



Telehandler

SCORPION

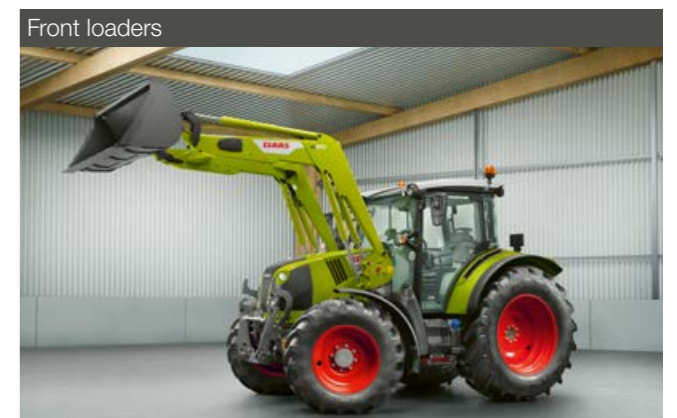
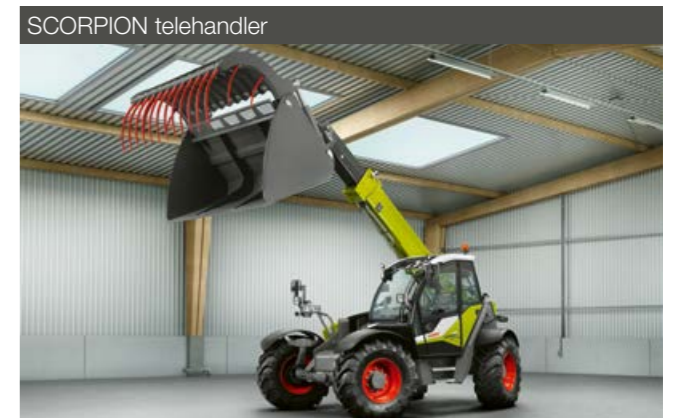
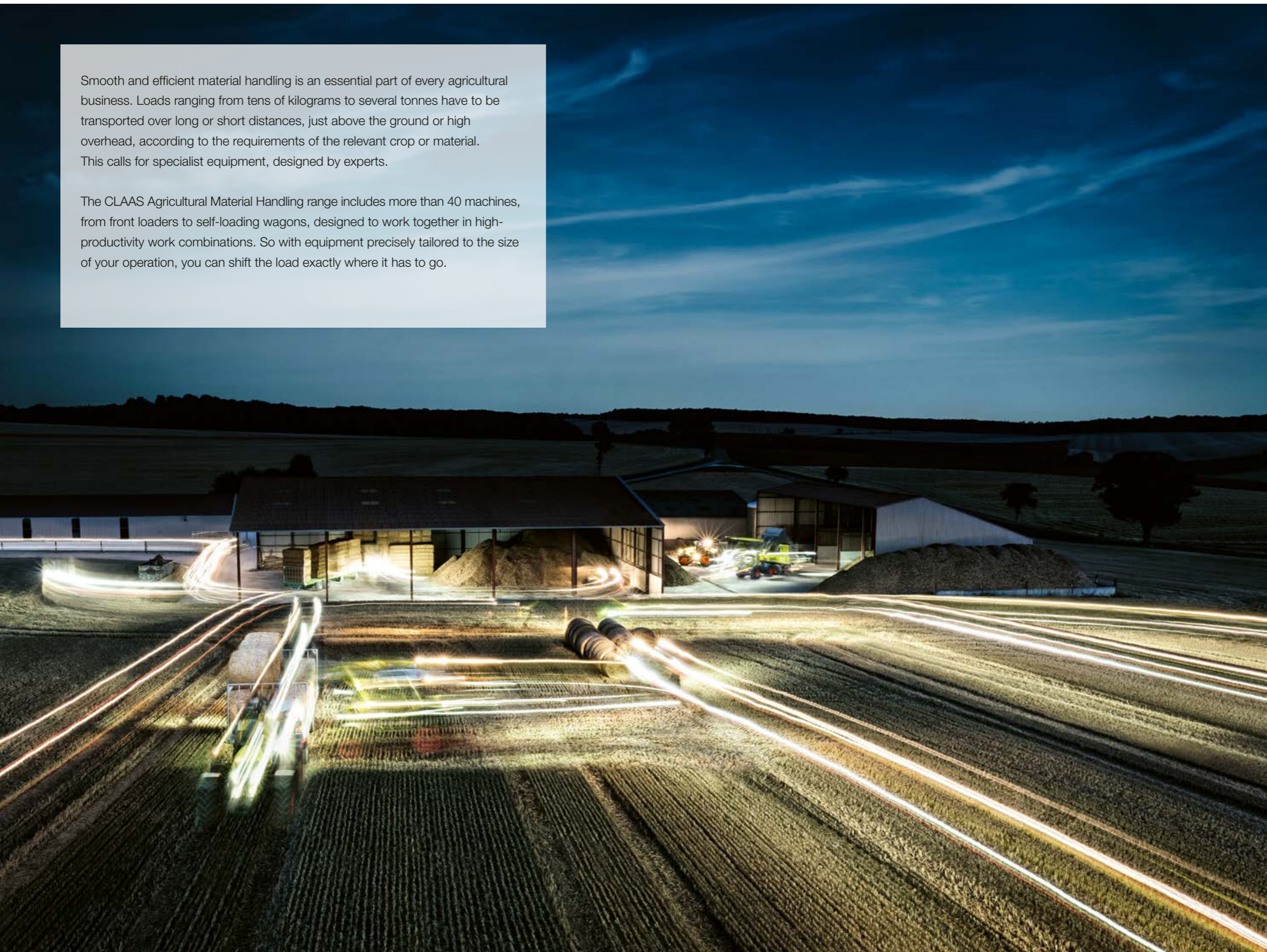
756 746 1033 741 736 732 635



Lightens the load – CLAAS Agricultural Material Handling.

Smooth and efficient material handling is an essential part of every agricultural business. Loads ranging from tens of kilograms to several tonnes have to be transported over long or short distances, just above the ground or high overhead, according to the requirements of the relevant crop or material. This calls for specialist equipment, designed by experts.

The CLAAS Agricultural Material Handling range includes more than 40 machines, from front loaders to self-loading wagons, designed to work together in high-productivity work combinations. So with equipment precisely tailored to the size of your operation, you can shift the load exactly where it has to go.



The new SCORPION.

Getting the right results from your farm is all about professionalism. The new SCORPION, with a powerful, continuously variable drive train, outstanding manoeuvrability and many automatic functions, helps you carry out loading operations safely, conveniently and, above all, quickly. Use our experience, gained through more than 20 years in the telehandler sector, to lift your farm's productivity.



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To find out more about the new SCORPION:

scorpion.claas.com



- 1 Lifting heights from 6.13 m to 9.75 m, lifting capacity from 3.2 t to 5.6 t
- 2 Deutz engines delivering up to 115 kW/156 hp, Stage IV (Tier 4)
- 3 Infinitely variable hydrostatic VARIPOWER PLUS / VARIPOWER ground drive with improved SMART ROADING
- 4 DYNAMIC COOLING: Electronic control of fan speed and reversible fan
- 5 Load-sensing system with up to 234 l/min capacity
- 6 3rd and 4th control circuits, overflow oil line and free flow return line available
- 7 DYNAMIC POWER and fine-tuned control of working hydraulics for optimal sensitivity and precision even at great heights
- 8 External pressure release for the third control circuit on the boom
- 9 Lateral boom guidance available for all models
- 10 SMART LOADING operator assistance systems
- 11 Newly designed ergonomic cab with large windows for optimum visibility
- 12 Choice between 3.5" instrument cluster display and 7" display screen
- 13 Intelligent parking brake with automatic function
- 14 Manual crab steering as 4th steering mode
- 15 Max. tyres: 600 / 55-26.5



**MACHINE OF
THE YEAR 2018**

Comes in two variants,
to match the requirements of your operation.



Basic class with hydrostatic drive.

Farms and businesses where the focus is on simple and repetitive loading tasks seldom need all the options available. The economy models in the basic class range have an infinitely variable hydrostatic drive system that allows accurate, precise operation at any ground speed.

The comfort class with VARIPOWER.

Operations with complex and demanding material handling requirements are best served with the SCORPION Comfort class. The VARIPOWER transmission with three speed ranges and more than 50 percent more hydraulic capacity set the standard for productivity. A selection of practical additional equipment packages make the job even easier.

SCORPION Hydrostatic. The basic class.	
SCORPION 1033-635.	
Hydrostatic. Max. 30 km/h.	
Transmission	Hydrostatic transmission with one speed range, top speed 30 km/h
Hydraulic capacity	106 l/min, gear pump with throttle control block
Operation	Control level with basic functions
Steering mode adjustment	Manual
Hand throttle, creep speed facility	Manual
Display	3.5" matrix display (black / white)

SCORPION VARIPOWER. The comfort class.		
SCORPION 1033-635.	SCORPION 746.	SCORPION 756.
VARIPOWER. Max. 40 km/h.		VARIPOWER PLUS. Max. 40 km/h.
Transmission		VARIPOWER PLUS transmission with three speed ranges, top speed 40 km/h
Hydraulic capacity		
160 l/min, LS pump with LS valves	200 l/min, LS pump with LS valves	
Operation		
		SCORPION joystick
Steering mode adjustment		
		Electronic
Hand throttle, creep speed facility		
		Electronic
Display		
3.5" TFT display (colour) or 7" instrument cluster display		

