



**OXDALE PRODUCT LTD**



**OPERATING AND MAINTENANCE MANUAL**

**SE400 LOG SPLITTER**



**KEEP FOR FUTURE USE**

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## **SAFETY**

**OXDALE PRODUCRS REQUIRES THAT ANYONE OPERATING OR MAINTAINING THE LOG SPLITTER SHALL READ AND UNDERSTAND ALL SAFETY, OPERATION AND MAINTENANCE DATA CONTAINED IN THIS USER MANUAL BEFORE USING THE LOG SPLITTER.**

The log splitter is powered by a Honda Engine. A copy of the Honda owner's manual should accompany this instruction manual. Please contact us if this is missing. Hydraulic action provides the force to drive a splitting wedge into a log. Never operate the log splitter persons are in the area, especially small children. Hazards associated with log splitting may be pinch points, splinters, eye injury and entanglement.

**IT IS FOR SINGLE PERSON USE ONLY.**

**YOU ARE RESPONSIBLE FOR THE SAFE OPERATION AND MAINTENANCE OF THE LOG SPLITTER. THE MOST IMPORTANT SAFETY DEVICE ON THE EQUIPMENT IS THE SAFE OPERATOR.**

- Never put hands or fingers between the wedge and the log to be split or near moving parts. Always stop the machine before cleaning it or making adjustments.
- The operator should wear suitable PPE including eye protection, gloves and safety boots. Close fitting clothing should be worn to reduce the risk of entanglement. The safety decals and other labels on the machine are shown on the following page.

- Never stand either side of the log splitter whilst operating. Logs can sometimes split apart violently e.g. due to knots. Stand in front of the machine to minimise risk from falling debris.
- Never hold the top of the log whilst setting in place or splitting.
- Never split two logs on top of each other.
- The log splitter is very powerful but some hard or wet wood can be difficult to split. Do not force the wedge as this could cause injury to yourself and cause damage to the log splitter.
- Never let children operate machinery.
- Do not leave machinery unattended whilst it is running.
- Both ends of each log should be cut as square as possible to help prevent the log from riding out of the splitter. This is also aided by the three holes in the log platform having raised edges to reduce the risk of slipping.
- Always choose a working area free from obstructions and then keep the working area free from obstructions such as logs and split wood.
- Machine is for **single person operation only using both hands on the operating lever.**
- Operate splitter on solid ground level.
- The log splitter is designed only for splitting wood. Using it for any other purpose may damage it and be dangerous to the user and others.
- Ensure that the machine is stable at all times when in use and is stored safely when not in use in a dry place.

## Notes

## RELATED PRODUCTS

### Sawbench

Available as Electric (240v) or PTO.

**Electric** – Swinging cradle, 600mm blade, cuts logs up to 10” diameter.



**PTO** – Grizzly 700R has a swinging cradle, suitable for logging, balanced blade for smooth and efficient cutting, 700mm blade which cuts logs up to 12” diameter.



### Log Grab

Available in two sizes (42cm and 70 cm log diameter.)

### Rear Mounted Crane

Ideal for lifting and moving heavy items behind your tractor and is available with or without lifting chains and timber grab.



- Ensure that the accompanying Honda engine manual and its safety decals are referred to.

## LABELS

The RT400 log splitter should have the following labels attached. If any safety decals are missing or illegible they should be replaced immediately.

## SAFETY LABELS



## WARNING NOTICES

### WARNING!

**“Danger! Keep clear of moving parts!”**

**“To be operated by one person only!”**

**“Wear hearing protection!” (except electric machines)**

**“Read instruction manual before use!”**

## Other Information

<b>Manufacturer</b>	<b>Oxdale Products Unit 20 – 21 Foxwood Road Off Sheepbridge Lane Chesterfield S41 9RF</b>
<b>Year of Construction</b>	
<b>Machinery Type</b>	<b>SE400</b>
<b>Mass of Machine</b>	
<b>Serial Number</b>	
<b>Max. Hydraulic Oil Operating Pressure</b>	

**Oxdale Products  
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**B5**

**DECLARATION OF CONFORMITY FOR CE MARKING**

**Company contact details:**

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**Ondale Products Ltd declares that the product:**

Ondale SE400 log splitter

**Conforms with the following EU Directives:**

Directive 2006/42/EC Machinery

**And conforms with the following EU Harmonised Standards:**

EN 609-1:1999

**Name of signatory:** Chris Butcher

**Position of signatory:** Director

**Signed:** *C. Butcher* **Dated:** 20/1/13 **Place:** Stanfree

**QUICK GUIDE**

**Before First Use**

Before the log splitter can be used for the first time:

- Fill the engine with engine oil.
- Fill the engine with petrol.
- Fill the hydraulic oil tank.
- Ram collar to be greased.

**Pre-Operation Checklist**

It is important for both personal safety and maintaining the good mechanical condition of the log splitter that this checklist is followed.

- Grease the slider every 10 hours of operation and pre/post season.
- Check that all hydraulic fittings and connections are tight and in good condition.
- Check for damaged, worn, missing parts and replace if necessary.
- Replace missing or illegible safety decals.

