



**ELIOS 240-230-220-210**

## **Operator's Manual**

**Original operator's manual**

## Validity of the operator's manual

This operator's manual is valid for the following tractors:

Description	Type	Tractor serial number	
		from	to
ELIOS 240-210	A48	A4800002	
	A68		

The operator's manual describes the possible equipment for your tractor. The tractor's equipment is shown on the order confirmation.

If the tractor's equipment is not described in this operator's manual, ask the after-sales department or an approved CLAAS distributor to provide an operational demonstration before this equipment is put into use.

## **Technical information**

The technical specifications, dimensions and weights are provided on a non-binding basis. CLAAS reserves the right to modify them as part of technical development, subject to errors.

## Appropriate use

CLAAS's ELIOS range of farm tractors has been designed exclusively for professional use in line with the recognised rules governing farming practices and agricultural work.

The ELIOS farm tractor has been designed and adapted to tow, push, move, carry or activate implements/equipment/loads authorised by the manufacturer, and to control certain implements or compact using implements (weights) authorised by the manufacturer in the field and on public highways in line with the provisions of the highway code.

The farm tractor must only be used, maintained and repaired by persons with a thorough knowledge of the tractor and aware of the possible risks. The tractor must only ever be used by qualified personnel who have been trained how to drive it. Always keep children away from the tractor and agricultural machinery.

Appropriate use also requires strict observance of the instructions contained in the user manual, as well as the operating, maintenance and repair regulations laid down by the manufacturer. When an implement or trailer is hitched to the tractor, always comply with the instructions in this user manual as well as the instructions in the user manual for the implement or trailer hitched. Do not use the tractor/machine or tractor/trailer assembly unless all these instructions have been followed.

Specific accident prevention instructions, as well as general rules concerning technical safety, health and safety regulations and the highway code, must be observed by the user and owner.

Any use other than that defined above will be considered inappropriate and will release the manufacturer from any liability in the event of damage or injury; such use is entirely at the user's own risk.

You can obtain detailed, personalised information from CLAAS to ensure correct use in specific cases.

## Inappropriate use

Any use not foreseen by the manufacturer shall be considered to be inappropriate, and therefore as misuse. The manufacturer accepts no liability in the event of damage or injury; such use is entirely at the user's own risk.

Examples of incorrect use of CLAAS ELIOS tractors/farm tractors:

- Use of surfaces or spaces not defined as working or maintenance areas in the operator's manual.
- Failure to follow the information in the operator's manual when performing adjustment, cleaning or maintenance operations.
- Carrying out breakdown or maintenance work while the system is in operation and/or the engine is running.
- Non-compliance with the warnings on the tractor or in the operator's manual.
- untrained persons carrying out maintenance or repair work.
- unauthorised modifications to the tractor.
  - o Material modification
  - o Software modification or addition.
- Installation of unauthorised equipment.
- Use of replacement parts other than original CLAAS parts.
- Use of devices/equipment not authorised by the manufacturer.
- Use of implements/devices/equipment which are not compatible with each other.
- use in sporting events.
- exceeding the total technically authorised weight.
- transporting persons outside of the seats intended for this purpose.
  - o Depending on the tractor equipment, a passenger seat may be used to transport one person.

## **European regulation**

ELIOS tractors put in circulation meet modified European Directive 2003/37. A certificate of conformity is supplied when each tractor is delivered. This enables the tractor manufacturer to guarantee the tractor's compliance with the above EC directive when it is first marketed.

For countries which do not form part of the European Union, respect the relevant applicable national prescriptions.

# Safety and accident prevention instructions

This list is not exhaustive. The risks taken in the work space must be continuously evaluated.

