

QUADRANT 2100 RotoFeed

QUADRANT 2100 RotoCut

User manual

Original user manual

Read and observe the safety advice

Manual validity

This user manual is valid for the following machines:

Description	Type	Machine number	
		from	to
QUADRANT 2100	743	74300011	—

Using the manual

This is the original user manual. In the following document it will be referred to as the user manual.

This user manual is intended for all users, and provides information on the application, operation, use, settings, maintenance, cleaning and transportation of the machine.

Following the usage and maintenance advice will ensure that the baler remains in good working condition and that it has a long service life.

Inadequate maintenance and improper use result in risks to safety, premature wear, reduced performance and efficiency and loss of time. Have the post harvest check/annual check carried out by your specialist CLAAS workshop at regular intervals. It is recommended that the prescribed maintenance operations are combined with the post harvest check.

This machine is the result of many years of experience and state-of-the-art expertise. Used properly it will guarantee consistently high-quality work.

Text and illustrations

The photos and graphics are neutral. Any differences are indicated by notes beneath the illustration.

Texts and pictures have been kept short and neutral whenever possible. Any differences are indicated by subtitles.

Texts can be easily distinguished by their formatting. The different formats are as follows:

Formatting	Meaning	Description
Description	Descriptive text	Additional information on this subject.
- Instruction	Activity	Activities which must be carried out successively.
<i>Result</i>	Result	Result of activities carried out.

References can be easily distinguished by their symbol. The different symbols are as follows:

Symbol	Meaning	Description
	see Index	This symbol  indicates that the additional information on this subject is available in another part of this manual.
	see the index of the corresponding user manual	This symbol  indicates that the additional information on this subject is available in the corresponding machine or equipment user manual.

Modular organisation

The sections in this manual are organised into modules, as far as the contents permits. The structure of these modules is identical in each section.

The different product groups have different module structures. CLAAS always endeavours to retain these module structures in each document.

Search and find

Thanks to this repeated modular structure, the desired subject can be found quickly in the table of contents or in the manual's header.

The index of this manual is another useful tool for finding subjects. The index is in the final pages of the manual.

Direction indications

Indications such as front, rear, right are always in the context of the direction of travel. In the illustrations, the direction of travel may be indicated by a direction arrow.

Optional and additional equipment

Optional equipment consists of machine equipment variants. Different variants are available but only one can be fitted at a time.

Additional equipment consists of machine equipment variants which can be fitted as accessories but which are not part of the machine's standard equipment.

The two terms refer to the possible variants. Standard equipment and equipment variants may vary according to the country.

Your CLAAS After-Sales Service

Technical specifications

The technical specifications, dimensions and weights indicated in this manual are for guidance purposes, with no commitments on our part. We reserve the right to modify them as part of technical development.

General points

To prevent any risk of accidents, any person responsible for commissioning, maintenance, repair or checking of the baler must read and follow the instructions in this user manual.

Pay particular attention to the Safety Instructions and Preparing the Machine sections.

Using replacement parts, accessories and additional devices not manufactured, tested or approved by CLAAS may adversely affect the machine's specifications or impair its operation. This may in turn damage the active and/or passive safety systems both during operation or when driving (accident prevention).

CLAAS accepts no liability in the event of damage resulting from the use of parts and accessories which are not CLAAS original products.

Using in line with intended usage

The CLAAS baler is designed solely for professional use in compliance with the rules of agricultural engineering, for harvesting straw from cereals and fodder crops.

The baler is a machine for agricultural work hitched to a tractor/traction machine approved or authorised by the manufacturer; it is designed and intended for gathering and baling straw from cereals and fodder crops in fields. By fodder crops, we mean tall stemmed plants such as grass and alfalfa.

The baler gathers the crop (straw from cereals or fodder crops) laid in swathes using a pick-up and conveys it using a feed unit (or cutting unit, as an option) to the baling unit. The baling unit compacts and ties the crop (straw from cereals or fodder crops) to form a bale. A device deposits the bale behind the baler for later transport.

When being transported by road, and depending on the provisions of the current Highway Code, the baler may be hitched to a tractor/traction unit approved or authorised by the manufacturer.

Only persons familiar with the machine and its associated hazards are authorised to use it and to carry out maintenance and servicing on it.

By using in line with intended usage, we mean, amongst others, adhering to the instructions in the user manual, and the conditions of use, maintenance and servicing stipulated by the manufacturer.

The user and the owner are obliged to follow the rules governing the prevention of accidents at work, as well as the general technical safety and workplace health rules and road traffic regulations.

Any use other than that defined above is considered to not be in line with intended usage. the manufacturer is not liable for any damage which then results. The user is solely liable for the risks.

