

BOOM MOWER AM 60 • AM 80 USER MANUAL



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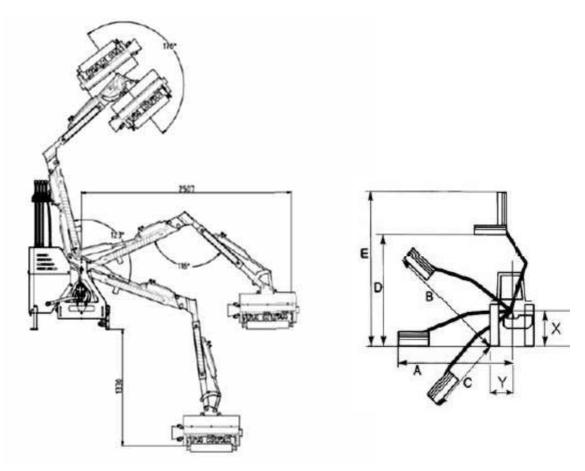
ENG | ENGLISH TRANSLATION OF THE ORIGINAL MANUAL

BOOM MOWER | User manual December 2020

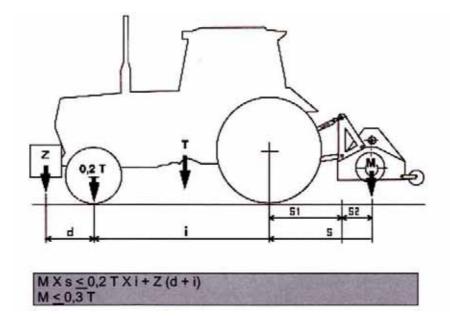
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1. SPECIFICATIONS



	AM 60	AM 80
WEIGHT	260 kg	275 kg
WORKING WIDTH	600 mm	800 mm
TYPE OF FLAIL	Y	Y
NUMBER OF FLAILS	24	32
OIL CAPACITY	55 I	55
RPM	540	540
POWER	18-50 hp	25-60 hp
Α	2510 mm	2610 mm
В	2000 mm	2100 mm
С	1200 mm	1300 mm
D	1500 mm	1500 mm
E	2300 mm	2400 mm
X	720 mm	720 mm
Υ	700 mm	700 mm



Check the lifting capacity and stability of the tractor by applying the following formula and, if required, the appropriate front weights.

1	Wheelbase of the tractor		
D	Distance between the front weights and the front axle		
S	Distance between the machine and the rear axle		
S1	Distance between the rear axle and the boom		
S2	Distance between the boom and the machine		
T	Weight of the tractor + 75 kg		
Z	Weight of the front weights.		
M	Weight of the machine.		

2. GENERAL SAFETY INSTRUCTIONS

The user of the boom mower is responsible for his or her own safety and that of bystanders in the area around this machine. It is therefore essential that the user have sufficient knowledge about the use of the machine and how to attach it to the tractor.

The figures and descriptions in this manual must be provided to both users and maintenance staff, and the general instructions must be observed with regard to the use and maintenance of the machine. If there is any doubt or lack of clarity, the dealer can always be consulted.

This product may only be used for the purpose for which it has been designed and tested. Moreover, it may only be used with a suitable tractor and be powered by a suitable power take-off drive on the tractor. Any other use is strictly prohibited.

The machine has been built in accordance with the applicable safety regulations, which is why the manufacturer cannot be held liable for damage that arises from:

- The use of the machine if one or more of the covers is missing.
- Incorrect use of the machine.
- The use of the machine by untrained or unauthorized access.
- Incorrect coupling of the machine to the tractor.
- Defective or insufficient maintenance.
- Unauthorized changes or activities performed on the machine.
- Use of non-original spare parts or parts not specific to the machine.
- Non-compliance with all or a part of the instructions in this manual.
- Extraordinary weather conditions.

Workplace

When working with the machine, the operator must sit on the seat of the tractor. Any other place is absolutely prohibited.

Bystanders may not come too close to the machine when it is being worked on. It is possible for objects to be ejected from the machine; the operator of the machine must always remain approximately 100 m away from bystanders.

Only leave the driver's seat when:

- The power take-off has been switched off.
- The motor has been switched off.
- Rotating parts have come to a standstill.

Be very careful during repairs and performing maintenance and when removing accumulated product residue from the machine. Only position the machine on permanent/flat surfaces in order to guarantee a safe working environment. Be careful when using ladders to reach higher areas. Slipping or falling can result in serious injury or even death.