- ▶ In all circumstances, respect the legislation relating to driving wheel-fitted farm tractors applicable in your country.
- ▶ Never exceed the maximum authorised speed. If necessary, consult the police or your insurance company for more information.
- ▶ The loads on the front and rear axles must not exceed the maximum authorised loads.  
Load capacities
- ▶ Before any movement, check the tractor's brakes.
- ▶ Before any movement, check the brakes of any towed implement which has a braking system.
- ▶ Before any movement, check that the particulate filter regeneration disabling switch is operating correctly. If a fault is noted, contact an approved CLAAS distributor immediately and do not use the tractor in an at-risk area.
- ▶ Brake pedals must always be coupled when travelling on the road.
- ▶ CLAAS tractors have been designed for farming applications. However, certain working environments likely to cause the tractor to tip over must be avoided:
  - ▶ Unstable river banks.
  - ▶ Steep slopes.
- ▶ The doors must be securely closed when travelling on roads.
- ▶ Before travelling on the road:
  - ▶ Adjust the mirrors to optimise the field of vision.
  - ▶ Clean the mirrors if necessary.
- ▶ Make sure that the implement is hitched correctly and safely locked in position.
- ▶ Whenever possible, avoid using busy roads.
- ▶ When transporting equipment on a public road, use the warning device required by the highway code.
- ▶ Check that the signalling systems are operating correctly.
- ▶ The signalling devices must be clearly visible.
- ▶ The work lights must under no circumstances be lit when travelling on the road.
- ▶ Do not use the hand accelerator when the tractor is travelling on the road.
- ▶ Do not use the differential lock on roads or when cornering.
- ▶ Before travelling on the road, disengage the front and rear power take-offs.
- ▶ Before travelling on the road, position the hitched, mounted or semi-mounted implements in the transport position. If the implement has transport wheels, use them.
- ▶ The instructions on wearing the driver's seat belt are set by the traffic regulations in the country of use. Comply with the regulations in force in the country where the tractor is used.
- ▶ When driving on rough roads or tracks, reduce your speed.
- ▶ Check that nobody is standing:
  - ▶ in the risk zone located between the tractor and the implement being carried/towed.
  - ▶ near the front/rear lifting areas of the tractor.
  - ▶ near the wheels while the tractor is being used.
  - ▶ in the deployment area of the implements hitched to the tractor.
- ▶ When the tractor is parked unintentionally or deliberately on a public road and represents a danger to traffic, it is essential to:
  - ▶ switch on the hazard warning lights.
  - ▶ place a warning triangle ahead of the danger zone (according to the regulations in force in the country where the tractor is used).
- ▶ Slow down before changing direction.
- ▶ Before exiting the tractor, lower the front and rear implements to the ground.
- ▶ When travelling downhill, always remain in gear: never declutch. The gear selected should be the same as would be used to climb an equivalent gradient.

- ▶ Always use equipment in good condition, suited to the power of the tractor and the type of work to be performed.
- ▶ Always use the tractor and hitched implements with the safety devices/protective equipment provided. The safety devices/protective equipment must be maintained in good condition and replaced if they are damaged or no longer meet their function.
- ▶ Always use personal protective equipment which is suited to the work to be performed (safety shoes, gloves, overalls, mask, boots, etc.).
- ▶ Extended exposure to high noise levels may cause hearing conditions, even deafness. To avoid these risks, wear hearing protection such as ear plugs.
- ▶ Keep a sufficient distance between power lines and the tractor/implement assembly.
- ▶ Each time the tyres are replaced/changed, it is necessary to:
  - ▶ perform a new instrument panel calibration in order to always respect the speed limits set by the national traffic regulations.  
Configuring the instrument panel display
  - ▶ Obtain a new approval for tyres not originally provided for the model concerned.
- ▶ The following 3 conditions should be observed when hitching a trailer or implement:
  - ▶ The value limits authorised by the ladder and the clevis drawbar.  
Rear hitches
  - ▶ The maximum authorised tow weights are indicated on the tractor's identification plate.  
Tractor identification plate

These values are also found in the table detailing the tractor's specifications.

