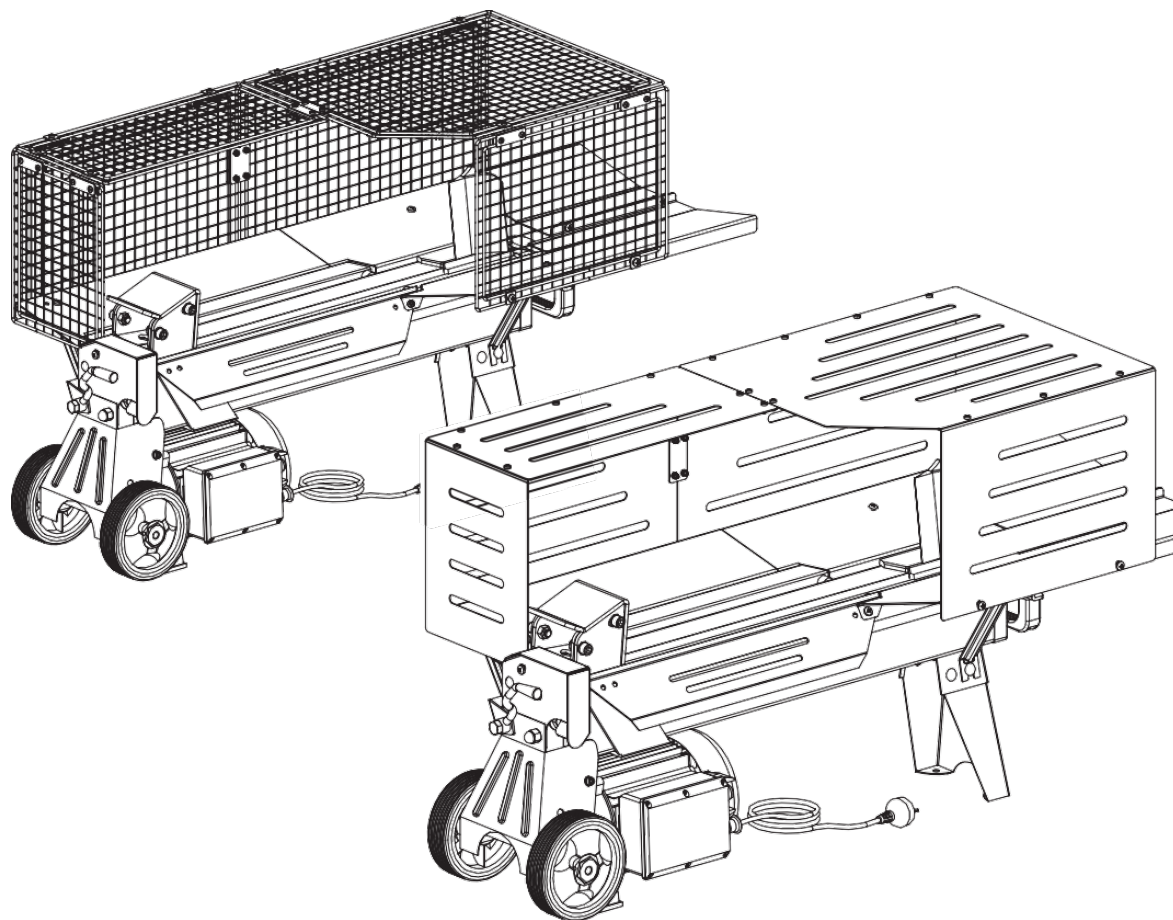




**BLUEBIRD
INDUSTRIES**

Keep this manual for future reference

Translation of the original instructions



LOG SPLITTER OPERATED WITH HYDRAULIC SYSTEM

MODEL NUMBER:

☐ LSE 5000

☐ LSHE 7000

SERIAL NUMBER:

Both the model and serial number can be found on the label.
Please record both numbers and keep them in a safe place.

FOR SAFETY

READ AND UNDERSTAND THE ENTIRE MANUAL BEFORE USING THE MACHINE

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INTRODUCTION

The new log splitter will fully meet your expectations. It is manufactured according to strict and high-quality standards to achieve a higher level of performance. You will find your product safe and easy to use, and with proper care, it will provide reliable service for many years



Carefully read the entire user manual before using the log splitter. Pay special attention to warnings and precautions.

ENVIRONMENT



Recycle unused material instead of disposing of it as trash. All tools, hoses, and packaging must be taken to the local recycling center and disposed of in an environmentally safe manner.

SYMBOLS

The label on the machine should display some symbols. These represent important information about the product or how to use it.



Read these instructions completely before using the machine.



Wear safety shoes!



Use protective gloves!



Use eye protection! Wear ear protection!



Do not remove or tamper with guards or safety devices.



Read these instructions completely before using the machine.



Do not use in the rain



Danger! Keep away from moving parts!



Do not remove jammed logs with your hands.



Warning! Keep away from moving parts!



Before starting repair or cleaning operations, disconnect the power supply



Keep people away from the work area

SAFETY

Safety warnings and instructions

• KNOW THE LOG SPLITTER

Read and understand the manual and the labels on the log splitter. Know its operation, fields of application and its limits, as well as the dangers of the machine itself.

• DRUGS, ALCOHOL, MEDICATIONS

Do not use the log splitter under the influence of drugs, alcohol, or medication, which could impair proper use.

• AVOID DANGEROUS CONDITIONS

Place the log splitter at a height of 72-85 cm on a stable and flat surface, in an area free of obstacles. Secure the log splitter to the surface so that it does not slip or slide. Keep the work area clean and well lit. A cluttered area can cause damage.

Do not use the log splitter in wet areas or areas exposed to rain.

Do not use it in areas where paint fumes, solvents, or flammable liquids may be a potential hazard.

• INSPECT THE LOG SPLITTER

Check the log splitter before turning it on. Make it a habit to check that adjustment keys are removed from the work area before starting the machine. Replace damaged or missing parts before use.

• DRESS APPROPRIATELY

Do not wear loose clothing or gloves, necklaces, or jewelry (rings, watches). They can get caught in moving parts. It is recommended to use protective gloves that are non-conductive and non-slip shoes. Tie up long hair to prevent it from being caught in the machine.

• PROTECT EYES AND FACE

Any log splitter can throw foreign objects into your eyes. This can cause permanent eye damage. Always wear protective goggles and not regular eyeglasses, which do not provide protection against impacts. Do not place the log splitter on the ground to operate it. This position is dangerous for the operator, who is forced to bring their face close to the machine, risking being hit by wood chips or other debris.

• ELECTRICAL EXTENSIONS

Improper use of extension cords can cause the log splitter to malfunction, which could overheat. Make sure that the extension cord is not longer than 10m and that its cross-section is not less than 2.5mm². Avoid using loose or inadequately insulated connections. Connections must be made correctly and suitable for outdoor use.

- **AVOID ELECTRIC SHOCKS**

Check that the electrical circuit is adequately protected and that the socket provides the power, voltage, and frequency required for the motor. Check that there is a ground connection and a differential switch for current regulation. Lay the log splitter on the ground. Avoid physical contact with pipes, radiators, stoves, and other dangerous parts or objects. Never open the electrical box where the power button is located. If necessary, contact a qualified electrician. Make sure your fingers do not touch the metal prongs of the plug while connecting or disconnecting it from the power supply.

- **KEEP CHILDREN AND PEOPLE AWAY**

The log splitter must be used by only one person. Other people must keep a safe distance from the work area, especially when the log splitter is operating. Do not use another person's help to unblock a log jammed in the machine.

- **INSPECT THE LOG**

Make sure there are no nails or other foreign objects in the logs to be cut. The ends of the logs must be cut at a right angle. Branches must be cut flush with the log

- **DO NOT OVERDO IT**

The floor must not be slippery. Always maintain your balance. Never stand on the log splitter. Serious accidents can occur if the log splitter tips over or if there is contact with the cutting part. Do not place any objects on or near the log splitter.

- **AVOID INJURIES FROM UNEXPECTED ACCIDENTS**

Always pay close attention to the movement of the log splitter. Do not try to load the log before the log pusher guide has stopped. Keep hands away from moving parts.

- **PROTECT YOUR HANDS**

Keep your hands away from cuts and cracks that open in the log, as they can close suddenly, cutting or amputating. Do not remove jammed logs with your hands

- **DO NOT FORCE THE MACHINE**

The log splitter works better and more safely if it operates at the level for which it was designed. Never attempt to cut logs wider than indicated on the technical specifications table. This can be dangerous and may damage the machine itself. Do not use the log splitter for any purpose other than that for which it was designed

- **DO NOT LEAVE THE MACHINE UNATTENDED**

Do not leave the machine unattended before it has come to a complete stop.

