

NECTIS
VE VL F

CLAAS

More productivity
along the rows.



NECTIS 267 F

„Tractor of the year“

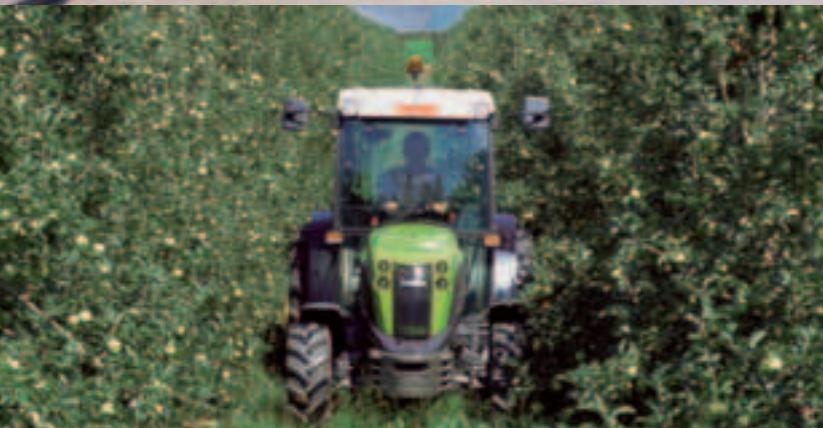




NECTIS 267 F
named 'Tractor of the
Year' in the special
tractor category
(wine-growing/
fruit-growing).

In October 2005 a jury of European agricultural engineering journalists awarded the CLAAS NECTIS 267 F the 'Tractor of the Year 2006' award. Following a stringent practical assessment alongside five competitors, the NECTIS was recognised for its overall performance. In particular, the jury praised the vehicle's engine performance, transmission, hydraulic system, comfort driver's cab, on-board electronics, innovative equipment, unique modern design and price/performance ratio. This result confirms the high level of satisfaction amongst NECTIS users.

CLAAS - Expertise in the tractor market.





The name of CLAAS is associated around the world with innovative, efficient agricultural machinery. Thanks to convincing technical concepts, our harvesting machines have won leading positions in the respective markets. Since October 2003, we have also been using our competence and know-how for the tractors of the CLAAS brand, providing the benefit of all the experience and quality that have characterised CLAAS agricultural machinery over the decades: efficiency, reliability, long maintenance intervals, comfortable working environment and reliable service!

Now this experience and expertise can be applied to your vineyard or orchard as well. A versatile specialist machine is now available in the form of our NECTIS. Its power and performance will have you reaping financial rewards in no time.

Advantages:

- Uncompromising performance
- Superb driving comfort
- Appealing design
- Technical innovations

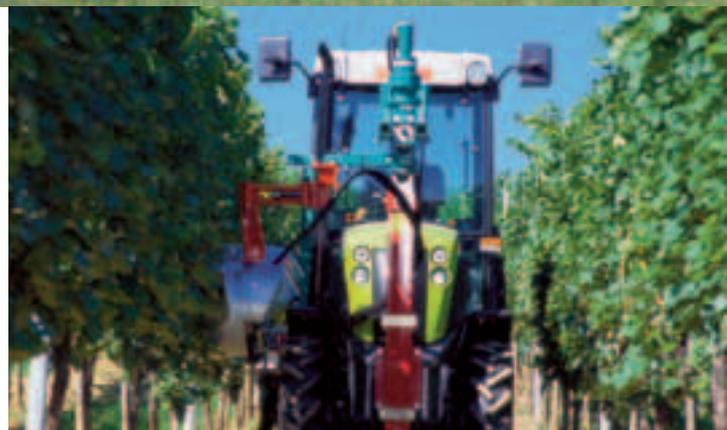


NECTIS - Flexibility within the context of a monoculture.

