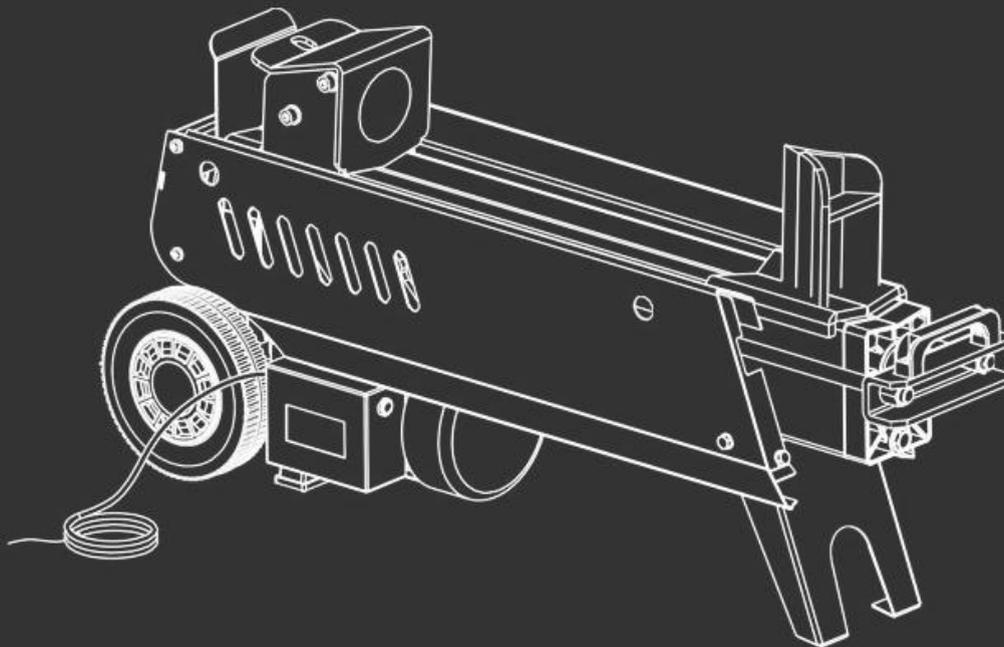


HYUNDAI
POWER PRODUCTS

4 & 7 TONNE ELECTRIC LOG SPLITTER
HYLS4000H
HYLS7000H

User Manual



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1. SAFETY

1.1. General safety notes.

1.1.1. The operator of the machine is responsible for, and has a duty of care in making sure that the machine is operated safely and in accordance with the instructions in this user manual. Keep the manual safe and pass it on if the machine is loaned/sold to another user.

1.1.2. Please note the following safety points.

1.1.2.1. The machine should never be left in a condition which would allow an untrained or unauthorised person/s to operate this machine.

1.1.2.1.1. All due care and diligence should be taken by the operator for the safety of, and with regard to, those around whilst using the machine.

1.1.2.1.2. Some or all of the following - warning signs, symbols and/or PPE pictograms may appear throughout this manual. You MUST adhere to their warning/s. Failure to do so may result in personal injury to yourself or those around you.

The FOLLOWING safety notes will help avoid or reduce risk of injury or death.							
 DANGER	 WARNING			 CAUTION			
Indicates a hazard, which, if not avoided, could result in serious injury or death.		Indicates a hazard, which, if not avoided, could result in serious injury.			Indicates a hazard which, if not avoided, might result in minor or moderate injury.		
 NOTE							
Indicates a situation that could easily result in equipment damage.		READ & Keep the manual safe and pass it on if the machine loaned/sold to another user.			You MUST fully read instructions to make sure you use and operate machine safely		
Appropriate Personal Protective Equipment (PPE) MUST be worn at all times when machine is in use or being repaired.							
 HAND PROTECTION MUST BE WORN	 EYE PROTECTION MUST BE WORN	 PROTECTIVE CLOTHING MUST BE WORN	 HEARING PROTECTION MUST BE WORN	 FOOT PROTECTION MUST BE WORN	 HEAD PROTECTION MUST BE WORN	 RESPIRATOR MUST BE WORN	 FACE SHIELD MUST BE WORN
ALWAYS keep the working area clear of non-essential people to include, but not limited to, children, the elderly and vulnerable persons. NEVER ALLOW an untrained person to use this machine.							

1.2. Electrical safety (where applicable).



- 12.1. Electricity can kill - NEVER work on LIVE/ENERGISED equipment.
- 12.2. Prior to carrying out any maintenance work you MUST Identify electrical isolation methods and isolate all electrical supplies,
- 12.3. Prior to use and with all electrical supplies isolated You MUST check all electrical cables, plugs and connections for the following;
 - 12.3.1. Are intact and have no signs of damage, to include but not limited to bare wires, chaffing, cuts and loose wiring.
 - 12.3.2. If there are any signs of damage, the damaged item MUST be taken out of service until the damage has been repaired by an electrically competent person.
 - 12.3.3. All trailing cables should be routed so as not to cause any kind of trip hazard.
 - 12.3.4. NEVER work on or near electricity with wet hands, wet clothing, and wet gloves.