WARNING

Never stand under a raised machine. Releasing the control lever or a mechanical defect could cause the boom mower to drop and possibly cause serious injury or even death. Always lock the machine firmly before carrying out any repairs or maintenance.



The operator may never leave the machine unattended when the machine is in a raised position. Accidental operation or a hydraulic fault may cause a sudden descent of the boom mower. Always lower the machine completely and lock it in position.

Release hydraulic pressure before carrying out any repairs or maintenance. Use gloves and eye protection when carrying out maintenance on these parts. Contact with a hydraulic part or its fluid may cause serious injury and burns.

Never start a defective machine even if you only suspect it is defective. Check the machine or the tractor and, if in doubt, contact your dealer.

If the machine vibrates excessively, switch the power take-off off immediately and then switch the tractor off. Inspect the machine for missing or damaged blades or flails. If these appear to be in good condition, check the power take-off for damage. If foreign objects become lodged or tangled in the machine, they must be removed.

Never leave residual waste in the area of transmissions or couplings in connection with safety. After cleaning, check the machine for damage. Always carry out repairs immediately before you continue working.

Driving on a public road

The distance required for the tractor to brake can be considerably greater if the machine is installed on the tractor. It is possible that the machine is wider than the tractor. If that is the case, the operator must be especially careful when driving on a public road. Be alert for obstacles on or alongside the road. Coming into contact with an obstacle may lead to damage to the machine or tractor, loss of control, serious injury or even death.

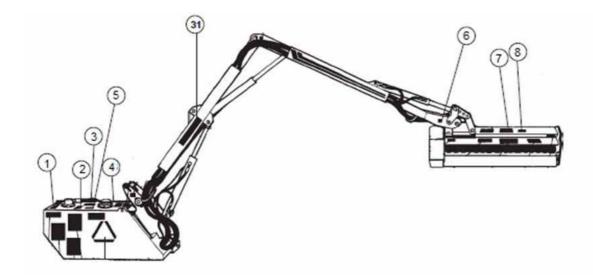
- Caution: approach curves and/or steep roads at a lower speed.
- Move the point of gravity to the back of the vehicle and remove the weight from the front axle.
- Slow down on rough or uneven surfaces.
- Make sure that the machine is mounted properly onto the three-point lifting device.
- When driving on a public road, take note of traffic or, in the working area, of cables or pipelines.
- Drive at a safe speed when working. The correct rotor speed of the mower depends on the work area, for example, the density and height of the grass. The correct driving speed is 8.3 km/h This speed must be adjusted when on or in the area of steep slopes, ditches or obstacles.
- Avoid mowing in the reverse direction as much as possible.
- Never work with two mowers in the same working area.

Clothing

- Do not wear jewelry or loose clothing such as ties, scarves or open clothing that could touch moving parts of the machine.
- Always use safety shoes, safety goggles, hearing protection and gloves.
- Wear a jacket with reflective parts when it is dark (e.g. a high-visibility jacket).
- Long-term exposure to loud noise may lead to hearing loss! We advise that you always wear hearing protection when the sound is louder than 80 dB.
- Never use the machine under the influence of alcohol or the effect of drugs, medicines or other stimulants that may slow down your reflexes.



3. SAFETY LABELS



1





- ATTENZIONEI PER COMPIERE LA REVERSIBILITÀ DI TAGLIO ATTENDERE CHE IL ROTORE SIA COMPLETAMENTO FERMO.
- ATTENTION! INVERSER LE SENS DE ROTATION SEULEMENT QUAND LE ROTOR EST ARRÊTÉ.
- WARNING! SWITCH ROTOR TO OFF POSITION BEFORE INVERTING ROTATION.
- **VORSICHT!** DREHRICHTUNG UMKEHREN NUR BEIM AUSGESCHALTETEN ROTOR.

