



SCORPION

9040

Operator's Manual

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1 Introduction

1.1 Important information on this Operator's Manual

This Operator's Manual contains important information on how to work safely, correctly and economically with your telehandler. Therefore, it aims not only at new operators, but it also serves as a reference for experienced ones. It helps to avoid dangerous situations and reduce repair costs and downtimes. Furthermore, the reliability and the service life of the machine will be increased by following the instructions in the Operator's Manual. This is why the **Operator's Manual must always be kept at hand in proper condition in the machine.**

Your own safety, as well as the safety of others, depends to a great extent on how the machine is moved and operated. Therefore, carefully read and understand the Operator's Manual prior to the first drive. The Operator's Manual will help to familiarise yourself more easily with the machine, thereby enabling you to use it more safely and efficiently.

(see also *Selection and qualification of staff, basic responsibilities* on page 2-5)

Prior to the first drive, carefully read Section 2 "**Safety Instructions**" as well, in order to be prepared for possible dangerous situations, as it will be too late for it during operation. As a rule, keep the following in mind:

Careful and prudent working is the best way to avoid accidents!

Operational safety and readiness of the machine do not only depend on your skill, but also on maintenance and service of the machine. This is why regular maintenance and service work is absolutely necessary. Extensive maintenance and repair work must always be carried out by an expert with appropriate training. Insist on using original spare parts when carrying out maintenance and repair work. This ensures operational safety and readiness of your machine, and maintains its value.

If you require more information on your machine or the Operator's Manual, please contact your CLAAS dealer.

The Operator's Manual is stored in the storage compartment on the backrest of the seat.

Abbreviations/symbols

- This symbol stands for a list
 - Subdivision within lists or an activity. Follow the steps in the recommended sequence

 This symbol requires you to carry out the activity described

 Description of the effects or results of an activity

n. s. = not shown

"Option" = optional equipment



This symbol shows the driving direction – for better orientation in figures and graphics.

1.2 Machine overview

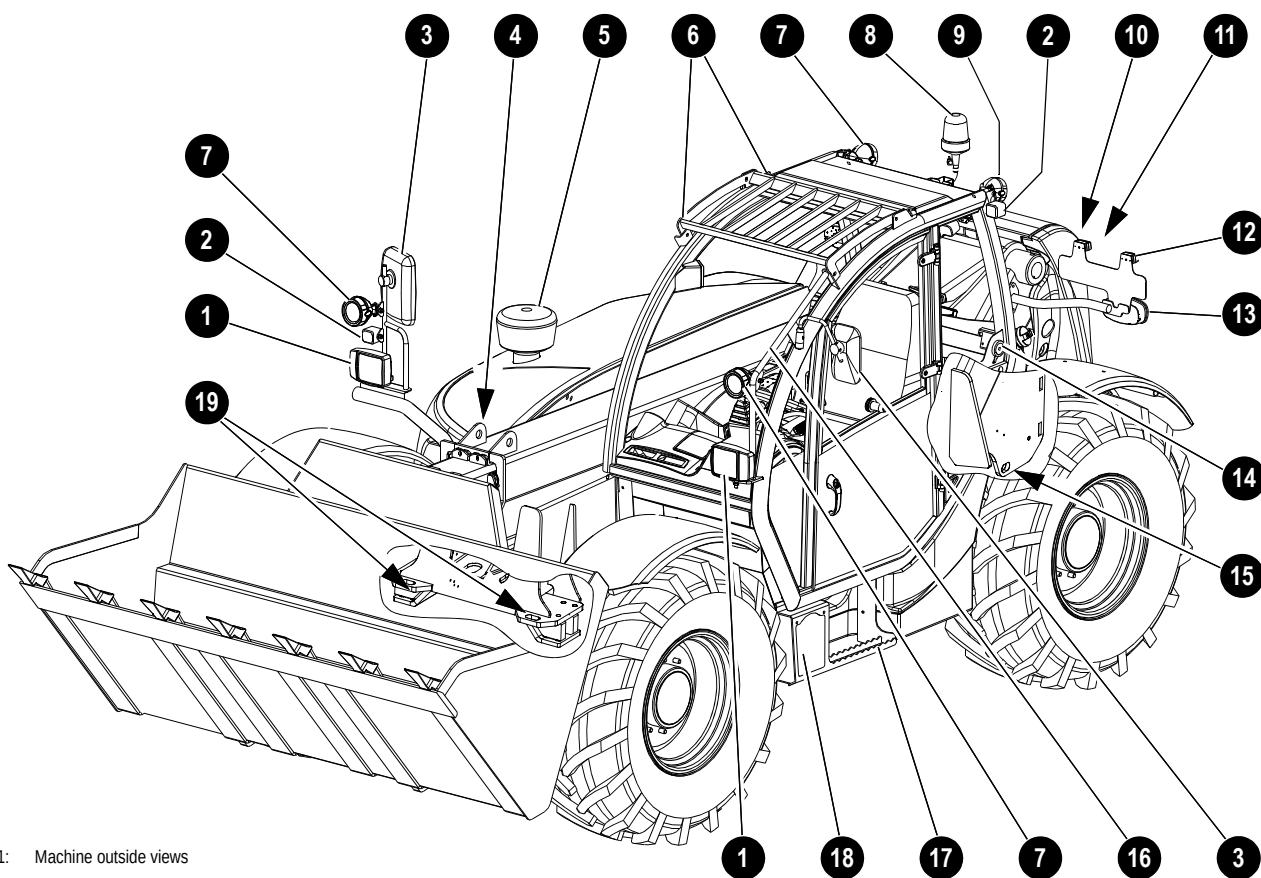


Fig. 1: Machine outside views

1	Lights with turn indicator
2	Rear clearance light
3	Rearview mirror
4	Working light for telescopic boom (option)
5	Air filter (preliminary separator option)
6	Eye hook ¹ for installing/removing the cab
7	Working light (standard)
8	Rotating beacon (option)
9	Working light (front/rear option)
10	Hydraulic connections (quick coupler options)
11	Trailer coupling (option)
12	Numberplate fixture (option)

