



**BLUEBIRD
INDUSTRIES**

SHREDDER SHL 1000

Operator's manual



FOR YOUR SAFETY

Read this user manual carefully in its entirety before attempting to assemble this machine. Read, understand, and follow all instructions on the machine before operating. Become fully familiar with the controls and proper use of the machine before operating. Keep this manual in a safe place for future and regular reference

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SAFETY

Engine	Loncin G200F
Displacement	196cc
Net power	6.5 hp
Chipping capacity	100 mm
Weight	93 kg
Length	1760 mm
Width	513 mm
Height	1105 mm
Operating RPM	3600 RPM
Fuel type	Gasoline
Starting method	Recoil
Wheel tire	Tire 4.10/3.50-4
Cutting method	Body
Roller diameter	233 mm
No. of blades	2 x blades; 1 x anvil
Packing	Wooden crate
Package size	900x580x870 mm
Gross weight	108 kg

GENERAL RULES



This symbol indicates important safety instructions which, if not followed, could endanger personal safety and/or your own or others' property.
Read and follow all instructions in this manual before attempting to use the chipper shredder.
Failure to follow these instructions may result in personal injury.

THIS MACHINE CAN CAUSE SERIOUS INJURY IF USED IMPROPERLY: READ THE WARNINGS AND WARNING LABELS.

INTENDED USE

Never use the chipper shredder for purposes other than wood chipping. It is designed for this use and any other use may cause serious injury and void the warranty.



DANGER: Rotating blade.

Keep hands and feet away from inlets and discharge openings while the machine is running.



DANGER: This machine can **CRUSH, GRIND, CUT** and **SEVER** body parts if they enter the chipper shredder's intake or discharge area.



DANGER: The chipper shredder has been built to be used according to the safe operating rules in this manual. As with any type of power equipment, operator inattention or error can cause serious injury. If any of these rules are violated, you could cause serious injury to yourself or others.

SAFETY

WARNING LABELS

MAKE SURE ALL SAFETY LABELS ON THIS EQUIPMENT ARE CLEAN AND IN GOOD CONDITION. IF YOU NEED REPLACEMENT LABELS, CONTACT THE SUPPLIER

PERICOLO

- Leggere e comprendere il manuale dell'operatore prima di avviare e utilizzare l'apparecchio.
- Mantenere tutti gli schermi e le protezioni in posizione e saldamente fissati.
- Tenere mani, piedi, viso, indumenti e capelli lunghi fuori dal contenitore di alimentazione e scaricare lo scivolo mentre il motore è in funzione. Le lame rotanti all'interno di queste aperture possono causare gravi lesioni personali. Il materiale in lavorazione può rimbalzare dalle aperture di ingresso o essere gettato dallo scivolo di scarico. I capelli lunghi o gli indumenti larghi possono essere tirati o risucchiati nelle aperture di ingresso.
- Se il biotrituratore si inceppa o si intasa, spegnere immediatamente il motore e attendere che tutte le parti in movimento si fermino completamente prima di procedere.
- Se il motore si arresta a causa di un inceppamento, spostare la leva di comando dell'acceleratore in posizione di arresto o spegnere il bilanciere in "0" se in dotazione prima di pulire.

- Non installare, rimuovere, regolare o riparare lo schermo di scarico o qualsiasi altra parte mentre il motore è in funzione. Può verificarsi un contatto con la lama.
- Non operare su terreni sconnessi dove l'apparecchio è instabile.
- Per evitare il rischio di incendio, tenere foglie, erba e altri materiali combustibili lontani dal motore.

- Tenere i bambini e gli altri lontano dall'area di lavoro.
- Indossare occhiali di sicurezza, guanti e protezioni per le orecchie approvati.
- Non operare su marciapiedi, ghiaia o altre superfici dure poiché gli oggetti possono rimbalzare e causare lesioni.

AVVERTENZA

NON posizionare legno o rami di diametro superiore a 10 cm nel contenitore di alimentazione. Le lame potrebbero incastrarsi o incepparsi.

Controllare la tensione della cinghia prima di azionare il biotrituratore. La flessione della cinghia deve essere inferiore a 9,5 mm quando vengono applicati 4,5 kg di pressione alla cinghia. Il nastro si rilassa dopo le prime 1-2 ore di utilizzo. È necessario ricontrollare e regolare di conseguenza, altrimenti le cinghie inizieranno a scivolare e ad usurarsi. Per prestazioni ottimali, controllare la corretta tensione della cinghia ogni 20 ore di utilizzo.

CINGHIE DI RICAMBIO

PERICOLO

ATTENZIONE: ARRESTO DI EMERGENZA

Assicurarsi che il cavo di arresto di emergenza sia collegato correttamente. L'inosservanza di questa regola potrebbe provocare gravi lesioni o la morte.

INTERRUTTORE DI EMERGENZA

FILO DI ARRESTO DI EMERGENZA

ATTENZIONE: ARRESTO DI EMERGENZA

GS65001/GS65002

SHL 1000

SAFETY

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PERICOLO

- Leggere e comprendere il manuale dell'operatore prima di avviare e utilizzare l'apparecchio.
- Mantenere tutti gli schermi e le protezioni in posizione e saldamente fissati.
- Tenere mani, piedi, viso, indumenti e capelli lunghi fuori dal contenitore di alimentazione e scaricare lo scivolo mentre il motore è in funzione. Le lame rotanti all'interno di queste aperture possono causare gravi lesioni personali. Il materiale in lavorazione può rimbalzare dalle aperture di ingresso o essere gettato dallo scivolo di scarico. I capelli lunghi o gli indumenti larghi possono essere tirati o risucchiati nelle aperture di ingresso.
- Se il biotrituratore si inceppa o si intasa, spegnere immediatamente il motore e attendere che tutte le parti in movimento si fermino completamente prima di procedere.
- Se il motore si arresta a causa di un inceppamento, spostare la leva di comando dell'acceleratore in posizione di arresto o spegnere il bilanciere in "0" se in dotazione prima di pulire.