1.3. Vibrations (where applicable).

- 13.1. Prolonged use of hand held (operated) machines will cause the user to feel the effects of/from vibrations. These vibrations can lead to white finger (Raynaud's phenomenon) or carpal tunnel syndrome. This condition reduces the ability of the hand to feel and regulate temperature, causing numbness and heat sensations and may cause nerve damage and circulatory tissue death.
- 13.2. Not all factors that lead to white finger disease are known, but cold weather, smoking and other diseases that affect blood vessels and blood circulation as well as large and long-lasting impact of shocks are considered factors called in the formation of white finger. Note the following to reduce the risk the white finger and carpal tunnel syndrome:
 - 13.2.1. Wear gloves and keep your hands warm.
 - 13.2.2. Take regular breaks.
- 13.3. All of the above precautions may help reduce the risk of white finger disease but not rule out carpal tunnel syndrome. Long-term and regular users are therefore recommended to observe the condition of your hands and fingers. Seek medical attention immediately if any of the above symptoms should occur.

1.4. Noise (where applicable).

- 14.1. The operating noise of the machine can damage your hearing. Wear hearing protection such as earplugs or ear defenders to protect your hearing. Long-term and regular users are advised to have hearing checked regularly. Be especially vigilant and cautious when wearing hearing protection because your ability to hear alarm warnings will be reduced.

142. Noise emissions for this equipment is unavoidable. Carry out noisy work at approved times and for certain periods. Limit the working time to a minimum. For your personal protection and protection of people working nearby it is also advisable for them to wear hearing protection.
143. See DECLARATION of CONFORMITY section for Outdoor Noise declaration of conformity.



2. MACHINE SPECIFIC SAFETY

2.1. Understanding your log splitter.

2.1.1. You **MUST** read and understand the owner's manual and labels fixed to the log splitter. Learn its application and limitations as well as the specific potential hazards peculiar to it.

2.2. Drugs, alcohol and medication.

2.2.1. Do not operate the log splitter while under the influence of drugs, alcohol, or any medication that could affect your ability to use it properly.

2.3. Avoiding dangerous conditions.

2.3.1. Put the log splitter on a stable flat and level area where there is plenty of room for handling logs. If the log splitter tends to slip, walk, or slide then secure the log splitter to the working surface.

2.3.2. Keep your work area clean and well lit. Cluttered areas invites injuries.

2.3.3. **DO NOT** use the log splitter in wet or damp areas or expose it to rain.

2.3.4. **DO NOT** use it in areas where fumes from paint, solvents or flammable liquids pose a potential hazard.

2.4. Inspect your log splitter.

2.4.1. Check your log splitter before turning it on. You **MUST** keep guards in place and in working order. Form a habit of checking to see that keys and adjusting wrenches are removed from tool area before turning it on. Replace damaged, missing or failed parts before using it.



2.5. Dress properly.

2.5.1. **DO NOT** wear loose clothing, gloves, neckties or jewellery (rings, wrist watches). They can be caught in moving parts.

2.5.2. Protective electrically non-conductive gloves and non-skid footwear are recommended when working. Wear protective hair covering to contain long hair, preventing it from get caught in machinery.



2.6. Protect your eyes and face.

2.6.1. Log splitters may throw foreign objects into the eyes. This can cause permanent eye damage. Always wear safety goggles. Everyday eyeglasses have only impact resistant lenses. They are not safety glasses.



- 2.6.2. DO NOT put the log splitter on the ground for operations. This is an awkward operating position that brings the operators face close to the machine, and therefor thus risks being struck by wood chips or debris.
- 2.7. Extension leads.
 - 2.7.1. Improper use of extension leads may cause inefficient operation of the log splitter which can result in overheating. Make sure that the extension lead is no longer than 10m and its cross sectional area is no less than 2.5mm² to allow sufficient current flow to the motor.
 - 2.7.2. All connections MUST be made with protected material suitable for outdoor use.
- 2.8. Avoiding electrical shocks.
 - 2.8.1. You MUST check that the electric circuit is adequately protected and that it corresponds with the power, voltage and frequency of the motor. The equipment must be connected to an earthed supply and protected by a 30 mA Residual Current Device (RCD).
 - 2.8.2. NEVER open the pushbutton box on the motor. Should this be necessary you MUST contact a qualified electrician.
 - 2.8.3. Mark sure your fingers do not touch the plug's metal prongs when plugging or unplugging the log splitter.

2.9. Keep visitors and children away.

- 2.9.1. The log splitter MUST be always operated by one person only. Other people should keep a safe distance from the work area, especially when the log splitter is under operations. NEVER use other people to help you with freeing jammed log.



2.10. Inspect your log.

- 2.10.1. Before cutting logs you MUST make sure there are no nails or foreign objects in logs to be split. The ends of the logs must be cut square. Branches must be cut of flush with the trunk.

2.11. Do not over reach.

- 2.11.1. You MUST not work on slippery surfaces.
- 2.11.2. You MUST maintain proper footing and balance at alltimes.
- 2.11.3. NEVER stand on the log splitter. Serious injury could occur if the tool is tipped or if the cutting tools is unintentionally contacted. DO NOT store anything above or near the log splitter where anyone might stand on the tool to reach them.

2.12. Avoid injury from unexpected accidents.

- 2.12.1. ALWAYS pay full attention to the movement of the log pusher.
- 2.12.2. DO NOT attempt to load the log on until the log pusher has stopped. Keep hands out of the way of all moving parts.



2.13. Protect your hands.

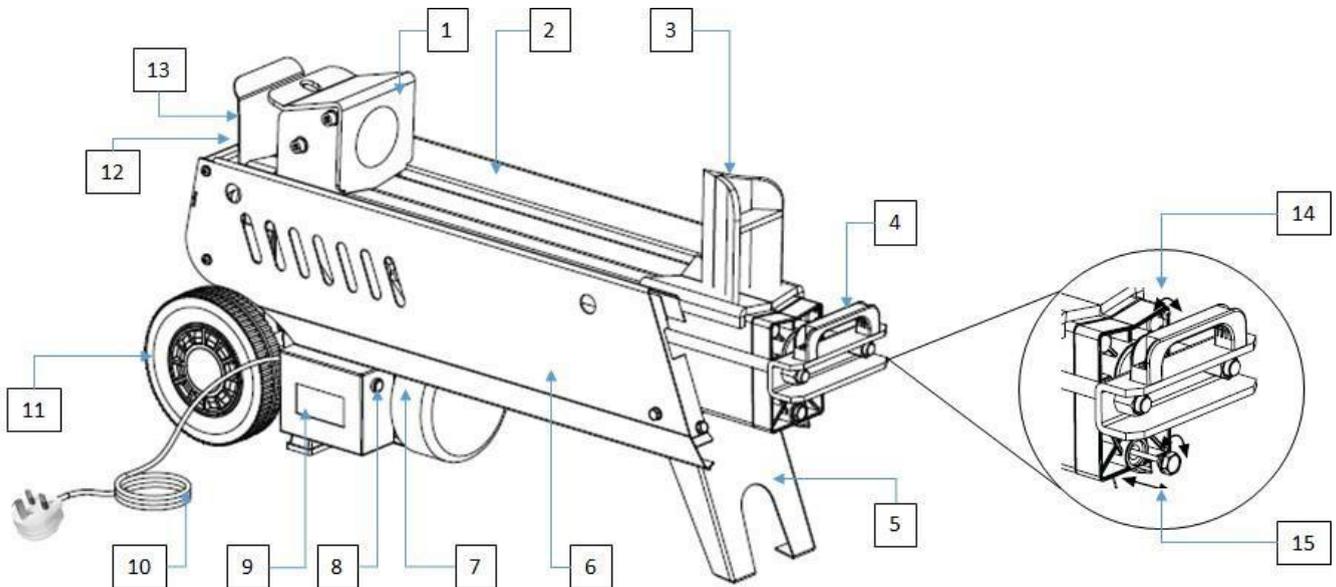
- 2.13.1. Keep your hands away from splits and cracks which open in the log, they may close suddenly and crush or amputate your hands.
- 2.13.2. DO NOT remove jammed logs with your hands.



- 2.14. Do not force machine.
 - 2.14.1. It will do a better and safer job at its design rate. NEVER try to split logs larger than those indicated in the specifications table. This could be dangerous and may damage the machine.
 - 2.14.2. DO NOT use log splitter for a purpose for which it was not intended.
- 2.15. Never leave the machine running whilst un-attended.
 - 2.15.1. DO NOT leave tool until it has come to a complete stop.
 - 2.15.2. Disconnect power.
 - 2.15.2.1. You MUST unplug when not in use, before making adjustments, changing parts, cleaning, or working on the log splitter.
 - 2.15.2.2. Consult technical manual before servicing.
- 2.16. Maintain your log splitter with care.
 - 2.16.1. Keep the log splitter clean and well maintained for safest and best performance.
- 2.17. Make the workshop childproof.
 - 2.17.1. Lock the shop. Disconnect from all sources of electricity.
 - 2.17.2. Store the log splitter away from children and others not qualified to use it.

3. PARTS LOCATIONS

3.1. Locations.



1 – Log pusher	2 – Work table	3 – Wedge
4 – Lift handle	5 – Support leg	6 – Log retaining plate
7 – Motor	8 – Switch	9 – Pushbutton box
10 – Power lead	11 – Wheels – for only minor movements	12 – Hydraulic control lever
13 - Hydraulic control lever guard	14 – Bleed screw *	15 – Oil drain bolt c/w dipstick

* - Before operating the log splitter, the bleed screw should be loosened (anti-clockwise direction 3~4 turns) to allow for air to flow in/out of the oil tank smoothly. The air flow through the bleed screw should be detectable (adjust screw to suit) during the log splitter under normal operation. Before moving the log splitter you **MUST** make sure the bleed screw is tightened (clockwise direction) to avoid any oil leaking from this point.

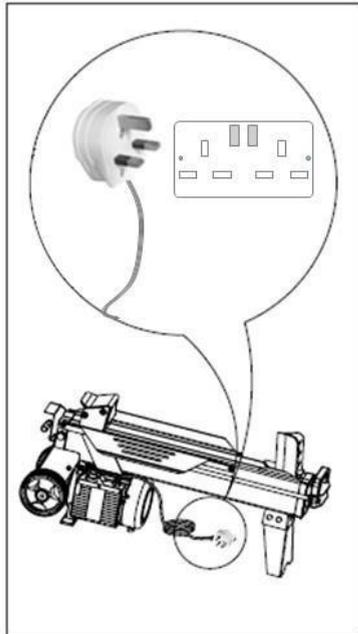
⚠ NOTE

Failure to loosen the bleed screw will keep the air sealed in hydraulic system being compressed/decompressed. Such continuous air compression and decompression will blow out the seals of the hydraulic system and cause permanent damage to the log splitter.

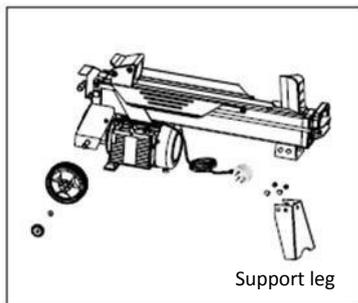
Stand assembly (optional HYLS4000H).

Unplug unit from the mains supply. Remove existing support leg then follow steps 3 & 4 below.

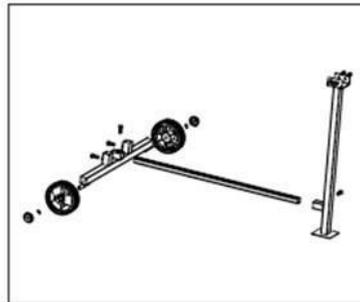
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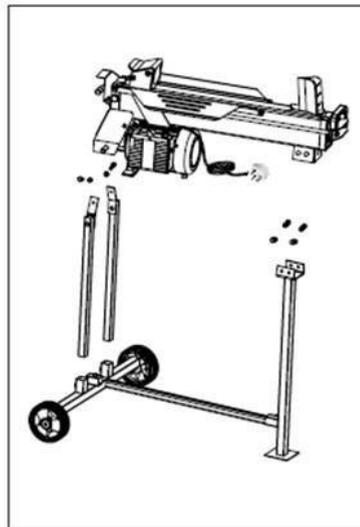
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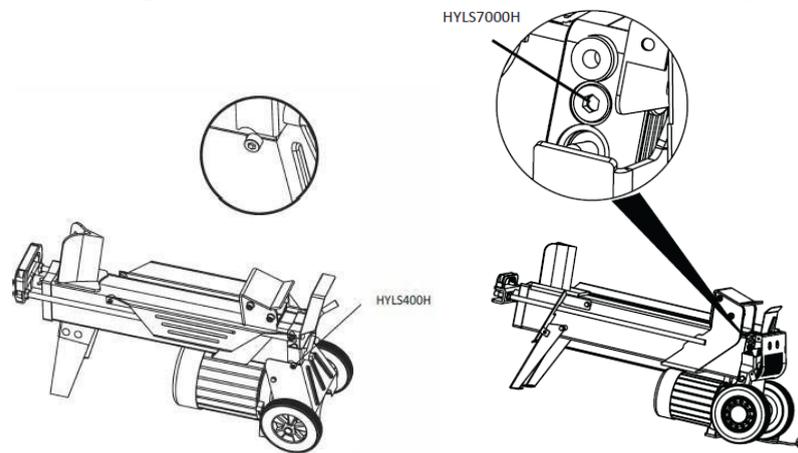
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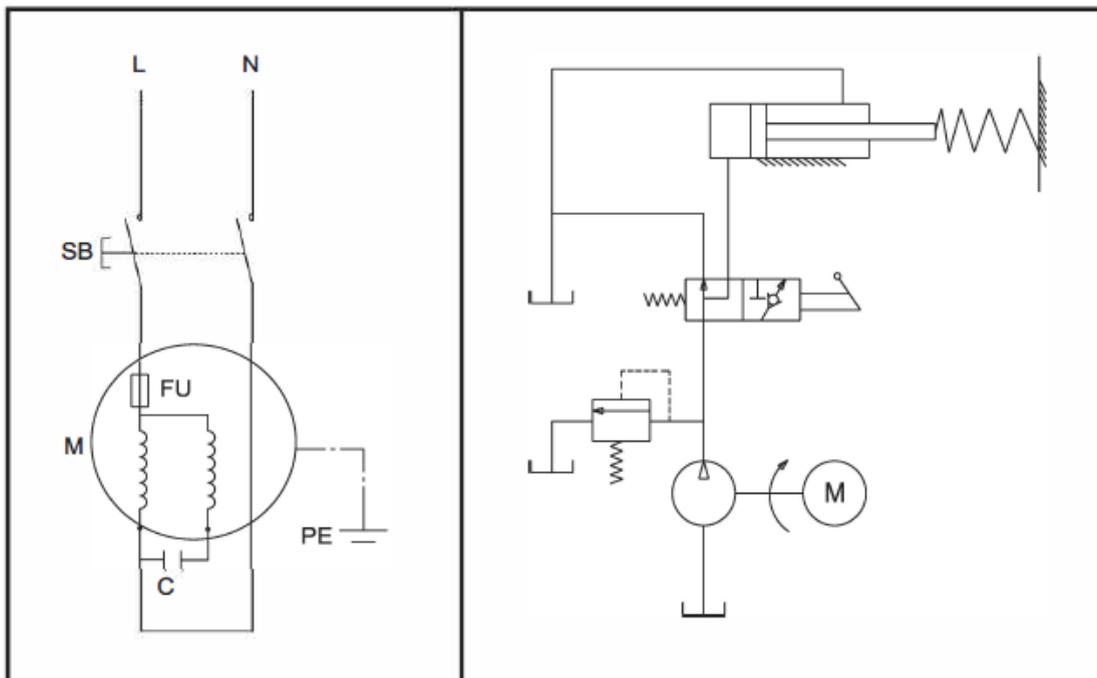
3.2. Maximum pressure limiting screw.

⚠ DANGER **⚠ NOTE** DO NOT adjust the max pressure limiting screw.

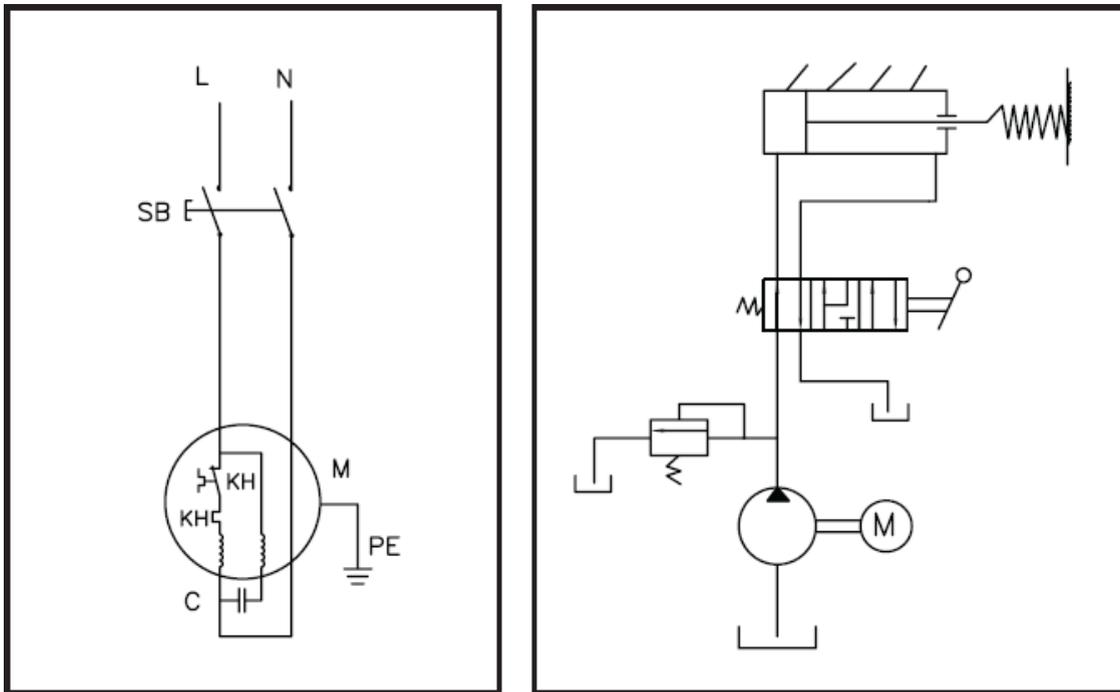
3.2.1. Max pressure was set before the log splitter ex work and the max pressure limiting screw is sealed with glue to make sure that the log splitter works under a pressure of no more than 4 tons for the HYLS4000H and under 7 tons for the HYLS7000H. The setting was done by qualified mechanic with professional instruments. Un-authorized resetting will cause the hydraulic pump fail to output enough splitting pressure or result in serious injury as well as damage to the machine which will not be covered by the warranty.