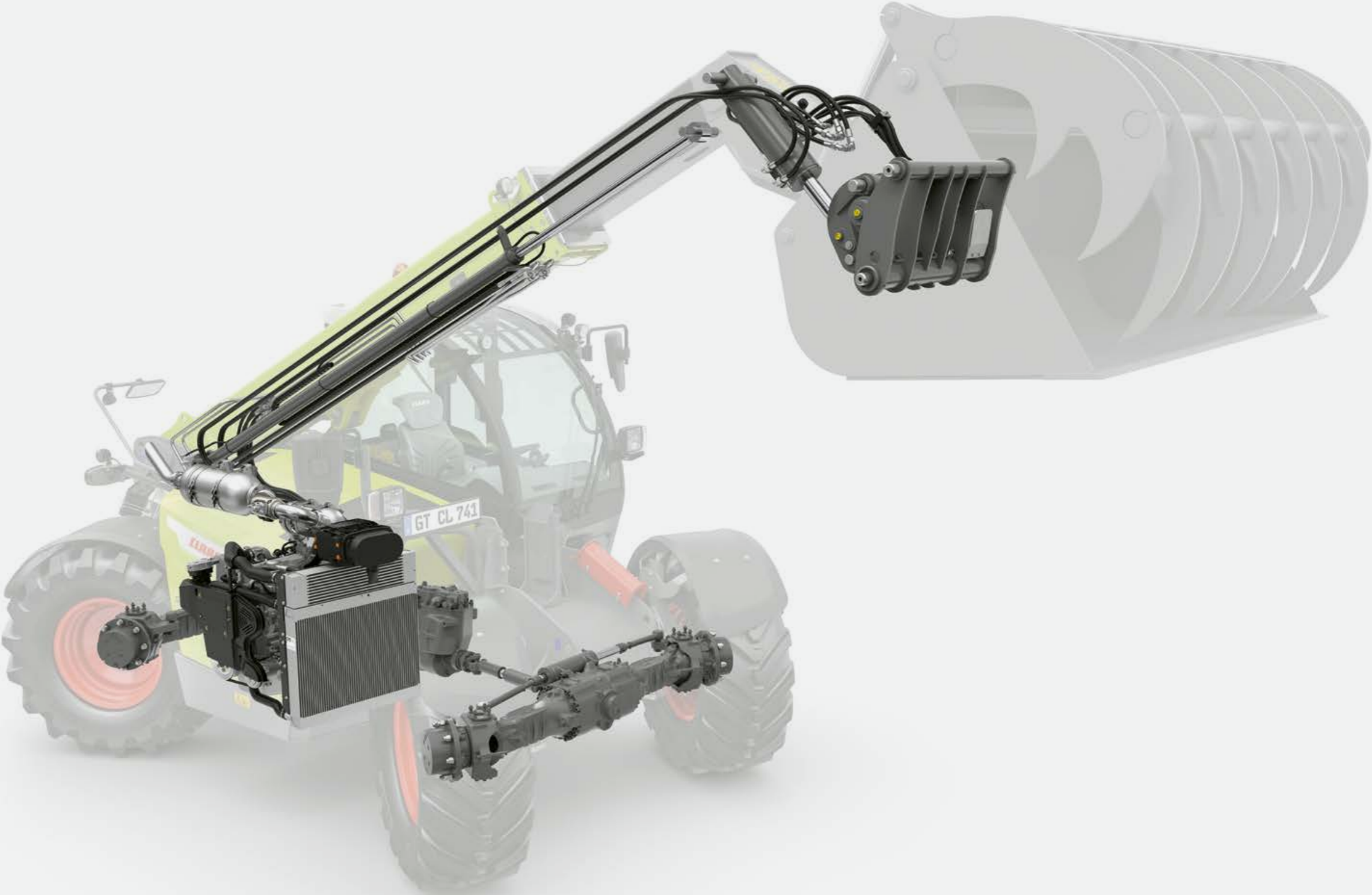
Economic driving – CLAAS POWER SYSTEMS (CPS).

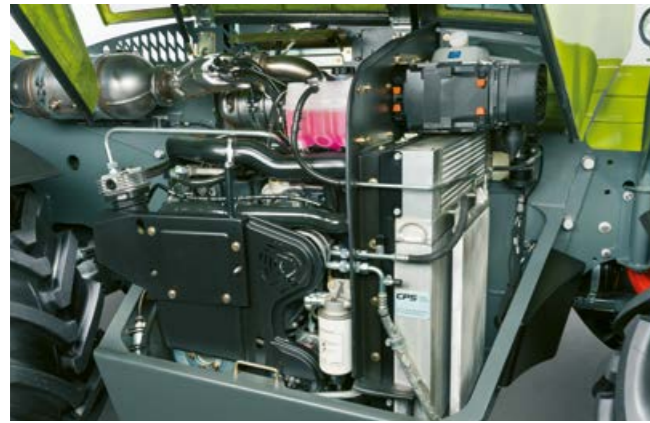
Optimal drive for best results.

Equipment development at CLAAS means an ongoing effort for even greater efficiency and reliability as well as optimal profitability in the field.

Under the name CLAAS POWER SYSTEMS (CPS), CLAAS has bundled the best components in a drive system that is second to none. Maximum power available whenever it is needed. Ideally tailored to the working system, with fuel economy technology providing a rapid return on your investment.

Ensuring the optimum interplay between all elements and components of the drive train was also a key design objective in the new CLAAS telehandler, to provide maximum power, optimum operating reliability and a long service life.





Advanced high-performance engines.

The Deutz high-torque 4-cylinder high-performance engines, featuring 4-valve technology and turbocharger, deliver 100 kW (136 hp). The SCORPION 756 is fitted with a 115 kW (156 hp) engine. Both engine variants have plenty of power in reserve, even for the toughest pushing and material handling tasks. Intelligent common rail injection systems keep fuel consumption down to a minimum.

- High optimum performance, thanks to CPS
- Optimum fuel consumption / power ratio
- Intelligent engine control
- Maximum torque of 500 and 609 Nm, respectively

SCORPION	Engine output kW / hp	Cubic capacity litres
756	115 / 156	4.1
746	100 / 136	3.6
1033	100 / 136	3.6
741	100 / 136	3.6
736	100 / 136	3.6
732	100 / 136	3.6
635	100 / 136	3.6



Effective exhaust gas aftertreatment.

All models with SCR catalytic converters for reducing nitrogen oxides. In the carbon monoxide and carbon dioxide emissions are effectively reduced with a diesel particulate filter (DPF) with integrated diesel oxidation catalyst (DOC). SCORPION 1033-635 machines operate solely with DOC, with a DPF available as an option.

- Low maintenance outlay
- Can be used in all weathers
- The Stage IV (Tier 4) standard is met

Particulate filter status visible at all times.

The load status of the diesel particulate filter is shown on the dashboard display. Passive regeneration takes place with no operator intervention required. Regeneration can be switched off in unfavourable conditions or in an emergency.

- 1 Manual switch-off of regeneration
- 2 Pushbutton active start of regeneration



Enough fuel for long working days.

The large steel fuel tanks (plastic in the SCORPION 756 / 746) and the 10- and 20-l urea tanks, made from plastic, are located under the cab on the left of the machine, providing maximum ease of access and protection. The solid steel underbody protection provides maximum safety in everyday operations.

- The tank volumes allow longer worker times without a break
- Minimises the risks of damage when operating in tough conditions

SCORPION		756 / 746	1033-635
Fuel tank		205	150
Urea tank		20	10

Easily accessible AdBlue filling neck for efficient exhaust gas aftertreatment



Lockable fuel tank located under the cab



Intelligent cooling.

Clean air supply as standard equipment.

Air intake in the SCORPION is via a sieve located in the clean, dust-free area of the machine. This minimises soiling of the cooling fins with straw, grass and silage. Large particles of dust and dirt never get into the air circuit in the first place.

- Direct route to the air filter
- Problem-free use, even in high-dust environments
- Low maintenance outlay

Even cleaner operation when required.

If you are mainly working in high-dirt environments, it is advisable to fit a vacuum precleaner. The precleaner is integrated in the engine compartment, and eliminates coarse dust and dirt particles from the intake air before it enters the system. This significantly extends the maintenance interval of the air filter.



The reversible fan keeps the large ventilation surfaces free of straw and dirt particles



The same high cooling capacity is then maintained even when operating in extreme dust conditions

Intelligent air flow.

Cold air enters through large intake surfaces in the front part of the machine, where the air is clean, and drawn through the engine compartment. The heat from the engine is discharged from the engine compartment at the rear, via exit grilles. This intelligent air routing design prevents any re-intake of exhaust air.

During road transport or when operating with part loads only, a lower fan speed may well be sufficient. DYNAMIC COOLING detects the requirements of all the cooling units, and electronically adjusts the speed accordingly, using thermosensors.



DYNAMIC COOLING saves both energy and fuel



Automatic cleaning.

The reversible fan clears air intake surfaces completely automatically of dirt and dust particles. The fan direction is reversed at regular intervals. The time interval for this is pre-set, but can be changed by CLAAS Service if required. The fan can also be reversed manually at any time with a pushbutton control.

- Easy cleaning of sieve
- Long operating intervals
- Constant output



Minimum radiator soiling, thanks to the reversible fan

Comfortable driving, impressive thrust power.

All the power you need, and infinitely variable:
Three ground drive systems.

The SCORPION offers a choice of three hydrostatic ground drive systems. All of them are electronically activated, and feature outstanding drive characteristics. Accurate driving and precisely metered thrust power are possible in every speed range.

- 1 VARIPOWER PLUS with wide-angle hydrostatic pump (45°) and second variable displacement motor (32°)
- 2 VARIPOWER with wide-angle hydrostatic pump (45°)
- 3 Hydrostatic pump with 32° maximum swivel angle

Maximum power: VARIPOWER PLUS (1).

The SCORPION 756 is fitted as standard with the VARIPOWER PLUS transmission. Along with the wide-angle hydrostatic pump (45°), this system has a second, swivelling variable displacement motor. This has a 32° swivel angle, delivering significantly more power in all operating ranges.

- Maximum agility
- Maximum thrust
- Fuel economy maximised by SMART ROADING

Maximum comfort: VARIPOWER (2).

Thanks to the VARIPOWER transmission with 45° maximum swivel angle (wide-angle hydrostatic pump), the SCORPION has a top speed of 40 km/h, infinitely variable. Ground speed and thrust are kept coordinated with each other at all times. This keeps fuel consumption down even when operating at high capacity.

- High level of agility
- High level of thrust
- Highly fuel-efficient, thanks to SMART ROADING

SCORPION	756	746	1033	741	736	732	635
VARIPOWER PLUS, 40 km/h	●	-	-	-	-	-	-
VARIPOWER PLUS, 30 km/h	○	-	-	-	-	-	-
VARIPOWER, 40 km/h ¹	-	●	●	●	●	●	●
VARIPOWER, 30 km/h	-	○	○	○	○	○	○
Hydrostatic, 30 km/h ²	-	-	●	●	●	●	●
20 km/h variants ³	○	○	○	○	○	○	○

● Standard ○ Optional - Not available

¹ Applies to all SCORPION models with VARIPOWER equipment (comfort class)

² Applies to all SCORPION basic class models

³ All models are available as 20 km/h versions ("self-propelled agricultural machines"), irrespective of transmission equipment



VARIPOWER PLUS transmission

VARIPOWER transmission

Hydrostatic transmission

The robust performer: Hydrostatic (3).

Your basic class SCORPION with hydrostatic transmission gives you the assurance of a ground drive system that has been proven and continually enhanced over a period of decades, with a maximum swivel angle of 32°. The machine offers comfortable, infinitely variable and economic driving characteristics, through ground speeds from 0 to 30 km/h.

The brain: SMART LOADING.

SMART ROADING adjusts the engine speed to the power level required. The operator only has to adjust the ground speed with the accelerator pedal. According to the capacity utilisation of the diesel engine, the engine speed is automatically raised or lowered. This has the effect of lowering the noise level when top speed is reached, and also reduces diesel consumption during both road transport and on-farm material handling operations.

The control centre: Joystick.

For loading cycles or road transport tasks, VARIPOWER provides the appropriate operating mode for every application. Precise ground speed graduations and speed range changes are performed effortlessly with the joystick.