2, 3

INSTRUZIONI DI SICUREZZA - SICHERHEITSVORSCHRIFTEN SAFETY INSTRUCTIONS - INSTRUCTIONS DE SÉCURITÉ ALICRIMANIE TUITE LE PERSONE RONALITORIZATE DA RAGGIO DI ADORE DELL'AMOCIONA. ALICRIMANIE TUITE LE PERSONE RONALITORIZATE DA RAGGIO DI ADORE DELL'AMOCIONA. ALICRIMANIE TUITE LE PERSONE RONALITORIZATE DA RAGGIO DI ADORE DELL'AMOCIONA. ALICRIMANIE TUITE LE PERSONE RONALITORIZATE DA RAGGIO DI ADORE DELL'AMOCIONA. ALICRIMANIE TUITE LE PERSONE RONALITORIZATE DA RAGGIO DI ADORE DELL'AMOCIONA. ALICRIMANIE TUITE LE PERSONE RONALITORIZATE DA RAGGIO DELL'AMOCIONA. ALICRIMANIO DELL'AMOCIONA. MAN, PERS. Y SETTILICO. CORRECLATE AUTERILICA DELL'AMOCIONA DELL'AMOCIONA ROLL'AMOCIONA. ANDI L'ORDICATE L'ALIC AGGIO DELL'AMOCIONA ROLL'AMOCIONA ROLL'AMOCIONA. ANDI L'ORDICATE PALITE AGGIO DELL'AMOCIONA ROLL'AMOCIONA PER VERIFICARE L'APERISANCA DI APPROCLAMI ALL'AMOCIONA ROLL'AMOCIONA PER VERIFICARE L'APERISANCA DI APPROCLAMI ALL'AMOCIONA DI CONTROLLAR ROLL'AMOCIONA ROLL'AMOCIONA PER VERIFICARE L'APERISANCA DI APPROCLAMI ALL'AMOCIONA ROLL'AMOCIONA ROLL

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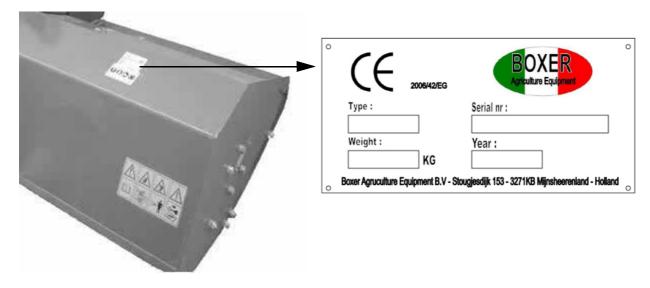
7,8



Identification of the machine

The frame of this machine has a CE mark and has a label that lists the importer, type, serial number and year of manufacture.

The location of the CE identification plate on the machine:



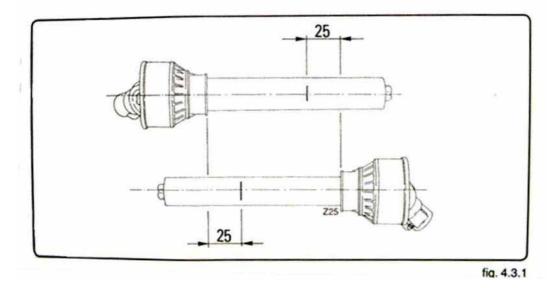
4. INSTALLING THE POWER TAKE-OFF

Do not use a power take-off that has not been approved for connecting to the power take-off of the tractor. Use of a wrong power take-off could lead to excessive vibrations, which could cause objects and/or parts to be thrown.

Use the safety chain attached to the drive shaft. A shaft with universal joint that is not installed properly on the tractor may work itself loose, which could result in damage to the machine and/or tractor or bodily injury.

If the power take-off is too long, it must be shortened using one of the following methods:

- Position the machine at a minimum distance from the tractor and switch the tractor off completely.
- Check the position and, if required, adjust the bolts.
- Separate the two halves of the shaft.
- Keep the two halves next to each other so that they are parallel.



- Use a marker to indicate the location where the two halves must be shortened 25 mm from the beginning of each half as shown in Fig. 4.3.1.
- When sawing part "1" (Fig. 4.3.2), use the length as shown above.
- When cutting part "3", use part "2" to cut off the correct length.

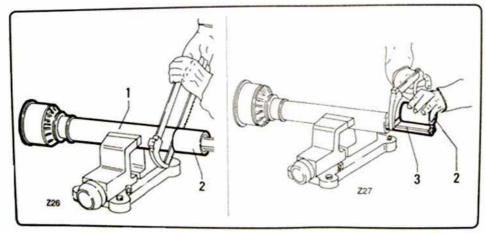


fig. 4.3.2

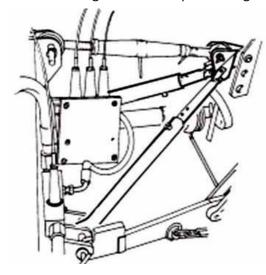
- Saw and smooth the two ends of the power take-off and clean them of any dirt and sawing residue.
- Lubricate the two ends and join the two parts of the power take-off once again.
- Install the power take-off and check that the length is correct.

