



CLEAN POWER



The Vanguard 65 range is equipped with a Rehlko engine, formerly known as Kohler, a **3-cylinder Turbo Intercooler delivering 56 hp.**

The advanced common-rail system ensures durability, performance, and low fuel consumption.

The reduction of harmful emissions released into the environment is further guaranteed by the presence of anti-pollution devices: Diesel Particulate Filter, Diesel Oxidation Catalyst and Exhaust Gas Recirculation system.

In addition to conventional diesel, the engine can be powered – interchangeably and without modifications – with **renewable HVO fuels**, which allow for up to 90% reduction in greenhouse gas emissions and contribute to more sustainable agriculture.



MAXIMUM EFFICIENCY

The 'Made in BCS' transmission is equipped with a 12-speed forward plus 12-speed reverse gearbox with synchronised reverser and a multi-disc in oil bath clutch:

- The **24-speed synchronised gearbox** allows you to always select the most appropriate gear for the job at hand, making the Vanguard 65 highly productive in all circumstances. The synchronised inverter also allows rapid changes of direction offering an important advantage during jobs requiring frequent reversals.
- The **wet multi-disc clutch** is significantly softer and better performing than conventional dry clutches. The adoption of this type of hydraulic clutch, fitted within the transmission, brings numerous concrete advantages: greater durability, maintenance-free and maximum manoeuvrability thanks to the tractor's more compact dimensions.



ADVANCED HYDRAULICS

The hydraulic system consists of **two independent pumps:**

- one 17 I/min pump dedicated exclusively to steering and electro-hydraulic controls,
- the other 22 I/min pump dedicated to the rear lift and hydraulic outlets.

The high oil flow to the hydraulic outlets – with an optional **oversized pump delivering 30 I/min and heat exchanger** – allows the use of all modern equipment for vineyard and orchard management, as well as for municipal and green maintenance applications.

Two systems are available for actuating the rear control valves: via mechanical control valves or via a **multifunctional electronic joystick**.

A multi-disc oil-bath clutch drives the rear PTO, which is independent of the gearbox and synchronized with the tractor's forward motion, featuring two speeds: 540 and 540E.



COMFORT AND 360° VIEW

The 'Vista Clima' cab with four uprights features a conical and compact profile to easily exit tight rows, also on side slopes.

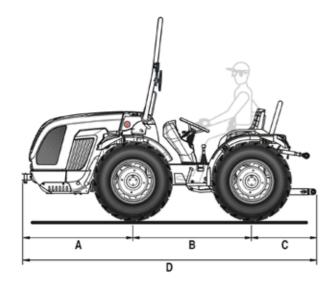
Thanks to the large fully glazed windows and portholes, present both at the bottom and on the roof, the 'Vista Clima' cab offers a **360° unobstructed view** of the wheel track, attachments and surroundings.

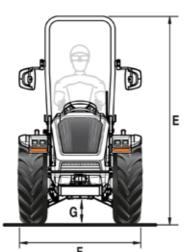
Equipped with standard ventilation, heating and air conditioning, the cab makes the working environment highly comfortable in every season of the year.

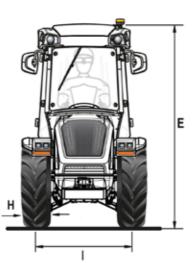
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VANGUARD 65 AR







А	В	С	D	E min / max (with roll-bar)	E min / max (with cab)	F min / max	G min / max
1248	1390	779	3417	2195 / 2270	2087 / 2132	1002 / 1438	200 / 275

Dimensions in mm

	8.25-16	210/95 R16	250/80-18	280/70 R18	280/70R18 Garden
	with adjustable rim				
н	212	208	240	282	282
1	794 / 1110	794 / 1110	865 / 1107	869 / 1119	869 / 1119
F	1006 / 1322	1002 / 1318	1105 / 1347	1151 / 1401	1151 / 1401

