguntas ó dudas acerca de la utilización o mantenimiento de este equipo, haga el favor de comunicarse con INDUSTRIAS TECHNOFLEX S.A.

Keep this manual or a copy of it with the machine. If you lose this manual or need an additional copy, please contact INDUSTRIAS TECHNOFLEX S.A. This machine is built with user safety in mind, however, it can present hazards if improperly operated and serviced. Follow operating instructions carefully! If you have questions about operating or servicing this equipment, please contact INDUSTRIAS TECHNOFLEX S.A.

1.1 Safety Notes

This manual contains CAUTIONS and WARNINGS which must be followed to prevent the possibility of improper service, damaged to the equipment, or personal injury. Read and follow all the CAUTIONS and WARNINGS included in this instructions manual.



WARNING: Warnings warn of conditions or practices which could lead to personal injury.

1.2 Warning and Safety Instructions

Read All Instructions



WARNING

Familiarity and proper training are required for the safe operation of this equipment! Equipment operated or serviced improperly or by untrained personnel can be dangerous! Read all operating instructions and the safety notes below. Familiarize yourself with the proper use of this equipment before operating it.

Sound Specifications

The required sound specifications, called-for by the EC-Machine Regulations per Appendix 1,

Paragraph 1.7.4 f, are :

- Sound pressure level at the operator's location $L_{PA}=92$ dB (A)
- Sound power level $L_{WA}=105$ dB (A)

The sound values were determined according to ISO 3744 for the sound power level (L_{WA}) and, alternately, ISO 6081 for the sound pressure level (L_{PA}) at the operator's location.

The weighted effective value of acceleration, determined according to 8662, Part 1, is, $3,5m/s^2$

The noise and vibration data were determined while the machine was cutting concrete at a depth of 30mm with the engine running at nominal speed.

1. NEVER operate with the rammer for other application that cutt concrete.
2. NEVER allow improperly trained people to operate this equipment. People operating this equipment must be familiar with the potential risks and hazards associated with it.
3. NEVER touch engine or muffler while the equipment is operating or immediately after it has been turned off. These areas get hot and may be cause burns.
4. NO use accessories or attachments, wich are no recommended by **INDUSTRIAS TECHNOFLEX S.A.** for this equipment. Damage to equipment and/or injury to user may result.
5. DO NOT touch any parts of the engine when it is working or within short time after it stops, for the temperature of these parts are very high when it works. Satorage and transportation after it is cooled is acceptable.
6. NEVER operate machine with the belt guard missing. Exposed drive belt and pulleys create potentially dangerous hazards that can cause serious injuries.
7. NEVER leave machine running unattended.
8. NEVER run machine indoors or in an enclosed area unless adequate ventilation, through such items as exhaust fans or hoses, is provided. Exhaust gas fram the engine contains poisonous carbon monoxide gas; exposure to carbon monoxide can cause los s of consciousness and may lead to death.
9. ALWAYS keep hands, feet, and loose clothing away fram moving parts of equipment.
10. Keep your work area clean and free of clutter.
11. Keep your work area well lit.
12. NEVER operate motor in areas exposed to flammable or explosive liquids or gases! The motor brushes spark during operating and could ignite fumes.
13. DO NOT allow children or people other than the operator to handle power cables, extension cords or the equipment.
14. DO NOT allow children or people other than the operator to handle power cables, extension cords or the equipment.
15. DO NOT allow non-essential personnel or visitors in the work area.
16. Wear protective clothing when operating equipment. Goggles or safety glasses will protect against eye damage caused by flying debris.
17. DO NOT force tool. Use the correct tool for which it is designed.
18. NEVER allow untrained personnel to operate or service the equipment.
19. Maintain tools with care. Keep vibrator unit clean for better and safer performance. Inspect motor cord periodically and if damaged, have it repaired by an authorized service facility.
20. NEVER use the motor with a defective switch. If the switch does not turn the motor "ON" or "OFF", have it repaired by an authorized service facility before using the motor.
21. Replace worn or damaged parts with replacement parts designed and recomended for use by **INDUSTRIAS TECHNOFLEX S.A.**
22. Any servicing, other than that covered in this instruction manual, should be performed by an authorized **INDUSTRIAS TECHNOFLEX S.A** Service Representative.
23. NEVER operate the machine outside the using are; operate the machine in flammable environment is forbidden.