The NECTIS can be summed up by a single phrase: cutting-edge technology combined with a flexibility that is equal to any task. With three different widths available, it is suitable for all applications within the context of viticulture and fruit growing, whether in vineyards with narrow or wide rows or in orchards. Its high engine output of 68 to 101 HP (ISO TR 14396) will meet all your requirements and its impressive range of equipment means that it can be adapted to suit the individual working conditions of your business. There is a custom NECTIS waiting just for you.

NECTIS VE - the specialist machine for narrow vineyards.

The NECTIS VE is the narrowest model with an overall width of less than a metre in conjunction with the right tyres. For easy travelling along the rows of a traditional vineyard.



NECTIS VL - the professional machine for all situations.

In open areas, where it is no longer so much a matter of assessing the width down to the last centimetre as ensuring stability and performance, the powerful NECTIS VL is exactly what you are looking for.

NECTIS F - Powerhouse in action.

Powerful, packed full of comfort, new design with a minimum of corners and edges - the NECTIS F offers everything you need to ensure the conservation of your plantations.



The NECTIS is not just suited to viticulture and fruit growing; it is also ideal for use in glasshouses, within the context of vegetable growing and horticulture as well as in livestock buildings. Alternatively you can use it for the professional upkeep of golf courses, parks and sports facilities.



Fighting fit and
always at the
ready.



NECTIS impresses.

- Three different versions:
NECTIS VE, VL and F
- 11 models from 68 to 101 HP
- Wide variety of equipment
packages

	Rated power (kW/HP) ISO TR 14396	Rated power (kW/HP) ECE R 24	Minimum overall width (mm)	Cab width (mm)
NECTIS VE				
227 VE	50/68	49/66	1000	990
237 VE	58/79	57/77	1000	990
NECTIS VL				
227 VL	50/68	49/66	1240	1140
237 VL	58/79	57/77	1240	1140
247 VL	60/82	59/80	1240	1140
257 VL	66/90	65/88	1330	1140
267 VL	74/101	73/99	1330	1140
NECTIS F				
227 F	50/68	49/66	1450	1140
247 F	60/82	59/80	1450	1140
257 F	66/90	65/88	1500	1140
267 F	74/101	73/99	1500	1140