	320/65 R18	260/70 R20	31x15.50-15 XTC	31x15.50-15 STG	33x15.50-15 XTC
	with adjustable rim	with adjustable rim	with fixed rim	with fixed rim	with fixed rim
н	319	258	368	394	391
1	931 / 1119	846 / 1120	1003	1003	1003
F	1250 / 1438	1104 / 1378	1371	1397	1394

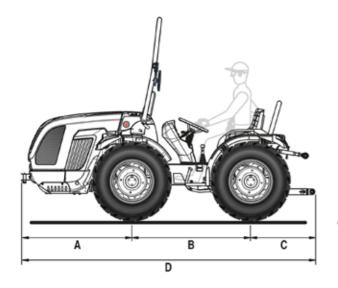
Dimensions in mm - min / max

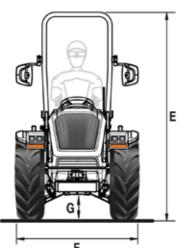
H = Tyre width - I = Wheel track - F = Tractor width

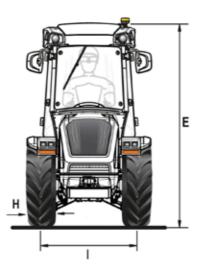
TECHNICAL FEATURES	VANGUARD 65 AR			
ENGINE	Rehlko KDI 1903 TCR Diesel common rail direct injection Turbo intercooler 3 cylinders 1861 cc Liquid cooling Stage V			
Power	42 kW / 56 hp @2600 rpm Max torque 190 Nm@1500 rpm			
Engine speed management	Electronically regulated with hand throttle knob and button with functions for: memorize/recall/exclude the set engine speed			
CHIASSIS	Swinging integral chassis (±15°) OS-FRAME with central articulation			
DRIVE	Permanent four-wheel drive			
FRANSMISSION	24-speed synchronised gearbox: 12 FWD and 12 REV with synchronised reverser			
Min/max forward speed (km/h)	0.7 / 32			
Fransmission clutch	Multidisc in oil bath			
DIFFERENTIAL	Front and rear with simultaneous locking and electro-hydraulic control			
AXLES	Front and rear with planetary reduction units			
REAR PTO	Independent from the gearbox and synchronised with forwarding speed. Negative safety hydraulic brake to stop the PTO			
PTO clutch	Multidisc in oil bath with electro-hydraulic control			
PTO rotation speed (rpm)	540/540E			
HYDRAULIC SYSTEM	Dual circuit with independent pumps			
Hydraulic flow rate of the power steering and electro-hydraulic controls (I/min)	17			
Hydraulic flow rate of the lift and control valves (I/min)	22 (optional: oversized pump with 30 l/min flow rate and heat exchanger)			
Maximum hydraulic pressure (bar)	180			
REAR LIFT	By two external cylinders. Standard: up/down lift - Optional: position and draft-controlled			
-point implement hitch	Standard: normal couplings cat. 1 - Optional: quick-couplings cat. 1 and 2, L-shaped (arms adjustable in length and hooks adjust in width)			
hird point tie rod	Standard: with manual adjustment - Optional: hydraulically controlled upper link and tie rod link arm (only for lift with L-shaped are			
Ball joint lifting capacity (kg)	1510			
REAR CONTROL VALVES	Mechanically controlled			
Standard	With rear up/down lift: 1 double-acting and free flow oil return (total 3 hydraulic outlets) - With position and draft-controlled rear lift: 1 double-acting, 1 multifunctional double-acting and free flow oil return (total 5 hydraulic outlets)			
Optional	With rear up/down lift: up to 7 hydraulic outlets in total and free flow oil return			
loystick (optional)	Proportional electronic control of rear lift and control valves consisting of: 1 continuous flow with adjustable flow rate and free flow or return, 3 double-acting (replacing the standard ones), oversized pump and heat exchanger (total 8 hydraulic outlets)			
DRIVING POSITION	Monodirectional or reversible with rotating platform suspended on silent blocks and twin pedal assembly			
Steering wheel	Height adjustable			
Seat	Comfort seat with adjustable suspension according to the operator's weight, safety belt and man-on-board sensor			
SERVICE BRAKES	Multidisc in oil bath with mechanical control, acting on the rear wheels			
Parking brake	Acting on service brakes			
STEERING	Hydrostatic steering with two steering cylinders acting on the central joint. Flow deviator for steering unit in the reversible version			
SAFETY	Front homologated roll-bar with gas spring for easy lowering and lifting			
CABIN (optional)	VISTA CLIMA model, homologated and soundproofed with monocoque body with a 4-upright suspended on silent block. Ventilation heating and air-conditioning system. Fabric seat, car radio preparation, LED beacon lamp, front and rear LED working lights			
DASHBOARD	Instrument panel with analogue gauges and TFT digital colour display			
Standard equipment	Vehicle Control Unit, LED street light and indicator system, single-pole dashboard socket, rear 7-pin socket			
TYRES	Tractor: 8.25-16 * 210/95R16 * 250/80-18 * 280/70R18 * 320/65R18 * 260/70R20 Garden: 280/70R18 Terra Tyre: 31x15.50-15 XTC * 31x15.50-15 STG * 33x15.50-15 XTC			
TOW HOOKS	Standard: front and rear CUNA cat. B adjustable in height - Optional: rear tow hook EC approved or EC with Slider frame or CUNA with Slider frame or EC tow bar with Slider frame			
RUNNING ORDER WEIGHT	With roll-bar: 1625 kg - With cabin: 1770 kg			
ADDITIONAL OPTIONS	Self Cleaning System™, front bumper, beacon lamp, front LED working lights, rear adjustable working light, front weights 110 kg total			