Save these instructions!

www.famcocorp.com

E-mail: info@famcocorp.com

@famco_group

Tel: ۰۲۱-۴۸۰۰۰۰۴۹

Fax: ۰۲۱-۴۴۹۹۴۶۴۲

تهران، کیلومتر ۲۱ بزرگراه لشکری (جاده مخصوص کرج)

روبروی پالایشگاه نفت پارس، پلاک ۱۲

CONTENTS

I RULES FOR SAFE OPERATION	
General Safety	2-3
Diamond Blade Safety.....	3
Cutter Transportation Safety	3
Emergencies.....	4
Maintenance Safety	4
II OPERATION	
Introduction	4
Determining the Right Machine	4
Operating Principle	4
Delivery Checks.....	4
Installing Blade	5
Type of Cutting	5
Before Starting	5
To Start Cutting	5
Cutting	6
Belts & Pulleys	6
Dry Cutting	6
III MAINTENANCE	
Troubleshooting	7-8
IV LUBRICATION AND SERVICE	9
V SPECIFICATION	9
VI REPLACEMENT PARTS LIST	10-13

I RULES FOR SAFE OPERATION

WARNING:

Failure to follow instructions in this manual may lead to serious injury or even death! This equipment is to be operated by trained and qualified personnel only! This equipment is for industrial use only.

The following safety guidelines should always be used when operating these Concrete Cutters:

GENERAL SAFETY

- **DO NOT** operate or service this equipment before reading the entire manual.
- This equipment should not be operated by persons under 18 years of age.
- **NEVER** operate this equipment without proper protective clothing, shatterproof glasses, steel-toed boots and other protective devices required by the job.
- **NEVER** operate this equipment when not feeling well

due to fatigue, illness or taking medicine.

- **NEVER** operate this equipment under the influence of drugs or alcohol.
- **NEVER** use accessories or attachments, which are not recommended by our company for this equipment. Damage to the equipment and/or injury to user may result.
- The manufacturer does not assume responsibility for any accident due to equipment modifications.
- Whenever necessary, replace nameplate, operation and safety decals when they become difficult to read.
- **ALWAYS** check the machine for loosened threads or bolts before starting.
- **NEVER** touch the hot exhaust manifold, muffler or cylinder. Allow these parts to cool before servicing engine or saw.
- **High Temperatures** – Allow the engine to cool before adding fuel or performing service and maintenance functions. Contact with hot components can cause serious burns.
- The engine section of this cutter requires an adequate free flow of cooling air. **NEVER** operate the cutter in any enclosed or narrow area where free flow of the air is restricted. If the air flow is restricted it will cause serious damage to the saw or engine and may cause injury to people. Remember the cutter's engine gives off **DEADLY** carbon monoxide gas.
- **ALWAYS** refuel in a well-ventilated area, away from sparks and open flames.
- **ALWAYS** use extreme caution when working with flammable liquids. When refueling, stop the engine and allow it to cool. **DO NOT** smoke around or near the machine. Fire or explosion could result from fuel vapors, or if fuel is spilled on a hot engine.
- **NEVER** operate the cutter in an explosive atmosphere or near combustible materials. An explosion or fire could result causing severe bodily harm or even death.
- Topping-off to the **fuel** filler port is dangerous, as it tends to spill fuel.

- **NEVER** use fuel as a cleaning agent.
- **ALWAYS** read, understand, and follow procedures in operator's Manual before attempting to operate equipment.
- **ALWAYS** be sure to operator is familiar with proper safety precautions and operating techniques before using the cutter.
- Stop the engine when leaving the cutter unattended.
- Block the unit when leaving or when using on a slope.
- Maintain this equipment in a safe operating condition at all times.
- **ALWAYS** stop the engine before serving, adding fuel and oil.
- **NEVER** Run engine without air filter. Severe engine damage may occur.
- **NEVER** Run engine without air filter. Severe engine damage may occur.
- **ALWAYS** service air cleaner frequently to prevent carburetor malfunction.
- **ALWAYS** store equipment properly when it is not being used. Equipment should be stored in a clean, dry location out of the reach of children.
- **NEVER** operate this cutter in areas that contain combustible material or fumes. Fire and/or explosions may result from errant sparks from the equipment.

WARNING:

- **DO NOT** operate this equipment unless all guards and safety devices are attached and in place.
- Caution must be exercised while servicing this equipment. Rotating and moving parts can cause injury if contacted.
- Keep all inexperienced and unauthorized people away from the equipment at all times.
- Unauthorized equipment modifications will void all warranties.

DIAMOND BLADE SAFETY

- Use appropriate steel centered diamond blades manufactured for use on concrete cutters.
- **ALWAYS** inspect diamond blades before each use. The blade should exhibit no cracks, dings, or flaws in the steel centered core and/or rim. Center (arbor) hole must be undamaged and true.
- Examine blade flanges for damage, excessive wear

and cleanliness before mounting blade. Blade should fit snugly on the shaft and against the inside/outside blade flanges.

- Ensure that the blade is marked with an operating speed greater than the blade shaft speed of the cutter.
- Only cut the material that is specified by the diamond blade. Read the specifications of the diamond blade to ensure the proper tool has been matched to the material being cut.
- **ALWAYS** keep blade guards in place. Exposure of the diamond blade must not exceed 180 degrees.
- Ensure that the diamond blade does not come into contact with ground or surface during transportation. **DO NOT** drop the diamond blade on ground or surface.
- The engine governor is designed to permit maximum engine speed in a no-load condition. Speeds that exceed this limit may cause the diamond blade to exceed the maximum safe allowable speed.
- Ensure that the blade is mounted for proper operating direction.