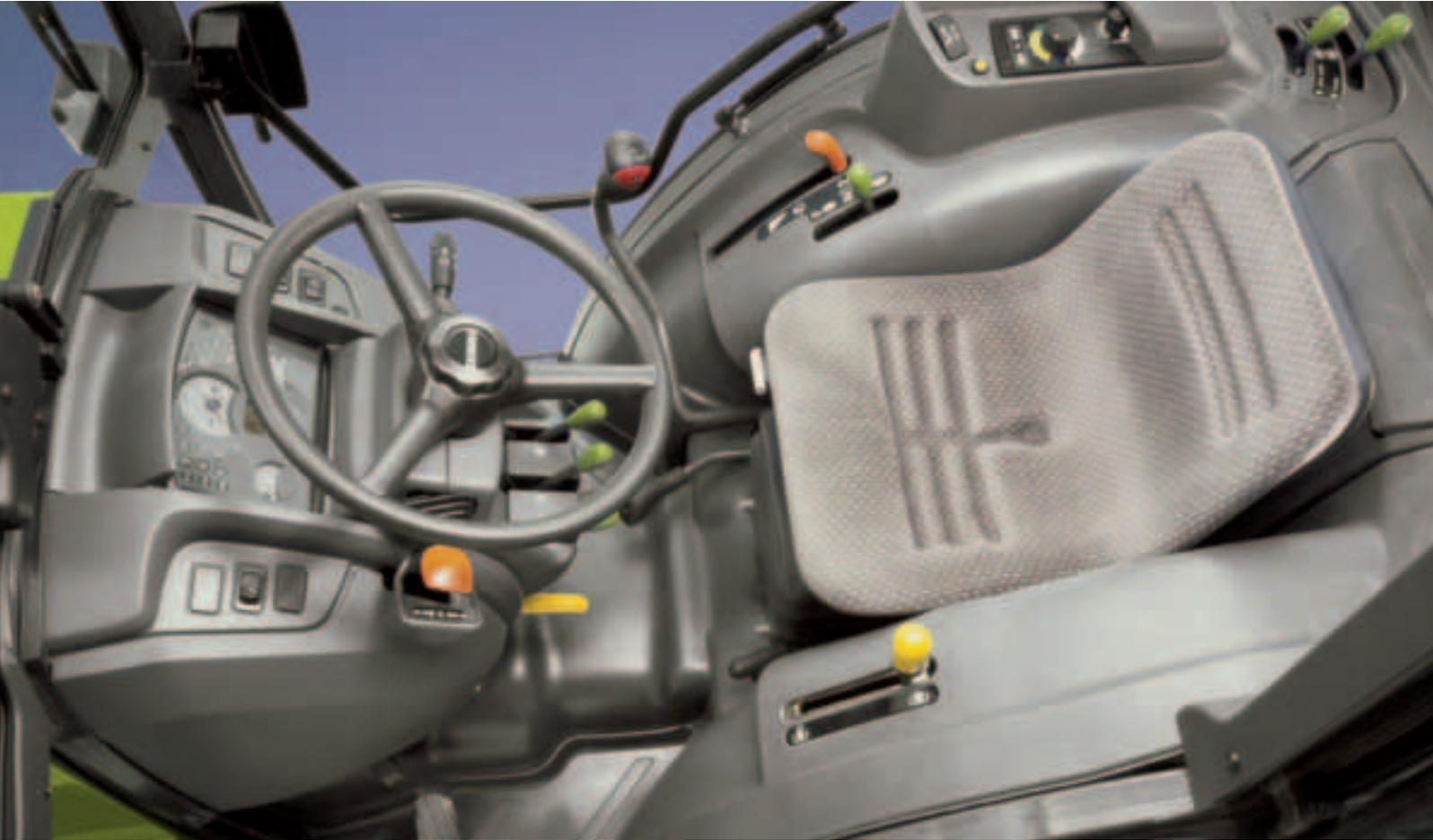
NECTIS
Flexibility

NECTIS - Working in comfort.

The vast majority of your working day is spent inside the cab and that is why we made comfort such a top priority when designing the NECTIS.

A workplace with plenty of room. Spaciousness is the be-all and end-all for any driver. Yet despite the generously proportioned cab, the NECTIS still manages to heed maximum width requirements. The wide opening doors make it easier to get in and out. The large glazed area provides excellent all-round visibility so that you always have a proper overview. All the operator controls are located within easy reach of the driver.





Intuitive operation.

All the operator controls are ergonomically arranged and rapidly become intuitive to the user. Consequently, having to waste time fiddling around is now a thing of the past. The control lever for the gears and shuttle reverser as well as the hydraulic controls are within immediate reach of the driver. You can switch on the PTO, set the linkage to the required position or operate the hydraulic control system all with a simple hand movement. The digital onboard display is easy to follow, has been well-designed right down to the last detail and has already proved itself in conjunction with the CELTIS tractor range. A single glance is all you need to have everything under control.



The driver's comfort and well-being is undoubtedly one of the crucial factors involved in ensuring a high daily output. On board the NECTIS there are numerous detailed solutions waiting to be discovered, which are sure to delight drivers of CLAAS harvesting machinery and CLAAS tractors alike.

Keeping you completely on track

Vibrations, noise, and dust are all factors that can disturb a driver's concentration. But when you are aboard the NECTIS there is no risk of distraction. The driver platform, which is mounted on silent blocks, keeps vibrations to an absolute minimum and the one-piece cab provides effective soundproofing. The well-sealed design, combined with the cab's singlepiece construction provides effective protection against the ingress of dust and chemicals. Even when working with heavy implements, at 81 db/A the noise level is surprisingly low.