- **DISCONNECT THE POWER SUPPLY**

Disconnect the power supply before any adjustment, replacement, cleaning, or use. Consult the technical manual before performing maintenance operations.

- **PROTECT THE ENVIRONMENT**

Take used oil to a collection center or follow the regulations established in the country where the machine is used. Do not pour used oil into sewers, soil, or water

- **MAINTAIN THE LOG SPLITTER WITH CARE**

Keep the log splitter clean to maintain optimal and safe operation.

- **CHILDPROOF SAFE ENVIRONMENT**

Secure the work area. Disconnect the main switches. Store the machine in a safe place away from children and unqualified persons.

Safety warnings and instructions

- The cutting operation of the machine has been designed to be activated by only one person. While there is the possibility that additional users may work with the machine (e.g. for loading and unloading), only one operator should perform the cutting operations;
- Children are not allowed to use the machine;
- Description of the machine's functional tests;
- Installation and maintenance requirements including a list of devices, e.g. two-hand control device, which must be checked, how frequently the inspection must be carried out, and by which method;
- Do not remove jammed logs by hand. Never use someone else's help to unblock a jammed log. Lower the wedge until the cutting edge is open.
- Only a qualified person may assemble the machine.

Specifications

Model		LSE 5000	LSHE 7000
Engine		220-240V ~ 50Hz, 2200W, S3 25%, 9.6A	230V ~ 50Hz, 2300W, S6 40%, 10.3A
Log capacity	Diameter	50~250 mm	
	Length	200~520 mm	
Cutting force		5 Ton	7 Ton
Hydraulic pressure		20.6 Mpa	24.2 Mpa
Hydraulic oil capacity		3.5 L	
Sound pressure level (LpA)		78.8 dbA unloaded; 89.8 dbA under load	
Vibration		< 2.5 m/s ²	
Overall dimensions	Length	116 cm	
	Width	42.5 cm	
	Height	61.0 cm	
Weight	Steel cage	55 kg	60 kg
	Metal cage	50 kg	55 kg

* S6 40% periodic intermittent duty with intermittent load: load period 10 minutes, constant load period 4 minutes, idle running period 6 minutes.

*S3 25%, periodic intermittent duty: one load cycle period 10 minutes, constant load period 2.5 minutes, without electricity and at rest 7.5 minutes.

*The diameter of the log is indicative - a small log may be difficult to cut if it has strong fibers. On the other hand, a log should not be difficult to cut if it has regular fibers.

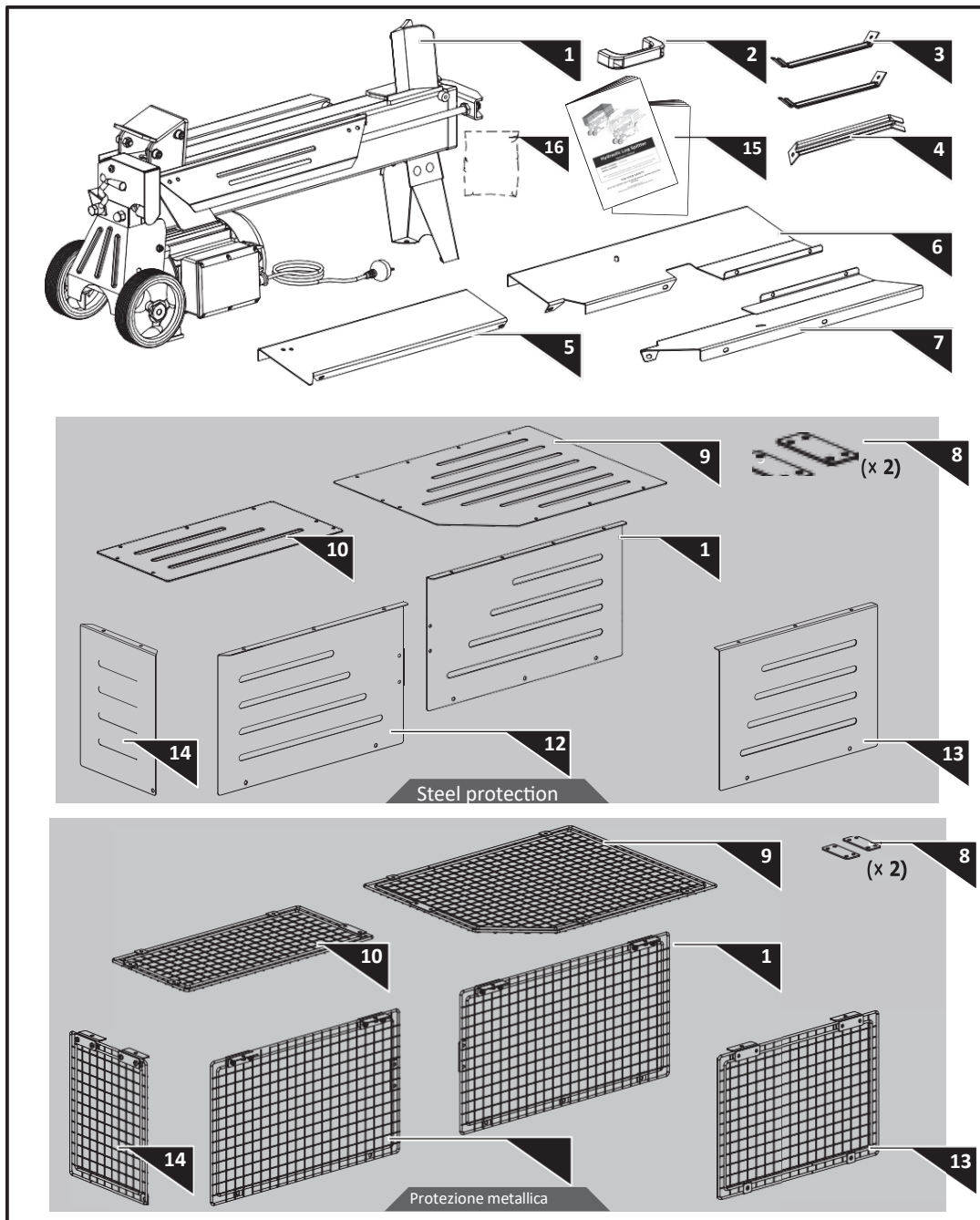
ELECTRICAL REQUIREMENTS

For models #65553, #LSHE7000, connect the main terminals to a standard 230±10% (50Hz±1%) power supply that includes protection devices for under-voltage, overvoltage or overcurrent, and a residual current device (RCD) with a maximum residual current of 0.03A.

For models #LSE5000, #65558-6, connect the main terminals to a standard 220-240±10% (50Hz±1%) power supply that includes protection devices.

For under-voltage, overvoltage or overcurrent and a residual current device (RCD) with a maximum residual current of 0.03A