VARIPOWER speed ranges ¹	Speed
Snail	km/h 0-15
Tortoise	km/h 0-30 ²
Hare	km/h 0-30 / 0-40

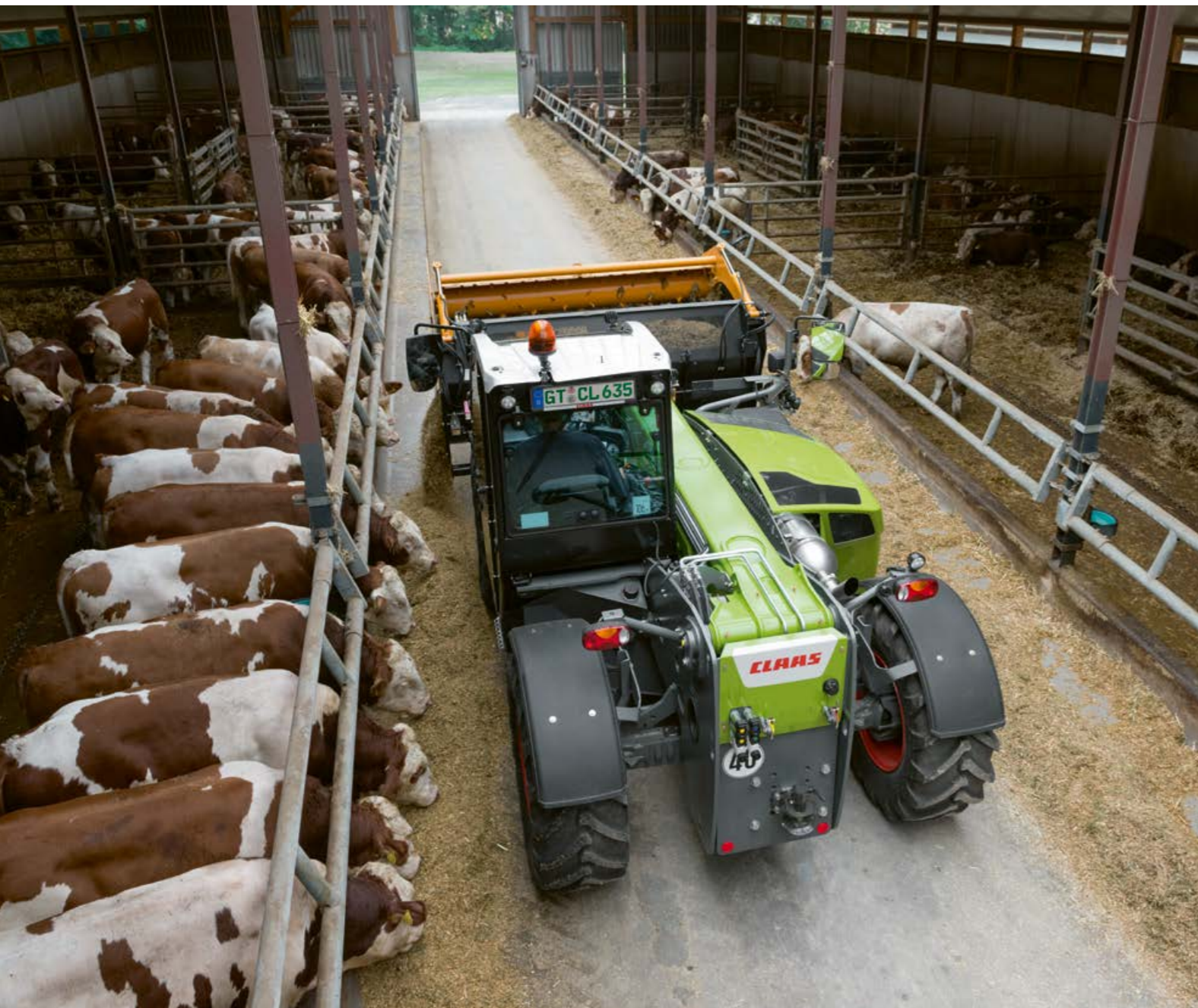


- A Change drive direction
- B Shift down driving ranges
- C Shift up speed ranges

¹ All basic class models have only one speed range (0-30 km/h).

² With a maximum top speed of 30 km/h in combination with VARIPOWER PLUS / VARIPOWER ground drive, the tortoise speed range is 0-22 km/h.

This ensures safe operation, at any ground speed.



Slow driving made easy.

For operations calling for a high oil flow rate at low ground speeds, such as sweeping or litter spreading, the creep speed facility SCORPION VARIPOWER is just what is required. The ground speed is easily and conveniently adjusted with the electronic hand throttle, and you can set the required hydraulic oil flow with the accelerator pedal. The creep speed facility can be used in the snail and tortoise speed ranges.

In the SCORPION basic class with hydrostatic transmission, the position of the accelerator pedal can be locked with a mechanical lever and Bowden cable. You use the hand throttle to adjust the speed of the diesel engine.

- 1 Electronic creep speed facility
- 2 Electronic hand throttle

Hand acceleration.

In this case, you control the ground speed with your hand, and the oil flow with your foot. Electric hand acceleration, in combination with the creep speed facility if required, can be used to deliver higher, constant working hydraulics power.

Safe on the road.

For the SCORPION, there is a choice of a two-line air brake system or a hydraulic brake. This provides safe braking capability even for heavy trailers – for straw transport on the road, for example.

Automatic safety system when bringing the machine to a stop.

If you leave the driver's seat, switch off the engine or lower the ground speed to 0 km/h, the SCORPION automatically activates its electrohydraulic parking brake. The brake is released as soon as you depress the accelerator pedal or select a driving direction. A rocker switch is also available.

Two braking variants.

Pressing once lightly on the brake pedal with inching function continuously reduces your ground speed. The engine speed stays the same. Pressing the pedal through to the floor automatically sets the ground drive to zero and activates the service brake. This allows accurate, precisely metered driving at any engine speed.



The brake with inching function reduces fuel consumption and brake wear

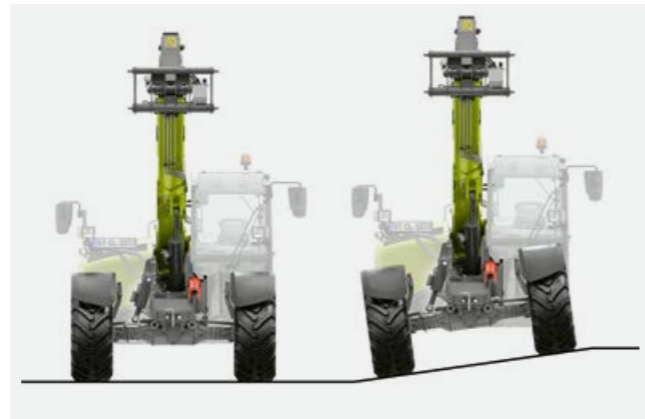


This enables you to operate the parking brake manually

Adjusts to any kind of terrain.

Stability in all positions.

The strong axle design and self-locking differential with lock value of 45 percent or differential lock with 100-percent lock value in the SCORPION 756 / 746 provide maximum safety when operating in different conditions. At the front, the SCORPION has a planetary steered drive axle with max. 35° steering angle, providing outstanding manoeuvrability, and at the rear a free-floating axle planetary axle with oscillation angle of 11° on each side (SCORPION 1033-635) or 10° on each side (SCORPION 756 / 746).



Levelling for heavy loads.

The SCORPION 1033 and 1033 VARIPOWER allow hydraulic levelling between the chassis and front axle of +/- 8°. This function is activated with a rocker switch in the cab. There is a spirit level in the driver's direct field of view. This provides maximum stability on uneven terrain, and allows you to work accurately even at high lifting heights.



Greater off-road safety through hydraulic levelling function

Switching off all-wheel drive when travelling at high speeds.

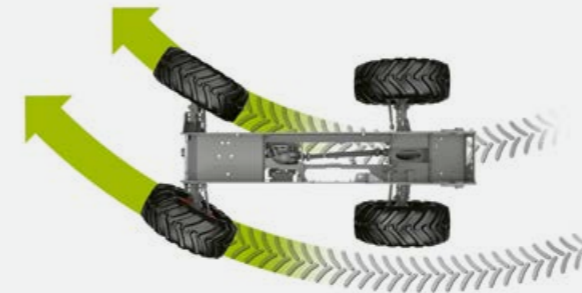
The SCORPION 756 VARIPOWER PLUS can be fitted with an all-wheel drive disengagement function. This saves fuel when travelling on the road, and also boosts tyre life.

Steering modes for every application.

Four steering modes provide unbeatable manoeuvrability, even in the tightest of spaces. The new feature here is manual crab steering, with front-axle steering to make the machine still more manoeuvrable.

- 1 Front-axle steering
- 2 All-wheel steering
- 3 Crab steering
- 4 NEW: Manual crab steering

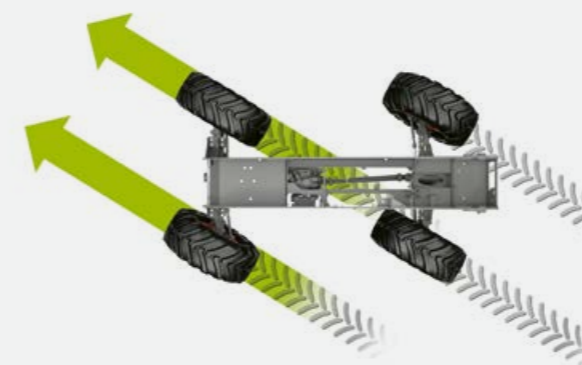
1 Front-wheel steering



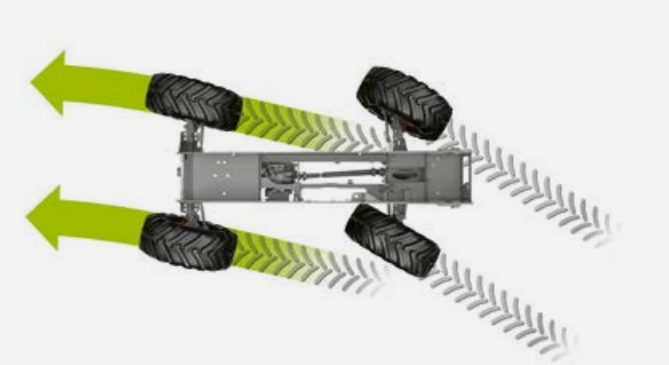
2 All-wheel steering



3 Crab steering



4 Manual crab steering



Changing steering modes while on the move.

In the comfort class SCORPION models, the steering mode can be changed quickly and easily even while the machine is on the move. The axles are electronically synchronised. The push and turn switch for selecting the steering mode is positioned conveniently in the instrument panel at the right. For manual crab steering mode, the rear axle is first set manually in the required position, and the system is then changed over to front-axle steering. The steering mode currently selected is shown in the display, and is always within the driver's view.

In the basic class, the steering mode is selected with a control lever, within easy reach for the driver. Axle synchronisation is carried out with LEDs.