Protection systems can be installed:

- Shear bolt coupling
- Disc clutch coupling

Connect the lowest connections of the tractor to the machine and make sure that the pins are securely locked using lock pins.

Check that the lock pins are in the right location and that the nuts have been tightened properly. When installing on the three-point lifting device, the position of the side arms must be adjusted as shown.

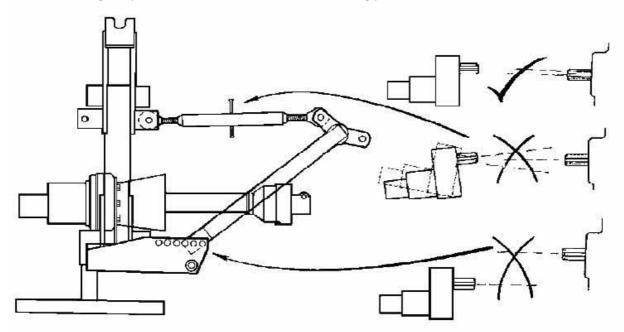


Never stand between the tractor and the machine when connecting.

Fasten the top bar using cotter pins and lift the machine so that the power take-off of the tractor is at the same height as the machine.

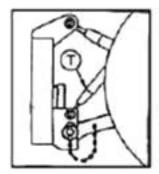
Fasten the safety chain so that the machine cannot swerve sideways.

Before installing the power take-off of the tractor, all moving parts must be lubricated.



The machine has two stabilizers; for installation and removal, it is essential that the following instructions be read:

- Raise the frame of the machine into the working position.
- Fasten the two top bars with the pins on the uppermost fastening point of the lowest coupling fastening points on the machine and the recesses of the top bar.
- Turn the top bar so that the machine is locked and cannot move. By not lifting the lifting device, there is no upward pressure on the stabilizers.



The correct working position is by mowing as closely as possible to the tractor.

The machine is equipped with special lock pins to prevent movement and guarantee safety on the road and while working.

Never drive or move the machine without having installed the lock pins. These pins protect the machine and prevent the risk of accidents.

5. HYDRAULIC SYSTEM

The control panel for the boom mower can be operated from the seat of the tractor, but the position greatly depends on the length of the cables between the machine and the control panel. The group of control valves is installed on the front of the oil tank.

The standard hose can be passed through the back of the tractor. Make sure that the cables have no bends in them and/or are trapped.

Follow the instructions below:

- 1. Place the hose along the rear side of the tractor. If the tractor has a closed cab, the cables can be installed via the special opening.
- 2. Fasten the cables to the control panel, making sure that all connections have been connected correctly.
- 3. Test the cables and the control panel. Move the machine into different positions and then put it back in the initial position. If one of the movements is not optimal, the cables must be checked for damage or being trapped.

A pump that is installed on the power take-off provides hydraulic pressure on the hydraulic block.

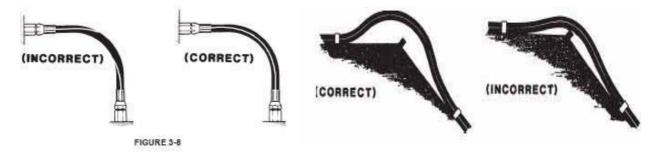
A valve makes sure that the rotor shaft in the mower head rotates.

Fill the reservoir with the right type of hydraulic oil (HP46).

The correct procedure for filling the oil tank is as follows:

- 1. Remove the vent plug and the filter on the side of the tank.
- 2. Check the correct position of the suction hose from the tank to the pump.
- 3. Fill the tank until it is visible in the gage glass.
- 4. Avoid contact with oil at all times.

The hoses may never be twisted or bent. Most hoses show a line that must be straight over the entire length of the tube (see figure 3-8).



Never try to replace a hydraulic hose while under pressure. Improper repairs can lead to leaks.