- Non installare, rimuovere, regolare o riparare lo schermo di scarico o qualsiasi altra parte mentre il motore è in funzione. Può verificarsi un contatto con la lama.
- Non operare su terreni sconnessi dove l'apparecchio è instabile.
- Per evitare il rischio di incendio, tenere foglie, erba e altri materiali combustibili lontani dal motore caldo e dalla marmitta.

- Tenere i bambini e gli altri lontano dall'area di lavoro.
- Indossare occhiali di sicurezza, guanti e protezioni per le orecchie approvati.
- Non operare su marciapiedi, ghiaia o altre superfici dure poiché gli oggetti possono rimbalzare e causare lesioni.

PERICOLO

NON posizionare legno o rami di diametro superiore a 10 cm nel contenitore di alimentazione. Le lame potrebbero incastrarsi o incepparsi.

10cm
MAX

10 lb.
MAX
3/8"

Controllare la tensione della cinghia prima di azionare il biotrituratore. La flessione della cinghia deve essere inferiore a 9,5 mm quando vengono applicati 4,5 kg di pressione alla cinghia. Il nastro si rilassa dopo le prime 1-2 ore di utilizzo. È necessario ricontrollare e regolare di conseguenza, altrimenti le cinghie inizieranno a scivolare e ad usurarsi. Per prestazioni ottimali, controllare la corretta tensione della cinghia ogni 20 ore di utilizzo.

CINGHIE DI RICAMBIO

PERICOLO

PERICOLO

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ATTENZIONE: ARRESTO DI EMERGENZA

Assicurarsi che il cavo di arresto di emergenza sia collegato correttamente. L'inosservanza di questa regola potrebbe provocare gravi lesioni o la morte.

ATTENZIONE: ARRESTO DI EMERGENZA

GS65001/GS65002

SHL 1000

SAFETY

SAFE OPERATING PRACTICES

TRAINING

- Read this user manual carefully in its entirety before attempting to assemble this machine. Read, understand, and follow all instructions on the machine before operating. Become fully familiar with the controls and proper use of the machine before operating. Keep this manual in a safe place for future and regular reference and for ordering replacement parts.
- Never allow children to use the machine. Never use the equipment without proper training. Only responsible persons familiar with these safe operating rules should be allowed to use this unit.
- Keep the work area clear of all people, especially children and pets. Shut off the engine when they are near the unit. Keep the work area clean and free of branches and obstacles that could cause tripping or falling.
- The operator or user is responsible for accidents or hazards occurring to other people and their property.
- The chipper shredder is a powerful tool, not a toy. Always pay close attention. The machine has been designed for wood chipping. The use of this machine is not permitted for other purposes.
- If situations not covered in this manual occur, use caution and common sense.

PREPARATION

- Carefully inspect the area where the equipment is to be used and remove all foreign objects.
- Do not use the machine without wearing proper protection and safety glasses. Always wear safety glasses or goggles during operation and when making any adjustments or repairs, to protect your eyes from foreign objects that may be thrown by the machine. Make sure that glasses or visors fit properly.
- Avoid loose clothing and use protective footwear that improves footing on slippery surfaces. Shirt and pants that cover the arms and legs and steel-toed boots are recommended. Tie hair above the shoulders. Do not wear loose clothing or jewelry that can get caught in moving parts. Never operate the device barefoot, in sandals, or in sneakers. Wear gloves when feeding material into the chipper chute. Make sure the gloves fit properly.



WARNING: Fuel is highly flammable and the vapors are explosive. Take the following precautions.

- Store fuel and oil in approved containers.
- Keep away from heat and open flames and out of reach of children.
- Refuel only outdoors and do not smoke while refueling.

SAFETY

SAFE OPERATING PRACTICES

- Check and add fuel before starting the engine. Never remove the gas cap or add fuel when the engine is running or hot. Allow the engine to cool before refueling.
- If fuel has been spilled, do not attempt to start the engine but move the device away from the spill area and avoid creating any source of ignition until the fuel vapors have dissipated.
- Securely replace all container and fuel tank caps.
- Never store the machine or fuel container indoors in the presence of an open flame or spark, such as a gas water heater, water heater, dryer, or furnace.
- To reduce the risk of fire, keep the engine and muffler free of debris buildup. Clean up fuel and oil spills. Allow the device to cool for at least five minutes before storing it.
- Never attempt to make any adjustments while the engine is running.

OPERATION

- Never place hands, feet, or any part of the body in the chipper chute, discharge opening, or near or under any moving part while the engine is running. Always keep away from the discharge opening. If it is necessary to push materials into the chipper chute, use a small-diameter stick, NOT YOUR HANDS.
- Keep your face and body away from the chipper chute to avoid accidental rebound of any material.
- The machine must be used only on a flat surface. Never use the machine on a slippery, wet, muddy, or icy surface.
- Be aware of hidden hazards or traffic. Do not carry passengers.
- If the cutting mechanism strikes a foreign object or if the machine begins to make an unusual noise or vibration, immediately stop the engine. After the machine has come to a complete stop, proceed as follows:
 - Remove the spark plug wire(s) and wait until all moving parts have come to a complete stop.
 - Check for damage
 - Repair or replace damaged parts before restarting and using the device.
 - Be careful to avoid slips or falls
- If the machine begins to vibrate abnormally, immediately stop the engine and wait until all moving parts have come to a complete stop and check the cause. Vibrations are generally a sign of danger.
- Stop the engine when leaving the operating position and when making repairs, adjustments, and inspections. ALWAYS STAY AWAY FROM THE CHIP OUTLET.
- Take all possible precautions as recommended by the manufacturer when leaving the machine unattended. Push the EMERGENCY STOP.
- Before cleaning, repairing, or inspecting, turn off the engine and make sure the flywheel and all moving parts have come to a complete stop. Disconnect the spark plug wire and keep it away from the spark plug to prevent accidental starting.
- Never operate this machine in an enclosed area as the engine exhaust contains carbon monoxide, which is a poisonous, odorless, tasteless, and deadly gas.
- Check and add fuel before starting the engine. Never remove the gas cap or add fuel when the engine is running or hot. Allow the engine to cool before refueling.
- If fuel has been spilled, do not attempt to start the engine but move the device away from the spill area and avoid creating any source of ignition until the fuel vapors have dissipated.

SAFETY

SAFE OPERATING PRACTICES

- Securely replace all container and fuel tank caps.
- Never store the machine or fuel container indoors in the presence of an open flame or spark, such as a gas water heater, water heater, dryer, or furnace.
- To reduce the risk of fire, keep the engine and muffler free of debris buildup. Clean up fuel and oil spills. Allow the device to cool for at least five minutes before storing it.
- Never attempt to make any adjustments while the engine is running.
- Keep all guards and safety devices in place and functioning properly. Do not operate the machine if all safety guards are not in place.
- Do not use the device with the chipper hopper removed.
- The muffler and engine become hot and can cause severe burns. Do not touch.
- Keep children and pets away.
- Tragic accidents can occur if the operator is not aware of the presence of small children.
- Keep children out of the work area and under the watchful eye of a responsible adult other than the operator.
- Be alert and turn off the device if a child enters the area.
- Never allow children to use the chipper shredder.
- Do not overload or attempt to chip material over 10 cm. Personal injury or damage to the device may occur.
- Never use the device at high transport speeds or on hard or slippery surfaces.
- Never allow bystanders to approach the device during operation.
- Use only accessories approved for this machine by the manufacturer. Read, understand, and follow all instructions provided with the approved accessory.
- Operate the device only in daylight. Do not use the device at night or in dark areas where visibility may be impaired.
- Use extreme caution when reversing or pulling the machine toward yourself. NEVER move the device while it is running.
- Do not tamper with the engine governor setting. The governor controls the maximum safe operating speed and protects the engine. Excessive engine speed is dangerous and can cause damage to the engine and other moving parts of the machine.
- Start the engine following the manufacturer's instructions. Keep hands and feet away from the intake and discharge areas.
- Never lift or transport the device while the engine is running.
- Do not operate under the influence of alcohol, drugs, or medication. A clear mind is essential for safety.
- Do not allow anyone who is not alert to use this machine.
- When feeding material into this equipment, be extremely careful not to include pieces of metal, rocks, or other foreign objects. Personal injury or damage to the device may occur.
- Keep the discharge area away from people, animals, buildings, glass, or anything else that could obstruct the discharge, causing injury or damage. The wind can also change the discharge direction, so be careful.
- Never allow a buildup of processed material to accumulate in the discharge area as this will prevent proper discharge and may cause kickback from the chipper shredder hopper.
- Do not allow any part of the engine, especially around the cooling fins and muffler, to become clogged with processed material, leaves, oil, grease, or any other combustible material.
- Do not run the engine if the air filter or the cover over the carburetor air intake is removed, except for adjustment. Failure to remove such parts could create a fire hazard.

SAFETY

SAFE OPERATING PRACTICES

TOWING

- Comply with all state and local regulations when towing on public roads. THIS MACHINE IS NOT TOWABLE ON THE HIGHWAY.
- Before towing, make sure the chipper shredder is properly and securely attached to the towing vehicle and that the safety chains are in place. Leave the chains loose to allow for turning.
- Do not allow anyone to sit or ride on the chipper shredder. This can cause serious injury.
- Be aware of hidden hazards or traffic. Do not carry passengers.
- Never transport loads or wood on the chipper shredder. It may fall and endanger following vehicles.
- Allow for greater length when turning, parking, crossing intersections, and in all driving situations.
- Use caution when reversing. The chipper shredder can easily jackknife.
- Adjust towing speed according to terrain and conditions. Do not exceed 45 MPH while towing.
- Since it has no suspension, the chipper shredder will tend to bounce more on rough roads. Pay particular attention when towing over rough terrain, including railroad crossings.