Maximum authorised tow weights

- ▶ The limit values authorised by the country's traffic regulations.
- ▶ Above a certain size, the trailer or the towed implement hitched to the tractor must be equipped with a braking device.
- ▶ When using a trailer or towed implement equipped with an air or hydraulic braking system (for more information, please refer to the operator's manual for the hitched implement):
  - ▶ If the implement has a hydraulic braking system, connect the trailer's hydraulic braking hose to the hydraulic pressure connector of the braking valve located at the rear of the tractor.  
Trailer hydraulic brake
- ▶ Check that the pressure (hydraulic or air) supplied by the tractor's trailer braking device is compatible with the pressure accepted by the towed equipment.
- ▶ Periodically check (or have checked) the condition of the brakes on towed equipment hitched to the tractor (towed equipment with a faulty braking device will risk the safety of the trailer by overloading the tractor's braking device). CLAAS declines any liability in relation to poor maintenance (or adjustment) of the braking device of the towed equipment hitched to the tractor.
- ▶ When opening a component assisted by gas struts (doors, hatch, covers, steps, etc.), always pay close attention to the movement in order to prevent injuries.
- ▶ Before controlling an implement from the tractor, always consider:
  - ▶ the area in which the implement will be deployed/used,
  - ▶ the movements which will be performed by the implement.
- ▶ For safety reasons, pay close attention to the operations performed by the tractor and hitched implements. Stop the operations in progress immediately as soon as the movements performed:
  - ▶ are not/no longer those expected.
  - ▶ are likely to endanger the life/safety of a person.
- ▶ When a visual or audible warning occurs, repair/replace any damaged/fragile equipment as a preventive measure, independently of the maintenance intervals required.
- ▶ Do not open the engine bonnet when the engine is running.
- ▶ Under certain conditions of use (strong sunlight, particularly high external temperature, using the tractor with a heavy load, etc.), some parts of the tractor (handrails, door handle, engine bonnet, exhaust duct protective grille, toolbox, tank cap, etc.) may reach high temperatures. Under such conditions, wear protective gloves in order to be able to touch potentially hot tractor parts.
- ▶ Apart from standard tractor maintenance, maintenance operations must be performed in a workshop by an approved CLAAS distributor. If this is not the case, the user runs the risk of the following:

- ▶ Faults due to incorrect maintenance procedures.
- ▶ Accidents due to a component being incorrectly tightened.

# Driving the tractor

- ▶ Do not enter or exit the tractor when it is in motion.
- ▶ Always respect the regulations in force in the country where the tractor is used.
- ▶ Control the load speed under all circumstances. Adapt the speed to the conditions of the environment in which the tractor is used.
- ▶ On journeys involving travelling downhill, use the engine brake and maintain a suitable speed.
- ▶ Consider the wheelbase and the inertia mass of hitched implements.
- ▶ Caution: risk of overturning.
- ▶ Do not use the hydraulic doubler to slow the tractor down, particularly on downhill slopes. Use the mechanical gears and brakes to reduce the tractor's speed.
- ▶ Do not turn sharply when working on slopes. Respect the maximum slope allowed for working.

## Dimensions

- ▶ During a break in work, even if only brief, stop the engine and apply the handbrake.
- ▶ Before exiting the tractor, lower the front and rear implements to the ground.
- ▶ Start turning in good time.
- ▶ Do not correct the tractor's steering suddenly when turning.
- ▶ When changing direction, observe traffic carefully on the left and right.
- ▶ When travelling with a trailer or a hitched implement, check the steering angle in order to prevent the implement from making contact with the tractor (for example, with the tractor tyres). In case of contact, decelerate the load immediately. If necessary, reverse the tractor and take the bend with a wider radius.
- ▶ With large steering angles, implements may protrude past the outer edge of the bend. Beware of any persons or obstacles on the edge of the road as well as traffic in the opposite direction.
- ▶ When using engine speed memories, bear in mind that the stored speed does not change immediately when the adjustment buttons are pressed.
- ▶ In the event of malfunctions on major safety components such as the steering or brakes:
  - ▶ Immobilise the tractor immediately in a safe location.
  - ▶ Switch off the engine.
  - ▶ Chock the wheels of the tractor.
  - ▶ Call an approved CLAAS distributor before using the tractor again.
- ▶ If a fault is noted on the hydraulic doubler control, stop and restart the engine. The slow speed will be selected automatically.
- ▶ If the gear display is incorrect, contact an approved CLAAS distributor to have the relevant adjustments performed.

## Platform version

- ▶ Under normal working conditions, use the tractor with the roll hoop unfolded and the seat belt attached.
- ▶ If the tractor overturns:
  - ▶ Hold onto the steering wheel.
  - ▶ Do not attempt to leave the driver's position.
- ▶ If the working conditions require it (e.g.: reduced working height):
  - ▶ Fold down the roll hoop.
  - ▶ Unfasten your seat belt.
  - ▶ As soon as the working conditions allow it, unfold the roll hoop and fasten the seat belt.

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