Push and turn switch (A) for selecting the steering mode in the SCORPION VARIPOWER



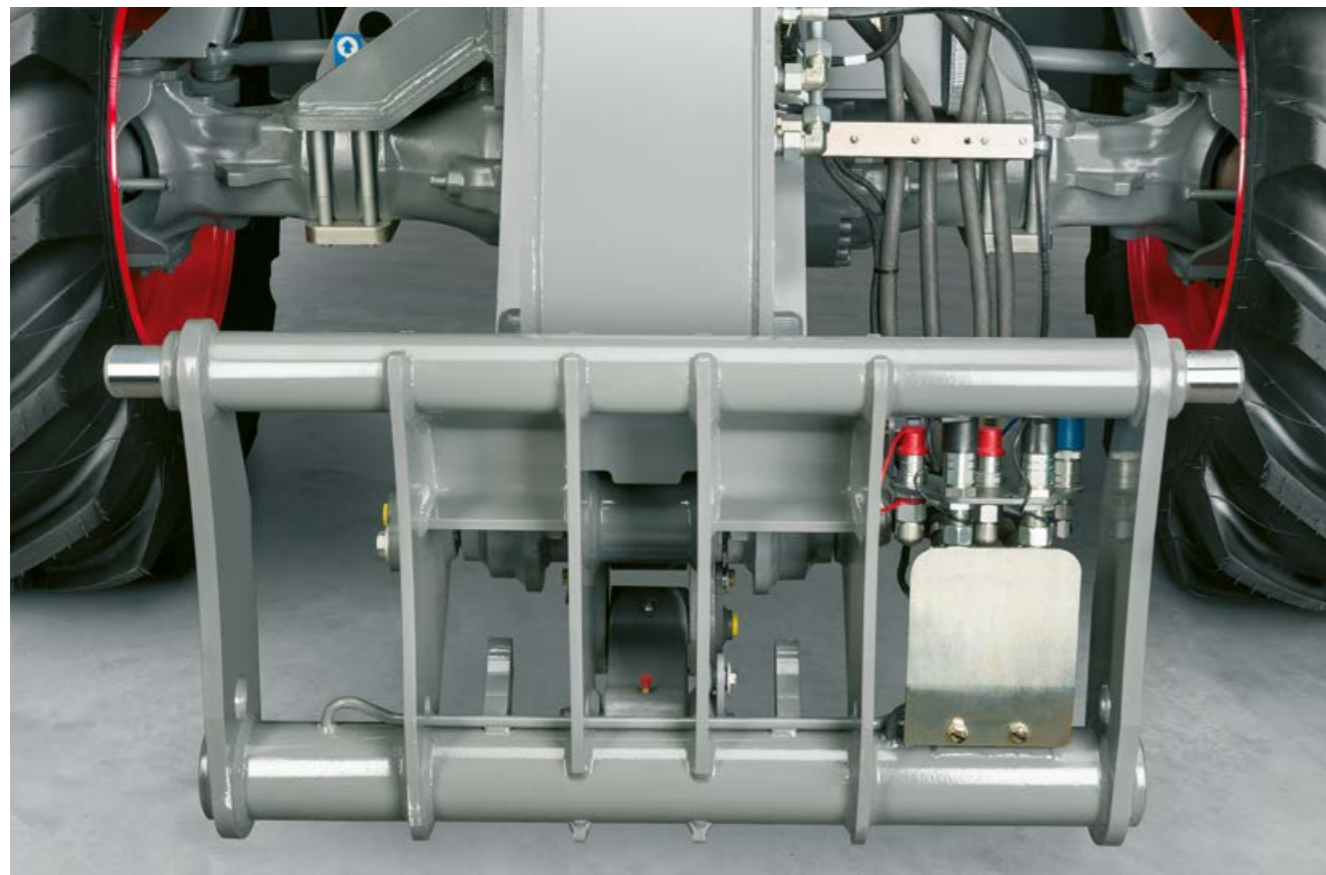
Control lever (B) for adjusting the steering mode in the basic class

All the way up –
the loading system.

The strong arm on your farm.

As a SCORPION driver, you can call on a working hydraulics system that develops enormous power, and a robust boom, with side control if desired, with outstanding torsional resistance and carrying capacity. Plus, you have intelligent automatic functions such as bucket return and engine speed adjustment, which lead to higher productivity while easing the operator's workload.



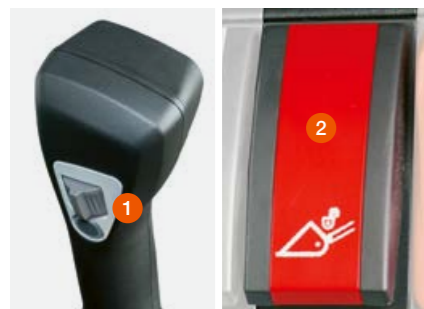


Designed for hard work.

The robust tool carrier, clearly visible from the SCORPION cab, is ideal for all operating conditions. Robust locking pins (50 mm) ensure the secure, low-wear attachment of all mounted implements, mechanical or hydraulic as preferred. The hydraulic connections are easily accessible and well protected.

150-degree dump-out angle.

The larger than usual tool carrier rotation angle of 150° is ideal for bulk material unloading operations, particularly with sticky goods and materials. The SCORPION 1033 and 1033 VARIPOWER models are optimised for high stacking tasks, and therefore have a slightly smaller rotation angle of 126°.



Faster and safer tool changes via touch key switch (1) and rocker switch (2)



Large rotation angle of 150°...



... for easier unloading of bulk materials



Side boom is standard in the SCORPION 756 / 746

Extended to 9.75 m.

The boom has excellent torsion resistance, so work can proceed without problems even close to capability limits. Carrying capacity remains impressive even at maximum extension. The brush on the boom prevents any build-up of dirt during retraction. A side boom is available on all SCORPION models.

No possibility of bouncing.

While the machine is moving, oscillation damping of the boom prevents any bouncing problems. The function can be activated with a rocker switch at any ground speed. In automatic mode, it is automatically switched off at speeds of below 7 km/h, to allow accurate working with heavy loads.

SCORPION	Lifting height (m)	Lifting capacity (t)
756	7.03	5.6
746	7.03	4.6
1033	9.75	3.3
741	6.93	4.1
736	6.93	3.6
732	6.93	3.2
635	6.13	3.50

Capacity utilisation display always available.

The load display complies with EN 15000, and is positioned for maximum visibility on the A-pillar. An easily understandable visual system provides a clear indication to the operator of exactly what zone the machine is currently operating in: Green means everything is fine, green-amber indicates that the stability limit has been reached and green-amber-red warns of a risk of tipping over.



Load display based on clear traffic light system: When the stability limit is exceeded, all the LEDs light up, and an alarm tone sounds

Level 0 (latched)

Machine will not allow any loads of more than 100 percent. Once 100 percent has been reached, only load-reducing movements are possible.

Level 1 (latched)

Machine will allow loads above 100 percent in certain load conditions. Cannot be activated with lift angle of more than 50°.

Level 2 (non-latching)

Loads above 100 percent can be manually enabled for a limited time in exceptional situations. Level 2 is only available for 60 seconds.

Time saver – SMART LOADING.

More operator-friendly.

SMART LOADING bundles a number of intelligent systems for machine optimisation in wheel loaders and telehandlers into a unique operator assistance package, providing maximum comfort and convenience for the operator for routine daily operations.

Precisely coordinated and individually adjustable functions optimise the entire loading cycle, boosting both the productivity and efficiency of your work processes. This means less stress on the operator, and better protection for machine and materials.



Greater accuracy.

The precision control of the working hydraulics (for the SCORPION 756 / 746) has been specifically designed for accurate high stacking operations. The speed of the working hydraulics can be reduced by a half simply by pressing a rocker switch. The operator can then focus exclusively on placing the goods in the correct position.

More assistance.

The automatic bucket return function is ideal for loading operations where the bucket is continually being returned to a position close to the ground. To reduce the workload involved, the operator can simply save the required tilt angle, and call it up when required with a pushbutton command on the joystick.

- Maximum operating reliability for long working days without undue fatigue
- Can be individually optimised depending on the bucket type and the material to be shifted
- Protects bucket and machine

Unrivalled efficiency.

DYNAMIC POWER is an assistance system in the SCORPION 756 / 746, which raises or lowers the diesel engine speed according to the joystick angle. This allows loading cycles to be made even faster and easier. The lower speed enhances operating reliability, which reduces stress and fatigue during even the longest working day.



More operator-friendly weighing system.

The comfort class models can be equipped with a dynamic weighing system. The material in the bucket is accurately weighed during the lifting operation. A 5" touch screen in the cab displays either the total weight of all shovels, or the residual weight before the target weight is reached.



Automatic bucket return for fast working close to the ground



DYNAMIC POWER for more efficient loading cycles



The weighing system also allows accurate filling of road transport vehicles



Whatever the requirement may be – heavy lifting or fast loading – the SCORPION has powerful working hydraulics with joystick operation (including electrohydraulic pilot control in VARIPOWER models) for maximum power and performance.

The proportional valves – load-independent in the case of VARIPOWER – provide precise control of all hydraulic functions of the loading system.

Working hydraulics in VARIPOWER comfort class models.

SCORPION		756	746	1033	741	736	732	635
Type		Load-sensing variable displacement swash plate pump						
Valves		LUDV valves						
Max. pump capacity	l/min	200	200	160	160	160	160	160
Max. operating pressure	bar	270	240	270	270	270	240	240

Working hydraulics in basic class models.

SCORPION		1033	741	736	732	635
Type		Gear pump				
Valves		Throttle control block				
Max. pump capacity	l/min	106	106	106	106	106
Max. operating pressure	bar	270	270	270	240	240

Strong up front.

For attached implements with a double-acting control circuit, such as sweepers or grab shovel, the SCORPION has additional control circuits with capacity of up to 200 l/min. Two double-acting hydraulics connections can be safely attached directly to the implement carrier if required. An overflow oil line and free flow return line are available as optional equipment.

- Operator-friendly separate activation with the joystick
- Infinitely variable adjustment of the flow rate
- Continuous operation activated with rocker switch

Versatile at the rear.

The basic class SCORPION models can additionally be equipped at the rear with a double-acting connection, which can also be used in single-acting mode, and placed in permanent operating mode with a rocker switch. For the SCORPION VARIPOWER comfort class models, four rear hydraulics packages are available:

- Single-acting connection for tipper operation
- Single-acting connection and hitch
- Single-acting and double-acting connection
- Single-acting, double-acting connection and hitch



Pressure-free implement changes.

For fast and convenient implement changes with no unnecessary oil losses, there must not be any pressure at the couplers. Simply by pushing a button, you can switch the connections of the third control circuit to zero pressure, while the engine is running – either via a rocker switch in the cab, or with a pushbutton control on the boom.

Safe stacking.

For high overhead loading operations, or for added safety in situations where the tilt ram must not be activated in any circumstances, you can simply activate the tilt ram lock from inside the cab. The implement carrier then remains constantly in a horizontal position.



Hydraulic connections in a well-protected location on the implement carrier



1 Control circuit at the front
2 Pressure off

A great place to be –
the new workstation.



Two variants of comfort.

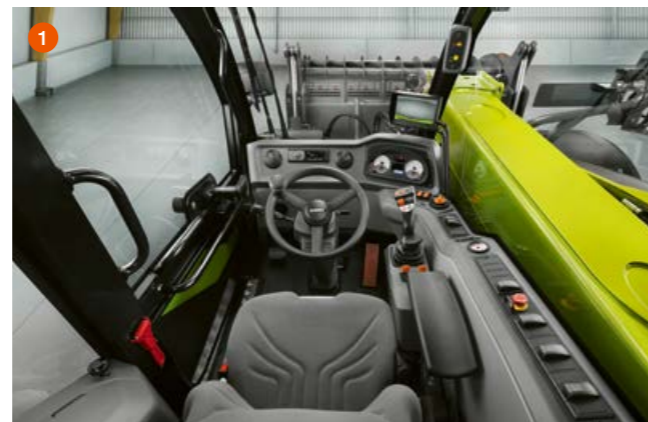
The spacious operator cab provides an ideal environment for working comfortably, safely and at top productivity, day in, day out. The completely new cab design features a unique 360° all-round view, and clearly arranged controls on the operating console. SCORPION VARIPOWER models have a raft of additional comfort features, while the functional cab variants in the basic class models focus on the essentials.

Delighting operators with a completely new design.

Plenty of space.

For the current SCORPION model range, a completely new cab design concept has been developed, from the access via individually adjustable steps to the operator-friendly interior with fully coordinated ergonomics.