MAINTENANCE AND STORAGE

- Keep the machine, attachments, and accessories in safe working condition.
- Check that the engine mounting bolts and other fasteners are properly tightened before each use. Never use the chipper shredder in poor mechanical condition or when it needs repairs. Ensure that all safety guards and shields are in the correct position. These safety devices are for your protection.
- Never store the machine with fuel in the fuel tank inside a building where ignition sources are present, such as water heaters, space heaters, dryers, and the like. Allow the engine to cool before storing in any enclosed area.
- Always refer to the operator's manual for important details if the machine is to be stored for an extended period.
- If the fuel tank needs to be emptied, do so outdoors.
- If for any reason it is necessary to clear the intake or discharge openings or to inspect or repair the machine where a moving part could contact the body or clothing, turn off the machine, allow all moving parts to come to a complete stop, disconnect the spark plug wire(s), and allow the engine to cool before attempting to clear, inspect, or repair.
- Check the proper tightening of the blade mounting screws before each use. Also visually check for blade wear or damage. Replace the blade with parts that meet the original equipment specifications.
- The blades must be checked for sharpness and the bolts securing them to the drum for tightness before each operation.
- Replace the self-locking nuts securing the blade each time the blade is replaced.
- Check the gap between the blade and the sliding plate each time the blade is sharpened or replaced.
- Never tamper with safety devices. Regularly check their proper operation.
- Inspect the belt each time the appliance is used. Check for damage, worn areas, or tears. Do not use the appliance if this condition exists.
- Do not tamper with the engine governor setting. The governor controls the maximum safe operating speed and protects the engine. Excessive engine speed is dangerous and can cause damage to the engine and other moving parts of the machine.

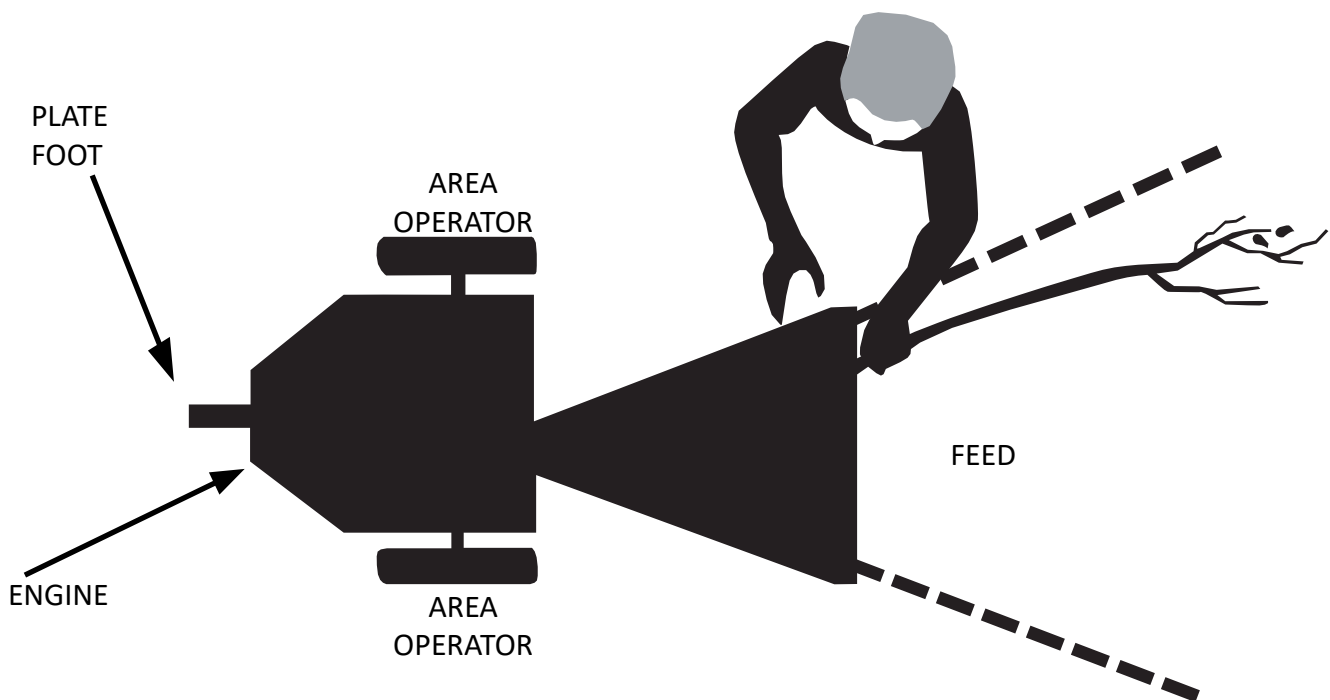
SAFETY

SAFE OPERATING PRACTICES

OPERATOR AREA

- Use the chipper shredder only from the operator area.
- Know how to turn off the appliance.
- Never move the chipper shredder or leave it unattended with the engine running.
- For engine maintenance and repair, refer to the engine instruction manual

TOP VIEW



DANGER: This machine is equipped with an internal combustion engine and must not be used on or near land covered by forests, brush, or unimproved grass unless the engine exhaust system is equipped with a spark arrester in accordance with local or state laws (if any). If a spark plug is used, the operator must maintain it in effective operating condition of the meeting stop device

USER RESPONSIBILITY

- Limit the use of this electric machine to persons who read, understand, and follow the warnings and instructions contained in this manual and on the machine.

KEEP THESE INSTRUCTIONS FOR FUTURE REFERENCE

ASSEMBLY

PACKAGE CONTENTS

LIST	QUANTITY
Chipper Shredder	1 pc
T-wrench	1 pc
Open-end wrench	1 pc

UNPACKING AND CONTENTS CHECK

- Remove all items from the crate.
- After unpacking the crate, compare the contents with the above list.
- In case of missing parts, contact the supplier directly.
- Assembly must be carried out on a clean and flat surface.

Place the shipping crate on a flat surface and carefully remove the lid. Use two people to remove all parts from the crate and inspect the components to ensure there are no missing pieces before starting to assemble the chipper shredder.

1. Connect two tires

Wheels:

Push the axle through the rim, tighten the nut, and secure with a cotter pin. Then install the hubcap.



Axle:

Slightly tilt the blade frame backward and secure the axle with screws, washers, and nuts.