The perfect way to avoid back tension.

The NECTIS enables you to adjust your driving position to suit your exact body measurements. The driver's seat and the steering column can be adjusted in numerous ways. All the operator controls are within easy reach of the sprung driver's seat, providing an immediate and accurate response.

Create the perfect working environment whatever the weather.

The NECTIS' powerful ventilation and heating system (with optional air-conditioning) ensures pleasant working conditions inside the cab all year round whatever the external weather conditions. The front and rear windows can be opened to provide additional natural ventilation. This also means that you can keep a close eye on any attached implements whenever you need to.



Relaxed
whatever
the situation.



Advantages from NECTIS comfort:

- Longer work days during peak work times
- Ergonomically arranged operator controls
- Spacious cab with all-round visibility
- Powerful climate control
- Effective soundproofing
- Relaxed and motivated drivers



NECTIS
Comfort

Ready for action
on any type of terrain.



Advantages:

- Unparalleled manoeuvrability
- Outstanding tractive power
- High level of safety



In addition to the high-output engine, powerful hydraulics and comfortable cab, the NECTIS offers numerous other advantages to help increase your productivity.

Unparalleled manoeuvrability.

Rapid and precise manoeuvring is the NECTIS' speciality. The special chassis design and steering angle of 55° facilitate a turning radius of just 3.6 m, depending on tyres. As a result, you will even be able to manoeuvre at the end of rows when space is limited. And by using the REVER-SHIFT reverser you will be able to achieve a considerably higher degree of flexibility when working with heavy or large implements.

Outstanding tractive power.

With its optimum weight distribution the NECTIS is bound to impress thanks to its outstanding tractive power and high stability. The servo-controlled four-wheel drive and differential lock mean that even the most stubborn of obstacles can easily be overcome.

Variable PTO power.

The NECTIS comes with a power take-off as standard which offers the following speeds: 540/540 eco; 540/1000 or ground speed PTO. The 100% transmission of the engine power to the PTO enables the use of power-hungry implements. The progressive activation control avoids jerks and jolts and prolongs the service life of your NECTIS and implements.

Safety creates peace of mind.

The powerful, wet brakes combined with automatic activation of four-wheel drive when braking make for maximum safety. As a result you can take control of critical driving situations in a flash.

Power in abundance.



The NECTIS' rear linkage combines extraordinary lifting capacity with precise control. It is quick to respond and can even lift heavy implements without difficulty.

Precise control.

If required, all NECTIS models can be fitted with the TCE 6 electronic linkage, which ensures even greater comfort, better safety and higher productivity levels. All the controls are located within easy reach and your implement is quickly and accurately engaged via a convenient fingertip control. Both rear wings feature external buttons to facilitate the attachment of implements.

Rapid coupling.

The robust and versatile implement coupling is another impressive solution offered by the NECTIS. It enables you to attach all your implements quickly and securely. The optional hydraulic lift rod enables precise control of the lifting gear even on slopes. Thanks to the hydraulic lateral stabiliser system (optional) the lifting gear always remains in the correct position. This results in excellent stability both when working and when on the road. The NECTIS F also allows for lateral adjustment of the lifting gear. In this way implements can be perfectly guided into position. Profitability and productivity increase.



You see NECTIS 257 VL and NECTIS 247 F, both with mechanical reverser



NECTIS impresses.

- Robust lifting gear with large lifting capacity
- TCE 6 electronic control
- Intuitive operation



NECTIS
Rear linkage TCE 6



Unbeatable when it comes to hydraulic power.



Advantages:

- Most powerful hydraulic system on the market
- 3-pump hydraulic system with total flow rate of 109 l/m
- Maximum of 8 connections for auxiliary spool valves at the rear
- Maximum of 6 connections for auxiliary spool valves at the front

For your convenience we have fitted the NECTIS with the most powerful hydraulic system currently available on the market. This enables you to use front, side and rear attaching implements simultaneously. All the implement's functions can be controlled from the operator's platform, thereby increasing your daily output.