13	Brake, rear and turn indicator lights
14	Door arrester
15	Rear eye hook for strapping down the machine
16	Handle
17	Cab access
18	Battery (battery master switch option)
19	Front eye hook for towing/strapping down the machine

1. Eye hooks are for removing the cab only, and may not be used for crane-lifting the machine

1.3 Brief description

The telehandler is a self-propelled work machine according to German traffic regulations. Get informed on and follow the legal regulations of your country.

This machine is a versatile and powerful helper on construction sites, in agriculture and for recycling applications. The wide range of implements accounts for the numerous applications of the machine: as a snow plough, a construction machine, a fork lift for applications with palletised goods, or as a tractor for transport applications in agriculture.

Other applications – see *Fields of application* on page 1-4.

The main components of the machine are:

- Sturdy steel sheet frame; rubber-mounted engine
- ROPS/FOPS tested cab (roll-over/falling object protection)
- Water-cooled Deutz four-cylinder turbocharged in-line engine, exhaust emissions according to EC standard 97/68 EC
- Automotive drive, infinitely variable hydrostatic axial-piston gearbox; maximum speed 20 kph (30/40 kph options)
- Hydraulic four-wheel power steering with emergency steering features
- Planetary steering axles, rear axle with oscillation
- Service brake (multidisc brake)
- Parking brake and auxiliary brake (spring-loaded brake effect on multidisc brake)
- Telescopic boom

Hydrostatic drive

The diesel engine permanently drives a hydraulic pump (variable displacement pump), whose oil flow is sent to a hydraulic motor flanged on the gearbox. The hydraulic motor transmits its power to the front and rear axles (via the transfer gearbox and the cardan shaft) for permanent 4 wheel drive.

Work hydraulics and 4 wheel steering

The diesel engine drives a gear or axial piston pump for the work hydraulics and the steering system, and a gear pump both for the fan (water/hydraulic oil radiator) and the boost pressure of the variable displacement pump (drive).

When the machine is in operation, the diesel engine output can be transmitted to the work hydraulics and the steering system to a large extent. This is made possible by a so-called inching valve which responds as soon as the service brake is used, reducing or cutting off power input of the drive. Therefore, engine output is fully available for the telescopic boom by pressing the accelerator pedal and the brake pedal at the same time.

Cooling system

A combined water/hydraulic oil cooler (for the diesel engine and the hydraulic oil) is located in the engine compartment. The fan drive (water/hydraulic oil cooler) is hydraulically driven by a gear pump located at the diesel engine's power take-off (optional charge-air cooler).

The telltales on the instrument panel of the machine ensure constant monitoring of the engine and hydraulic oil temperature (telltales), as well as of the coolant temperature and level.

1.4 Fields of application

The implements will decide in the first place how the telehandler is used.
Note that not all the indicated implements comply with local traffic regulations. The implements complying with local traffic regulations and the applicable provisions are listed in the **machine documentation!**
The authorities of your country may require specific permits, certifications, registrations etc. for the use of implements not authorised or listed in the machine documentation!
Get informed on and follow the legal regulations of your country.



Caution!

In order to avoid damage to the machine, only the implements listed below have been certified for installation on the machine.

 See Use: implement

1.5 Model designation – trade names

Telehandler	CLAAS model designation	CLAAS trade name
404-01	K05	9040

1.6 Use: implement

Implement	Implement type no.	Telehandler model	Dimensions	Struck/ heaped	Use
Standard bucket – normal material ¹	1000150361	404	2400 mm (with teeth)	1.0/1.2 m ³	Loosening, picking up, transporting and loading loose or solid material (material density ≤ p = 1.8 t/m ³)
	1000150491		2400 mm (without teeth)		
Standard bucket – lightweight material ^{2, 3}	1000150793 1000158730 ⁴	404	2500 mm (without teeth)	1.5/1.8 m ³	Picking up, transporting and loading very lightweight material (material density ≤ p = 1.3 t/m ³)
Standard bucket – superlightweight material ^{2, 3}	1000150794	404	2500 mm (without teeth)	2.0/2.5 m ³	Picking up, transporting and loading very lightweight material (material density ≤ p = 0.9 t/m ³)
	1000148278		3000 mm (without teeth)	3.0 m ³	Picking up and transporting grain (material density ≤ p = 0.7 t/m ³)
Pallet forks ^{2, 5, 6}	1000146909	404	1200 mm	See load diagram	Picking up and transporting pallets
Silage bucket with hydraulic clamp ^{2, 6}	1000157242	404	2400 mm		Picking up and transporting silage or recycling material (material density ≤ p = 1.4 t/m ³)
Crane jib ^{2, 5, 6}	1000157237	404	See load diagram		Picking up and transporting loads with lifting gear (cables, chains, belts)

1. Steering column must be set fully forwards when driving on public roads – see "Steering column height and angle adjustment" on page 3-21

2. Not authorised for use on public roads

3. When using this bucket, mount the (right) and left-hand side headlights in a higher position and readjust them – see "Adjusting the headlights" on page 5-34

4. With screwed-on bucket blade

5. Only with load diagram for telehandler

6. See the implement's Operator's Manual for taking the implement into service and using it

Get informed on the legal regulations of your country for further information on mounting implements

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