CUTTER TRANSPORTATION SAFETY

- Use the lifting bail and appropriate lifting equipment to ensure the safe movement of the cutter.
- **DO NOT** use the handle bars and/or front pointer as lifting points.
- **NEVER** tow the saw behind a vehicle.
- Ensure that both pointer bars are positioned appropriately to minimize their exposure during transportation.
- Safeguard against extreme cutter attitudes relative to level. Engines tipped to extreme angles may cause oil to gravitate into the cylinder head making the engine difficult to start.
- **NEVER** transport the cutter with the blade mounted.

EMERGENCIES

- **ALWAYS** know the location of the nearest fire extinguisher and first aid kit. Know the location of the nearest telephone. Also know the phone numbers of the nearest ambulance, doctor and fire department. This information will be invaluable in the case of an emergency.

MAINTENANCE SAFETY

- **NEVER** lubricate components or attempt service on a running machine.
- **ALWAYS** allow the machine a proper amount of time to cool before servicing.
- Keep the machinery in running condition.
- Fix damage to the machine immediately and always replace broken parts.
- Dispose of hazardous waste properly. Examples of potentially hazardous waste are used motor oil, fuel and fuel filters.
- **DO NOT** use food or plastic containers to dispose of hazardous waste.

II OPERATION

Introduction/Determining the Right Machine

Congratulations on your purchase of our Cutter! You've made an excellent choice! Our floor cutter has been specifically designed as the ideal machine for the professional contractor who is engaged in concrete and asphalt flat sawing.

The machines used for the primary purpose of "flat" sawing. This type of sawing is described as "flat" because the pavement is cut somewhere close to a horizontal plane. It is the most common type of diamond blade cutting.

Concrete cutters in the industry are available in a variety of types, sizes and styles, they range from manual or self propelled in horsepower from 7-72hp. It is possible to cut both concrete (green or cured, with or without rebar) or

asphalt with a concrete cutter. Our MF12 utilized for jobs requiring precision cutting including floors, pavements, walkways, ramps and other flat sawing applications.

You will find a cutter to fit a wide variety of job applications.

Upon receipt of your machine, **CAREFULLY CHECK FOR ANY FREIGHT DAMAGE.** Any damage should be immediately reported to the carrier and a claim registered.

Operating Principle/Delivery Checks/ Installing Blade/Types of Cutting

OPERATING PRINCIPLE

The following instructions were compiled to provide you information on how to obtain long and trouble free use of the unit. Periodic maintenance of this unit is essential. Read the manual in its entirety and follow the instructions carefully. Failure to do so may injure yourself or a bystander.

DELIVERY CHECKS

Immediately upon taking delivery of your new equipment and before putting it into service:

- Read the handbook completely—it could save a great deal of unnecessary expense.
- Read the engine manual supplied.
- Check the general condition of the equipment—has it been damaged during delivery?
- Check engine oil level.
- Check fuel levels.

Recommend lubricants are detailed in the **CARE AND MAINTENANCE** section.

INSTALLING BLADE

1. Be certain that the spark plug is disconnected or saw is unplugged.
2. Remove the blade shaft nut, and take off outside blade shaft flange.
3. Clean off any foreign particles on the clamping surfaces of flanges and on the mounting surface of the blade.
4. Place the blade on the blade shaft, lining up the offset drive pin in the blade with the drive pin in the mounting collar (if the pin system is available on the machine). If your blade has a directional rotational arrow, position arrow for down cut (diamond tail trailing for down cut).
5. Replace the outside blade shaft flange on the blade shaft. Drive pin on the inside collar must project through the drive hole in the blade and into the outside collar (if the pin system is available on the machine).
6. Tighten the blade shaft nut securely against star washer and outside flange, using wrench supplied.
7. Reconnect the spark plug or (with switch "off") plug in the electric supply cord.

TYPES OF CUTTING

Cut speed depends entirely on using the correct blade for the material to be cut. Wet or dry, diamond blades of various specifications are available for cutting concrete or asphalt.

Before Starting/Cold Start/Hot Start/ To Start Cutting

BEFORE STARTING

1. Use correct blade for cutting conditions.
2. Ensure arbors and flanges are clean and undamaged.
3. Mount blade and tighten securely using wrench.
4. When wet cutting, check water jets for adequate flow.
5. Align pointer with cutter blade.

Caution – Set unit up in an open area. Avoid close proximity to structures or other equipment. Failure to do so may cause inadvertent injury to operator or other persons in the area.

Cold start – Open the fuel valve under the gas tank all the way. Position the engine stop switch, located on the

engine, to run. Open the throttle approximately half way and apply the choke. Pull the starter rope sharply. When the engine starts, open the choke and adjust the throttle as necessary to keep it running. Allow the engine to warm up for a few minutes before placing it under the load. If the engine doesn't start after (3) pulls, open choke slightly to prevent flooding. Always operate the engine at full throttle when under load.