- Spacious cab with plenty of room to move
- Tailored to the operator's requirements
- Maximum comfort for all work operations



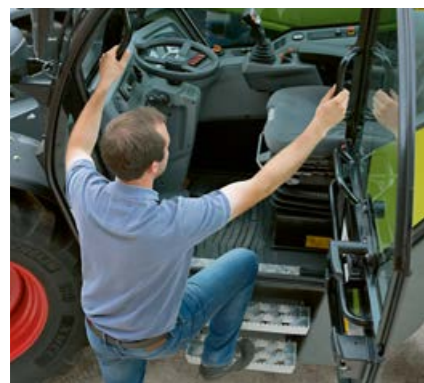
Full visibility.

The main objective for the cab design was to give the operator a full 360° view, together with maximum comfort and plenty of storage space. Accordingly, the structural frame elements were kept as small as possible, and the boom was fitted at the lowest possible point in the chassis.

This structural design, plus the big, low-cut windscreen, gives operators unobstructed all-round visibility, with the implements in view at all times, and the ability to see what is happening behind the machine.



- 1 Comfort class: SCORPION 756 / 746
- 2 Comfort class: SCORPION 1033-635
- 3 Basic class: SCORPION 1033-635



Easy access to driver's seat, individually adjustable work position



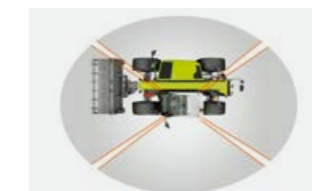
Fresh air.

The split-level door in the SCORPION can be folded up and left a crack open with just one action. It can also be closed without you having to get in or out of the cab. The rear window can also be pushed back. These two cab openings provide the fresh air needed, particularly on hot days.

The upper section of the entrance door can be opened and locked in position. This provides a further substantial increase in visibility, particularly in difficult operating conditions. The lock can be quickly released, both from outside or from the driver's seat.



Perfect visibility of attached tools in all positions



Full 360° view, thanks to large windows



Unobstructed view to the rear for safer working, thanks to the deep-articulated boom



Unobstructed view of attached implements and the immediate work environment



Intuitive operation.

Whether you are controlling your SCORPION with the ergonomic joystick (A, comfort class) or the robust control lever, comfortably gripped in the operator's right hand (B, basic class), your machine remains well under control in all operating situations. Both variants are intuitive to use, offering outstanding comfort and convenience for the operator.

With the joystick, the electronic pilot control provides precise proportional control of all functions, and supremely accurate working for all loading and material handling operations. In the basic class, the essential functions are also activated, with proportional control, with a control lever.



Colour-coded grouping of controls for maximum safety and convenience



Clean, informative display.

The multi-colour instrument cluster display is the central source of information for the machine operator. It is always well within the operator's field of view, and clearly legible under all lighting conditions.

The operator is able to survey all the main parameters at a glance, and see the current operational status of the machine and its components. Intuitive, easily understandable sub-menus.

- 1 Main screen: Display of essential functions (direction of travel, steering mode, speed range) and menu bar at the bottom
 - Main menu (A)
 - Working hydraulics menu (B)
 - Units menu (C)
 - Error messages (D)
- 2 Arrow keys for navigating through the menu bar
- 3 Direct selection of main screen
- 4 Direct selection of error messages



Instrument cluster display in basic class models with single-colour display



Seating comfort.

The SCORPION seat has a pneumatic or low-frequency suspension with seat heating, back extension and a wide range of individual adjustment options for maximum comfort. Alternatively, you can have a seat with mechanical suspension fitted in your SCORPION, with a choice of short or long back.

Seeing clearly.

To ensure that your all-round view is not obscured by ice, rain or dust, all comfort class models can be fitted with windscreen heaters for the right side and rear windows, and with windscreen washing systems for the windscreen and skylight. For SCORPION 746 / 756, a washing system is also available for the right side window.



Safe storage for documents

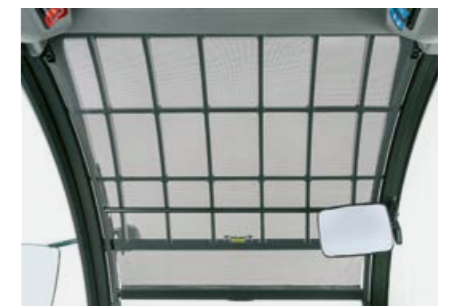


Steering column with adjustable tilt angle. Available for all VARIPOWER models: three-way adjustment, for height, angle and tilt.

In addition to the rear-view mirrors, interior mirrors and rear-view mirror for trailer coupling and hitch hook are available as optional equipment.

Breathing feely.

The high-performance air-conditioning system of the SCORPION provides a comfortable cab atmosphere even in the hottest weather conditions, and is also the best form of protection against dust and aerosols. Temperature, ventilation level and air distribution can all be set individually.



In comfort class models, the skylight is fitted with a sun blind as standard equipment



The all-seeing driver.

On request, SCORPION comfort class machines can be fitted with high-resolution cameras. These provide sharply defined images of the work environment even in twilight, which are transferred to the colour monitor in the cab. The ultra-robust camera housing can be cleaned under pressure with no problems. An integrated heater prevents the lens from misting up or freezing over.

- Better side visibility when driving with the boom up
- Greater safety for people in the working environment
- Maximum control when reversing

The empty-handed thief.

The machine is protected against theft using coded keys with integrated transponders. For SCORPION comfort class models, on request the machine can also be provided with CESAR security registration (available according to country).



A high-resolution camera at the front right provides clear images even in twilight conditions



The images from the front and rear cameras are transferred to the monitor in the cab

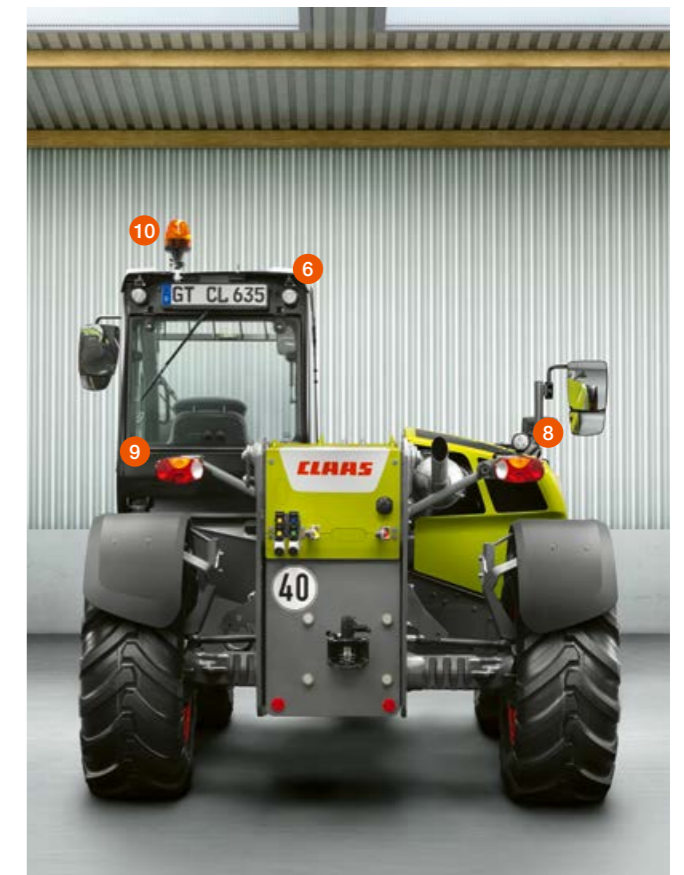


Light in every corner.

Pivoting LED work lights provide generous 360° lighting of the work environment for night work or when operating indoors in dark conditions. The long-life lights combine outstanding luminous intensity with low power consumption. The uniform light distribution and attractive near-daylight colours help to prevent fatigue.



The PROFI CAM provides the eyes in the back of the operator's head



Halogen lights on the rear-view mirror bracket for illuminate the rear area

A choice of LED or halogen work lights are available for full 360° illumination of the work environment.

- 1 Two halogen or LED work lights on front of cab roof
- 2 One halogen or LED sidefinder on left of cab roof
- 3 Two halogen or LED work lights on boom
- 4 Front road transport light and blinker
- 5 Three halogen or LED work lights on mirror bracket
- 6 Two halogen or LED work lights on rear of cab roof
- 7 One halogen or LED work light on rear-view mirror
- 8 One halogen or LED work light on the rear right tail light
- 9 Reversing light and blinker
- 10 Rotating beacon



Free access saves time.

The faster you can access the maintenance points, the more you can save on maintenance time and costs. In the SCORPION, all the essential points are easily reached from the ground, in a standing position and with no need to get dirty.

Many of the maintenance orifices are located in the engine tray. All testing points and fluid levels are clearly visible, and the clearly laid out components in the engine compartment under the one-piece bonnet are readily accessible.

The engine air filter is in a clearly visible location on the right side of the machine. A warning signal appears in the display if the filter becomes too severely soiled.



Good access to the fresh air filter for the cab



Central lubrication reduces costs.

Regular lubrication reduces wear. The automatic central lubrication system ensures that all maintenance intervals are scrupulously observed. Each lubrication point is continuously lubricated with an accurately dispensed quantity of grease while the machine is in operation. The transparent grease tank is located on the left side of the machine.

All SCORPION models¹ are available with preparation for installation of the central lubrication system. In this case, all the lines required for the subsequent installation operation are already laid within the machine.

Thoroughness is the recipe for longer service life.

With the central lubrication rail option, three such rails are placed at the rear on the right, at the front on the axle, and in an easily accessible location on the gooseneck, all the lubrication for the machine is carried out from these structures. This provides a thorough, rapid and convenient method for the lubrication of components even at poorly accessible locations. In this, to make the lubrication points and lines more easily accessible, the central grease bars have been placed further out.

¹ Not available for SCORPION 1033 and 1033 VARIPOWER

Protection for on-board electronics.

In all SCORPION models, the fuses are placed in a compartment in the cab, protected from dust and water. The cover panel can be removed without using tools, with easy access to all fuses.

The battery and battery disconnecter are easily accessible, securely protected in a robust housing structure. The automatic battery disconnecter disconnects the battery from the vehicle system automatically after 120 seconds. This provides protection against battery discharge, and safeguards the vehicle electrical system from damage from voltage fluctuations.

At the rear the SCORPION has a 7-pin socket for trailer operation. For the operation of sweepers and other attached implements, a 4-pin socket is provided at the front, on the mast.



Sockets for flexible power supply for wide range of attached and trailed implements



The engine air filter is very readily accessible, with no tools required for maintenance



Operator assistance systems.

SMART LOADING bundles a number of intelligent systems for machine optimisation in wheel loaders and telehandlers into a unique assistance package, actively supporting the operator for high-tonnage loading operation. Automatic bucket return and a weighing system optimise the entire loading cycle, boosting both the productivity and efficiency of your work processes.



Business and data management.

With CLAAS TELEMATICS, you can always keep an eye on your CLAAS machines. The data regularly transmitted from the machines can be viewed on a PC or on your smartphone, using the CLAAS TELEMATICS app, while, thanks to the automatic documentation function, you have an accurate breakdown of machine activities by fields, farms and roads. TELEMATICS is kept up with the state of the art, with several updates each year.



EASY – Get connected.