You may request specific advice from CLAAS for using in line with intended usage under particular conditions.

Reasonably foreseeable improper usage

Use not considered as normal usage  is use which has not been envisaged by the manufacturer and therefore represents incorrect usage in terms of the machine directive. Damages which may result from this are not covered by the manufacturer, but are the sole responsibility of the user.

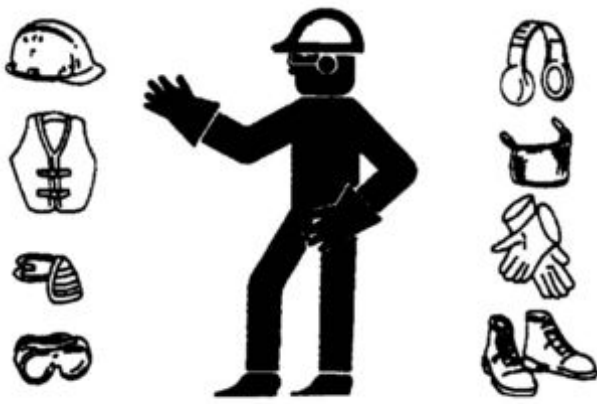
The following are several examples of improper use of the CLAAS baler:

- Use of surfaces or spaces which are not described as work or maintenance stations in the user manual.
- Not following the information in the user manual when performing adjustment, cleaning or maintenance operations.
- Troubleshooting and performing maintenance operations whilst the drives are operational and/or the engine is operational.
- Non-compliance with the warnings on the machine or in the user manual.
- Maintenance or repair operations carried out by untrained personnel.
- Arbitrary modifications to the machine.
- Assembly of additional unauthorised or non-certified equipment.
- Use of non-CLAAS replacement parts.
- Stationary usage.
- Use in the baling of crops other than straw or forage, like waste material, for example.
- The transport of persons.
- The transport of goods.

Safety advice

Safety advice

- ▶ In addition to the advice in this user manual, observe the general safety and accident prevention rules.
- ▶ Before starting work with the baler, it is important to be familiar with all the control devices and their functions.
- ▶ Wear close-fitting clothing. Never wear loose-fitting clothing.
- ▶ Always keep the baler perfectly clean, to prevent any fire risk.
- ▶ Clean the ladder and walking surfaces every day to ensure the anti-slip coating is effective.
- ▶ Before starting or activating the baler, check the operating area around the baler and tractor (to ensure that there are no children, for instance). Ensure that visibility is sufficient. Use the horn to signal setting off.
- ▶ Never stay on the baler when it is working or during transport.
- ▶ Always stop the power take-off, apply the parking brake, stop the tractor engine and remove the ignition key before working on the baler.
- ▶ Hitch the baler in accordance with the regulations in force, only using devices provided for this purpose.
- ▶ Watch out for risks of crushing and cuts when handling the jack stand.
- ▶ Use the jack stand to stabilise the baler when hitching or unhitching.
- ▶ Take great care when hitching and unhitching the baler - these manoeuvres may be dangerous if they are not carried out carefully.
- ▶ Check the equipment needed for transport, such as lighting, indicators and safety devices.
- ▶ Install the control terminal so that it cannot be accidentally activated during transport and work.
- ▶ Adjust the working and driving speed to the surrounding conditions and the road.
- ▶ Ensure that the tractor has sufficient manoeuvrability and braking characteristics when the baler is hitched. The presence of the baler makes a difference to driving, the braking capacity and the tractor's turning circle.
- ▶ Avoid abrupt turns when ascending or descending, and when driving across a slope.
- ▶ Bear in mind the inertia mass of the baler when turning.
- ▶ Fit all the safety and protection devices before starting work with the baler.
- ▶ Make sure that the baler components and parts are properly secured before starting work.
- ▶ On balers equipped with a cutting system, ensure that all knives or dummy knives not used are secured on the dummy knife holder (depending on equipment).
- ▶ Keep out of the baler's working and danger zone.
- ▶ Keep out of the baler's turning and pivot circle area.
- ▶ Take special care with parts controlled by an external force (the hydraulic circuit for instance): these have potential pinch points and cut risks.
- ▶ Always keep a sufficient distance from feed components such as the pick-up: their function does not allow complete protection equipment to be fitted.
- ▶ Place the chocks under the wheels and apply the parking brake (depending on the equipment) to prevent any accidental movement of the baler.
- ▶ Never stand between the tractor and baler without immobilising the tractor (stop the engine, remove the ignition key and apply the handbrake) and the baler (chocks).
- ▶ On cylindrical balers, take special care to avoid contact with electrical lines when opening the tailgate in the vicinity of such lines.
- ▶ Never access the upper section of the machine when in the vicinity of electrical lines.