3.3. Wiring/hydraulic diagram HYL4000H.



3.4. Wiring/hydraulic diagram HYLS7000H.



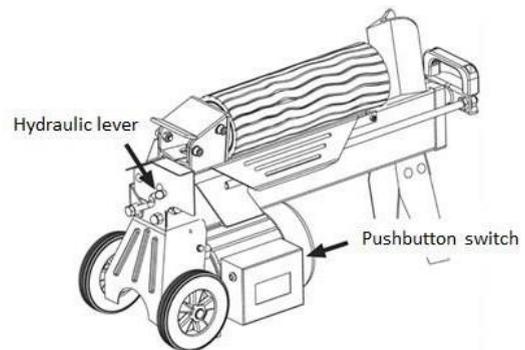
4. SPECIFICATIONS

Model number		HYLS4000H	HYLS7000H
Motor – V/Hz/W/IP		230/50/1500/54	230/50/2200/54
Log capacity	Diameter * - mm	50 ~ 250	50 ~ 320
	Length - mm	370	520
Splitting force – T		4	7
Hydraulic pressure – Mpa		16	16
Hydraulic oil capacity - L		2.4	6.5
Suitability		Seasoned Softwood and Hardwood	
Overall size	Length – mm	760	1060
	Width – mm	260	278
	Height - mm	470	522
Net weight - Kg		37	78
ELECTRICAL REQUIREMENTS - Connect the main leads to a standard 230V±10% (50Hz±1 Hz) electrical supply which has protection devices of under-voltage, over-voltage, over-current as well as a residual current device (RCD) which maximum residual current rated at 30mA.			
* - The diameter of the log is indicative - a small log can be difficult to split when it has knots or a particularly tough fibre. On the other hand, it may not be difficult to split logs with regular fibre even if its diameter exceeds the max. figure indicated above			
APPLICATION CONDITIONS – This log splitter is a home use model. It is designed for operating under ambient temperatures between +5°C and 40°C and for installations at altitudes no less than 1000m above MSL. The surrounding humidity should be less than 50% at 40°C. It can be stored or transported under ambient temperatures between -25°C and 55°C			

5. OPERATION

5.1. Operating the HYLS4000H.

5.1.1. This log splitter is equipped with a control system that requires the machine to be operated by both hands of the user- Left hand controls the hydraulic control lever while right hand controls the pushbutton switch. The log splitter will freeze upon absence of either hand. Only after both hands release the controls, the log pusher starts to return backward to the starting position.



5.1.2. Trigger type lock-out device is adopted to avoid accidental Hydraulic Control Lever pushdown. To operate the Hydraulic Control Lever, draw the Trigger backward with the index finger before push the Hydraulic Control Lever forward.



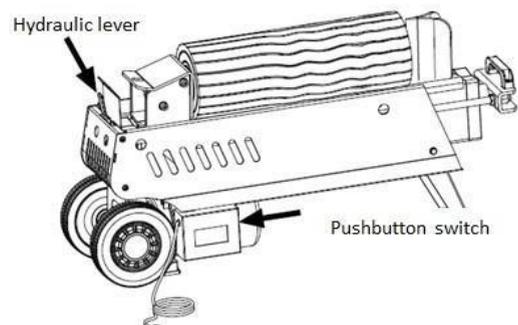
NOTE

Never force the log splitter for more than 5 seconds by keeping pressure on it to split excessively seasoned hard wood.

5.1.3. After this time interval, the oil under pressure will be overheated and the machine could be damaged. For such extremely hard log, rotate it by 90° to see whether it can be split in a different direction. In any case, if you are not able to split the log, this means that its hardness exceeds the capacity of the machine and the log should be discarded to protect the log splitter.

5.2. Operating the HYLS7000H.

5.2.1. This log splitter is equipped with a control system that requires the machine to be operated by both hands of the user- Left hand controls the hydraulic control lever while right hand controls the pushbutton switch. The log splitter will freeze upon absence of either hand. Only after both hands release the controls, the log pusher starts to return backward to the starting position.



5.2.2. The splitting force and speed are governed by the 2-stage control lever. Push the lever in the 1st stage about half way for faster speed at less splitting force to split usual logs; Push the lever in the 2nd stage all way for maximum splitting force at slower speed to split particularly hard and seasoned logs. These stages can be shifted by simply raising and lowering the lever.



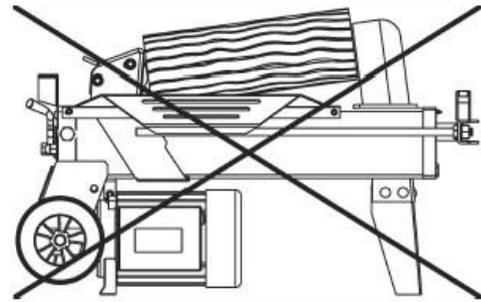
 **NOTE**

Never force the log splitter for more than 5 seconds by keeping pressure on it to split excessively seasoned hard wood.