Hot Start – Open the valve under the gas tank all the way if it has been shut off. Open the throttle approximately half way. Do not apply the choke. Pull the starter rope sharply until the engine starts. When the engine starts, adjust the throttle. Always operate the engine at full throttle when under load.

NOTE: These starting instructions are general guidelines only. Since many engine options are available, consult the Engine Manual included with this unit for specific instructions.

Caution – Gasoline Engines – To improve the engine service life, allow the engine to idle without load for (2) to (5) minutes before shutting it down. When the idling period is up, use the stop switch located on the engine and turn it to stop. Close the fuel valve under the gas tank. Engine flooding can occur if the valve is left open during transport.

TO START CUTTING

1. Start engine and let engine warm up. All cutting is done at full throttle.
2. Align blade and cutter with cut. If wet cutting, open water valve and turn water safety switch on.
3. Lower blade into cut slowly.
4. Cut as fast as blade will allow. If blade climbs out of cut, reduce forward speed or depth of cut.
5. Use only enough side pressure on cutter handles to follow cutting line.

Cutting/Belts & Pulleys

CUTTING

Lower the blade into concrete to required depth by turning the tilt crank counterclockwise. Ease the saw slowly forward. Slow forward pressure if the saw begins to stall.

Note: For deeper cuts (4 inches/102mm or more), several cuts should be made in incremental steps of 1-1/2 inch (38mm) to 2 inches (51mm) until the desired depth is reached.

Push the saw steadily forward using the front pointer as a guide. Exert enough forward pressure so that the engine/motor begins to labor, but does not slow down. If the saw begins to stall, retard forward movement until full RPM is restored to the blade. If saw stalls, raise the blade out of the cut before restarting. Avoid excessive side pressure or twisting of the blade in the cut.

BELTS & PULLEYS

NEVER MAKE ADJUSTMENTS TO V-BELTS AND PULLEYS WHILE ENGINE IS RUNNING.

1. The best tension for a v-belt drive is the lowest tension at which the belts will not slip under full load.
2. Take up tension until the belts are snug in the grooves. Run the drive for about five (5) minutes to "seat" the belts. Then impose the peak load. If the belts slip, tighten them until they no longer slip at peak load. Most new belts will need additional tensioning after seating.
3. Remember, too much tension shortens belt and bearing life.
4. Check the belt tension frequently during the first day of operation. Check the belt tension periodically thereafter and make any necessary adjustments.
5. The two most common causes of sheave misalignment are:
 - a) The engine drive shaft and the blade shaft are not parallel.
 - b) The pulleys are not located properly on the shafts.
6. To check alignment, use a steel straight edge. See Figure 1.

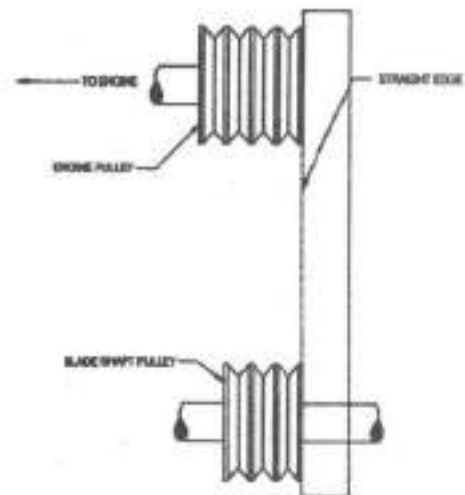






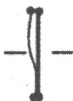
Figure 1

7. Line up the straight edge along the outside face of both pulleys shown in the drawing. All pulleys have (2) set screws in the bottom of their grooves. Set screws require thread locking lock title.
8. Misalignment will show up as a gap between the pulley face and straight edge. Make sure there is clearance between arbor pulley and saw base on both sides.

DRY CUTTING

- Never operate any saw without safety guards in place.
- Do not exceed maximum operating speed established for blade diameter.
- Do not force blade into material: allow blade to cut at its own speed.
- Do not make long continuous cuts. Never dry cut for more than 30 seconds at a time. Allow blade to cool.
- Do not cut or grind with side of blade or cut a curve or radius. Do not cut dry with blades recommended for wet cutting.
- Do not operate saw with blade diameter larger than machine's capacity.