SUPPLIED COMPONENTS



1. Cutting wedge

2. Handle

3. Support 1 (2 pairs)

4. Support 2

5. Lower protection plate

6. Log sliding plate 1

7. Log sliding plate 2

Protection in steel / iron

8. Connector plate (2 pairs)

9. Upper protection plate 1

10. Upper protection plate 2

11. Rear protection plate 1

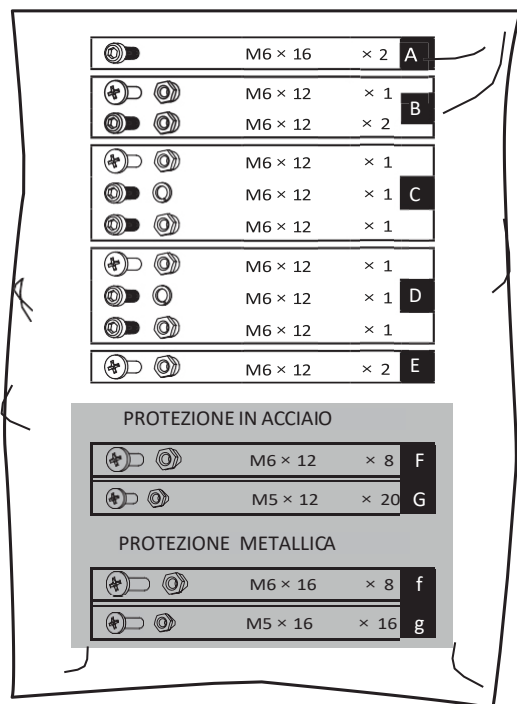
12. Rear protection plate 2

13. Front protection plate

14. Left protection plate

15. User manual

16. Included hardware bag

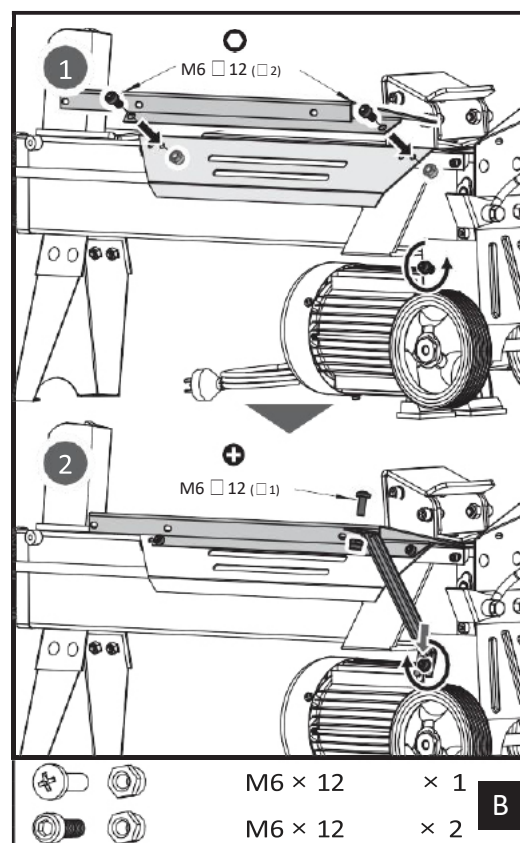


Slide plate

1. Install the lower protection plate onto the rear guide plate and screw it in with two M6x12 hex screws and locknuts.

Loosen the hex screw and the large washer on the support wheel, insert the open end of support 2 between the large washer and the support wheel, and tighten.

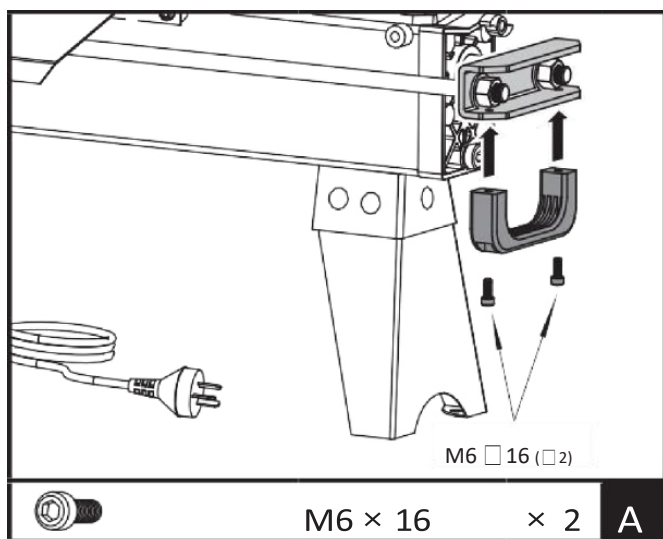
Connect the upper end of support 2 to the lower protection plate with an M6x12 hex screw and an M6 locknut, then tighten.



ASSEMBLY

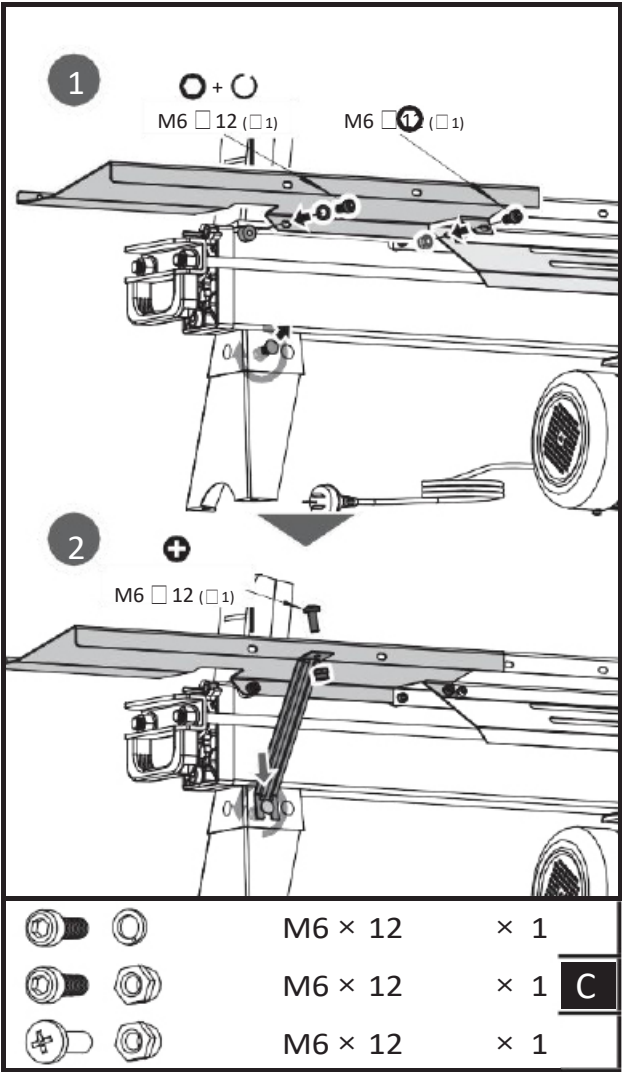
Lifting knob

Mount the lifting knob on the U-bracket with two M6x16 screws.



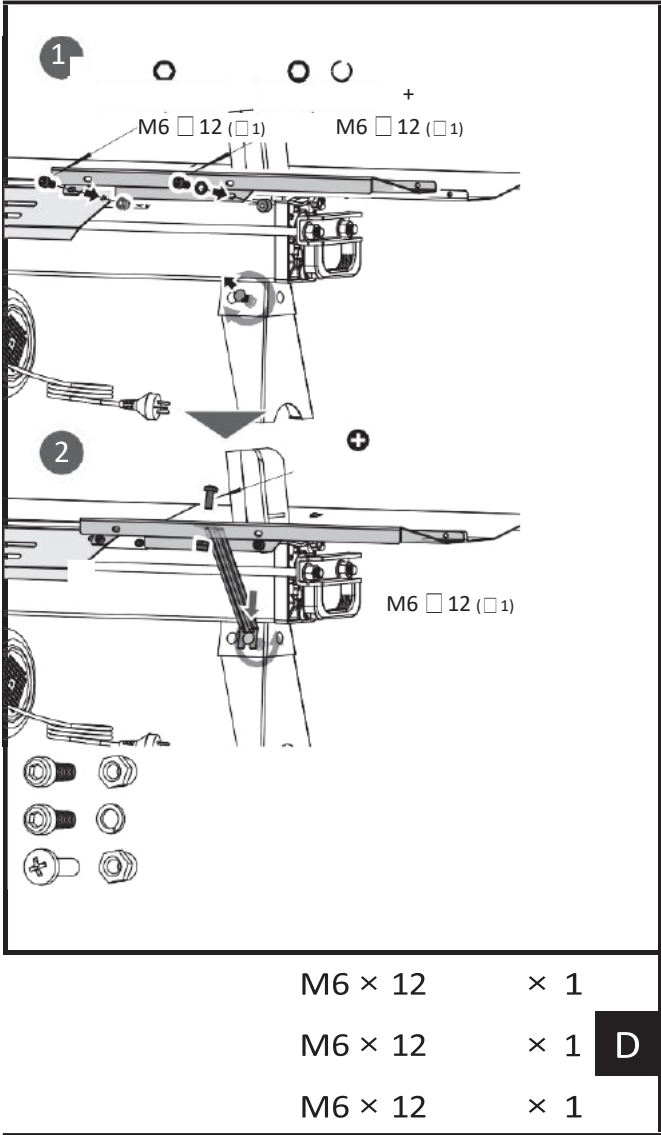
2. Align the two support holes of the plate of the log sliding plate with the holes in the rear part of the log splitter. Insert an M6x12 Allen screw and the safety washer into the support hole on the left side and the other M16x12 Allen screw and the M6 locknut on the right side, then tighten both securely.

Loosen the bolt and nut on the left side of the front leg, place the open end of support 1 onto the bolt, then tighten the nut. Connect the upper end of support 1 to sliding plate 1 with a cross screw M6×12 and an M6 locknut, then secure.