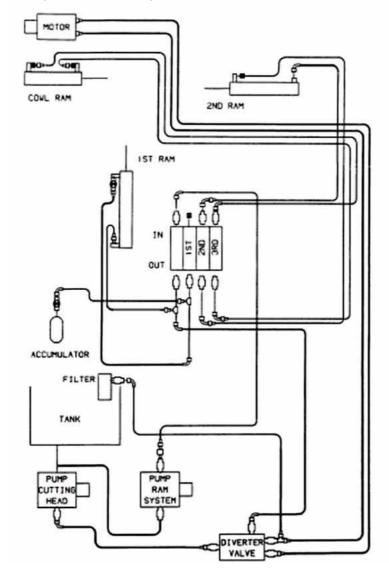
Regular maintenance increases the life cycle of the hydraulic system:

- 1. Do a weekly check that all hoses and connections are in good condition and whether there are any leaks.
- 2. If one or more hydraulic hoses are damaged, they must be replaced.
- 3. Make sure that the hoses do not come into contact with sharp edges.
- 4. Make sure that there are no kinks or sharp bends in the hoses.
- 5. Check the suction hose/filter from the tank to the pump regularly.
- 6. When in doubt about damage or leaks, always replace the hoses or contact your dealer.

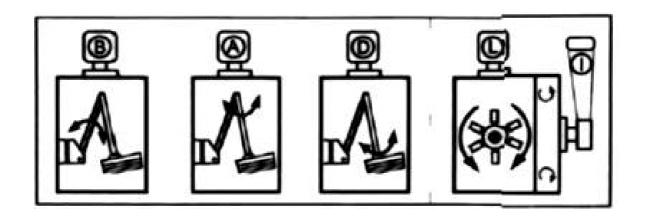
Always check the hydraulic pump system!

If you hear a squealing noise coming from the pump, this could mean that there is air in it or there is not enough oil in the circuit:

- 1. Stop using the machine.
- 2. Find the fault.
- 3. If you cannot fix the problem, contact your dealer.

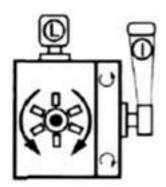


6. OPERATION OF THE BOOM MOWER



		Forward	Reversing
I	Reversing the rotor	Moving the rotor toward the front	Moving the rotor down at the front
L	Starting/stopping the rotor		
В	Main arm	Moving main arm down	Moving main arm up
Α	Reach in/out	Extending	Retracting
D	Mower head	Clockwise	Counterclockwise

Only reverse the rotor levers I and L once the rotor has stopped completely: Performing this maneuver while the rotor is moving could damage the hydraulic motor.



- 1. Take the machine out of transport mode.
- 2. Make sure there are no people or animals in the work area.
- 3. Move the mower head to the ground, keeping it just above the material to be cut.
- 4. Start the rotor by pulling lever L and increase the power take-off speed to 540 rpm.
- 5. Lower the mower head and adjust your speed to the product to be mowed.

Keep the mower head parallel to the area to be worked for a safe working position. Avoid obstacles and stones in the work area.

The machine's rotor can be operated in both directions:

WORKING DIRECTION The rotor turns upward. Mowing grass, sides of ditches and light vegetation/ground cover. Maximum diameter for pruning: Ø 6 cm WORKING DIRECTION Working DIRECTION The rotor turns downward. Mowing rough surfaces and heavy vegetation/ground cover. Maximum diameter for pruning: Ø 3 cm

Always adjust your speed to fit in with what you will be mowing.



WARNING

Do not change the direction of rotation while it is still moving.

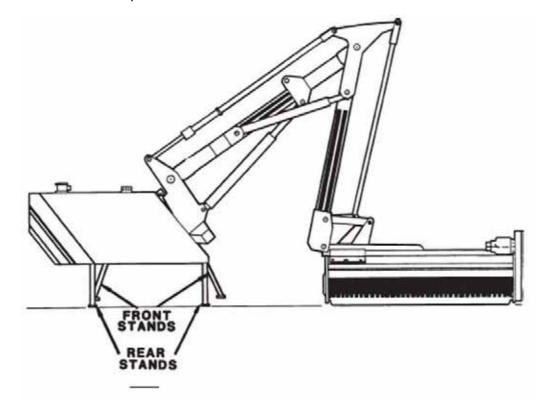
7. STORAGE

Before disconnecting the machine:

- 1. Thoroughly clean all moving parts, particularly the rotors.
- 2. Check for damaged or missing flails.
- 3. Check all hoses for damage or leaks.
- 4. Grease and lubricate all moving parts.
- 5. Parts that are damaged or missing must be replaced immediately.