III MAINTAINENCE - TROUBLESHOOTING

PROBLEM	CAUSE	REMEDY
UNEVEN SEGMENT WEAR 	<ul style="list-style-type: none"> • (In wet cutting) Insufficient water (usually on one side of blade). • Equipment defects also can cause the segments to wear unevenly. • Saw head is misaligned. 	<ul style="list-style-type: none"> • Flush water system. • Check flow to both sides of blade. • Replace bad bearings, worn arbor shaft or misalignment to spindle. • Check alignment for squareness, both vertically and horizontally, of the saw blade.
SEGMENT CRACKS 	<ul style="list-style-type: none"> • Blade is too hard for material being cut. 	<ul style="list-style-type: none"> • Use a blade with a softer bond/matrix.
SEGMENT LOSS 	<ul style="list-style-type: none"> • Blade overheats because of lack of coolant (water or air). • Core is worn from undercutting. • Defective collars/flanges set blade out of alignment. • Blade is too hard for material being cut. • Blade is cutting out of round, causing a pounding motion. • Improper blade tension. 	<ul style="list-style-type: none"> • (Wet Cutting) Check water lines. • Make sure flow is adequate on both sides of blade and there are no blockages • Use sufficient water to flush out the cut. • (Dry Cutting) Run blade free of cut periodically to air cool. • Clean collars/flanges or replace if they are under recommended diameter. • Use proper blade specification for material being cut. • Replace worn bearings; realign blade shaft or replace worn blade mounting arbor. • When ordering blades match shaft speed of saw. • Check spindle speed to ensure blade is running at correct RPM. • Avoid twisting or turning blade in the cut.
CRACKS IN CORE 	<ul style="list-style-type: none"> • Blade flutters in cut as a result of losing blade tension. • Blade specification is too hard for the material being cut. 	<ul style="list-style-type: none"> • Tighten the blade shaft nut. • Make sure blade is running at proper speed and that drive pin is functioning properly. • Use a softer bond/matrix to eliminate stress.
LOSS OF TENSION 	<ul style="list-style-type: none"> • Core overheating. • Core overheating as a result of blade spinning on arbor. • Core overheating from rubbing the material being cut. • Unequal pressure at blade clamping collars/flanges. • Blade is too hard for the material being cut. 	<ul style="list-style-type: none"> • Make certain blade RPM is correct. • Check water flow, distribution and lines. • Tighten the blade shaft nut. Make certain the drive pin is functioning. • Properly align the saw to square cut. • Collars/flanges must be identical in diameter and the recommended size. • Use a softer bond/matrix to reduce stress.

III MAINTENANCE - TROUBLESHOOTING

PROBLEM BLADE WOBBLER



- CAUSE**
- Blade is on a damaged or worn saw.
 - Worn collar.
 - Blade runs at an incorrect speed.
 - Collar/flange diameters are not identical.
 - Blade is bent as a result of dropping or twisting.

- REMEDY**
- Check for bad bearings, bent shaft, or worn mounting arbor.
 - Check collars/flanges to make sure they are clean, flat and of correct diameter.
 - Set engine at proper RPM.
 - Use proper size blade collars/flanges.
 - DO NOT use bent blade. Contact blade manufacturer.

BLADE WILL NOT CUT



- Blade is too hard for material being cut.
- Blade has become dull.
- Blade does not cut material it was specified for.

- Select proper blade for material being cut.
- Sharpen by cutting on softer abrasive material to expose diamonds. If continually sharpening, the blade is too hard for the material being cut.
- Break-in on the material to be cut. If it does not dress itself, sharpen as you would a dull blade.

UNDERCUTTING THE CORE



- Abrasive wearing of the core faster than the segments.

- Use water to flush out fines generated during cutting
- Use wear-resistant cores.

ARBOR HOLE OUT-OF-ROUND



- Collars/flanges are not properly tightened, permitting blade to rotate or vibrate on the shaft.
- Collars/flanges are worn or dirty. Blade is not properly mounted.

- Make certain the blade is mounted on the proper shaft diameter. Tighten the shaft nut with a wrench to make certain that the blade is secure.
- Clean collars/flanges, make sure they are not worn. Tighten arbor nut.
- Make sure the pin hole slides over drive pin.

BLADE WORN OUT OF ROUND



- Shaft bearings are worn.
- Surges occur because engine is not properly tuned.
- Blade arbor hole is damaged from incorrectly mounting the blade.
- Bond/matrix is too hard for material. Blade is slipping, wearing one half of blade more than other.

- Install new blade shaft bearings or blade shaft, as required.
- Tune engine according to manufacturer's manual.
- If core is worn or arbor hole damaged, DO NOT USE. Contact blade manufacturer.
- Replace worn shaft or mounting arbor bushing.
- Make certain that drive pin is functioning.
- Tighten spindle nut.

IV LUBRICATION AND SERVICE

- Check oil levels, wiring, hoses (air, fuel, water) and lubricate machine daily.
- Repair or replace all worn or damaged components immediately.
- Check drive belt tension, do not over-tension.
- Make sure machine has full set of matched belts.
- Check bladeshaft, make sure arbor and threads are not worn, damaged, or bent.
- Bladeshaft bearings should be tight, no free play side-to-side or up and down.
- Grease blade shaft bearings daily.
- Blade collars should be clean, free of nicks and burrs. No diameter wear and not out of round.
- Drive pin not excessively worn or bent and free of gouges.
- All guards in place and secure.
- All fasteners tight and secure.
- Air filter/oil filter (hydraulic or engine) clean.
- Flush clean water through the pump and spray the assembly every night. This prolongs the pump and blade life.

Lubricants:

Engine Oil SAE 10W/30
 General Grease #1 Lithium

- Clean machine before starting lubrication maintenance.
- Insure machine is on solid, level ground before starting maintenance.
- During lubrication maintenance insure strict cleanliness is observed at all times.
- To avoid the risk of accidents, use the correct tool for the job and keep tools clean.
- The draining of engine oil is best carried out when the oil is warm NOT hot.
- Any spilled oil must be cleaned up immediately.
- Use only clean containers for oil and only CLEAN, FRESH oils and grease of correct grade.
- Contaminated Water/Fluids/Oils/Filters Must Be Disposed of Safely.

V SEPECIFICATION

Motor

WQ908-1	Diesel,Kama 186	7.5kw output
WQ908-2	Petrol,Honda GX390	9.8kw output

Operation Mass:

WQ908-1	216kgs
WQ908-2	195kgs

Max. Cutting Depth -----170mm (6.7in)

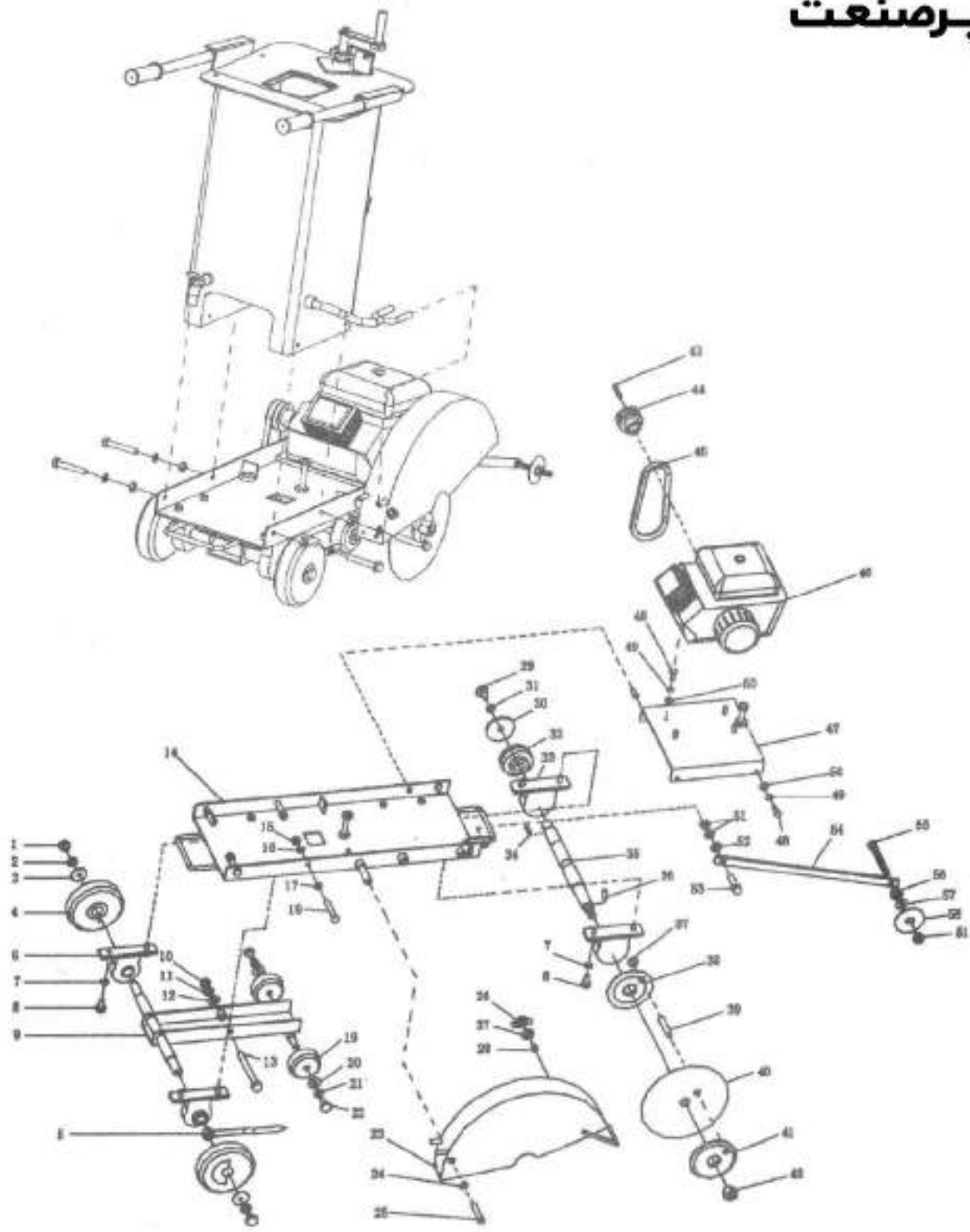
Blade size -----350-500 mm (14-20in)