One of our EASY specialists will come to your location to connect up your components and systems. They will integrate your CLAAS machine into your system landscape, and prepare for your new steering system environment and data management structure. They will check that your CLAAS machines will transmit and receive data from and to your required locations – protected from access by unauthorised third parties, practical, user-friendly technology for you and your staff. That's why we say: "EASY – get connected."

Whatever it takes – CLAAS Service & Parts.



Your requirements count.

You can always rely on us: we'll be there whenever you need us – everywhere, quickly and reliably, around the clock if necessary, with precisely the solution that your machine or business requires. Whatever it takes.

ORIGINAL parts and accessories.

Specially matched to your machine: precision-manufactured parts, high-quality consumables and useful accessories. From our comprehensive product range, we supply exactly the right solution required for the 100% operating reliability of your machine. Whatever it takes.

For your business: CLAAS FARM PARTS.

CLAAS FARM PARTS offers one of the most comprehensive spare parts programmes, regardless of brand and sector, for all agricultural applications on your farm. Whatever it takes.

Always up to date.

CLAAS dealers are among the most efficient agricultural technology companies in the world. Our service teams are ideally qualified and equipped with the all-important special tools and diagnostic systems. CLAAS Service stands for high-quality work which meets all your expectations. Whatever it takes.

Reliability can be planned.

Our service products help you to increase machine reliability, minimise the breakdown risk and base your calculations on predictable costs. CLAAS MAXI CARE offers planned reliability for your machine. Whatever it takes.

Worldwide coverage from Hamm.

Our central spare parts warehouse delivers all ORIGINAL parts quickly and reliably all over the world. Your local CLAAS partner can supply the right solution for your harvest or your business within a very short time. Whatever it takes.

Problem solving by remote diagnostics: CLAAS TELEMATICS.

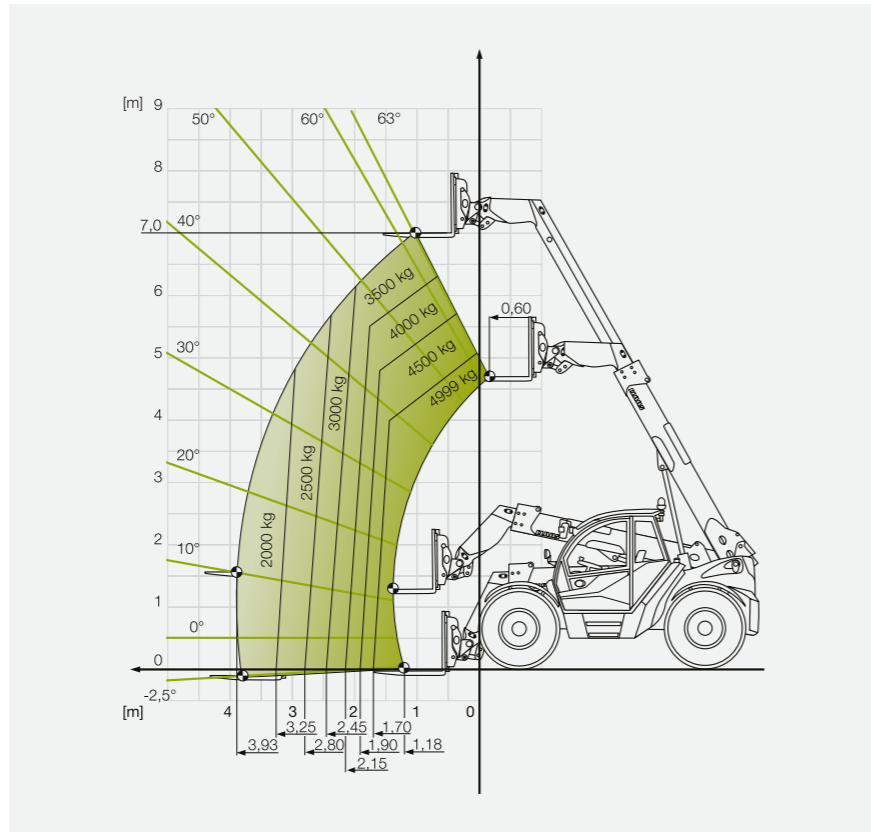
CLAAS TELEMATICS on your machine brings two important advantages: fast assistance from CLAAS service technicians and a more profitable operation, thanks to wireless networking. We can be there, on the spot, to solve your problem – even when you can't see us. Whatever it takes.



The CLAAS Parts Logistics Center in Hamm, Germany stocks more than 155,000 different parts and has a warehouse area of over 100,000 m².