2. Install the base foot

Base foot:

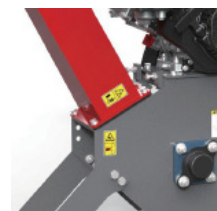
Slightly tilt the blade frame backward and secure the base foot with screws, washers, and nuts.
ITALIAN



3. Install the discharge chute

Discharge chute:

Place the discharge chute on the blade frame so that the mounting holes align with the holes on the discharge chute. Secure with screws, washers, and nuts.



ASSEMBLY

STEP-BY-STEP INSTRUCTIONS

4. Install the feed chute

Feed:

Place the feed on the blade frame so that the mounting holes align with the holes on the feed. Secure with washers and nuts.



5. Connect the emergency line and the engine line

Safety switch:

Connect the emergency line and the engine line



OPERATION

GUIDELINES FOR PROPER USE

BEFORE STARTING THE ENGINE, ALWAYS CHECK THE OIL LEVEL!

REFER TO THE ENGINE OWNER'S MANUAL FOR FURTHER DETAILS ON ENGINE OPERATION AND MAINTENANCE.

NOTE: The engine is shipped without oil! Fill the crankcase with 10w30 oil before starting the engine. Be very careful not to let dirt enter the engine during checking or adding oil or fuel.

OIL

- Use high-quality oil according to the Gasoline Engine Manual.
- Do not use special additives.

CHECKING AND ADDING OIL

- Check the oil level before starting the engine.
- Check the oil level every day or every eight hours.
- Keep the oil level at MAXIMUM.
- Do not overfill.

OIL FILLING PROCEDURE

Follow the engine manual for instructions on filling oil in your machine.

OPERATION

GUIDELINES FOR PROPER USE

OIL CHECKING PROCEDURE

1. Before starting the engine, check the oil level.
2. Place the engine on a level surface. Clean around the oil fill and dipstick.
3. Reinsert the dipstick and remove it to check the oil level.
4. Remove the oil fill cap. Pour the oil slowly.
5. Fill up to the FULL mark on the dipstick: double-check
6. Firmly replace the dipstick.

FUEL

- Use clean, fresh, regular unleaded gasoline as specified in the engine manual.

ADDING FUEL

- Fill the tank outdoors or in a well-ventilated area, away from sparks, open flames, pilot lights, heat, and other sources of ignition.
- If fuel spills, wait for it to evaporate before starting the engine.
- TURN OFF the engine and let it cool for at least 2 minutes before removing the gas cap.
- Remove the cap. Fill the tank to about 38 mm below the top of the neck to allow for fuel expansion. Be careful not to overfill. Replace the cap before starting.

STARTING AND STOPPING

TIPS FOR STARTING AND OPERATION

- Store and refuel equipment in a horizontal position.
- Use fresh fuel.
- Use the correct type of oil as specified in the engine manual.
- Remove external equipment/engine loads.
- Periodically remove any debris buildup from the machine.
- After starting the engine, let it warm up for a few seconds or several minutes, depending on the outside temperature.
- For maximum performance and longevity, operate the engine with the choke ON and accelerate QUICKLY.

ENGINE STARTING

- Check the oil level.
- Open the fuel shutoff valve.
- Move the choke control to the STARTER position.
- Move the throttle to the TURTLE position. Operate the engine with the throttle in the RABBIT position.
- Let the engine warm up. Slowly adjust the choke control toward the RUN position. Wait for the engine to run smoothly before making any air adjustments.

OPERATION

GUIDELINES FOR PROPER USE

ENGINE SHUTDOWN

- Move the throttle to TURTLE.
- Move the throttle lever all the way to the left.
- Refer to the engine manual for instructions.



WARNING: Do not stop the engine by moving the choke control to STARTER. Backfire, fire, or engine damage may occur.

NOTES FOR USE

- At startup, the chipper engine runs at idle at 3600 RPM, while at about 1200 - 1400 RPM the centrifugal clutch engages and begins to drive the rotor.
- The rotor speed is 2400 RPM +/- 200 RPM when the engine is at full throttle.
- When viewed from the operator's area, the flywheel rotates clockwise. This rotation pulls branches into the chipper.
- Always wear protective gloves and safety glasses when operating the chipper.
- If it is necessary to push materials into the chipper hopper, use only a wooden stick, never hands or steel.
- Always keep hands away from the chipper hopper.
- Keep the discharge area away from people, animals, buildings, glass, or anything else that could obstruct the discharge, causing injury or damage. The wind can also change the discharge direction, so be careful.



READ ALL SAFETY GUIDELINES IN THIS MANUAL BEFORE USE.

CHIPPING

IMPORTANT NOTES

THIS CHIPPER IS DESIGNED FOR CHIPPING 10 CM (4") DIAMETER AND SMALLER TREES AND BRANCHES. NEVER USE THIS MACHINE FOR OTHER PURPOSES AS IT MAY CAUSE SERIOUS INJURY.

PROCESSING TREES AND BRANCHES OF 10 CM (4") OR SMALLER

- The chipper can process dry or green material.
- Insert the branch into the chipper hopper.
- Keep the branch at the same angle as the chipper hopper.
- When the branch becomes short and is inside the hopper, finish processing by pushing it into the chipper with the next branch, if necessary.
- If the branches are 5 cm (2") or larger in diameter, insert only one branch at a time.
- If the branches are smaller than 5 cm, more than one at a time can be fed into the chipper.
- Green branches are processed more easily than hardwood.
- Be sure to wear protective gloves when feeding the chipper.

