

Where to find us



OXDALE PRODUCTS LTD



Facebook	@OxdaleProducts
Instagram	@oxdaleproducts
Twitter	@oxdaleproducts
TikTok	@oxdaleproducts
Email	sales@oxdaleproducts.co.uk
Telephone	01246 529020
Location	Unit 20-21, Foxwood Road, Chesterfield, S41 9RF



Operating and Maintenance Manual

PTO600 Log splitter

KEEP FOR FUTURE REFERENCE

Contents

Safety	3
Labels	5
Quick Guide Inc. Storage and Transport	6
In Depth Instructions	8
Operating Instructions	11
Post Operating Checks and Maintenance	14
Warranty Information	18
Technical Specifications	19
Certificate of Conformity	20
Contact Details	21

Other Information

Manufacturer	Oxdale Products Unit 20-21, Foxwood Road, Off Sheepbridge Lane, Chesterfield, S419RF
Year of Construction	2023
Machinery Type	PTO600
Mass of Machine	
Serial Number	
Max. Hydraulic Oil Operating Pressure	

Oxdale Products Ltd
Units 20-21 Foxwood Road,
Off Sheepbridge Lane,
Chesterfield,
S41 9RF



Tel: 01246 529020

Email: sales@oxdaleproducts.co.uk

Web: oxdaleproducts.co.uk

Registered Address:

Oxdale Products Ltd
Units 20-21 Foxwood Road
Off Sheepbridge Lane
Chesterfield
S41 9 RF
Company number: 6490139 England & Wales

DECLARATION OF CONFORMITY FOR CE MARKING

Company contact details:

Oxdale Products LTD (formerly CS Trading),
Units 20-21, Foxwood Rd, Chesterfield, Derbyshire, S41 9RF, UK

Registered Address:

Units 20-21, Foxwood Rd, Chesterfield, Derbyshire, S41 9RF, UK

Telephone:

01246 529020

Technical file compiled by:

Brian Thurman, Cobweb Cottage, 43 Main Road, Higham, Derbyshire, DE55 6EH,

Oxdale Products LTD declares that the product:

Oxdale TM400 log splitter

Conforms with the following EU Directives:

Directive 2006/42/EC Machinery

And conforms with the following EU Harmonized Standards:

EN 6091:2017

Name of signatory: Chris Butcher

Position of signatory: Director

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

Safety

Oxdale Products' require 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 an attachment for tractors. It is for **single person use only**. Hydraulic action provides the force to drive the splitting wedge into the log. Never operate the log splitter if unauthorised persons are in the area, especially small children.

Hazards associated with log splitting may be pinch points, splinters, eye injury and entanglement.

You are responsible for the safe operation and maintenance of the log splitter. The most important safety device on the equipment is a safe operator.

- Never put hands or fingers between the wedge and log to be split or near moving parts. Always stop the machine before cleaning or making adjustments.
- The operator should wear suitable PPE including eye protection, gloves, ear protection and safety boots. Close fitting clothing should be worn to reduce the risk of entanglement
- Never stand either side of the log splitter whilst operating the machine as sometimes logs can split apart violently. Stand in front of the machine to minimise the risk from falling debris.

Technical Specification—PTO600

- Never hold the top of a log whilst setting into 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 can cause injury to yourself and damage to the log splitter.
- Never let children operate the log splitter.
- Do not leave the machine unattended when running.
- Both ends of the log should be cut as square as possible to help prevent the log from riding out of the log splitter. This is also aided by the three raised holes on the base of the splitter.
- Always choose a working area free from obstructions.
- The machine is for **single person use only, using both hands on the operating lever.**
- Operate the log splitter on solid, level ground.
- Always ensure the parking brake is engaged on the tractor.
- The log splitter is designed to only split wood. Using it for any other purpose may result in injury or damage to the machine.
- Ensure that the machine is securely attached to the tractor at all times when in use.
- Store away safely in a dry place when not in use.

Log Splitter		LogSplitter Ram	Model No.
MAX PTO SPEED	540rpm	Max Pressure	4780psi 330 Bar
Min HP	6hp	Ram BoreDiam	60mm
Weight	210kg	Ram Stroke	400mm
Tractor Mounting	Cat 1 / 2	Ram Rod Diam	40mm
Gear Box	Hydrapp ML32-3.8	Pump	Saturn Group 2 E-10-N
Input Speed	540rpm	Input Speed	540rpm
Output Speed	2052rpm	Torque	33n/m
Max Output Speed	3000rpm	Displacement	16cc/rev
Max Input Toque	159 n/m	Flow	32 l/min
Max Output Toque	42 n/m	Max Cont. Pressure	250 bar 3625psi
Oil Type	SAE 90Gear Oil	Max Peak Pressure	290 bar 4200psi
Filter	MP Filtration MPF0301AG- 1P25NB	Spool Block	MB2
Type	Return	Mac Cont. Pressure	250 bar 3600psi
Filter Code	0301P25NB	Max Peak Pressure	320 bar 4600psi
		Max Back Pressure on Port T	30 bar 430psi
		Port Marked P	Pressure Line
		Port Marked T	Exhaust Line
		Relief Valve Setting	220 bar 3150psi

Greasing

Keep the collar guide well-greased. This will help the log splitter to run smoothly up and down the guide. At the same time, keep the PTO shafts joints greased as required.