Power from 3 pumps.

The 3-pump hydraulic system, optionally available with NECTIS tractors, is bound to impress thanks to its total flow rate: an ample 109 l/min. A pump with a capacity of 48 l/min supplies three auxiliary spool valves and the linkage. There is a separate 36 l/min pump for supplying a fourth spool valve. The task of the third pump with its capacity of 25 l/min is to supply the tractor. The results are clear. Even when the linkage is used at the same time as the steering system, there is still enough hydraulic power available to drive the motors of any implements. This means that you can be assured of optimum driving flexibility and manoeuvrability yet still achieve the same level of productivity.

Intelligence involving 4 systems.

If required, the NECTIS can be fitted with four auxiliary spool valves for implements. With a maximum of 8 hydraulic couplings at the rear and 6 hydraulic couplings on the side the NECTIS is able to assume the role of a real workhorse. The simple method for attaching implements to the rear, side and front of the vehicle results in additional time savings. Using the flow regulator, the speed of the implements can be rapidly adjusted to suit the relevant working conditions. There is also the option of having two auxiliary spool valves to control the hydraulic lower link stabilisers and the hydraulic lift rod. The control levers for operating the hydraulics have been ergonomically designed for intuitive operation.



NECTIS
Hydraulics



Regardless of where your NECTIS is to be deployed (whether in the vineyard, in the orchard or on the road) with its powerful transmission options it can meet all your requirements.

REVERSHIFT - Fingertip control over direction changes.

The control lever for the REVERSHIFT reverser is located within easy reach on the steering wheel. A simple touch with the tip of your finger is all that is required to change direction without having to press the clutch pedal. This enables you to manoeuvre rapidly, in a manner that is both convenient and saves time.

TWINSHIFT - Acceleration at the press of a button.

The TWINSHIFT doubler on the gearshift-lever knob enables you to alter your driving speed by pressing either of the two buttons, yet without any loss of tractive power. Shifting gears could not be any simpler or more effective.

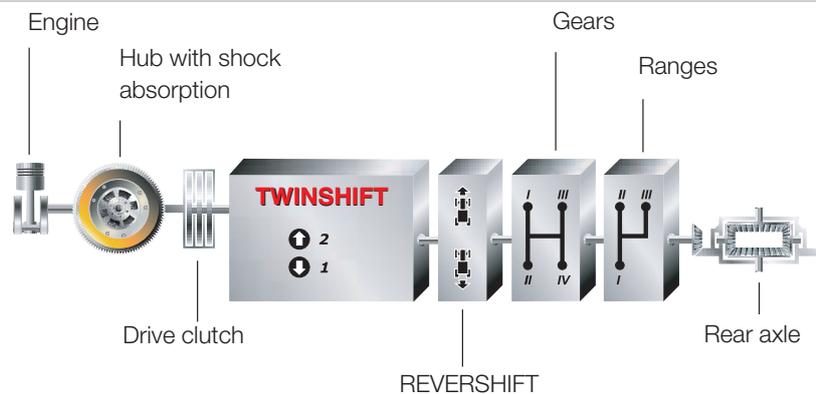
Shifting gears without the clutch pedal.

All CLAAS tractors that feature REVERSHIFT are equipped with a 3-point clutch system which provides a maximum of convenience and security within the context of everyday use. You can shift gears without the clutch pedal simply by making use of the button on the right-hand gearshift lever whether you are off-road or on-road. As well as offering this unique level of operating comfort, the REVERSHIFT reverser also enables starting and stopping of the vehicle.





Rapid gear shifting.



NECTIS impresses.