5.2.3. After this time interval, the oil under pressure will be overheated and the machine could be damaged. For such extremely hard log, rotate it by 90° to see whether it can be split in a different direction. In any case, if you are not able to split the log, this means that its hardness exceeds the capacity of the machine and the log should be discarded to protect the logsplitter.

5.3. Setting of logs onto machine.

5.3.1. ALWAYS set logs firmly on the log retaining plates and work table. Make sure logs will not twist, rock or slip while being split. DO NOT force the blade by splitting the log on the upper part. This will break the blade or damage the machine.



5.3.2. Break log in the direction of its growing grain. DO NOT place log across the log splitter for splitting. It may be dangerous and may seriously damage the machine.

5.3.3. DO NOT attempt to split 2 pieces of logs at the same time. One of them may fly up and hit you.

5.4. Freeing a jammed log.

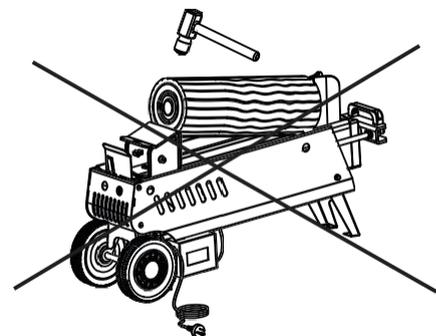
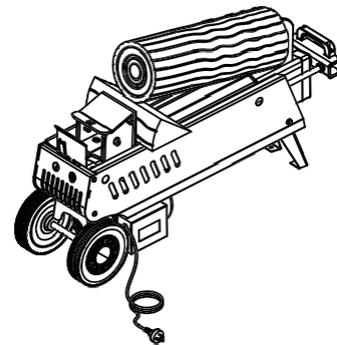
5.4.1. Release both controls.

5.4.2. After the log pusher moves back and completely stops at its starting position, insert a wedge wood under the jammed log.

5.4.3. Start the log splitter to push the wedge wood to go completely under the jammed one.

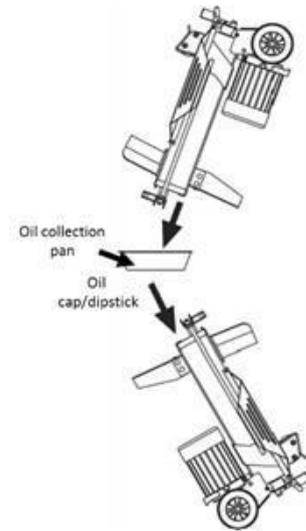
5.4.4. Repeat above procedure with sharper slope wedge woods until the log is completely freed.

5.4.5. DO NOT try to knock the jammed log off. Knocking log about will damage the machine or may launch the log and cause accident



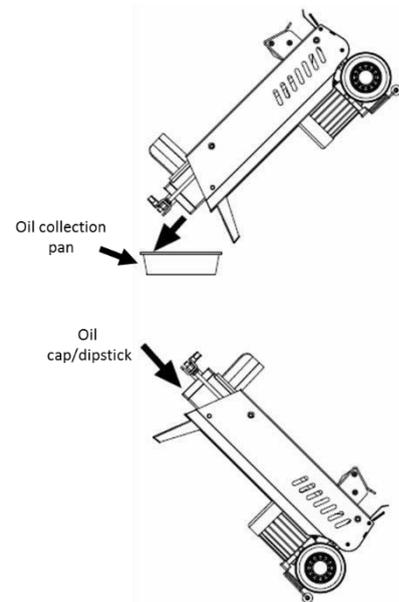
5.5. Replacing hydraulic oil HYL4000H.

- 5.5.1. Replace the Hydraulic oil in the log splitter after every 150 hours of use. Take following steps to replace it.
- 5.5.2. Make sure all moving parts stops and the log splitter is unplugged.
- 5.5.3. Unscrew Oil Drain Bolt with Dipstick to remove it.
- 5.5.4. Turn the log splitter on the Support Leg side over a 4 litre capacity container to drain the hydraulic oil off.
- 5.5.5. Turn the log splitter on the motor side.
- 5.5.6. Refill fresh hydraulic oil at the volume as per the hydraulic oil capacity of a particular model indicated in specifications table.
- 5.5.7. Clean the surface of Dipstick on the Oil Drain Bolt and put it back into the oil tank while keep the log splitter vertically.
- 5.5.8. Make sure the level of the refilled oil is just between 2 grooves around the dipstick.
- 5.5.9. Clean the oil drain bolt before thread them back. Make sure they are tightened to avoid leakage before place the log splitter horizontally.
- 5.5.10. Periodically check oil level to ensure it is between 2 grooves around the Dip-stick. If it is at the lower oil level you MUST refill with oil.