**Operating Checklist**

- Position the log splitter on solid level ground when operating.
- Start the engine and adjust the throttle to suit the work being done (check the engine manual for details.)

- Using both hands lift the handle to lower the ram and lower the handle to raise the ram.
- Operate the ram to lift the wedge above the height of the log to be split.
- Position the centre of the log under the wedge. Move the wedge until contact is made with the log.
- Keep two hands on the control levers whilst splitting the log. The speed can be controlled by how much pressure you put on the control valve.
- Stop splitting if the log starts to go sideways and reposition as per the above instructions.
- Should the wedge lock or become stuck in the log, return the wedge to the fully open position and gently rock the log free before continuing.

#### Post Operating Checks and Maintenance Instructions

- Wipe off your log splitter with a damp cloth periodically to keep it free of debris.
- It is recommended that you store your splitter in a dry place when not in use.
- The splitting wedge may need to be sharpened periodically, just using a file.

#### Storage and Transportation

- The SE400 should be stored in an upright, vertical position.
- Should be stored in a dry location.
- Should be stored in a safe location where the machine will not get knocked over.
- The SE400 should be transported in a vertical position and should be strapped securely.

#### TECHNICAL SPECIFICATIONS – SE400

Log Splitter		Log Splitter Ram		Model No	
Weight	101kg	Max pressure	4780psi/330bar		
		Ram Bore Diam.	60mm		
		Ram Stroke	400mm		
		Ram Rod Diam.	40mm		
Engine	Honda GX200	Pump	Saturn Group 2 E-10-N		
HP	5.5 at 3600rpm	Input Speed	3000rpm		
Fuel Cons.	1.9 L/hr	Torque	33n/m		
Noise Level	92 db (A)	Displacement	5 cc/rev		
		Flow	1.5 l/min		
		Max Cont. Pressure	250bar 3625psi		
		Max Peak. Pressure	290 bar 4200 psi		
Filter	MP Filtri MPF0301AG-1P25NB	Spool Block	MB2		
Type	Return	Max Cont. Pressure	250bar 3600psi		
Filter Code	0301P25NB	Max Peak Pressure	320bar 4600psi		
		Max Back Pressure on Port T	30bar 430 psi		
		Port Marked P	Pressure Line		
		Port Marked T	Exhaust Line		
		Relief Valve Setting	220bar 3150psi		



## WARRANTY INFORMATION

Warranty claims which arrive because of incorrect operation, insufficient maintenance or the use of non – approved consumables e.g. lubricants and hydraulic oils will not be accepted by the manufacturer.

Only original Oxdale parts may be used. When ordered replacement parts please provide the model name and number. Pressure adjustments to the valves must only be carried out by Oxdale authorised dealers.

No liability is accepted for damage caused by Oxdale products in so far as they are caused by incorrect repairs or the non – use of original Oxdale replacement parts or in so far as repairs have not been carried out by Oxdale or a pre – authorised specialist, The same applied to auxiliary parts and accessories.

All warranty claims are on a return to manufacturer basis.

## In Depth Instructions

### Before First Use

#### FILL THE ENGINE WITH ENGINE OIL AND PETROL

Due to regulations, the log splitter must be supplied and shipped without any oil.

Before the engine can be started for the first time it needs to be filled with engine oil and petrol. Please refer to the Honda engine manual for details on how to fill the engine with oil and petrol.

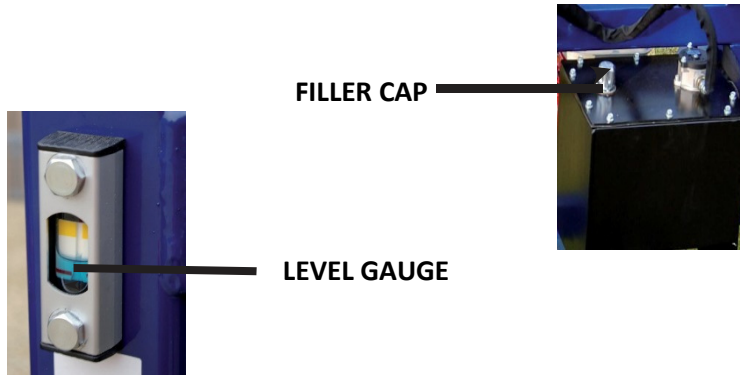


### Filling the Tank with Hydraulic Oil

The hydraulic oil tank holds approximately 14 litres of hydraulic oil. We recommend using ISO 46 type oil. The tank is filled through the filler cap on top of the unit.

Pour the oil in until you have filled the tank as indicated on the level gauge.

Please note, once the unit has been run for the first time and the pump filter and pipe work filled you will need to top up the tank.