- Different transmission options
- REVERSHIFT reverser and TWINSHIFT doubler (optional)
- Optimum gearbox spacing

NECTIS
Transmission

101 HP - Performance that will impress.

With a horsepower of 101 HP (TR 14396), the NECTIS 267 occupies a prominent position within the 100 HP class of tractors. It is the only specialist tractor available for this high performance sector. Nevertheless, even if you decide on one of the four smaller engine options, opting for either 3 or 4 cylinders, the NECTIS will not fail to impress in terms of its performance, reliability, sturdiness and high torque. Exploit its power to increase your productivity.

A more than ample torque.

With its high torque and excellent torque back-up you will find overcoming obstacles child's play. The consistent performance guarantees optimum tractive power and PTO power.

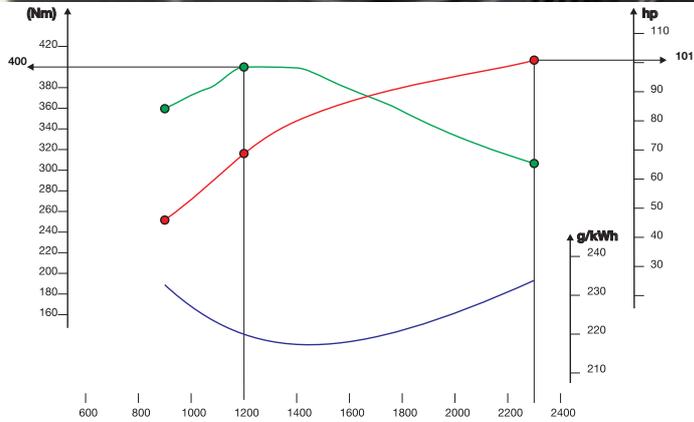
Economic fuel consumption.

The fuel-saving engines combined with a high-volume, easily accessible 68-litre tank ensure a large operating

range. Thanks to the optional 19-litre auxiliary fuel tank you can increase the total capacity to 87 litres. This will enable you to keep NECTIS down times to a minimum.

Long service intervals.

Long service intervals of 500 operating hours will cut your operating costs significantly. But what is more, we have made every effort to ensure that maintenance is as customer-friendly and straightforward as possible. The one-piece bonnet can be folded upwards in its entirety. This makes the engine and higher maintenance components such as the air filter and radiator extremely easy to access. The individual cooling elements can be moved or folded to enable easy cleaning. All this saves you time and money.



NECTIS impresses.

- 5 engines ranging from 68 to 101 HP (ISO standard)
- High degree of operational autonomy and economical fuel consumption
- Powerful, water-cooled engine
- Easy-maintenance one-piece bonnet

NECTIS
Power

FIRST CLAAS SERVICE®.



As a customer of CLAAS, you can be sure that the professional FIRST CLAAS SERVICE® Team is always there for you. Always when you need it. Always efficient and competent. Anywhere in the world. CLAAS importers and sales partners guarantee the best supply of replacement parts and the most reliable customer service.

Every minute counts. Especially when it is harvest time.

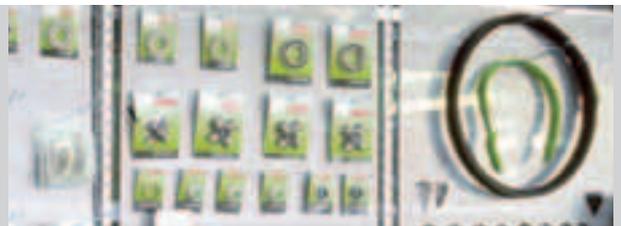
That is why you can be sure that we will provide you with original CLAAS parts at all times. On site immediately. In addition, our mobile diagnosis system makes it possible to conduct quick fault searches and find helpful updates-no matter where you are in the world. It's actually no surprise that we are receiving more and more praise for our FIRST CLAAS SERVICE® all the time, don't you think?

Think economically and secure your success!

The individualised CLAAS MAXI CARE® Service Package offers the highest level of safety. Maintenance service for more reliability and a flexible selection of a variety of components for warranty extensions help you manage, predict and understand your costs. Tailor-made options and combinations are available for your CLAAS machine:

- Service contract - maintenance service at a fixed price in accordance with the operator's manual.
- MAXI CARE® extend your warranty. Consult with an authorised CLAAS Sales Partner.