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- Some operations may require personal protective equipment to be worn.

When the weather is very hot, pay particular attention to the following:

- The tension of the tailgate spring (on Variant).
- The cleanliness of the machine (bearings, chains etc.).
- Ensuring that the bearings are correctly lubricated.
- Ensuring that the chains are correctly lubricated and tensioned.
- Ensure that the weather conditions allow the equipment to be used in accordance with the technical constraints of the baler, particularly in very hot weather.

Driving

- Observe the road traffic regulations in force in the country where the baler is used.
- Never exceed the maximum authorised speed.
- Follow the safety advice given by the various safety stickers affixed to the machine: they provide important advice for risk free operation of the baler.
- Never exceed the maximum permissible axle load.
- Never exceed the total authorised weight.

Connected machines

- Secure the baler against any accidental movement using the chocks and the parking brake (depending on equipment).
- Observe the maximum load on the drawbar, swinging drawbar, hitching drawbar or hook.
- Check that the vertical hitching force of the tractor is sufficient to tow the baler,
Weight
- Check the tightening torque of the hitch eye and drawbar mounting bolts after the first 10 hours of operation.
- Check the tightening torque of the hitch eye and drawbar mounting bolts at regular intervals, approximately every 50 hours of operation.
- Germany: ensure that the baler is fitted with an upper drawbar certified for driving on public highways.
- Italy: ensure that the baler is equipped with a swivel hitch eye for driving on public highways.
- France: for non-braked machines, check that the baler retaining cable is present and securely attached to the tractor (in accordance with current legislation).

Universal drive shaft

- ▶ Only use universal drive shafts recommended by the manufacturer.
- ▶ Make sure that the universal drive shaft is equipped with a guard and protective covers. Check also that the universal drive shaft safety devices are in good condition.
- ▶ Make sure that the tractor's power take-off is protected. Also make sure that the safety device is in good condition.
- ▶ Check the covering on the universal drive shaft protective tubes in the work and transport position: the covering must comply with the instructions given in the user manual.
- ▶ Stop the power take-off, stop the tractor engine and remove the ignition key to connect or disconnect the universal drive shaft.
- ▶ Always make sure that the connection is correct and that the universal drive shaft is properly locked.
- ▶ Secure the chains on the protection tube of the universal drive shaft to the tractor (tractor side) and to the baler (baler side) to prevent the protection tube rotating.
- ▶ Before starting the power take-off, make sure that the speed and rotation direction of the tractor's power take-off are suitable for the speed and rotation direction at the baler end.
- ▶ Before starting the power take-off, ensure that there is nobody in the machine's danger zone.
- ▶ Never engage the power take-off when the tractor engine is off.
- ▶ When the power take-off has been started, ensure that there is nobody in the machine's danger zone.
- ▶ Always disconnect the power take-off before a big turn.
- ▶ Always disconnect the power take-off when it is not being used.
- ▶ Keep well away from the baler while the power take-off is running, even when disconnected (its inertia prevents it from stopping immediately once disengaged). Only operate on the baler after the machine has been completely immobilised.
- ▶ Only clean, grease and/or adjust the baler after disconnecting the power take-off, switching off the tractor engine and removing the ignition key.
- ▶ Always keep the universal drive shaft disconnected from the power take-off using the support on the baler or the support chain.
- ▶ Insert the protection piece on the end piece of the tractor's power take-off after having stopped the power take-off, switched off the tractor engine and removed the ignition key.
- ▶ Immediately repair any damage occurring to the universal drive shaft before working with the baler.
- ▶ On square balers, lock the flywheel with the brake before connecting or disconnecting the universal drive shaft.

Hydraulic circuit

The hydraulic circuit is highly pressurised. It may overheat and cause serious injuries.

- ▶ Reduce the hydraulic pressure to zero, switch off the tractor engine and remove the ignition key before starting any work on the hydraulic circuit.
- ▶ Always ensure that the baler's and the tractor's hydraulic circuits are no longer pressurised when making hydraulic connections between the baler and the tractor.
- ▶ Check the hydraulic pipes regularly: replace any damaged or worn pipe.
- ▶ Replace the hydraulic hoses every 6 years after the purchase date.



WARNING

Pressurised hydraulic oil may penetrate the skin.

Result: Severe injuries caused by oil penetrating the skin

- ▶ Always use specialised workshops to carry out work on the hydraulic circuit.
- ▶ Regularly check that the hydraulic pipes and hoses are in good condition.
- ▶ Replace any damaged pipes or hoses.
- ▶ Replace the hydraulic pipes every 6 years after the purchase date.
- ▶ Always wear safety gear when handling the hydraulic circuit.

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