5.6. Replacing hydraulic oil HYL7000H.

- 5.6.1. Replace the Hydraulic oil in the log splitter after every 400 hours of use. Take following steps to replace it.
- 5.6.2. Make sure all moving parts stops and the log splitter is unplugged.
- 5.6.3. Unscrew Oil Drain Bolt with Dipstick to remove it.
- 5.6.4. Turn the log splitter on the Support Leg side over a 4 litre capacity container to drain the hydraulic oil off.
- 5.6.5. Turn the log splitter on the motor side.
- 5.6.6. Refill fresh hydraulic oil at the volume as per the hydraulic oil capacity of a particular model indicated in specifications table.
- 5.6.7. Clean the surface of Dipstick on the Oil Drain Bolt and put it back into the oil tank while keep the log splitter vertically.
- 5.6.8. Make sure the level of the refilled oil is just between 2 grooves around the dipstick.
- 5.6.9. Clean the oil drain bolt before thread them back. Make sure they are tightened to avoid leakage before place the log splitter horizontally.
- 5.6.10. Periodically check oil level to ensure it is between 2 grooves around the dipstick. If it is at the lower oil level you MUST refill with oil.



5.7. Recommended oil.

5.7.1. Following hydraulic oil or equivalent are recommend for the logsplitter's hydraulic transmission system:

5.7.2. Shell Tellus 32.

5.8. Sharpening wedge

5.8.1. After using the log splitters for some time, it will need sharpening. Sharpen the wedge of the log splitter by using a fine-toothed file and smooth any burrs or crushed area along the cutting edge.

6. TROUBLESHOOTING

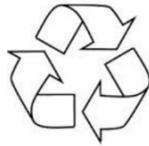
PROBLEM	PROBABLE CAUSE	SUGGESTED REMEDY
Fails to split logs	Log is not positioned correctly	Refer to "Log Splitter Operation" section for perfect log loading.
	The size or hardness of the log exceeds the machines capacity	Reduce the log sizes before splitting on the log splitter
	Wedge cutter is blunt	Refer to "Sharpening Wedge" section to sharpen the cutting edge.
	Oil leaks	Locate leak/s and contact dealer
	Unauthorized adjustment has been made on Max Pressure Limiting Screw. Lower the max pressure setting	Contact your dealer
The log pusher moves jerkily, making an unfamiliar noise or vibrating a lot	Lack of hydraulic oil and excessive air in the hydraulic system	Check oil level for possible oil refilling Contact your dealer
Oil leaks around cylinder ram or from other points	Air sealed in hydraulic system when in use	Loosen bleed screw 3~4 turns before operating the log splitter
	Bleed screw is not tightened before moving log splitter	Tighten the Bleed Screw up before moving the log splitter.
	Oil Drain Bolt with Dipstick is not tight.	Tighten the Oil Drain Bolt with Dipstick.
	Hydraulic control valve assembly and/or seal(s) worn	Contact your dealer

7. PRODUCT DISPOSAL

- 7.1. Should it become necessary to dispose of your machine please contact your local authority for the disposal advice, or take unit to your local recyclingcentre.
- 7.2. You **MUST** make sure that all unused oil, fuel and batteries are disposed of correctly either beforehand or at amenity centre.
- 7.3. Waste Electrical Electronic Equipment (WEEE). Certain products contain waste which should not be disposed of in your domestic waste. You **MUST** recycle WEEE in accordance with your local authority or recycling centre.
- 7.4. The following symbol means that you should **NOT** place items with this symbol on the product into your domestic waste.



- 7.5. Unwanted packaging materials should be sorted and taken to a recycling centre to be disposed of in a manner which is compatible with the environment.
- 7.6. The following symbol means that you should 'Reduce – Reuse – Recycle'.



- 7.7. Should you pass this product onto another user either sold or loaned you **MUST** pass on this user manual. This will make sure that all other users can use and maintain the machine safely.



8. DECLARATIONS of CONFORMITY

- 8.1. 2004/108/EC Electromagnetic Compatibility Directive
- 8.2. 2006/42/EC Machinery Directive
- 8.3. 2002/95/EC Restriction of Hazardous Substances Directive

9. CONTACT DETAILS

- | | | |
|------|------------------|---|
| 9.1. | POSTAL ADDRESS | Genpower Ltd, Isaac Way,
London Road, Pembroke Dock,
Pembrokeshire, SA72 4RW. UK. |
| 9.2. | TELEPHONE | +44 (0) 1646 687880 |
| 9.3. | FAX | +44 (0) 1646 686198 |
| 9.4. | TECHNICAL E-MAIL | service@genpower.co.uk |
| 9.5. | WEBSITE | www.hyundaipowerequipment.co.uk |

10. MANUAL UPDATES

- 10.1. Our manuals are constantly being reviewed and updated. However if should you find an error, omission or something you find unclear please contact your dealer for assistance.
- 10.2. Our latest manuals are also placed on-line.
- 10.3. We reserve the right to make any modifications without prior notice whenever necessary.

11. WARRANTY

- 11.0 To register your product for the manufacturer's warranty, please visit:

<https://hyundaipowerequipment.co.uk/warranty>

HYUNDAI

POWER PRODUCTS

For Inquiries, Please Contact:

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