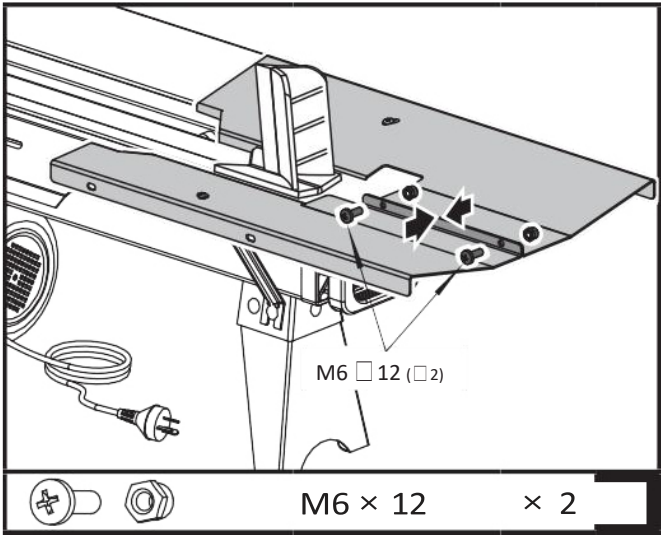


3. Align the two support holes of sliding plate 2 with the holes in the front part of the log splitter. Insert an M6×12 Allen screw and a safety washer into the support hole on the right side and an M6×12 Allen screw and an M6 locknut on the left side, then tighten both securely. Loosen the bolt and nut on the right side of the front leg, insert the open end of support 1 onto the bolt, then tighten the nut.

Connect the upper end of support 1 to sliding plate 2 with a flat cross screw M6×12 and an M6 locknut, then tighten.

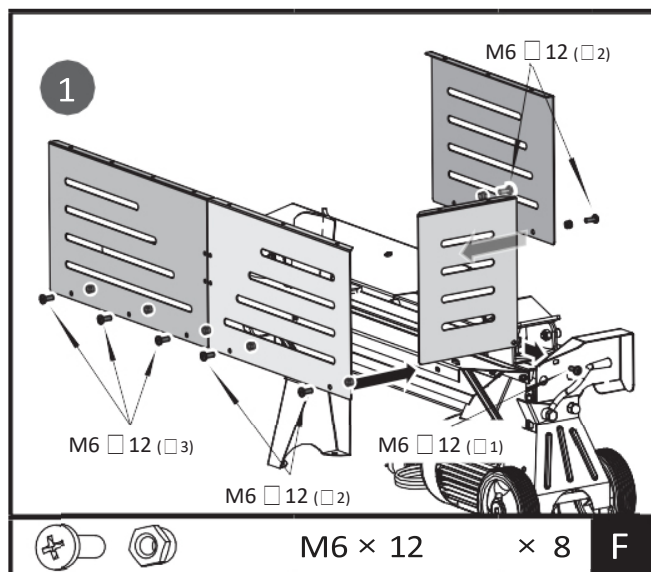


4. Connect sliding plate 1 with sliding plate 2 using two M6×12 screws and locknuts.



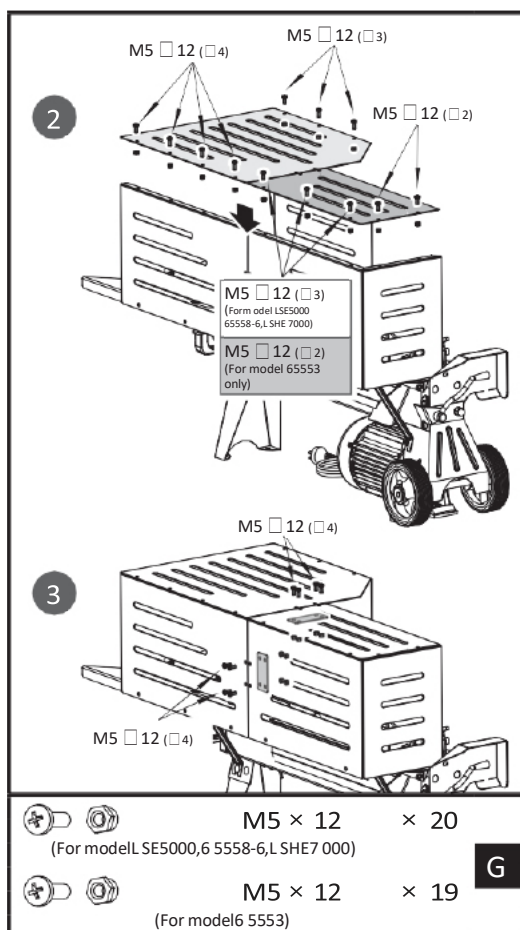
Steel guard

1. Join the front guard plate, the left guard plate, and the two rear plates to the sliding plate and the bottom plate with M6×12 bolts and nuts.



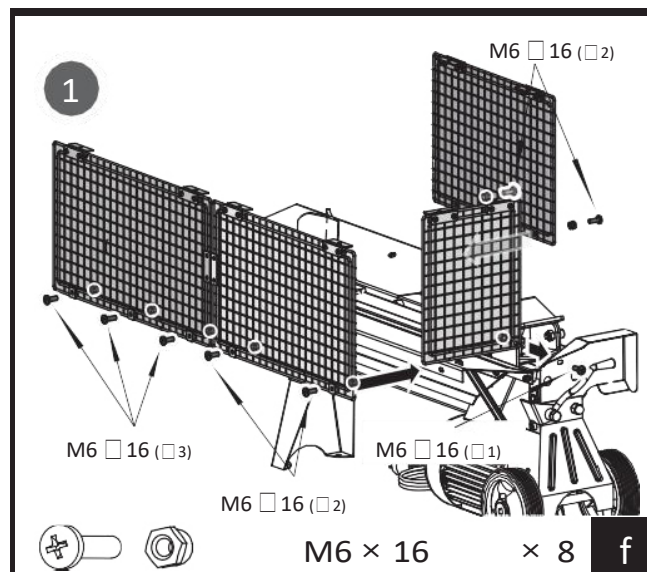
2. Mount the two upper guard plates onto the vertical plates with M5×12 bolts and nuts.

3. Connect the two upper guard plates / rear guard plates with the joints, M5×12 bolts and nuts.



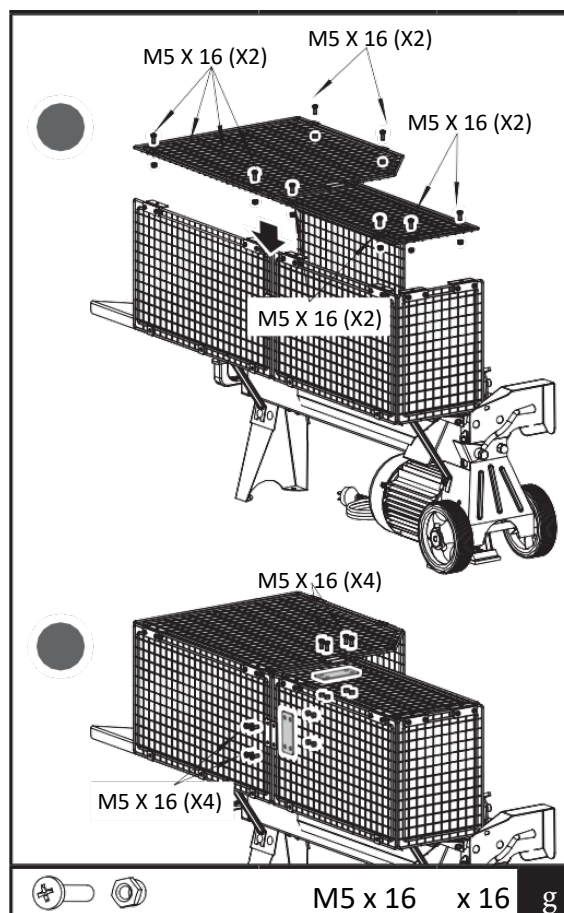
Metal guard

1. Join the front guard plate, the left guard plate, and the two rear plates to the sliding plate and the bottom plate with M6×16 bolts and nuts.