VANGUARD 65 RS







Α	В	С	D	E min / max (with roll-bar)	E min / max (with cab)	F min / max	G min / max
1248	1390	779	3417	2195 / 2270	2087 / 2132	1207 / 1643	200 / 275

Dimensions in mm

	8.25-16	210/95 R16	250/80-18	280/70 R18	280/70 R18 Garden
	with adjustable rim				
н	212	208	240	282	282
1	999 / 1305	999 / 1305	996 / 1312	984 / 1324	984 / 1324
F	1211 / 1517	1207 / 1513	1236 / 1552	1266 / 1606	1266 / 1606

	320/65 R18	260/70 R20	31x15.50-15 XTC	31x15.50-15 STG	33x15.50-15 XTC
	with adjustable rim	with adjustable rim	with fixed rim	with fixed rim	with fixed rim
н	319	258	368	394	391
1	1074 / 1324	987 / 1325	1100 / 1208	1100 / 1208	1100 / 1208
F	1393 / 1643	1245 / 1583	1468 / 1576	1494 / 1602	1491 / 1599

Dimensions in mm - min / max

H = Tyre width - I = Wheel track - F = Tractor width

TECHNICAL EEATURES	VANGUARD 65 RS
TECHNICAL FEATURES	
ENGINE	Rehlko KDI 1903 TCR Diesel common rail direct injection Turbo intercooler 3 cylinders 1861 cc Liquid cooling Stage V
Power	42 kW / 56 hp @2600 rpm Max torque 190 Nm@1500 rpm
Engine speed management	Electronically regulated with hand throttle knob and button with functions for: memorize/recall/exclude the set engine speed
CHIASSIS	Swinging integral chassis (±15°) OS-FRAME with steering wheels
DRIVE	Permanent four-wheel drive
TRANSMISSION	24-speed synchronised gearbox: 12 FWD and 12 REV with synchronised reverser
Min/max forward speed (km/h)	0.7 / 32
Transmission clutch	Multidisc in oil bath
DIFFERENTIAL	Front and rear with simultaneous locking and electro-hydraulic control
AXLES	Front and rear with planetary reduction units
REAR PTO	Independent from the gearbox and synchronised with forwarding speed. Negative safety hydraulic brake to stop the PTO
PTO clutch	Multidisc in oil bath with electro-hydraulic control
PTO rotation speed (rpm)	540/540E
HYDRAULIC SYSTEM	Dual circuit with independent pumps
Hydraulic flow rate of the power steering and electro-hydraulic controls (I/min)	17
Hydraulic flow rate of the lift and control valves (I/min)	22 (optional: oversized pump with 30 I/min flow rate and heat exchanger)
Maximum hydraulic pressure (bar)	180
REAR LIFT	By two external cylinders. Standard: up/down lift - Optional: position and draft-controlled
3-point implement hitch	Standard: normal couplings cat. 1 - Optional: quick-couplings cat. 1 (arms not adjustable in length) or quick-couplings cat. 1 and 2, L-shaped (arms adjustable in length and hooks adjustable in width)
Third point tie rod	Standard: with manual adjustment - Optional: hydraulically controlled upper link and tie rod link arm (only for lift with L-shaped arms)
Ball joint lifting capacity (kg)	1510
REAR CONTROL VALVES	Mechanically controlled
Standard	With rear up/down lift: 1 double-acting and free flow oil return (total 3 hydraulic outlets) - With position and draft-controlled rear lift: 1 double-acting, 1 multifunctional double-acting and free flow oil return (total 5 hydraulic outlets)
Optional	With rear up/down lift: up to 7 hydraulic outlets in total and free flow oil return
Joystick (optional)	Proportional electronic control of rear lift and control valves consisting of: 1 continuous flow with adjustable flow rate and free flow oil return, 3 double-acting (replacing the standard ones), oversized pump and heat exchanger (total 8 hydraulic outlets)
DRIVING POSITION	Monodirectional or reversible with rotating platform suspended on silent blocks and twin pedal assembly
Steering wheel	Height adjustable
Seat	Comfort seat with adjustable suspension according to the operator's weight, safety belt and man-on-board sensor
SERVICE BRAKES	Multidisc in oil bath with mechanical control, acting on the rear wheels. Independent manoeuvring brakes acting on the rear wheels
Parking brake	Acting on service brakes
STEERING	Hydrostatic steering with two steering cylinders acting on the front wheels. Flow deviator for steering unit in the reversible version
SAFETY	Front homologated roll-bar with gas spring for easy lowering and lifting
CABIN (optional)	VISTA CLIMA model, homologated and soundproofed with monocoque body with a 4-upright suspended on silent block. Ventilation, heating and air-conditioning system. Fabric seat, car radio preparation, LED beacon lamp, front and rear LED working lights
DASHBOARD	Instrument panel with analogue gauges and TFT digital colour display
Standard equipment	Vehicle Control Unit, LED street light and indicator system, single-pole dashboard socket, rear 7-pin socket
TYRES	Tractor: 8.25-16 * 210/95R16 * 250/80-18 * 280/70R18 * 320/65R18 * 260/70R20 Garden: 280/70R18 Terra Tyre: 31x15.50-15 XTC * 31x15.50-15 STG * 33x15.50-15 XTC
том ноокѕ	Standard: front and rear CUNA cat. B adjustable in height - Optional: rear tow hook EC approved or EC with Slider frame or CUNA with Slider frame or EC tow bar with Slider frame
RUNNING ORDER WEIGHT	With roll-bar: 1660 kg - With cabin: 1800 kg
ADDITIONAL OPTIONS	Dual Floating System [™] hydraulic suspension including 5 hydraulic outlets and free flow oil return, Self Cleaning System [™] , front bumper, beacon lamp, front LED working lights, rear adjustable working light, front weights 110 kg total and wheel weights 45 kg each

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THE SERVICES



SPARE PARTS

A complete range of original spare parts, guaranteeddirectly by the manufacturer.



ASSISTANCE

A team of specialists, well prepared and available to assure an efficient and resolving service.



LUBRICANT

We recommend to use the original PowerLube lubricants.



MADE IN ITALY