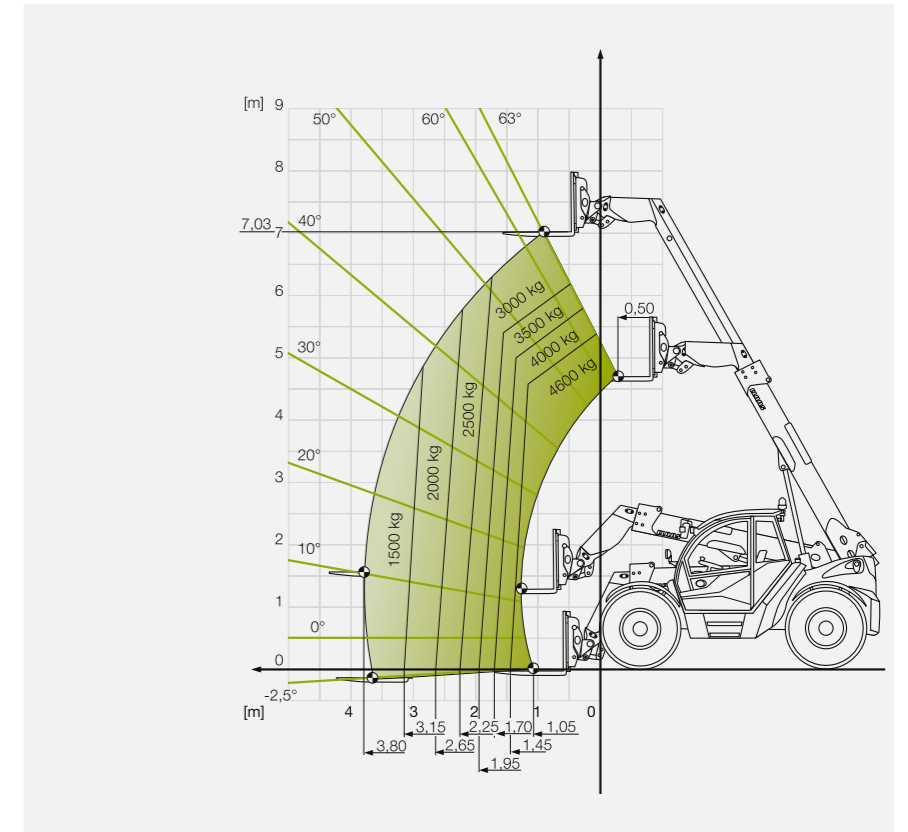
SCORPION 756 VARIPOWER

Load capacity chart with load centre
(LC) 600 mm



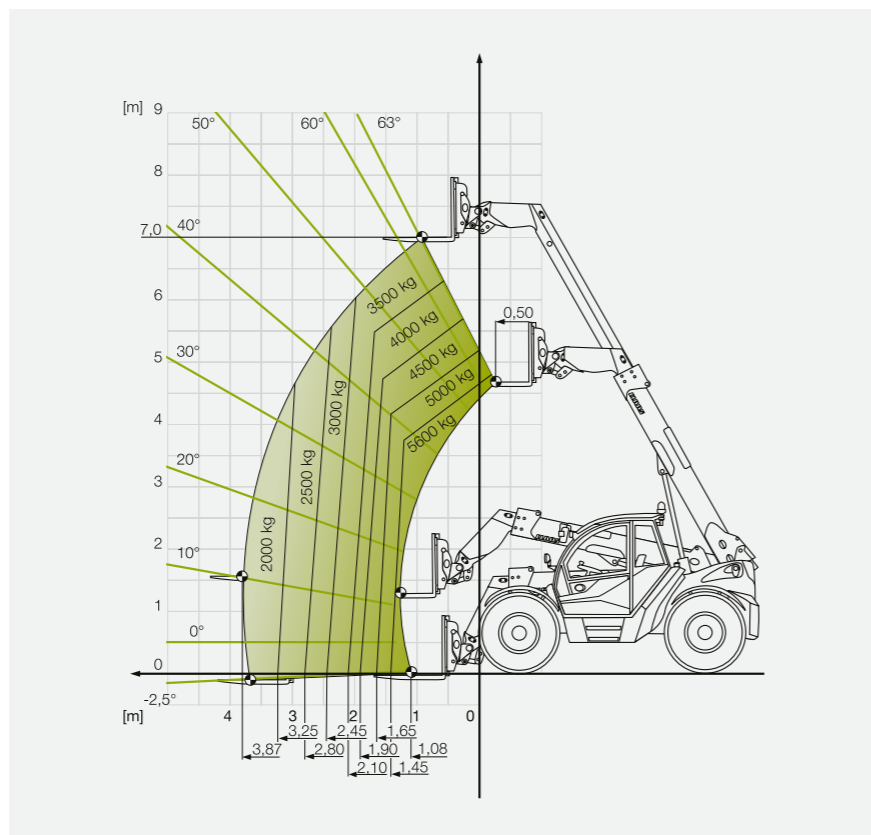
SCORPION 746 VARIPOWER

Load capacity chart with load centre
(LC) 500 mm



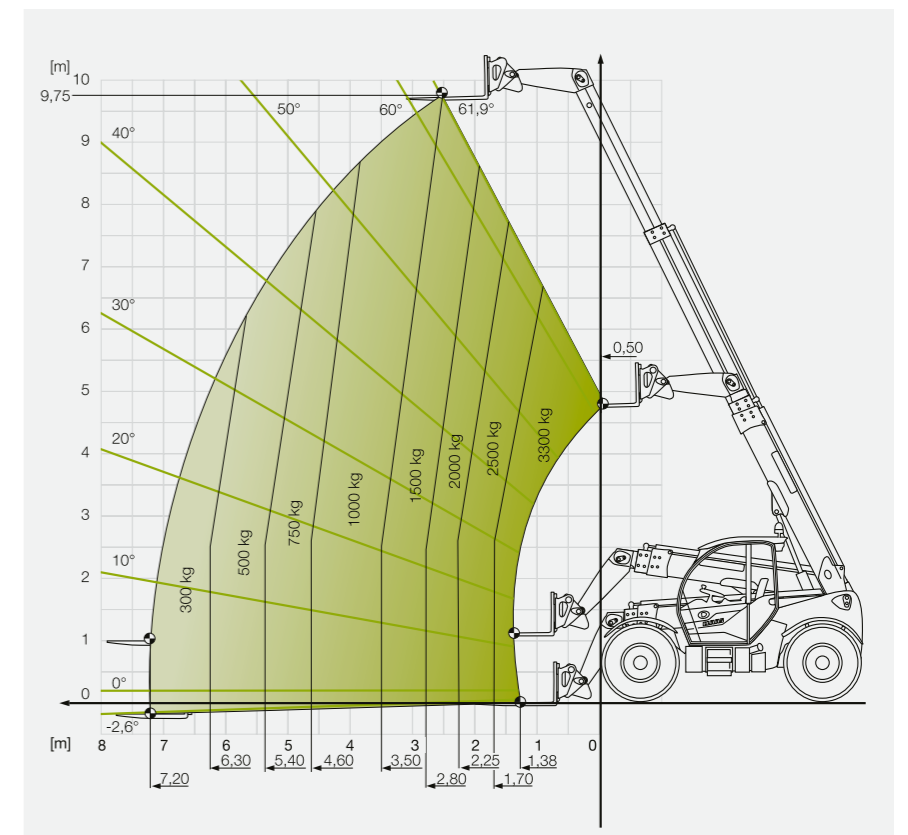
SCORPION 756 VARIPOWER

Load capacity chart with load centre
(LC) 500 mm



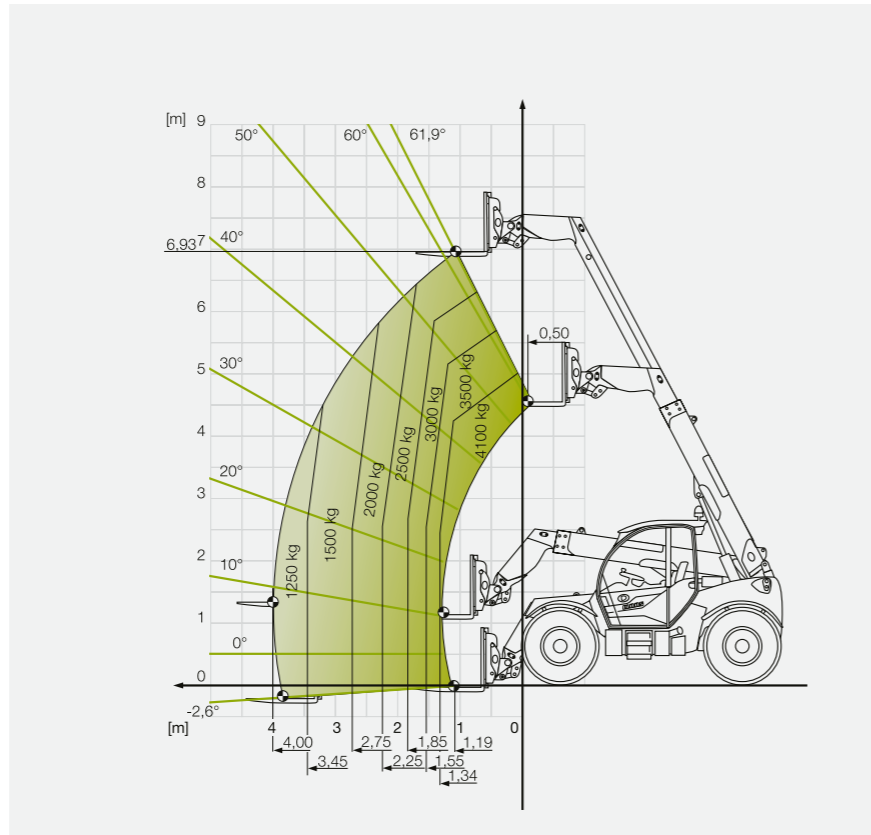
SCORPION 1033 / 1033 VARIPOWER

Load capacity chart with load centre
(LC) 500 mm



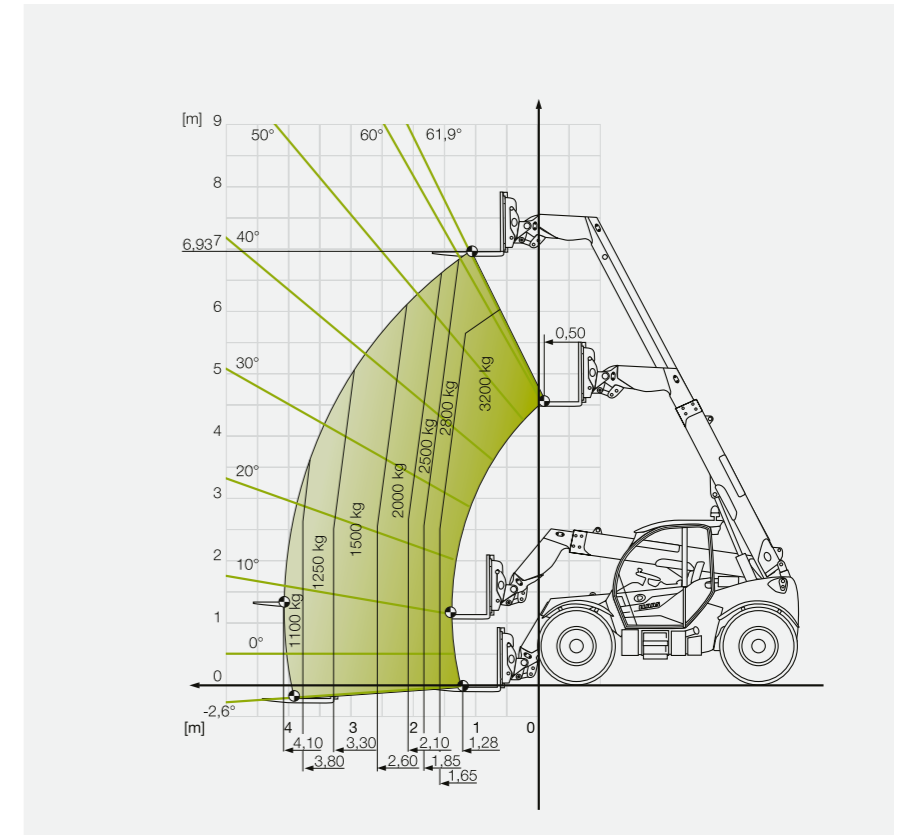
SCORPION 741 / 741 VARIPOWER

Load capacity chart with load centre
(LC) 500 mm



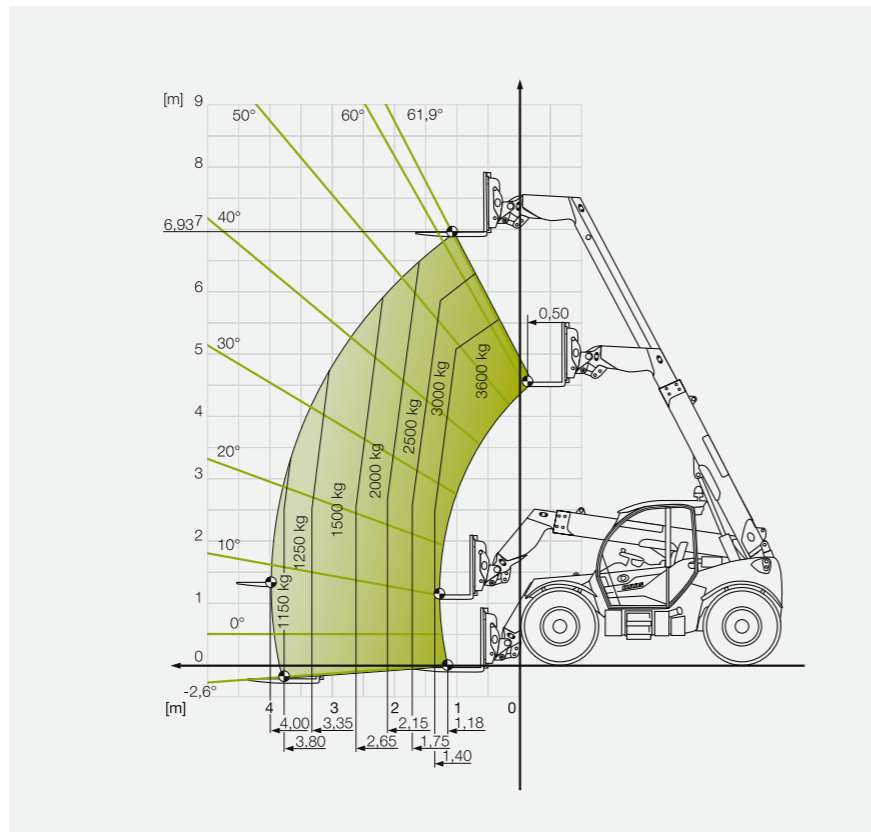
SCORPION 732 / 732 VARIPOWER

Load capacity chart with load centre
(LC) 500 mm



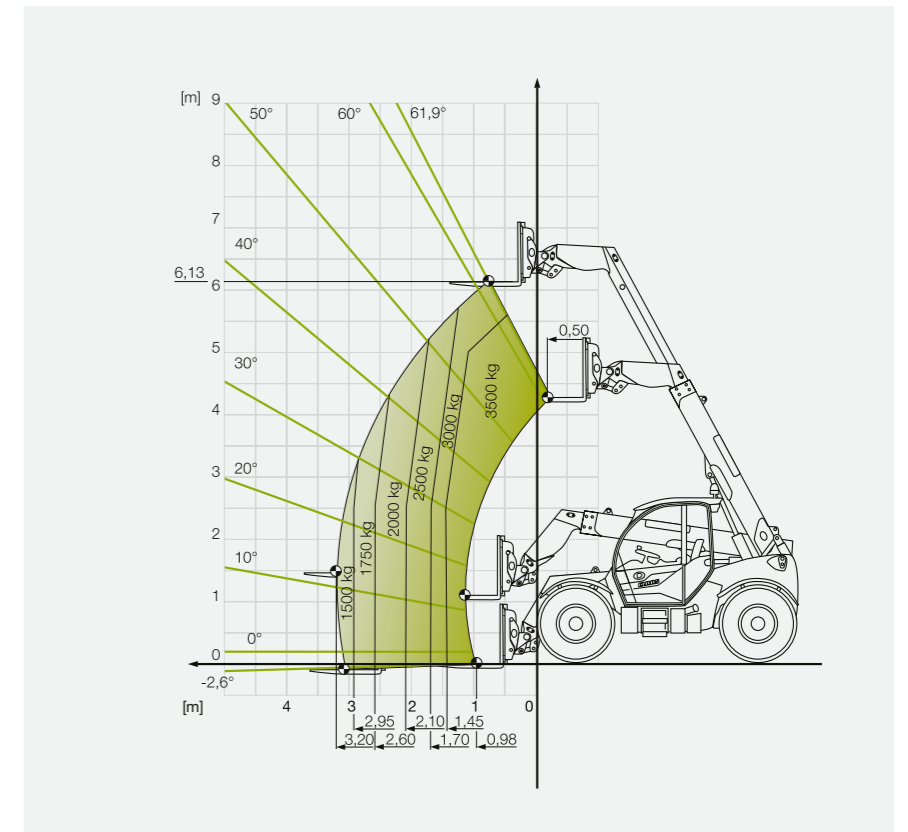
SCORPION 736 / 736 VARIPOWER

Lifting capacity chart with load centre
(LC) 500 mm



SCORPION 635 / 635 VARIPOWER

Load capacity chart with load centre
(LC) 500 mm



Convincing arguments.



Drive train.

- High-torque Deutz engines delivering up to 115 kW/156 hp
- Efficient VARIPOWER PLUS / VARIPOWER transmission for maximum power and precision
- Infinitely variable driving up to 40 km/h
- Improved SMART ROADING for noise-minimised driving and reduced fuel consumption – at speeds from 1,900 rpm
- Hand throttle with creep-speed facility
- Intelligent parking brake for maximum comfort and convenience
- Manual crab steering as 4th steering mode

Loading system.

- Lift capacity from 3.2 to 5.6 t
- Lift heights from 6.13 to 9.75 m
- Powerful working hydraulics, with up to 200 l/min
- Oscillation damping with automatic function
- External pressure release for the third control circuit

Operator assistance systems.