World-wide service network, efficient and competent. Original parts available all the time. Mobile diagnosis system for quick fault searches and on-site updates.



NECTIS

	NECTIS 227	NECTIS 237	NECTIS 247	NECTIS 257	NECTIS 267
Engine					
Manufacturer / type				N.E.F	
No. of cylinders/aspiration	3 Turbo	3 Turbo	4 N/A	4 Turbo	4 Turbo
Cubic capacity (cm ³)	3.364	3.364	4.485	4.485	4.485
Rated engine speed (rpm)	2.300	2.300	2.300	2.300	2.300
Rated power output – ISO TR14396 (kW/HP)	50/68	58/79	60/82	66/90	74/101
Rated power output – ECE R24 (kW/HP)	49/66	57/77	59/80	65/88	73/99
Max. torque (Nm)	267	310	330	366	400
Speed at max. torque (rpm)	1.400	1.400	1.400	1.400	1.400
Torque back-up (%)	27	29	28	33	29
Water-cooling	●	●	●	●	●
Viscous fan	●	●	●	●	●
Fuel tank (litres)	68	68	68	68	68
Auxiliary fuel tank (litres)	19	19	19	19	19
Vertical Exhaust	○	○	○	○	○
Horizontal Exhaust	●	●	●	●	●
Battery (V / Ah)				12 / 110	
Alternator (A)				90	
Oil change interval (hrs.)				500	

	NECTIS VE 227–237	NECTIS VL 227–237–247 257–267	NECTIS F 227 247–257–267
Transmission			
Mechanical reverser	12/12	12/12	12/12
Slow version – Min. / max. speed (km/h)	1,5/30	1,5/30	1,5/30
Creep version – Min. / max. speed (km/h)	0,5/30	0,5/30	0,5/30
Mechanical reverser + two-stage mechanical powershift	24/24	24/24	24/24
Min. / max. speed (km/h)	0,5/30–40	0,5/30–40	0,5/30–40
REVERSHIFT reverser / TWINSHIFT doubler	24/12	24/12	24/12
Min. / max. speed (km/h)	0,5/30–40	0,5/30–40	0,5/30–40
Rear axle			
Flange size (mm) – VE / VL / F (mm)	890	1240	1240
Electro-hydraulically/mechanically actuated differential lock	●	●	● / ○
Wet hydraulic brake	●	●	●
PTO			
Hydraulically / mechanically actuated	● / –	● / –	● / ○
PTO equipment	540; 540/540E; 540/1000	540; 540/540E; 540/1000	540; 540/540E; 540/1000
Ground speed power take-off	●	●	●
Rear wheel drive			
Two wheel drive:	227–237	227–237	–
Front axle (four-wheel drive)			
Front axle (High pivot point)	●	●	–
Front axle (Central pivot point)	–	–	●
Steering lock angle (°)	55	55	55
Camber angle VE / VL / F (°)	6	6	7
Turning circle (m)	3,60	3,45–3,65	3,50–3,65
Four-wheel drive engagement (actuated electro-hydraulically)	●	●	●