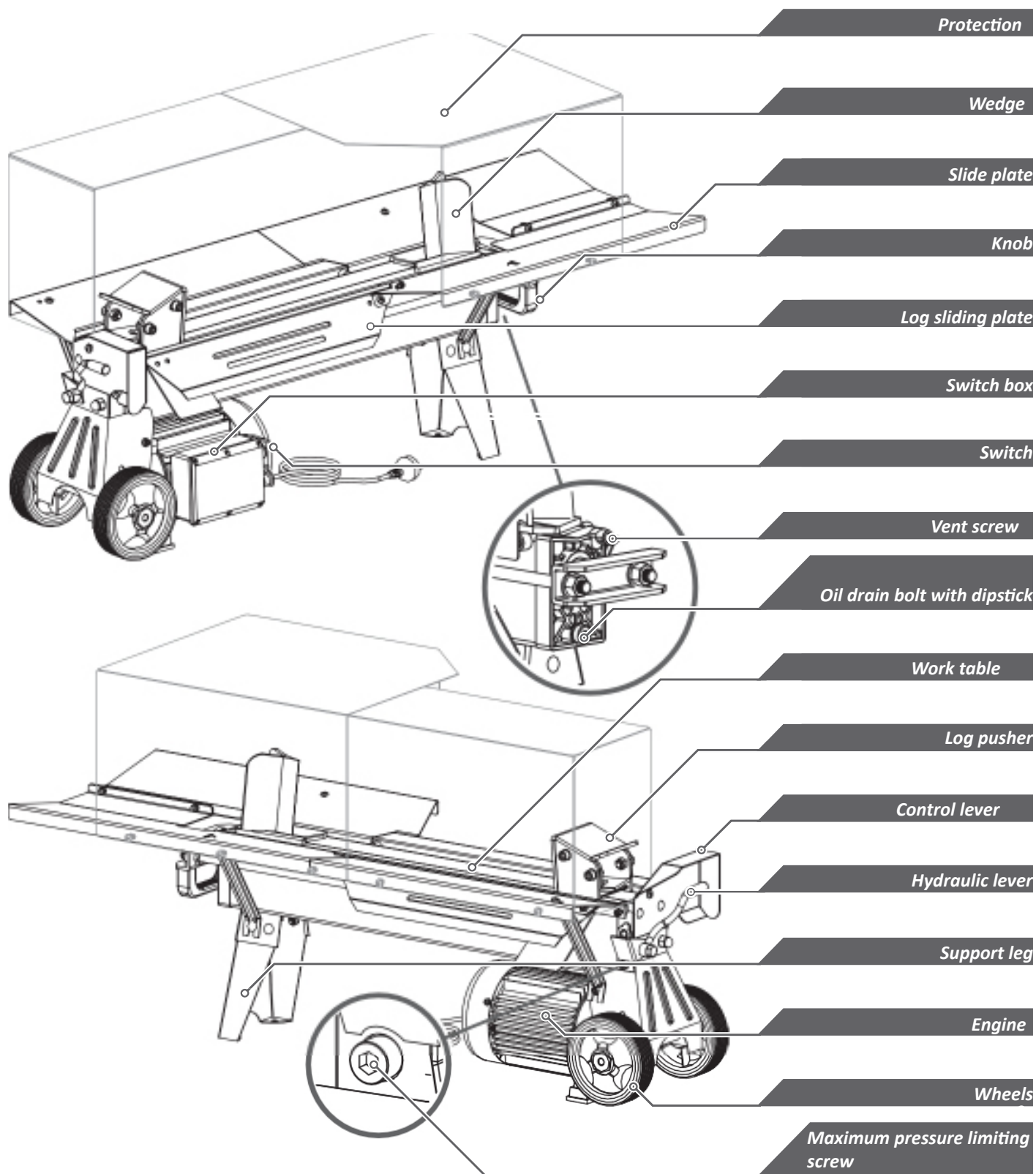


2. Mount the two upper guard plates onto the vertical plates with M5×12 bolts and nuts.

3. Connect the two upper guard plates / rear guard plates with the joints, M5×12 bolts and nuts.



KNOW YOUR MACHINE



Vent screw

Before using the log splitter, the vent screw should be loosened by turning it so that air can enter and exit the oil tank regularly.



The air passing through the vent screw hole should be detected when the log splitter is operating.

Before moving the log splitter, make sure that the vent screw is tightened to prevent oil leaks.



Failure to loosen the vent screw will keep the sealed area in the hydraulic system compressed after being decompressed. Such continuous compression and decompression of air will blow out the seals of the hydraulic system, causing permanent damage to the log splitter.

Maximum pressure limiting screw

The maximum operating pressure is set by the manufacturer and the pressure limiting screw is sealed with glue to ensure that the log splitter does not operate at a pressure above 4(5/6/7) tons. The adjustment is carried out by qualified mechanics with professional tools.

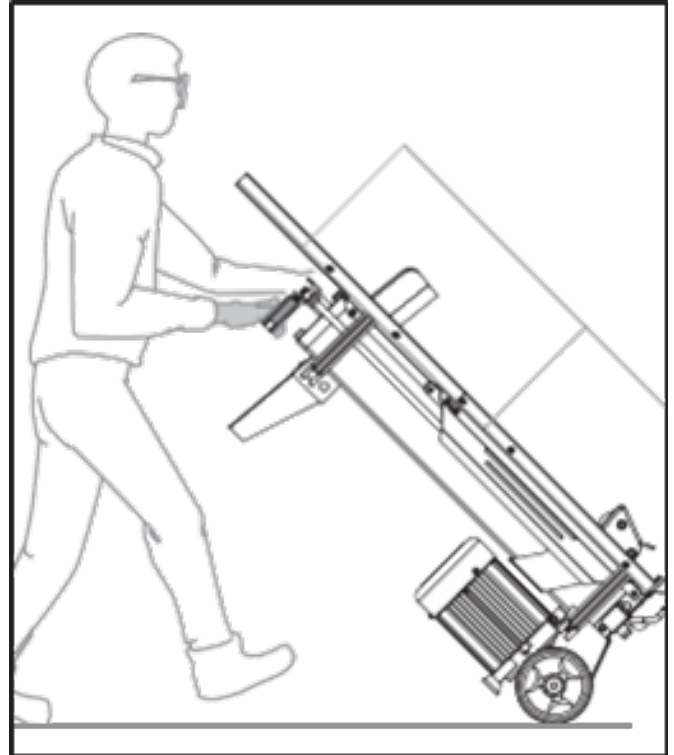
Unauthorized resets cause the failure of the hydraulic pump to release enough cutting pressure or create serious damage such as also damaging the machine.



**DO NOT MODIFY THE
MAXIMUM PRESSURE
LIMITING SCREW!**

TRANSPORT

The log splitter is equipped with 2 wheels for easier movement, to move the log splitter to the work site



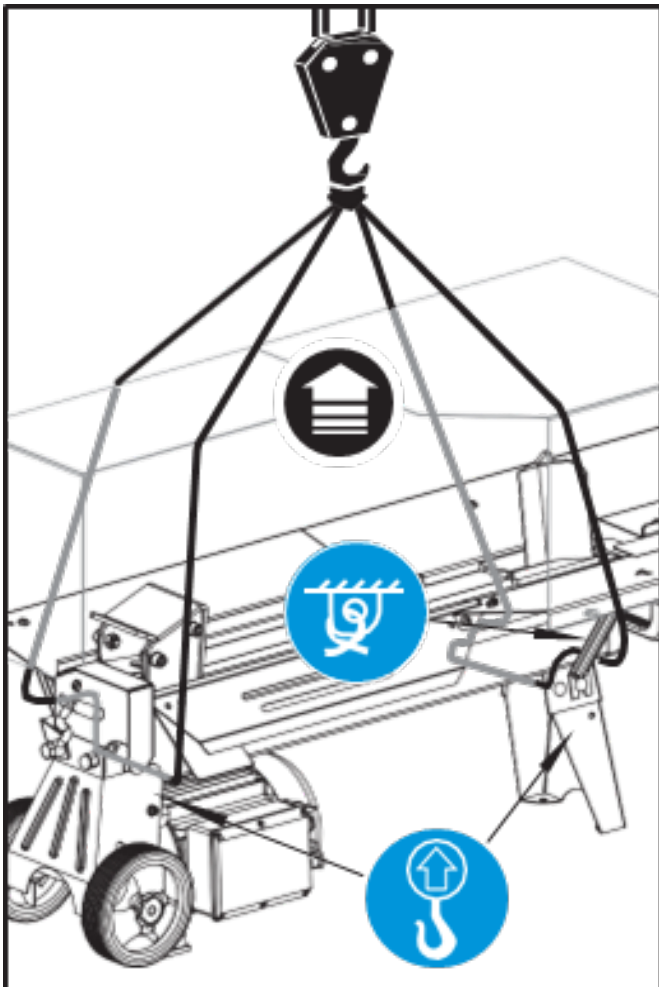
**Do not transport the
log splitter with loaded
timber!**

BRING THE LOG SPLITTER TO THE WORK SITE

The log splitter is equipped with 2 wheels for small movements and to move the log splitter to the work site. Grab the handle to slightly tilt the log splitter after making sure that the tank cap of the oil is tightly closed.