Depth Adjustment ----- Handle Rotation

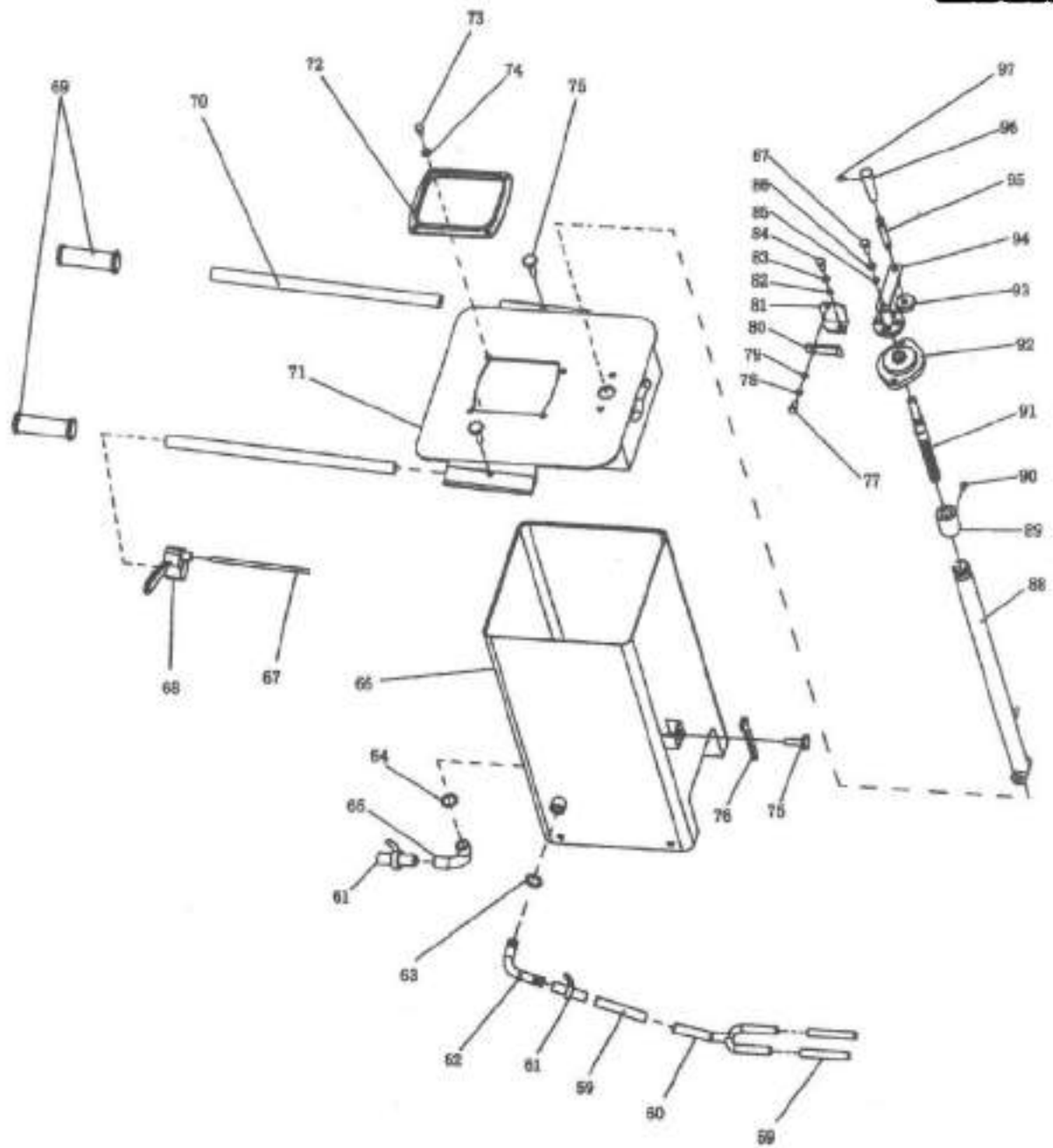
Driving ----- Semi-self Propelled

Water Tank Capacity ----- 40 L

VI REPLACEMENT PARTS LIST



PARTS LIST 1



PARTS LIST 2

Pos.	Código / Code	Descripción	Description	Cantidad / Qty
1	908001	Tornillo M12x20	Bolt M12x20	2
2	908002	Arandela muelle M12x20	Spring washer 12	2
3	908003	Arandela profunda	Deep washer	2
4	908004	Goma rueda trasera	Rubber wheel (rear)	2
5	908005	Indicador	Indicator	1
6	908006	Cojinete y soporte	Bearing & bracket	2
7	908007	Arandela muelle 12	Spring washer 12	8
8	908008	Tornillo M12	Bolt M12	8
9	908009	Soporte ruedas	Wheel rack module	1
10	908010	Tuerca 12	Nut 12	1
11	908011	Arandela muelle 12	Spring washer 12	1
12	908012	Arandela 12	Washer 12	1
13	908013	Tornillo M12x120	Bolt M12x120	1
14	908014	Placa base	Base assy	1
15	908015	Tuerca M12	Nut M12	4
16	908016	Arandela muelle 12	Spring washer 12	4
17	908017	Arandela	Washer 12	4
18	908018	Tornillo M12	Bolt M12	4
19	908019	Goma rueda frontal	Rubber wheel (front)	2
20	908020	Arandel profunda	Deep washer	2
21	908021	Arandela muelle 8	Spring washer 8	2
22	908022	Tornillo M8x22	Bolt M8x22	2
23	908023	Disco protección	Blade guard	1
24	908024	Arandela 10	Washer 10	1
25	908025	Tornillo M10	Bolt M10	1
26	908026	Tuerca M10	Nut M10	1
27	908027	Arandela 10	Washer 10	1
28	908028	Tornillo	Screw	1
29	908029	Tornillo M10x25	Bolt M10x25	1
30	908030	Arandela	Washer	1
31	908031	Arandela muelle 10	Spring washer 10	1
32	908032	Polea	Pulley	1
33	908033	Cojinete y soporte	Bearing & bracket	2
34	908034	Llave 8x38	Key 8x38	1
35	908035	Eje principal	Principal axis	1
36	908036	Pasador C6	Pin C6	1
37	908037	Tuerca	Nut M8	1
38	908038	Disco brida interno	Blade flang (inner)	1
39	908039	Pasador	Pin	1
40	908040	Disco	Blade	1
41	908041	Disco brida externo	Blade flang (out)	1
42	908042	Tuerca	Nut	1
43	908043	Llave	Key	1
44	908044-1	Polea motor diesel	Engine pulley for diesel	1
	908044-2	Polea motor Honda	Engine pulley for Honda	1
	908044-3	Polea motor Robin	Engine pulley for Robin	1
45	908045-1	Correa SPA-GB11544 Diesel	V-belt SPA-GB11544 diesel	1
	908045-2	Correa SPA-GB11544 Gasolin	V-belt SPA-GB11544 petrol	1