Grease the collar guide



Warranty Information

Warranty claims which arise because of incorrect operation, insufficient maintenance or the use of non-approved consumables (lubricants, hydraulic oils etc) will not be accepted by Oxdale Products.

Only original Oxdale parts may be used. When ordering replacement parts, please provide the model name and the serial number, if you bought from a dealer, please provide their name. Pressure adjustments to valves must only be carried out by Oxdale authorised dealers.

No liability is accepted for damages caused by incorrect repairs, the non-use of original Oxdale replacement parts or repairs that have not been carried out by Oxdale or a pre-authorised specialist, the same applies to auxiliary parts and accessories.

All warranty claims are on a return to manufacturer basis.

All Oxdale products have a full 12 month warranty.

Labels

The PTO600 log splitter should have the following labels attached. If any safety labels are missing or unreadable, please replace immediately.



WARNING NOTICES

- WARNING!
- DANGER! KEEP CLEAR OF MOVING PARTS!
- TO BE OPERATED BY ONE PERSON ONLY!
- WEAR HEARING PROTECTION!
- READ INSTRUCTION MANUAL BEFORE USE!

QUICK GUIDE

BEFOR FIRST USE

- Fit the log splitter to the tractor.
- Fit the pump or shaft to the PTO spline of the tractor.
- Fill the hydraulic tank.
- Grease the ram collar
- Fill the gear box with oil.

PRE-OPERATION CHECKLIST

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

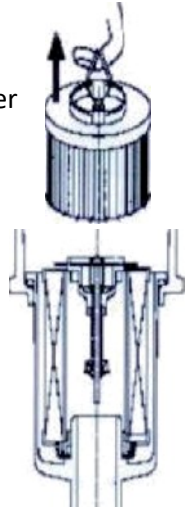
- Grease the ram collar after every 10 hours of operation and pre/post season.
- Check that all the hydraulic fittings and connections are tight and in good condition.
- Check for damage, worn or missing parts and replace if necessary.
- Replace missing or unreadable safety stickers.

Filter Element Replacement (where applicably)

To replace the filter element, remove the top cover on the filter body. Using the handle on top of the filter, remove the filter from the body.

To replace the filter, reverse the removal process. It is very important that you look after the hydraulic oil in the log splitter. If you keep the oil free from contamination, this will reduce the need for oil changes. If you need to change the oil, you can drain the oil through the feed pipe to pump.

Remove the pipe from the pump and drain the oil into a suitable container. If you are the replacing the oil, you will also need to replace the filter element, Replace the pipe and filter before refilling the tank. Check the oil level once the log splitter has been rn and top up if required.



Gear Box

The oil level will need to be checked periodically. This can be done by looking at the level gauge and will require topping up as required.

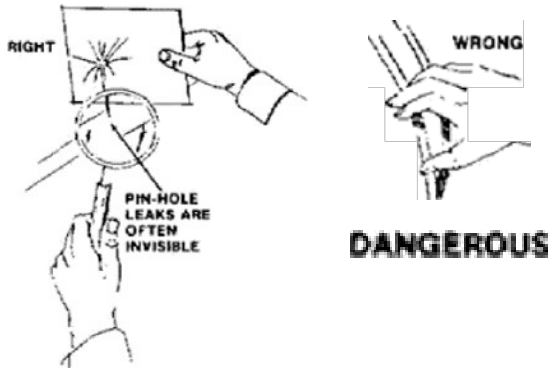
The gear box oil needs to be changed annually or after 100 hours of use.

To change the oil, remove the drain plug from the bottom of the unit, drain the oil into a container and dispose of this in a responsible manner, e.g. at an oil bank for recycling.

Replace the plug before refilling the oil to the indicated level on the level gauge on the side of the gear box. Check the level after running the log splitter for the first time, following the oil change and top up as required.

Hydraulic System

Periodically, check the hydraulic oil on the gauge on the side of the unit and top up as required. Check for oil leaks, worn hoses and loose fittings. Please note that the pressure within the hydraulic system can exceed 200psi. Reinforced hoses develop pin hole leaks and hydraulic connections can vibrate loose. Hydraulic leaks can be hard to see, never check for leaks with your hands as high pressure can inject oil droplets under the skin. If this happens, seek immediate medical attention.



Hoses and fittings can become overheated from heavy use. When checking these, place your hand near the connection to sense for heat before touching. Hydraulic pumps and valves operate with minute clearances (tolerances) and grit, grime and other dirt which are pushed through these openings can eventually cause wear to the surfaces and damage the system. Only use clean hydraulic oil in the log splitter and ensure that the fill area and any connections are also kept clean.

OPERATING INSTRUCTIONS

- Position the log splitter on solid, level ground when operating.
- Apply the tractor brake securely and put the transmission into park/neutral.
- Using both hands, lift the handle to lower the ram and lower the handles 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 when splitting a log. The speed can be controlled by how much pressure you put on the control valve.
- Stop splitting if the log starts to move sideways and reposition the log as per the above instructions.
- Should the wedge lodge 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 the log splitter with a damp cloth periodically to keep it free from debris.
- The splitting wedge may need to be sharpened—using a file.

Storage and Transportation

- The PTO600 should be stored in the vertical position only.
- Store in a dry location.
- Store in a safe location, where the machine can't be knocked over.
- The PTO600 should be transported in a vertical position. It should be strapped securely in transport.

In depth instructions

Before use:

Fitting the unit to the tractor

The log splitter is designed for fitting to a CAT 1 or CAT 2 tractor. This can be on the back end, or if required, at the front. The log splitter is to be fitted so that it is level when positioned at the required working height.

Fitting the PTO pump unit to the tractor

The log splitter comes with a PTO mounted pump. This pumps needs to be fixed to the tractor PTO spline with a standard PTO shaft. It is important that the pump is positioned the correct way up and that the PTO shaft is at the correct length. The pump filler cap should be positioned pointing up and the drain plus point face down.

Pick your log to be split. The log should be cut square at both ends. This is very important as will reduce the chance of the log slipping. 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 be split with some force and be thrown off.

Always keep other people and animals out side of the working area when splitting logs.

Post Operating Checks and Maintenance

Always stop the machine before cleaning or adjusting.

The log splitter should be cleaned down at the ned of each day. It is advised that wood chips and other debris are removed from the unit as well as removing any contaminated grease from the ram collar.

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

Check for any loose bolts or signs of other damage at regular intervals. The log splitter should be stored in a dry location. It should be stored in a safe place to avoid being knocked over.

The PTO600 should be stored and transported in a vertical position.



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.



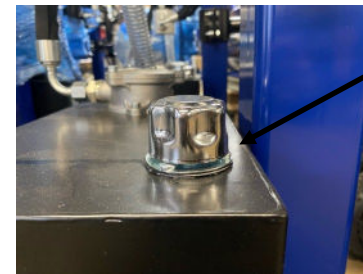
Lowering the handle will lift the wedge.

Filling the tank with hydraulic oil

The hydraulic tank holds approximately 45 litres of hydraulic oil (ISO/ hydraulic 46 type oil). The tank is filled through the filler cap on the top of the unit. Pour the oil in until you have filled the tank as indicated on the level gauge. Please note that once the unit has been run for the first time, and the pump filter and the pipe work has been filled you will need to top up the tank.



Level Gauge



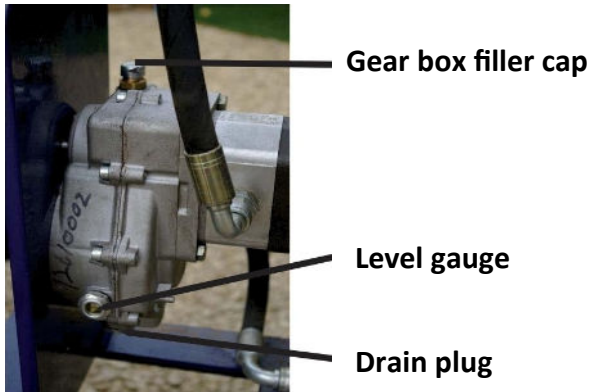
Filler Cap

Greasing

The ram collar needs to be greased, where the ram 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 ten hours or alternatively at the start of each day. The PTO joint should be checked for grease nipples and grease applied if required.

Filling the gear box up with oil

The gear box needs to be filled with oil to classification of CLP/CC150 (ISO 150) (SAE90). The oil level should be filled until the level can be seen on the level gauge (approximately 150ml). The oil needs to be changed after the first 30-50 hours of use and subsequently at least every 12 months.



Operating Instructions

The log splitter is designed for splitting logs only and is for SINGLE PERSON USE.

The maximum log length which the log splitter will handle is 550mm. The maximum width is 900mm and the minimum width is 75mm.

Only persons competent to do so and having read this user manual in full should operate the log splitter.

Each time the log splitter is used a visual inspection should be carried out taking note of any damage and leakages and ensuring that they are fully repaired before use.

Position the tractor on solid, level ground when operating the log splitter and ensure the parking brake is engaged.

Wheel blocks should also be used to stop the vehicle moving whilst the log splitter is in use.

Ensure that the log splitter is fitted to the tractor and that all the safety pins are in place.

When the ram is being extended and retracted, both hands should be kept on the handle.

Lifting the handle will extend the ram and lowering the handle will retract the ram.