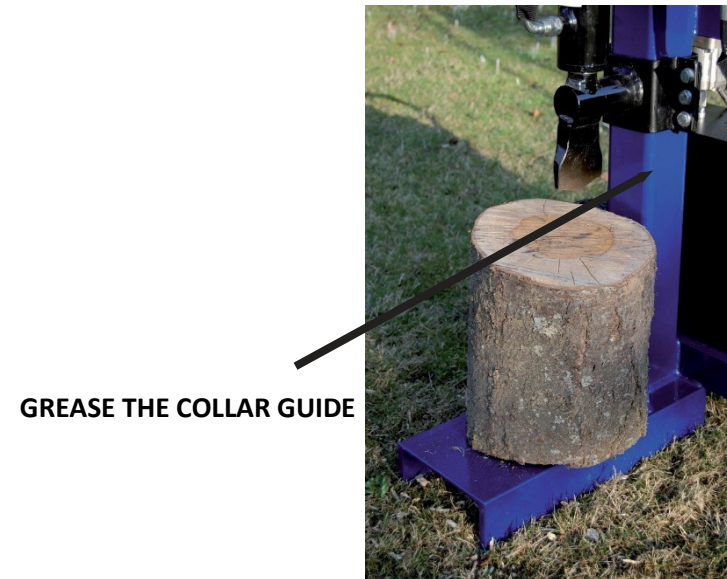


### Greasing

The ram collar needs to be greased where it slides down the guide. This will help to reduce the friction and help the unit run more smoothly. This needs to be carried out every 10 hours or alternatively at the start of each day.

### Greasing

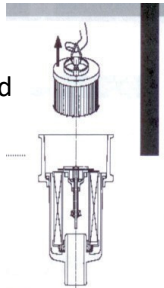
Keep the collar guide of the unit greased. This will help the log splitter to run more smoothly.



Please be aware that hoses and fittings can become very hot from heavy use and should be checked with caution. Place your hand near the connection to sense for heat before touching the connection. If the area is hot you should allow it to cool down before touching any heated connections.

Hydraulic pumps and control valves operate with minute clearances (tolerances.) Grit, grime and dirt pushed through these openings can eventually wear the surfaces and damage the system.

Clean hydraulic oil must be used. The fill area and connections must be kept clean as well. Dirt is the greatest source of hydraulic system damage.



### Filter Element Replacement

Remove the top cover on the filter body and using the handle on top of the filter remove this from the filter body. To replace this, reverse the removal process.

Looking after the hydraulic oil is very important. This keeps the oil free from contamination and will reduce the need to change the oil.

If you need to change the oil you can drain the oil through the feed pipe to the pump. Remove the pipe from the pump and drain the oil into a suitable container. If you are replacing the oil then you will also need to replace the filter element. Replace the filter before refilling the oil tank. Check the oil level once the machine has been run and top up as required.

## OPERATING INSTRUCTIONS

The log splitter is designed for splitting logs only AND IS FOR SINGLE PERSON USE. It can handle logs no bigger than 450mm and having a diameter no bigger than 900mm and no smaller than 75mm in diameter.

Only persons who are competent to do so and having read this manual, in full, should use the log splitter.

Before using the log splitter for the first time each day a visual inspection should be carried out, taking note of any damage and leakages and ensure that they are fully repaired before use.

When operating the unit, it should be positioned on solid and as far as possible, level ground. Wheel blocks should be used to prevent movement of the machine. Both hands should be kept on the handle when the ram is being extended and retracted. Lifting the handle will extend the ram and lowering the handle will retract the ram.



**With both hands on the handle, lift to lower the wedge.**

The handle will return itself to the neutral position when not lifted or lowered. In this position, there will be no movement of the wedge.



Lowering the handle will lift the wedge.

Pick the log to be split. This should have been cut square at both ends. This is very important as it will reduce the chance that the log will slip.

Position the log under the wedge with the point of the wedge in the centre of the log, place both hands on the handle and lift to lower the wedge into the log.

Stop lowering the wedge if the log starts to go sideways and reposition. If the wedge gets stuck, return the wedge to the fully open position and rock the log free before continuing.

When splitting wood always stand in front of the unit and not to the side as logs can split with some force and be thrown off the unit to the sides. Always keep other people and pets/animals out of the area when splitting logs.

## POST OPERATING CHECKS AND MAINTENANCE GUIDE

The machine must be switched off before any cleaning or adjustments are carried out. The removal of wood chips etc from the unit and the removal of contaminated grease from the wedge collar is strongly advised.

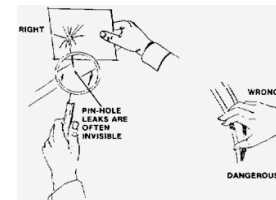
Sharpen the wedge as and when required. This can be done with a file.

Check for any loose bolts or any other damage at regular intervals.

If the log splitter is going to be stored then this should be in a dry location in the upright, vertical position.

### Hydraulic System

Periodically check the hydraulic oil level with the gauge on the side of the unit and top if required.



Check for oil leaks, worn hoses and loose fittings. The pressure in the hydraulic system can exceed 2000 PSI. Reinforced hoses can develop pin hole leaks and hydraulic connections can vibrate loose. Hydraulic leaks may be hard to see. Never check for leaks with your hand as the high pressure can inject oil under the skin. This is a medical emergency and if this happens immediate medical attention must be sought.