For long distance transport

Secure the log splitter in the positions indicated by the packaging symbols after placing it in the truck, to prevent its free movement.



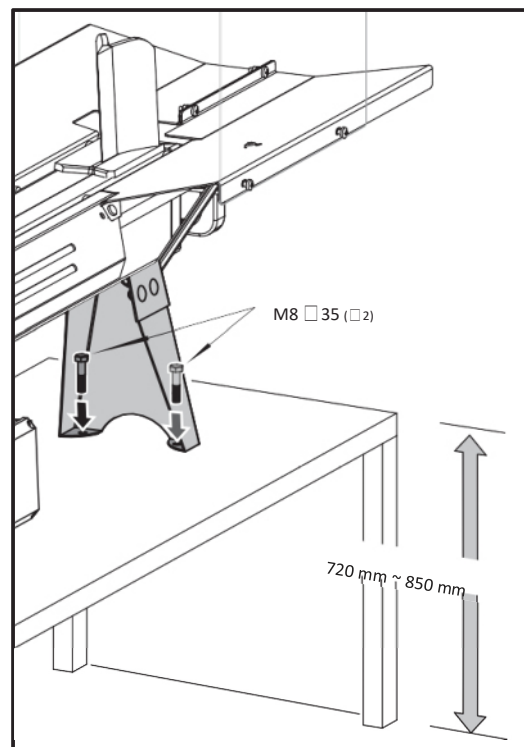
If using a crane, use lifting chains at the lifting point. Never try to lift the log splitter by the handle

CUTTING OPERATION

Operating conditions

This log splitter is a model for domestic use. It is designed to be used in environments with temperatures between +5°C and 40°C and at altitudes not exceeding 1000 m above sea level. The relative humidity should not be higher than 50% at 40°C. The machine can be stored and transported in environments with temperatures between -25°C and 55°C.

Before use, place the log splitter at a height of 72-85 cm on a stable and flat surface. Secure the support leg using two M8 × 35(A) bolts in the base support.



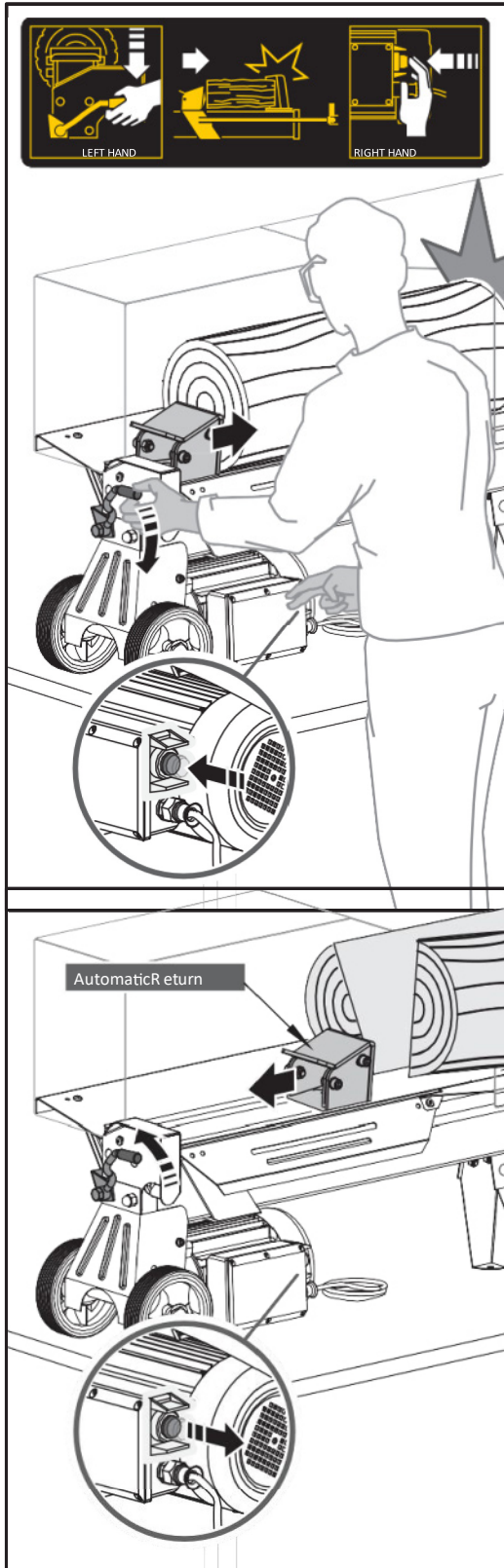
Cutting—Manual operation

The log splitter is equipped with a system of “ZHB” control that requires the use of both hands of the operator.

The left hand controls the hydraulic control while the right hand controls the push button switch.

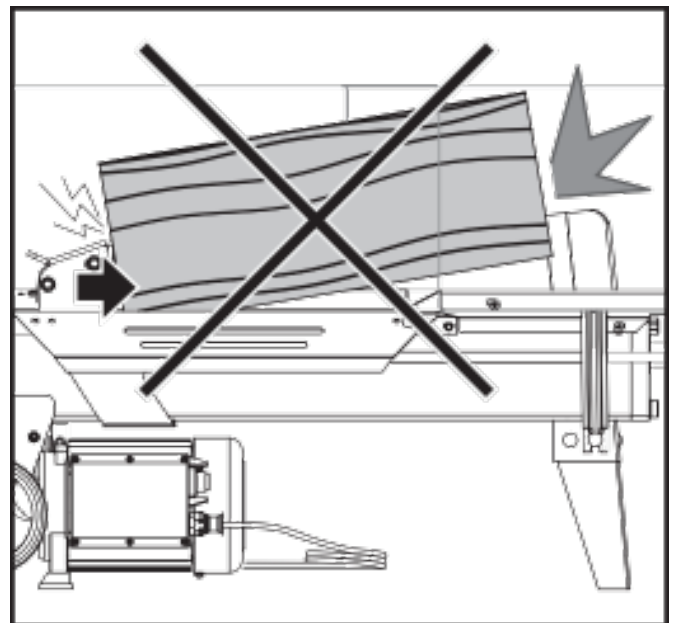
The log splitter locks in case of absence of one or the other hand. Only after both hands release the controls, the log splitter begins to return back to the initial position.

The trigger lock device is adopted to prevent the hydraulic control lever from being pushed accidentally. To use the hydraulic control lever, pull back the trigger with your index finger before pushing back the hydraulic control lever.



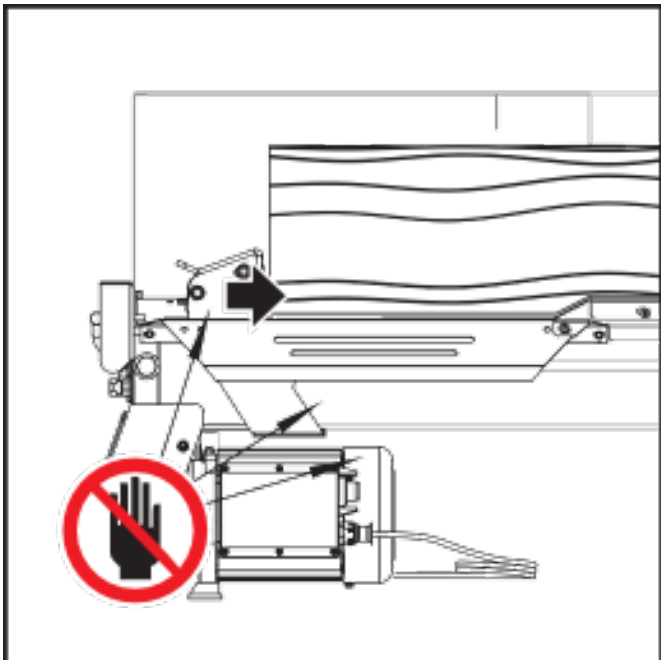
Never force the log splitter for more than 5 seconds to maintain pressure to cut excessively tough wood.

After this period of time, the oil under pressure may overheat and the machine may become damaged. For an extremely hard log, rotate it 90° to see if it can be cut in a different direction. In any case, if you are not able to cut the log, this means that its hardness exceeds the capacity of the machine and therefore it should be removed in order to protect the log splitter. Always firmly place the logs on the metal sheet and on the work surface. Make sure that the logs do not turn or slip while they are being cut. Do not force the blade by cutting the log at its highest point. This can break the blade or damage the machine.