46				

Pos.	Código / Code	Descripción	Description	Cantidad / Qty
47	908047	Placa base motor	Base assy. for engine	1
48	908048	Tornillo M10x30	Bolt M10x30	8
49	908049	Arandela muelle 10	Spring washer 10	8
50	908050	Arandela 10	Washer 10	8
51	908051	Tuerca M12	Nut M12	3
52	908052	Arandela 12	Washer 12	1
53	908053	Tornillo M12x45	Bolt M12x45	1
54	908054	Puntero	Pointer	1
55	908055	Tornillo M12x110	Bolt M12x110	1
56	908056	Tuerca	Nut	1
57	908057	Arandela 12	Washer 12	1
58	908058	Rueda puntero	Pointer wheel	1
59	908059	Tubería de plástico	Plastic pipe	3
60	908060	Tubería en "T"	Tee pipe	1
61	908061	Válvula grifo	Cock	2
62	908062	Codo	Elbow bend	1
63	908063	Tuerca	Nut	1
64	908064	Tuerca	Nut	1
65	908065	Codo	Elbow	1
66	908066	Depósito de agua	Water tank	1
67	908067	Cable acelerador	Throttle cable	1
68	908068	Maneta acelerador	Throttle control	1
69	908069	Empuñadura manillar	Handle bar grip	2
70	908070	Palanca	Handle lever	2
71	908071	Cubierta depósito	Tank cover	1
72	908072	Boca de inyección	Injection mouth	1
73	908073	Tornillo M10	Bolt M10	4
74	908074	Tornillo M10	Bolt M10	4
75	908075	Fijación	Knob	3
76	908076	Llave inglesa	Wrench	1
77	908077	Tornillo M8x30	Bolt M8x30	1
78	908078	Arandela muelle 8	Spring washer 8	1
79	908079	Arandela 8	Washer 8	1
80	908080	Soporte	Board plug	1
81	908081	Soporte orientación	Orientation board	1
82	908082	Arandela 10	Washer 10	2
83	908083	Arandela muelle 8	Spring washer 8	2
84	908084	Tornillo M10	Bolt M10	2
85	908085	Arandela 8	Washer 8	1
86	908086	Arandela muelle 8	Spring washer 8	1
87	908087	Tornillo M8x20	Bolt M8x20	1
88	908088	Palanca elevación	Manual raise/lower assy.	1
89	908089	Tuerca	Nut	1
90	908090	Tornillo M6x10	Bolt M6x10	1
91	908091	Tornillo	Screw	1
92	908092	Cojinete y soporte	Bearing & Bracket	1
93	908093	Tuerca M10	Nut M10	1
94	908094	Soporte	Bracket	1
95	908095			

INDUSTRIAS TECHNOFLEX, S.A.

C/Josep Pujol, s/n. esq. Ctra. d'Ullastrell s/n
Apartado de correos, 43
E-08191 RUBÍ (Barcelona)-SPAIN

Tel. (+34) 93 588 53 37

Fax (+34) 93 697 37 54

e-mail: technoflex@ficsa.com

Internet: <http://www.technoflex.es>



Cód.:4046600025 / 07.11



INDUSTRIAS TECHNOFLEX SA