When preparing the machine for storage, follow the following instructions:

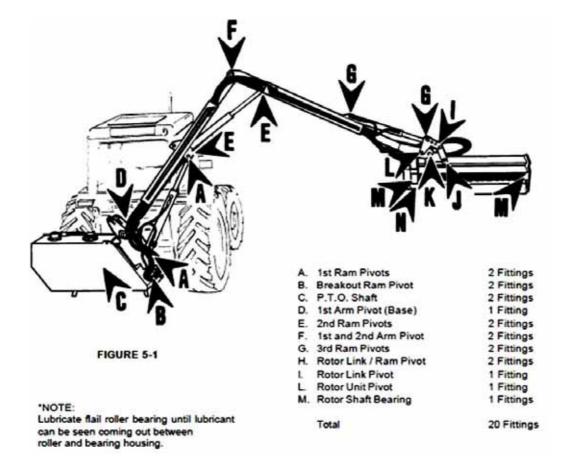
- 1. Position the mower head on the ground.
- 2. Make sure that all hydraulic or rotating movements have stopped.
- 3. Position the machine so that it is level and stable.
- 4. Lower the machine and position it on a flat surface. The machine can then be disconnected from the three-point lifting device.
- 5. Switch the tractor off.
- 6. Operate the control levers in both directions to decrease the hydraulic pressure to 0 bar.
- 7. Remove the control levers from the tractor and position them so that the cables cannot bend.
- 8. Remove the power take-off and place it at a safe distance.
- 9. Remove the lock pins from the lower arm.
- 10. Remove the top rod.
- 11. Once the machine has been disconnected completely, the tractor can be moved away safely.
- 12. Set the machine in a dry area and on a flat surface.



8. MAINTENANCE

Check the following parts:

- **Gearbox**: it is recommended that the oil level be checked before the machine is used. Change the oil after the first 200 working hours or once a year.
- **Lubricate**: All lubrication points as indicated in Figure 5-1 below. Position the machine on a flat surface and switch the power take-off and the tractor off. Lubricate these parts every 8 working hours.
- Power take-off: Lubricate the parts of the power take-off every 8 working hours.
- **Filter**: The filter of the hydraulic pump on the side of the oil tank must be changed every 500 working hours or every six months.



The power take-off requires regular maintenance. For the best results:

- 1. Lubricate both ends of the power take-off once a day.
- 2. Lubricate the power take-off regularly.
- 3. Make sure that the safety chain is in good condition and securely fastened.
- 4. Check whether the cover of the power take-off is in good condition and, if not, replace it.
- 5. Check the condition and wear of moving parts. If required, they must be replaced.

9. CE DECLARATION OF CONFORMITY



Boxer Agriculture Equipment B.V.

A member of de Heus group

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NL

EG Conformiteitsverklaring Volgens machinerichtlijn 2006/42/CE

D

Konformitätserklärung
Entsprechend der Richtlinie 2006/42/CE

GB 🙀

EEC Declaration of Conformity
Conforming to the Directive 2006/42/CE



Déclaration CE de Conformité Conforme à la directive de la 2006/42/CE

Wij - Wir - We - Nous:

Boxer Agriculture Equipment B.V.
Stougjesdijk 153
3271KB Mijnsheerenland – Holland

Verklaren onder eigen verantwoording dat de machine: Erklaren in alleiniger Verantwortung, daß die machine: Declare under our own responsibility that the product: Déclarons sous notre seule responsabilité que le produit:

Machine: Klepelmaaier/ Mulcher / Flail mower/ Broyeur

Type/model: AM

Serienummer / Chassis number : Bouwjaar / Baujahr / Year / Année :

De machine in de verklaring voldoet aan de fundamentele veiligheids- en gezondheidseisen die zijn vastgelegd in de richtlijn van 2006/42 / EG en ter verificatie zijn geraadpleegd UNI: EN 13524: 2004, EN 754. UNI: EN 1553: 2001

Auf dass sich diese Erklärung bezieht, den einschlägigen grundlegenden Sicherheit und Gesundheitsanforderungen EG-Richtlinie 2006/42/CE, UNI:EN 13524:2004, EN 754, UNI:EN 1553:2001 berücksichtigt

To which this certificate applies, conforms to the basic safety and health requirements of EEC Directives 2006/42/CE and following , we have consulted UNI:EN 13524:2004, EN 754. UNI:EN 1553:2001

Faisant l'objet de la déclaration est conforme aux prescriptions fondamentales en matière de sécurité et de santé stipulées dans la Directive de la 2006/42/CE et consultées pour vérification UNI:EN 13524:2004, EN 754. UNI:EN 1553:2001

Mijnsheernland, 19/08/2019

De gevolmachtigde:

Der Bevollmächtigte: The legal representative: Le représentant légal: