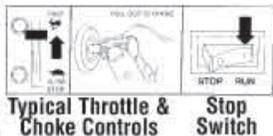


OPERATING INSTRUCTIONS FOR CMS 100 USER

- 4)  Open fuel shut-off valve, located on fuel tank. Move choke control to Choke or Start position:
NOTE: CHOKE MUST FULLY CLOSE MOVE THROTTLE CONTROL TO RUN OR FAST POSITION. TURN KEY TO "ON" POSITION. OPERATE ENGINE AT MAXIMUM RPMs



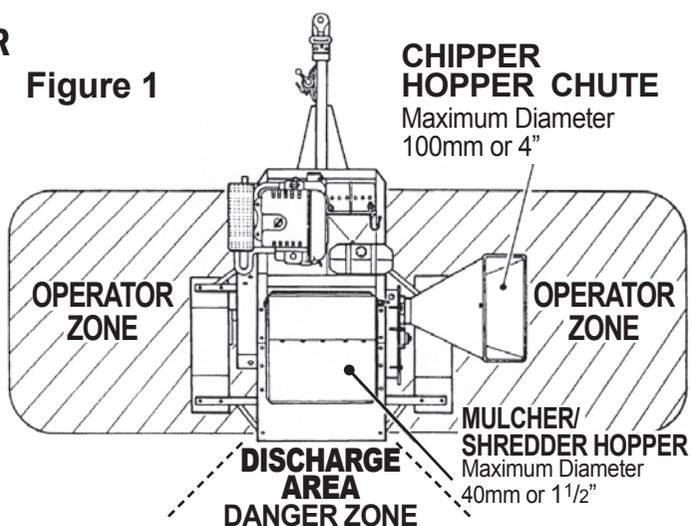
- 5) **SHREDDER HOPPER** (See Figure 1) As the engine ignition begins, the engine shaft operates freely until approximately 1700 RPM at which speed the centrifugal clutch engages and begins to drive the rotor assembly. Operating RPM for the rotor assembly is approximately 2000rpm. The centrifugal force of the rotor assembly extends four rows of free swinging hammers that cut, shred, mulch, and grind the ingested material commonly known as "The Hammermill Effect", until the material is small enough to pass through the screen at the discharge end of the machine. The Red Roo Hammermill has 60 12mm (1/2") free-swinging hammers with four cutting corners. The number of cuts by the hammers and of course the retention time within the chamber varies with each different type of organic material. **DO NOT PLACE BRANCHES THAT EXCEED 40mm or (1 1/2") IN DIAMETER THROUGH THE MULCHER/SHREDDER HOPPER.**

- 6) **CHIPPER HOPPER** (See Figure1) Branches are fed into the side chipper hopper/chute for woodchipping. Place one branch at a time if the diameter of the branch exceeds 40mm (1 1/2"). Place several together if the branches are of smaller diameter. Due to the fact that the throat opening is approximately 100mm (4") square, some branches may have to be trimmed from the main trunk before the chipping process. Short stubs (pieces) may be pushed through the chipper hopper with the next branch. **NEVER ASSUME YOU KNOW WHERE THE CHIPPING BLADE IS LOCATED / NEVER TRY TO PUSH SHORT BRANCHES IN BY HAND**

 **BE SAFE, AT ALL TIMES KEEP YOUR HANDS AWAY FROM THE CHIPPING BLADES**

- 7)  **CAUTION:** If shredder mulcher/hopper or chipper chute/hopper bridges or clogs with material **STOP THE ENGINE IMMEDIATELY TO PREVENT CLUTCH DAMAGE**
- 8)  **DO NOT** allow the accumulation of processed material to build up under the discharge area (see figure 1) of the mulcher shredder as this can prevent following mulched/shredded material to discharge properly and will result in clogging.
- 9) **NEVER ALLOW YOUR HANDS OR ANY PART OF YOUR BODY OR CLOTHING INSIDE THE CHIPPER CHUTE/HOPPER OR MULCHER SHREDDER/ HOPPER OR DISCHARGE AREA OF THE MULCHER SHREDDER**

Figure 1



Stay well clear of this area at all times

- 10) **ALWAYS STAND CLEAR OF THE DISCHARGE AREA WHEN THE MACHINE IS IN OPERATION**
- 11) Keep your face and body away from the from the chipper chute/hopper and the mulcher shredder/hopper to avoid being struck by any material that may bounce back. **DO NOT OVER REACH, ALWAYS KEEP PROPER BALANCE AND FOOTING. ALWAYS OPERATE THIS MACHINE ON LEVEL GROUND**
- 12) **STOP ENGINE:** Do not move the choke control to the **CHOKE** position to stop the engine. Backfire or engine damage may occur
- 13) Move throttle control to the slow position
- 14) Turn the key to the off position. Allow the machine to cool down



AFTER USE

- 1)  Turn fuel tap to the off position located on fuel tank
- 2)  Allow the machine to cool down
- 3) Keep the machine clean using warm soapy water.
- 4) Make sure that no water enters the carburetor

safety
IS EVERYBODY'S BUSINESS
...now

You alone know the operational demands and special conditions affecting the equipment in your situation and therefore assume the responsibility for developing, carrying out, and enforcing the safety concepts which apply to your own operation to effect the greatest safety for yourself and the people around you.

 **RED ROO**

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OPERATING INSTRUCTIONS FOR CMS100 USERS



**CMS100
MULCHER
CHIPPER
SHREDDER**

 **REDROO.com**

Online Demonstration Available at:
www.redroo.com/products/chipper/mulcher

SAFETY INSTRUCTIONS FOR CMS100 USERS

USE COMMON SENSE AND PLENTY OF IT OPERATOR MUST BE TRAINED

- 1) **DO NOT** allow any person to operate the chipper mulcher shredder without first reading and understanding the safety and operating instructions.

KNOW THE CONTROLS AND HOW TO STOP THE CHIPPER MULCHER SHREDDER QUICKLY IN AN EMERGENCY

- 2) **NEVER** allow **CHILDREN** or **UNTRAINED ADULTS** to operate the chipper mulcher shredder.

3) **PPE (Personal Protection Equipment)** is mandatory before

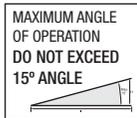


operating this machine. **ALWAYS** wear protective clothing when operating the chipper mulcher shredder. This includes, but not limited to; safety glasses, loose fitting gloves, steel capped boots and hearing protection. **NEVER** wear loose fitting clothing or jewellery when operating the chipper mulcher shredder. Keep all clothing away from moving parts. Clothing could become caught in the machine resulting in injury.



- 4) **ALWAYS** operate the chipper mulcher shredder in a well lighted area.

5) **ALWAYS** operate the chipper mulcher shredder on level ground only. Keep your work area clear and free of debris. Never attempt to move the chipper mulcher shredder over uneven or hilly ground without a tow vehicle or adequate help.



6) **NEVER** operate the chipper mulcher shredder when fatigued. **ALWAYS BE ALERT!** If you get tired while operating the chipper mulcher shredder take a break. If you have any type of physical or mental condition that may be aggravated by strenuous work, consult with your physician before operating this piece of equipment. **NEVER** operate the chipper mulcher shredder under the influence of medication, alcohol or drugs.

- 7) **DO NOT** allow other adults, children or animals near the chipper mulcher shredder. **IT IS THE RESPONSIBILITY OF THE OPERATOR** to keep bystanders and animals a minimum of 6 metres (18ft) away from the chipper mulcher shredder while in operation.

- 8) **NEVER PUT YOUR HANDS, FEET OR ANY OTHER PART OF YOUR BODY INTO EITHER THE CHIPPER CHUTE/HOPPER, OR MULCHER SHREDDER/HOPPER.** Use a stick, not hands to push limbs into the chipper chute/hopper, and mulcher shredder/hopper if there is a blockage.

- 9) **NEVER** remove the guarding attached to the chipper chute/hopper, mulching shredder/hopper, rear discharge or the main drive belts. These protective devices must be in place and in good working order at all times during the operation of the chipper mulcher shredder. This guarding assist with minimizing material flyback / discharge. **NEVER** use the chipper side of this machine with the chipper chute/hopper removed. Keep the chipper mulcher shredder well maintained at all times.

- 10) **DO NOT** leave the machine unattended while the engine is running.

- 11) **DO NOT** overspeed the engine or alter the governor settings. Excessive speed is dangerous and will shorten engine life.

- 12) **NEVER OPERATE THE CHIPPER MULCHER SHREDDER IN AN ENCLOSED AREA.** Engine exhaust contains carbon monoxide, an odourless and tasteless poison that can kill.

- 13) **STOP** the engine, disconnect the spark plug leads and allow engine to cool before inspecting or performing maintenance.

- 14) **REFUELING**
 *Shut off engine. **DO NOT REFUEL AN ENGINE WHILE OPERATING MACHINE!**
 ***ALLOW** engine to cool down; minimum 5 minutes.
 ***USE UNLEADED FUEL ONLY**
 ***USE CLEAN FRESH UNLEADED FUEL**
 *Do not mix oil with unleaded fuel
 *Do not over-fill fuel tank. Allow space for fuel expansion
 *Do not smoke near machine
 * Allow no naked flame or hot material in refuelling area
 *Use only approved fuel containers and funnels. **REMEMBER FUEL IS A POTENTIAL FIRE HAZARD**



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CMS100 OPERATING INSTRUCTIONS

TRANSPORT



- 1) **DO NOT** exceed 80kms (50mph) per hour when towing this machine. **IT IS THE RESPONSIBILITY OF THE INDIVIDUAL TOWING THIS CHIPPER/MULCHER/SHREDDER TO MAKE SURE THEY HAVE SECURED THE MACHINE PROPERLY TO THE TOW VEHICLE.** Make sure that the trailer coupling and the safety tow chain are secured properly and that the lights are operating correctly.

BEFORE USE

- 1) **WARNING:** Before starting the engine, carefully inspect the chipper chute hopper, and mulcher shredder hopper. Remove any foreign debris or branches, stones, cans, nails, sweepings, wire, etc.
- 2) Perform a thorough visual inspection of the chipper mulcher shredder and the chipper disc drive system, make sure that everything is in good working order

OPERATION



- 1) Familiarize yourself with the chipper mulcher shredder and its controls.
- 2) **PPE (Personal Protection Equipment) is mandatory before operating this machine.** Wear safety glasses or helmet and visor combination, loose fitting gloves, hearing protection, and steel caps boots when operating this machine.
- 3) No foreign objects such as stones, steel, cans, wire, rope or nails should be fed into this machine as damage to the machine will occur