CHIPPING NOTES

- Use common sense when operating the chipper.
- Learn to recognize the change in the machine's sound when it is overloaded.
- Become familiar with proper operating conditions and avoid those that can overload and damage the machine.
- If the machine jams due to overload or any other cause, stop the machine immediately.
- If the machine jams and the engine is not stopped, it is possible to:
 - Burn the belt
 - Damage the clutch

THIS DAMAGE CAN BE COSTLY AND IS NOT COVERED BY THE WARRANTY. FOR THIS REASON, IT IS IMPORTANT TO IMMEDIATELY TURN OFF THE MACHINE IF IT JAMS.

- Only your own operator experience will tell you how quickly to feed trees and branches.
- Check that the flywheel rotates freely before starting the chipper.
- Visually inspect the chipper blade for any damage each time it is used.
- Check the condition of the blade, the condition of the wear plate, and the nuts and bolts holding the blade in place to ensure they are secure before each use.
- To move a pile of processed material, use a shovel, a rake, or a long-handled tool. Never use your hands or feet.

CHIPPING

TROUBLESHOOTING

UNJAMMING A JAMMED DRUM

1. Stop the engine.
2. Remove the spark plug wire and keep it away from the spark plug.
3. Remove any remaining material from the chipper hopper.
4. Use a wrench to rotate the drum shaft, first clockwise, then counterclockwise, until the jam is cleared. See the image below.
5. Remove the deflector.

NOTE: Never pry against the sliding weld when removing the deflector or at any other time. This will cause damage to the machine.

6. Check if the deflector is clogged. If it is, clear it with a branch.
7. Using a wooden stick, loosen and remove all remaining material from the shredding chamber.
8. Reinstall the deflector.
9. Reconnect the spark plug wire and the battery (if present).
10. Start the machine and let the material in the shredding chamber discharge through the deflector.
11. If the chamber does not clear and the basket is still jammed, repeat the above process.
12. Make sure the chipping chamber is clear before attempting to process more material in the chipper.

MAINTENANCE AND STORAGE

HOW TO MAINTAIN YOUR MACHINE



IMPORTANT: The blade must be checked for sharpness and the nuts and bolts securing it to the flywheel for tightness before each operation.



IMPORTANT: Every time maintenance or any type of service or inspection is performed on the blade, be sure to check the gap between the blade and the sliding plate for correct adjustment.

If the cutting mechanism strikes a foreign object or if the device starts to make an unusual noise or vibrate, stop the engine and disconnect the spark plug wires from the spark plugs. Allow the engine to cool before:

- Inspect and examine for obvious damage.
- Check for loose parts, bolts, and nuts.

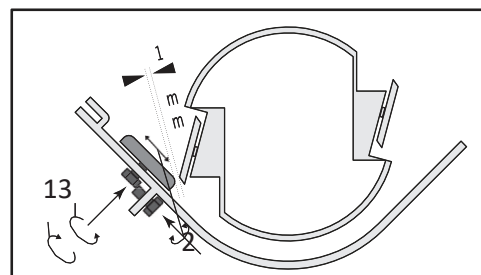
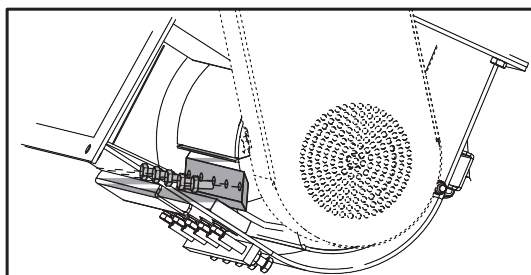
1. When not in use, the chipper must be kept out of the reach of children. Make sure there are no gasoline fumes in the storage area. For long storage periods (during winter), refer to the engine instruction manual.
2. After every 8 hours of operation, lubricate the bearings on the shredding side and the drive side. To do this, clean all dirt, etc., from the grease fittings with a clean cloth, then apply no more than 3 shots of general-purpose quality grease with a hand-operated grease gun. Excessive lubrication can also damage the bearings. Also, regularly check the bearing collar set screws to ensure they are tight. If they are loose, secure them again with Loctite, available at any hardware store.
3. You will find included information regarding the operation and maintenance of the chipper engine.
4. When the steel shredding knife needs to be replaced or sharpened, refer to the section on removal, sharpening, and reinstallation.
5. When installing the new OEM blade, the gap between the blade and the anvil plate must be checked and set. This gap or clearance must be set to 1.58 mm.
6. To adjust this gap, loosen the three nuts and bolts that hold the sliding plate in position. The anvil plate can be slid up or down (in or out) to achieve the correct gap setting.
7. If the distance between the sliding plate and the blade is not set correctly, you will experience excessive vibration during chipping and the blade will appear dull. This should be checked every 8-10 hours of operation.

HOW TO REMOVE THE BLADE

WARNING! Always wear safety gloves when working with blades. This machine is equipped with two reversible blades. When they lose their sharpness, the blades can be rotated to use the second edge. When the second edge is worn, they must be replaced. If you notice increased vibration, it may be due to worn cutting edges; you will also notice that the cut material is in long strips when the blades no longer cut or are worn.

REPLACING THE ANVIL

The anvil is also reversible. When the edge of the anvil is worn, it can be rotated. When both edges are worn, the anvil must be replaced. The gap between the blade and the anvil must always be 1 mm.