- SMART LOADING with automatic bucket return and weighing system
- DYNAMIC POWER and fine-tuned control of working hydraulics for optimal precision

Cab.

- New cab concept for outstanding ergonomics and view, with maximum 360° visibility
- 3.5" or 7" colour display
- Steering column with three-way adjustment
- PROFI CAM camera system for a clear view of the situation even in poor visibility conditions

SCORPION		756	746	1033	741	736	732	635
Loading system								
Lift capacity	kg	5600	4600	3300	4100	3600	3200	3500
Lift height	mm	7030	7030	9750	6930	6930	6930	6130
Pressure release, third control circuit		o	o	o	o	o	o	o
Engine – Stage IV								
Manufacturer		Deutz	Deutz	Deutz	Deutz	Deutz	Deutz	Deutz
Model		TCD 4.1 L4	TCD 3.6 L4	TCD 3.6 L4	TCD 3.6 L4	TCD 3.6 L4	TCD 3.6 L4	TCD 3.6 L4
Layout / number of cylinders		R 4	R 4	R 4	R 4	R 4	R 4	R 4
Cubic capacity	cm ³	4038	3621	3621	3621	3621	3621	3621
Output at 2400 rpm (ECE R 120) ¹	kW/hp	115 / 156	100 / 136	100 / 136	100 / 136	100 / 136	100 / 136	100 / 136
Max. torque at 1600 rpm	Nm	609	500	500	500	500	500	500
Exhaust aftertreatment Stage IV (Tier 4)		DOC + DPF SCR	DOC + SCR	DOC + SCR	DOC + SCR	DOC + SCR	DOC + SCR	DOC + SCR
Working hydraulics								
Gear pump, throttle control block ²	l/bar	–	–	106/270 ⁴	106/270 ⁴	106/270 ⁴	106/240 ⁴	106/240 ⁴
LS pump, LUDV valves ³	l/bar	max. 200/270 ⁴	max. 200/240 ⁴	160/270 ⁵	160/270 ⁵	160/270 ⁵	160/240 ⁵	160/240 ⁵
Spool valve		4x (standard), 5x (option)		4x (standard), 5x (option)				
Ground drive								
Hydrostatic		VARIPOWER PLUS	VARIPOWER	VARIPOWER ³ Hydrostatic ²	VARIPOWER ³ Hydrostatic ²	VARIPOWER ³ Hydrostatic ²	VARIPOWER ³ Hydrostatic ²	VARIPOWER ³ Hydrostatic ²
Work levels ⁶	km/h	0–15/0–30/0–40 ⁷	0–15/0–30/0–40 ⁷	0–15/0–30/0–40 ⁷	0–15/0–30/0–40 ⁷	0–15/0–30/0–40 ⁷	0–15/0–30/0–40 ⁷	0–15/0–30/0–40 ⁷
Top speed max. ⁸	km/h	30/40 ¹	30/40 ¹	30/40 ¹	30/40 ¹	30/40 ¹	30/40 ¹	30/40 ¹
SMART ROADING		●	●	●	●	●	●	●
Tank capacity overview								
Fuel tank – diesel	l	205	205	150	150	150	150	150
Urea tank	l	20	10	10	10	10	10	10
Hydraulic oil – total quantity	l	150	150	140	140	140	140	140
Axles								
Front axle		Planetary drive axle		Planetary drive axle				
Rear axle		Oscillating planetary axle		Oscillating planetary axle				
Angle of oscillation	degrees	10		11				
Front differential lock		Locking differential 100%		Self-locking differential 45%				
Steering lock	degrees	35	35	35	35	35	35	35
Hydraulic levelling +/-	degrees	–	–	8	–	–	–	–
Service brake								
Type		Foot-operated hydraulic power brake (closed-circuit, wet disc brake)		Foot-operated hydraulic power brake (closed-circuit, wet)				
Location		Front and rear axle		Front axle				
Parking brake								
Type		Electrohydraulic disc brake		Electrohydraulic disc brake				
Location		Spring accumulator on front axle (also acts on rear axle via drive shaft)		Spring accumulator on front axle (also acts on rear axle via drive shaft)				
Weights								
Unladen weight, VARIPOWER equipment ⁹	kg	11500	8995	8230	7640	7420	7585	7510
Unladen weight (without VARIPOWER equipment) ¹⁰	kg	–	–	8050	7460	7130	7280	7320
Maximum permissible total weight	kg	13000	12000	8600	8600	8600	8600	8600

● Standard ○ Optional □ Available – Not available

SCORPION		756	746	1033	741	736	732	635
SMART LOADING / electronics expertise								
Automatic bucket return		o	o	o ³	o ³	o ³	o ³	o ³
Weighing system		o	o	o ³	o ³	o ³	o ³	o ³
DYNAMIC POWER								
Precision control of working hydraulics		o	o	–	–	–	–	–
TELEMATICS								
		o	o	o	o	o	o	o

SCORPION		756	746	1033	741	736	732	635
Tyre sizes								
		Vehicle width¹¹						
405/70-20 Mitas MPT 01, AS profile	m	–	–	2.33	2.33	2.33	2.33	2.33
405/70-24 Mitas MPT 01, AS profile	m	–	–	2.33	2.33	2.33	2.33	2.33
405/70-24 Mitas MPT 04, AS profile	m	–	–	2.33	2.33	2.33	2.33	2.33
405/70 R 24 Dunlop SP SPT9, multipurpose profile	m	–	–	2.33	2.33	2.33	2.33	2.33
460/70 R 24 Firestone Duraforce Utility, industrial profile	m	2.51	2.51	2.39	2.39	2.39	2.39	2.39
460/70 R 24 Michelin XMCL, AS profile	m	2.51	2.51	2.39	2.39	2.39	2.39	2.39
460/70 R 24 Alliance A580, AS profile	m	2.52	2.52	2.39	2.39	2.39	2.39	2.39
460/70 R 24 Michelin Bibload	m	2.52	2.52	2.39	2.39	2.39	2.39	2.39
500/70 R 24 Alliance A580, AS profile	m	2.52	2.52	–	2.44	2.44	–	–
500/70 R 24 Michelin XMCL, AS profile	m	2.52	2.52	–	2.43	2.43	–	–
500/70 R 24 Firestone Duraforce Utility, industrial profile	m	2.52	2.52	–	2.43	2.43	–	–
600/55-26.5 Alliance I-3 16PR, AS profile	m	2.54	2.54	–	–	–	–	–

¹ In accordance with ISO 14396

² Applies to all SCORPION basic class models

³ Applies to all SCORPION models with VARIPOWER equipment (comfort class)

⁴ At 2,300 rpm

⁵ At 1,900 rpm

⁶ With maximum top speed of 30 km/h in combination with VARIPOWER PLUS / VARIPOWER ground drive, the tortoise speed range is 0–22 km/h.

⁷ All VARIPOWER models are also available as 30 km/h variant

⁸ All models, irrespective of transmission equipment, are also available as 20 km/h version

⁹ For VARIPOWER equipment variants with standard pallet forks, without driver, with full tank of diesel and minimum equipment. Tyres: Michelin XMCL 460/70-24

¹⁰ With standard pallet forks, without driver, with full tank of diesel and minimum equipment, tyres: Mitas MPT 01 405/70-24

¹¹ Above tyres

CLAAS continually develops its products to meet customer requirements. This means that all products are subject to change without notice. All descriptions and specifications in this brochure should be considered approximate and may include optional equipment that is not part of the standard specifications. This brochure is designed for worldwide use. Please refer to your nearest CLAAS dealer and their price list for local specification details. Some protective panels may have been removed for photographic purposes in order to present the function clearly. To avoid any risk of danger, never remove these protective panels yourself. In this respect, please refer to the relevant instructions in the operator's manual. All technical specifications relating to engines are based on the European emissions regulation standards: Stage. Any reference to the Tier standards in this document is intended solely for information purposes and ease of understanding. It does not imply approval for regions in which emissions are regulated by Tier.

● Standard ○ Optional □ Available – Not available

SCORPION			756	746	1033	741	736	732	635
Dimensions									
A	Length including tool carrier	mm	5030	5002	4950	4752	4752	4752	4452
B	Overall length (without mirror)	mm	2521 ¹	2514 ¹	2380 ¹	2380 ¹	2380 ¹	2380 ¹	2380 ¹
C	Cab width (exterior)	mm	969	969	941	941	941	941	941
D	Track width	mm	2040	1950-2040 ²	1920	1920	1920	1920	1920
E	Overall height (without warning beacon)	mm	2655	2590	2465	2465	2465	2465	2465
F	Wheelbase, middle	mm	2950	2950	2850	2850	2850	2750	2750
G	Ground clearance	mm	410	410	405	405	405	405	405
H	Turning radius over wheels ³	mm	3902	3833	3906	3906	3906	3812	3812
I	Distance from front-wheel centre line to front of tool carrier	mm	1177	1177	1471	1272	1272	1372	1073
J	Distance from rear-wheel centre line to rear of machine (without hitch)	mm	977	977	784	784	784	784	784
K	Height to telescopic arm articulation point in frame	mm	1693	1693	1530	1530	1530	1530	1530
L	Rear approach angle	degrees	32	32	46	46	46	46	46
M	Tilt-in angle of pallet forks, bottom	degrees	20	20	12	13	13 ⁴	13 ⁴	13
N	Dump-out angle of pallet forks at max. overhead discharge height	degrees	44	42	20	44	44 ⁵	44 ⁵	44
	Total carriage swivel range	degrees	152	152	126	150	150 ⁶	150 ⁶	150

¹ 460/7024

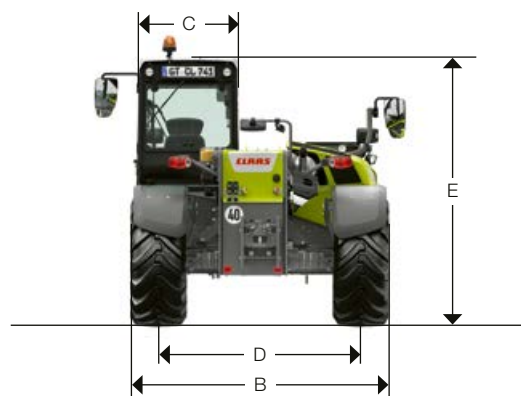
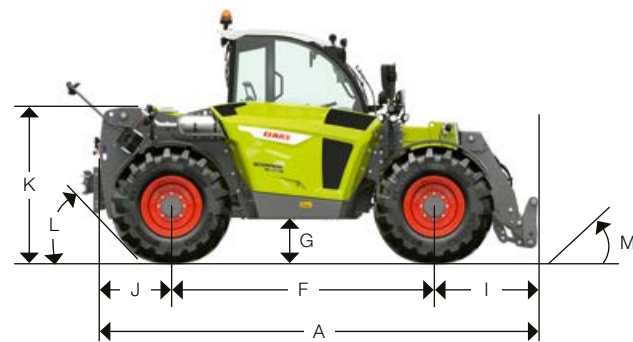
² May also be dependent on tyres

³ Theoretical value, turning radius varies according to tyres

⁴ With S-kinematics: 14 degrees

⁵ With S-kinematics: 19 degrees

⁶ With S-kinematics: 126 degrees



Ensuring a better **harvest.**

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