Split the log in the direction of its grain. Do not put logs through the log splitter to cut them. It can be dangerous and cause serious damage to the machine.

Do not attempt to cut 2 logs at the same time. One of them could be thrown into the air and hit the user.

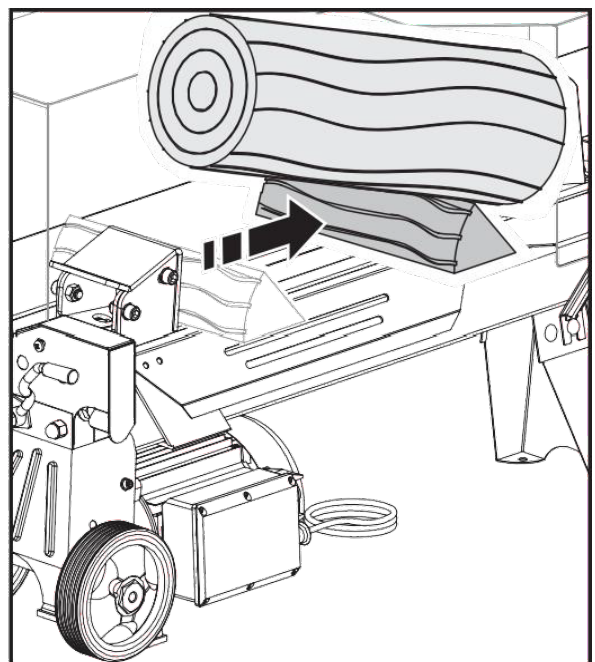
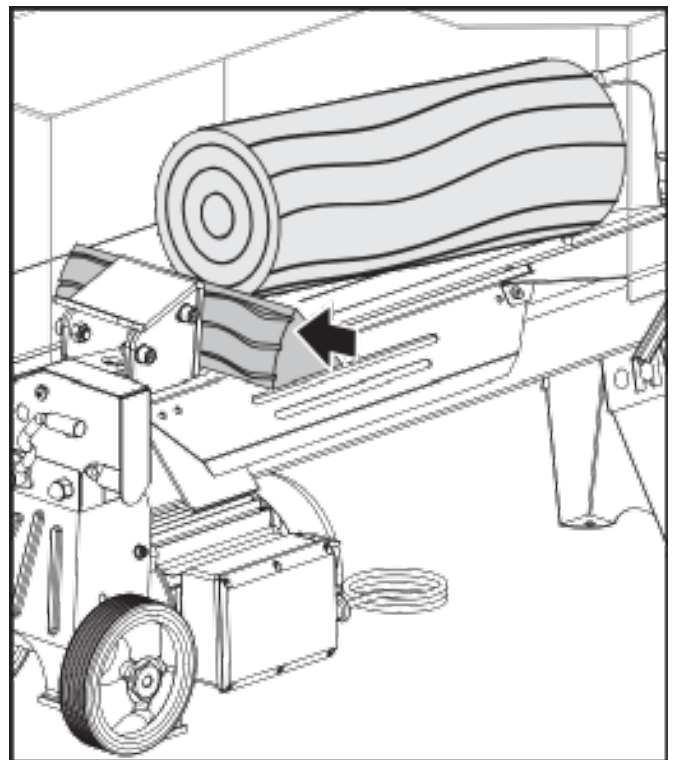


DANGER!

Keep your hands away from the cutting area, the area in use, and the heated area while working.

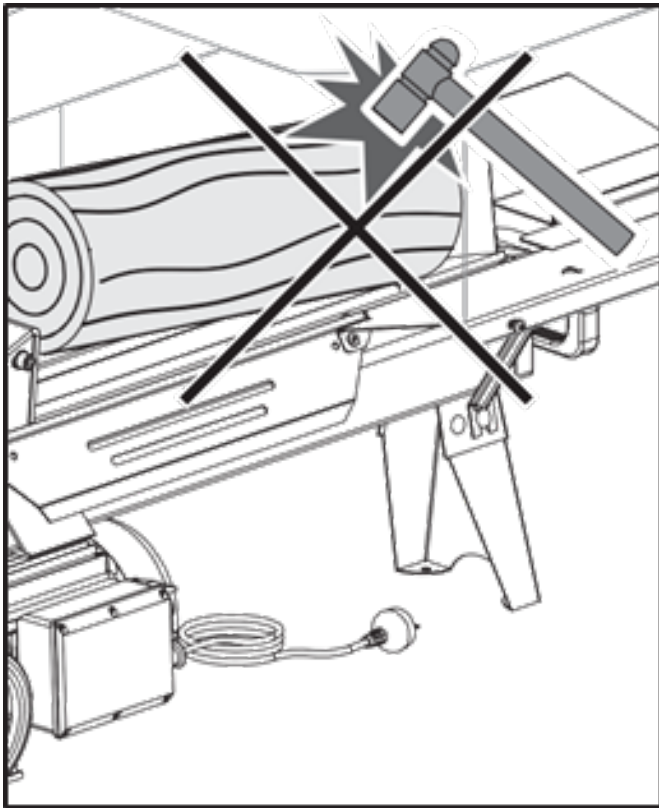
RELEASING A LOG STUCK

- Release both control levers.
- After the piece that pushes the log returns and stops completely at the initial position, insert the wedge under the stuck log.
- Operate the log splitter to push the wedge completely under the stuck log.
- Repeat the above procedures with a hanging and sharper wedge until the log is completely free.





Do not try to knock down the stuck log. Hitting it could damage the machine or could throw the log and cause an accident.



REPLACING THE OIL HYDRAULIC

Replace the hydraulic oil in the log splitter after every 150 hours of use.

Follow the procedures below to replace it.

- Make sure that all moving parts are stopped and that the log splitter is turned off.
- Unscrew the oil drain cap with the dipstick and remove it.
- Rotate the log splitter to the side of the support leg over a container with a capacity of 4 liters to drain the hydraulic oil.
- Turn the log splitter to the engine side.
- Fill with new hydraulic oil in the quantity according to the hydraulic oil capacity of the model type indicated in the specifications table.
- Clean the surface of the dipstick of the oil drain and place it inside the oil tank while holding the log splitter vertically.
- Make sure that the oil level is only between the 2 grooves around the dipstick.
- Clean the oil cap before screwing it back on again. Make sure it is tightly screwed on to avoid leaks before positioning the log splitter horizontally.

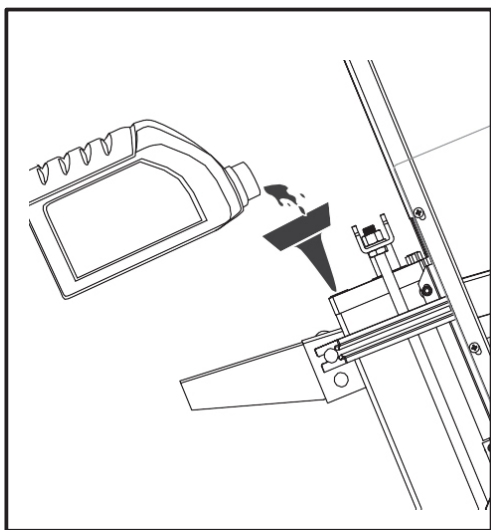
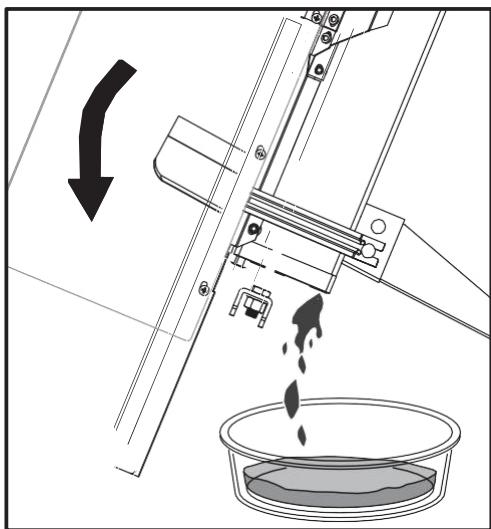
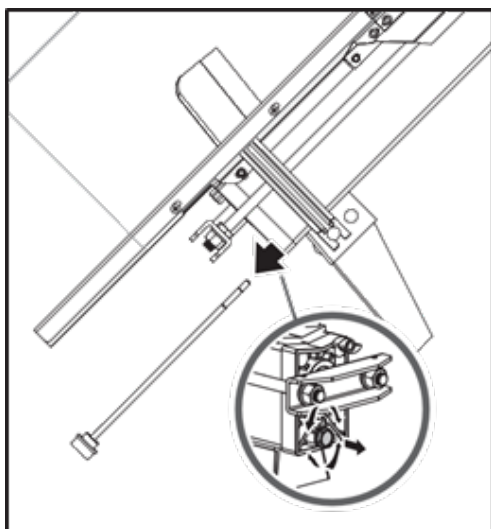
The following hydraulic oils or equivalents are recommended for the hydraulic transmission system of the log splitter:

SHELL Tellus 22

MOBIL DTE 11

ARAL Vitam GF 22

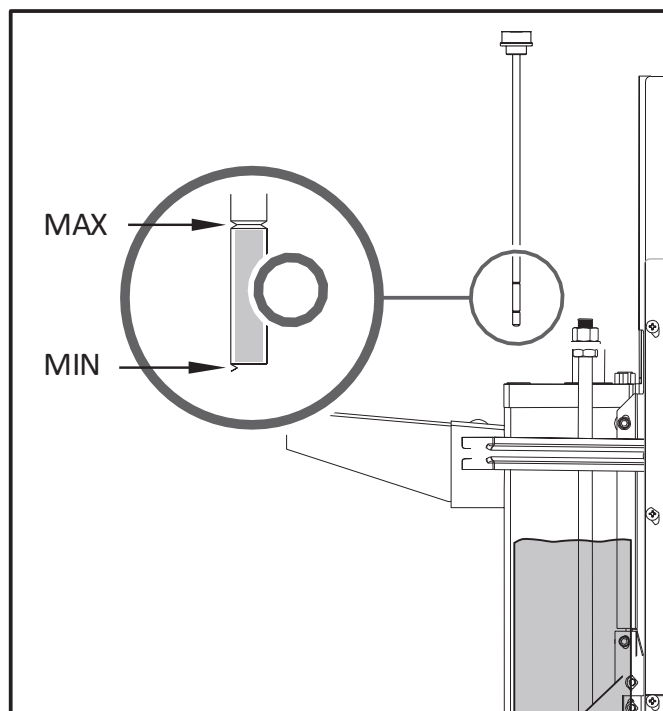
BP Energol HLP-HM 22



Oil level

Use a collection tray to help remove the used oil and its residues.

Remove the oil drain cap from the hydraulic transmission system. Check the oil for metal shavings as a precaution against future problems.



Read the dipstick to determine the maximum and minimum oil levels. Too little oil can damage the oil pump. Too much oil can cause excessive temperatures in the hydraulic transmission system.

SHARPEN THE BLADE

The log splitter is equipped with a reinforced cutting wedge whose blade has been specially cut. After long periods of use, and if necessary, sharpen the blade using a fine-toothed file to remove burrs or notches.

TROUBLESHOOTING

PROBLEM	PROBABLE CAUSE	SUGGESTED SOLUTION
Failure to cut the log	The log is improperly positioned	Refer to "Operating Conditions" in the paragraph for proper log loading.
	The size or hardness of the log exceeds the machine's capacity	Reduce the size of the log before cutting it in the log splitter
	The cutting blade is dull	Refer to "Sharpening the blade" in the cutting wedge sharpening paragraph.
	Oil leaks	Locate the leak and contact the dealer.
	Unauthorized modification made to the maximum pressure limiting screw. The lower value of the maximum pressure has been changed.	Contact the dealer
The log pusher base moves jerkily, makes an unfamiliar noise, or vibrates excessively	Loss of hydraulic oil or excessive air in the hydraulic system.	Check the oil level in case it needs refilling. Contact the dealer.
Oil leaks around the cylinder or other points.	Air trapped in the hydraulic system during operation.	Loosen the vent screw by 3 ~ 4 turns before using the log splitter.
	The vent screw was not tightened before moving the log splitter.	Tighten the vent screw before moving the log splitter.
	The oil drain cap is not tightly fastened.	Tighten the oil drain cap
	Hydraulic control assembly valve and/or worn seals	Contact the dealer



WARNING: ALL REPAIR WORK MUST BE CARRIED OUT BY A PERSON EXPERIENCED WITH THE PRODUCT.

DIAGRAM OF WIRING

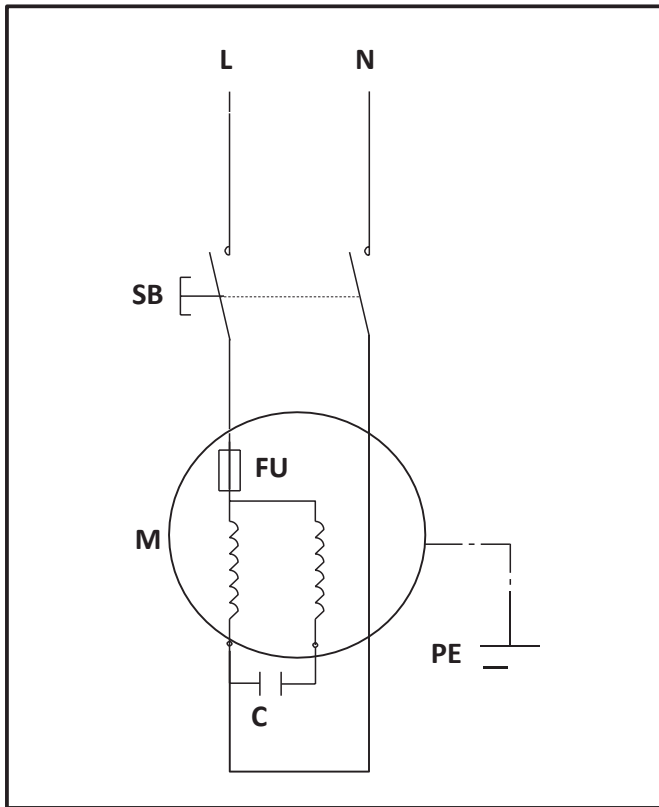
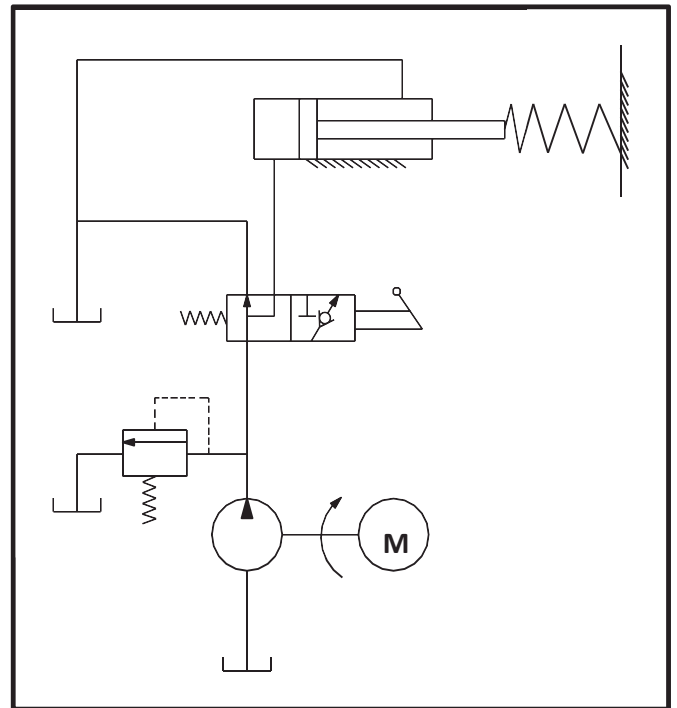


DIAGRAM OF THE HYDRAULIC SYSTEM



EC DECLARATION OF CONFORMITY - HERSTELLERERKLÄRUNG - DECLARATION 'CE' DE CONFORMITE - DECLARACION DE CONFORMIDAD - DICHIARAZIONE DI CONFORMITA' EUROPEA - GELIJKVORMIGHEIDSVERKLARING - 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 Morori s.r.l.
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:
SPACCALEGNA - LOGSPLITTER

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

BLUE BIRD

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

LSE 5000
LSHE 7000

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:

(LSE 5000): UNI EN 12100:2010 EN 609-1:1999+A1:03+A2:09 EN 60204-1:2006+A1:2009 EN 55014-1:2006/+A1:2009/+A2:2011 EN 55014-2:1997/+A1:2001/+A2:2008 EN 61000-3-2:2006/+A1:2009/+A2:2009 EN 61000-3-11:2000

(LSHE 7000): EN 55014-1:2017 EN 55014-2:2015 EN 61000-3-2:2014 EN 61000-3-11:2000

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