MAINTENANCE AND STORAGE

REMOVAL, SHARPENING AND REINSTALLATION OF THE CHIPPER BLADE

BLADE SHARPENING

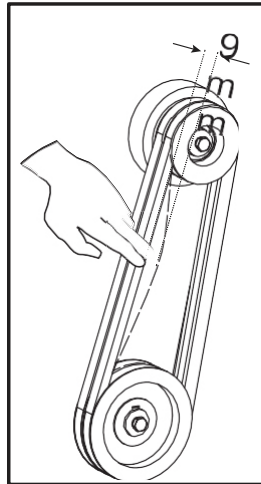
- You should never attempt to sharpen the chipper blade.
- It is extremely important that the 45-degree angle is consistently maintained for proper performance.
- The chipper blade must be taken to a machine shop for proper sharpening.
- Excessive heat generated during the sharpening process damages the blade and weakens the metal.

ADJUSTMENT OR REPLACEMENT OF THE BELT

BELT ADJUSTMENT

The chipper belt should flex 9 mm (3/8") under three kilograms of pressure as shown below. If not, adjust according to the following instructions

1. Remove the belt guard.
2. Loosen the 4 bolts on the engine plate.
3. Move the engine with the horizontal adjustment bolts until the correct tension is achieved as shown below.
4. Retighten the engine bolts.
5. Replace the belt guard.



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NOTE: Check and retighten the belts after the initial break-in period, one hour of use.

MAINTENANCE AND STORAGE

CENTRIFUGAL CLUTCH TECHNICAL TIPS

THE CLUTCH SHOES AND SPRINGS ARE NORMAL WEAR ITEMS. IF YOU NOTICE A DECREASE IN CLUTCH PERFORMANCE, IT MUST BE CHECKED AND REPLACED IF NECESSARY.

The clutch on the machine is designed for robust and reliable service; however, it is important to understand the limits of a clutch. A clutch is designed to provide a no-load start of the engine and to slip in case of excessive overload of the driven application. These features help protect the engine from damage such as broken crankshafts and starters.

The clutch gets its power from engine speed. The lower the engagement speed and the higher the engine speed maintained, the greater the torque the clutch can transfer to the driven unit. Use at full throttle.

- At engine start, the chipper engine runs at idle until about 1000-1200 RPM, at which point the centrifugal clutch engages and begins to drive the rotor.
- The correct rotor speed is 2400 RPM +/- 200 RPM when the engine is at full throttle.
- Do not tamper with the engine governor setting. The governor controls the maximum safe operating speed and protects the engine. Excessive engine speed is dangerous and can cause damage to the engine and other moving parts of the machine. Contact your authorized dealer for engine governor adjustments.
- Become familiar with proper operating conditions and avoid those that may overload and damage the machine.
- Do not overload or attempt to chip material beyond the manufacturer's recommendations. Personal injury or damage to the device may occur.
- Learn to recognize the sound of the machine when it is overloaded.
- If the machine jams due to overload or any other cause, stop the machine immediately.
- If the machine jams and the engine is not stopped, you may:
 - Burn the belt.
 - Damage the clutch.
- Only your own operator experience will tell you how quickly you can feed branches into the machine.
- Clutch damage can be expensive and is not covered by the warranty. For this reason, it is important to immediately shut off the machine if it jams.

MAINTENANCE AND STORAGE

CENTRIFUGAL CLUTCH TECHNICAL TIPS

CLUTCH MAINTENANCE

The centrifugal clutch on this machine is permanently lubricated and does not require oil or grease. If, after long periods of use, the drum wobbles excessively, replace the drum assembly. Always replace the shoes and springs in sets. Every time the shoes are changed, replace all the springs.

CLUTCH REMOVAL

1. Remove the clutch from the shaft by removing the bolt and washers.
2. Slide the clutch shaft
3. Remove the key from the slot.

INSTALLATION OF A NEW CLUTCH

1. Clean the shaft and remove burrs.
2. Apply anti-seize compound to the shaft.
3. Place the key in the shaft slot.
4. Slide the clutch onto the shaft, secure it with a bolt, a flat washer, and a lock washer.
5. Tighten the two hex socket set screws.

MAINTENANCE AND STORAGE

TROUBLESHOOTING

Depending on the symptoms observed, you can identify the probable cause and resolve the problem.

SYMPTOMS	PROBLEM	CORRECTION
The machine does not operate correctly	The blades are worn.	Sharpen or replace the blades
The rotor does not draw in the wood	The branch diameter is too large	Remove branches with a diameter greater than allowed.
The shredded material does not have the same thickness	The space between the blades is not correct	Adjust the gap to 1 mm.
The engine does not start or stops by itself	Engine electrical problem	Avoid accidental starting of the device. Check that the switch is in the ON "I" position. Make sure that the SC system is set to ON.
	No gasoline	Add fuel
	There is no engine oil or it is low	Add oil
The machine gets stuck during use.	The branch diameter is too large	Turn off the engine and remove the spark plug cap. Remove the rotor shaft cap. Rotate the rotor a few degrees with a wrench specially designed for this purpose. Leave the rotor locked with the wrench. Remove the material from the intake tube with the help of a stick or tool and restart the machine. If necessary, replace the blades.
The engine does not start because the rotor is blocked	The impeller or blades have wood residues or pieces attached to them	

If the machine does not start, check the engine compression and the spark from the spark plug:

The cylinder compression is normal	The spark plug is OK	Probable cause	Corrective action
YES	YES	There is no fuel in the tank	Fill the tank with fuel
		The gasoline filter is dirty	Clean the filter
		There is water in the fuel	Replace the fuel
		The gasoline used is not the right type	Change the fuel with one with adequate octane
		The carburetor is dirty	Send your machine to the service technician
YES	NO	The switch is "O"	Turn the switch to "I"
		The spark plug is dirty	Clean the spark plug
		The spark plug wire is not connected	Connect the spark plug
No compression	YES	The spark plug is loose	Tighten the spark plug
The piston and its rings are worn		Send your machine to the service technician	
The engine does not turn		The cylinder is scratched	Send your machine to the service technician
		Cold engine	Send your machine to the service technician

EC DECLARATION OF CONFORMITY - HERSTELLERERKLÄRUNG - DECLARATION 'CE' DE CONFORMITE - DECLARACION DE CONFORMIDAD - DICHIARAZIONE DI CONFORMITA' EUROPEA - GELIJKVORMIGHEIDSVKLAARING - EC DEKLARATION I OVERENSSTEMMELSE - DECLARAÇÃO CE DE CONFORMIDADE - EY ILMOITUS - FORSAKRAN OM OVERENSSTAMMELSE - BEKREFTENDE EU ERKLÆRING - ΔΗΛΩΣΗ ΕΚ ΣΥΜΜΟΡΦΩΣΗΣ - EUROPEJSKA DEKLARACJA ZGODNOSCI

1) MANUFACTURER – HERSTELLER – FABRICANT – FABRICANTE – COSTRUTTORE – CONSTRUCTEUR – PRODUCENT – FABRICANTE – VALMISTAJA – TILLVERKARE – FABRIKANT – Κατασκευαστής – PRODUCENT:

Blue Bird Industries Fabbrica Motori SRL
Via Due Camini 19, 36010 Zanè (VI), Italia

2) DESCRIPTION OF THE MACHINERY – BESCHREIBUNG DER MASCHINE – DESCRIPTION DE LA MACHINE – DESCRIPCION DE LA MAQUINARIA – DESCRIZIONE DELLA MACCHINA – BESCHRIJVING VAN DE MACHINE – BESKRIVELSE AF MASKINEN – DESCRIÇÃO DA MAQUINA – KONEEN NIMITYS – MATERIELSLAG – BESKRIVELSE AV MASKINERIE – ΠΕΡΙΓΡΑΦΗ ΤΩΝ ΜΗΧΑΝΩΝ – OPIS MASZYN:
CIPPATRICE / WOOD CHIPPER

a) MAKE – FABRIKAT – MARQUE – MARCA – MARCA – MERK – MÆRKE – MARCA – MERKKI – FABRIKAT – FABRIKANT – MAPKA – MARKA:

BLUE BIRD INDUSTRIES Fabbrica Motori srl
Via Due Camini 19, Zanè, Italia

b) TYPE / TYP / TYPE / TIPO / TIPO / TYPE / TYPE / TIPO / MALLI / TYPBE / TYPE / ΤΥΠΟΣ / ΤΥΡ:

SHL 1000
SHL 1200

c) Il prodotto è conforme alle direttive - The product complies with the directives - Das Produkt entspricht den Richtlinien - Le produit est conforme aux directives - El producto cumple con las directivas :

- 2006/42/EC – 2014/30/EU – 2000/14/EC (2005/88/EC) – 2011/65/EU

d) REFERENCE TO STANDARDS/HARMONIZED STANDARDS - VERWEIS AUF NORMEN/ARMONISIERTE NORMEN - REFERENCE AUX NORMES/NORMES HARMONISEES - REFERENCIA A ESTANDARES/ESTANDARES ARMONIZADOS - RIFERIMENTO ALLE NORME/NORME ARMONIZZATE - REFERENTIE NAAR STANDAARDEN/GEHARMONISEERDE STANDAARDEN - REFERENCE TIL STANDARDER/HARMONISEREDE STANDARDER - REFERENCIA AS NORMAS/NORMAS HARMONIZADAS - VITTAUS STANDARDEIHIN/YHTEISIIN STANDARDEIHIN - REFERERANDE TILL STANDARDER/HARMONISERADE STANDARDER - HENVISNING TIL STANDARD/FELLES STANDARD - ΑΝΑΦΟΡΑ ΣΤΑ ΠΡΟΤΥΠΑ/ΕΝΑΡΜΟΝΙΣΜΕΝΑ ΠΡΟΤΥΠΑ - ODNIESIENIE DO NORM/NORM ZHARMONIZOWANYCH:

EN ISO 12100:2010

2000/14/EC (2005/88/EC) – Livelli di potenza sonora come da allegato V – Sound Power Levels performed per annex V	
TIPO	Livelli di Potenza Sonora Misurata / Livelli di Potenza Sonora Garantita LWA Sound Power Levels Measured / Sound Power Level Guaranteed LWA (dB)
SHL 1000	92/115
SHL 1200	96/119

Importato da - Imported by - Eingeführt von - Importé par - Importado por:



BLUE BIRD INDUSTRIES – FABBRICA MOTORI s.r.l.
ZANÈ (VI) – ITALIA 19-09-2023
The chairman – Der vorsitzender – Le président – El presidente – Il presidente – De voorzitter – Daglig leder – O presidente – Toimitusjohtaja – Verkställande direktör – Administrerende direktør – Ο ΠΡΟΕΔΡΟΣ - Prezes

VANDA VITELLA

- (GB) Technical documentation maintained by
(F) Documentation technique maintenue par
(I) Documentazione tecnica conservata da
(DK) Teknisk dokumentation tilhandhællen av
(FI) Teknisten asiakirjojen ylläpitäjä
(NO) Teknisk dokumentasjon vedlikeholdt av
- (D) Technische Dokumentation aktualisiert durch
(E) Documentacion tecnica mantenida por
(NL) Technische documentatie onderhouden door
(P) Documentação tecnica mantida por
(SE) Teknisk dokumentation tillhandhållen av
(GR) τεχνικό φάκελο που τηρείται από

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VANDA VITELLA



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