● standard ○ option – not available

	NECTIS VE 227-237	NECTIS VL 227-237-247 257-267	NECTIS F 227 247-257-267				
Hydraulics							
Single pump system (l/min)	-	-	36				
Rear hydraulic couplings (min./max.)	-	-	4-6				
Side hydraulic couplings (min./max.)	-	-	-				
Flow regulator	-	-	-				
Two-pump system	48 + 27	48 + 27	48 + 27				
Rear hydraulic couplings (min./max.)	4-8	4-8	4-8				
Side hydraulic couplings (min./max.)	2-6	2-6	2-6				
Flow regulator	o	o	o				
Working pressure (bar)	190	190	190				
Three-pump system	48 + 36 + 25	48 + 36 + 25	48 + 36 + 25				
Rear hydraulic couplings (min./max.)	4-8	4-8	4-8				
Side hydraulic couplings (min./max.)	2-6	2-6	2-6				
Flow regulator	●	●	●				
Brake valve	o	o	o				
Low-pressure pump (tractor supply)	25	25	25				
Linkage							
Max. lifting capacity (lower link / 610 mm) (kg)	2910/2860	3140/2870	3140/2870				
Max. lifting capacity over the entire range (lower link / 610 mm) (kg)	2900/1880	2990/2070	2990/2070				
Mechanical control – with / without cab	●	●	●				
EHR (TCE 6) with / without cab	o	o	o				
External linkage control (in conjunction with TCE 6)	o	o	o				
Lower link							
Hydraulic lift rod	o	o	o				
Hydraulic lift rod and hydraulic side stabilisers	o	o	-				
Hydraulic lift rod and hydraulic lateral adjustment	-	-	o				
Cab							
Without / with cab	● / o	● / o	● / o				
Analogue and digital instrument panel	●	●	●				
Adjustable steering column	o	o	o				
Air-suspension driver's seat	o	o	o				
Air conditioning (version with cab)	o	o	o				
	NECTIS VE 227-237	NECTIS VL 227-237	NECTIS VL 247	NECTIS VL 257-267	NECTIS F 227	NECTIS F 247	NECTIS F 257-267
Dimensions							
Rear tyres	9.5 R 28	11.2 R 28	11.2 R 28	16.9R28	360/70R24	14.9 R28	420/70R24
Front tyres	6.00-16	6.50-16	6.50-16	7.50 -18	10.0/75-15.3	260/70-20	280/70-20
Wheelbase (mm)	2065	2065	2185	2185	2065	2185	2185
Length with hitch / with front weights	3960	4015	4135	4135	4015	4135	4135
Min. overall width (mm)	1030	1240	1240	1560	1460	1460	1570
Ground clearance (mm)	235	275	275	275	290	290	350
Height at steering wheel centre (mm)	1455	1470	1470	1470	1380	1430	1430
Total height at cab roof (mm)	2300	2310	2310	2410	2280	2384	2325
Unladen weight, incl. fuel, not incl. driver or ballasting (kg)							
Without cab – rear-wheel / four-wheel drive (kg)	2370/2475	2400/2550	-/2675	-/2750	-/2600	-/2690	-/2850
With cab – two wheel / four-wheel drive (kg)	2535/2640	2620/2770	-/2885	-/2960	-/2870	-/2960	-/3060
Min. / max. ballasting (kg)	154/184	154/184	154/184	154/184	154/184	154/184	154/184

CLAAS continuously strives to match all products to practical requirements. We therefore reserve the right to change technical specifications. Information and illustrations are only to be considered as an approximation and may include optional equipment that is not supplied as standard. This leaflet has been printed for worldwide use. Please refer to the price list of your CLAAS sales partner regarding the technical equipment. On some photos, protective devices have been removed in part to illustrate the function. All machines are supplied in accordance with applicable machinery directives.

Convincing arguments.

- Three versions: NECTIS VE, VL and F
- 11 models ranging from 66 to 99 HP (ECE R24)
- Wide variety of equipment packages
- Cab is extremely comfortable, for a simple and safe operation
- Wide variety of transmission options
- REVERSHIFT reverser and TWINSHIFT doubler
- Five engines ranging from 66 to 99 HP (ECE R24)
- One-piece bonnet makes for easy maintenance
- Most powerful hydraulic system on the market - total flow rate of up to 109 l/min
- Versatile attachment options
- Powerful rear linkage
- Precise control of the lifting gear using TCE 6
- Unique manoeuvrability
- Low maintenance costs and short maintenance times
- FIRST CLAAS SERVICE®
- NECTIS: Recognised by a European expert jury



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