

VOLCAN K105 The future is here

Volcan K105 tractors are specialised machines matching most advanced 'made in BCS' technology and top production efficiency, along with environmental care.

The electronically-operated Stage IIIB 98 HP engine complies with the strictest European standards as for emission control: a supremacy among isodiametric tractors translating into lower consumption, less toxic emissions and higher operating comfort.

Innovative technical content, elegant design and reduced overall dimensions make **Volcan K105 indispensable machines for future agriculture.**





Engine

Clean power

New Volcan K105 tractors come with a 4-cylinder, 3.8 l Kubota engine, with 98 HP at 2400 rom.

The latest generation Common Rail engine ensures **a precise injection control**, and therefore a more efficient combustion, improved performance and less fuel consumption.

Devices such as EGR (the exhaust gas recirculation system), the DOC (diesel oxidation catalyst) and the DPF (diesel particulate filter), whose regeneration takes place automatically during work, dramatically reduce toxic substances emitted into the environment.

Counter-rotating shafts of the engine reduce vibrations to the advantage of the heard noise and the higher operating comfort.



The electronically-managed engine has an electronic control unit that ensures a correct operation of the power unit and sets the revolution number, keeping it constant.

The engine rpm electronic management has been entirely developed by BCS Group; it is fast and precise, through the dashboard located at the right of the steering wheel and operates: speed increase and decrease, set speed setting and recalling, electronic governor switching off and shifting to idle speed.



A correct setting of the speed while working means:

- steady tractor inching speed
- steady PTO revolutions
- steady hydraulic flow

and, what is more, the set speed can be recalled by simply pressing one button, thus improving work efficiency and saving time and fuel.

TECHNICAL SPECIFICATIONS	
Model	Kubota V3800 CR-TE4
Emission level	Stage IIIB
No. of cylinders	4
Intake	Turbo
Displacement	3769 cc
Injection	Direct Common Rail
Power kW/HP	72,1 / 98
Rated speed	2400 rpm
Maximum torque	330 Nm @1500 rpm
Cooling	Liquid
Balancing	Counter-rotating shafts







Transmission

OS-Frame

The transmission of the Volcan K105 features the exclusive OS-Frame, with many advantages.

ADVANTAGES

- Engine and clutch are reciprocally connected by a single transmission shaft that transmits movement to both transmission and independent PTO, through a single central cardan joint, guaranteeing top mechanical performance, compact dimensions and larger steering angles, indispensable while working in narrow areas.
- The coupling of engine and OS-Frame is made by an high inertia flywheel which reduces vibrations to the advantage of performance and higher operator's comfort, along with the 'Long Travel' torsional damper.
- A joint located in the center section of the tractor makes the front axle swing up to 15° with respect to the rear axle, stabilising geometry on gradients or rough grounds and guaranteeing maximum traction of the four wheels, with full grip on the ground.

Synchronised gearbox

The synchronised gearbox is formed by 4 ranges and 4 speeds, for a total of 16 ratios both in forward and reverse, with synchronised reverser.

The logic sequence of speeds (from 700 m/h to 40 km/h) - without any overlapping for all ranges - allows you to select the best gear for the required use, making the tractor's use more rational with: fuel saving, reduced stress on mechanical components, reduced engine strain and above all improved quality of work.

Long life clutch

The clutch is **multiple disc in oil bath type; its hydraulic control is proportional and electronically managed.** It modules engagement and releases in a punctual way and the clutch results softer and more performing than traditional dry clutches.

The clutch is hydraulically controlled by a proportional solenoid valve connected to an electronic control unit; the latter reads the pedal position through a potentiometer and guarantees an improved progressiveness so that the operator can control the tractor more and more precisely.

Volcan K105 tractors use this type of **evolved hydraulic clutch placed inside the transmission, to reduce engine projection and the tractor's length.** A technological choice bringing about concrete advantages.

ADVANTAGES

- Longer life;
- · No maintenance;
- Top manoeuvrability thanks to the reduced overall dimensions.

Pro-Act System

The clutch engaging pedal comes with the Pro-Act System, a system for a more comfortable and ergonomic movement of the foot on the pedal. The operator feels modulation more precisely.





Electrohydraulic reverser

Volcan K105 transmission can be equipped with the **exclusive electronically-operated reverser, with EasyDrive electronic handling.**

The comfortable reverser lever on the left of the steering wheel allows the operator to reverse the driving direction without lifting the hands from the steering wheel and without using the clutch pedal, while keeping the vehicle control at all times.

The EasyDrive® electrohydraulically-operated reverser is especially handy and easy to use for all those works requiring many direction changes, such as greenery maintenance, material handling with fork lift, snow moving works or for movements at the headland in vineyards and orchards.

The electronic system was entirely developed and produced by BCS Group: a set of sensors detect the dynamic conditions of the tractor and handles the transmission clutch, the reverser and the brakes, adapting the tractor's behaviour to the work conditions.

The most important difference vs conventional reversers is the **dynamic control of brakes**: the electronic control unit operates the brakes depending on the inching speed and guarantees drive reversal with a preset deceleration, reducing manoeuvring times and increasing operating safety.

For the best feeling between you and your tractor, **the operator can modify the system reactiveness in 5 different levels** (from 'soft' to 'aggressive'), depending on the different working needs, through the two buttons located close to the lever.

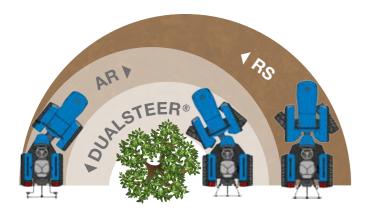
Agility

Steering

All specialised tractors must be handy to manage so that they can be operated in very narrow areas.

Volcan K105 tractors have a matchless manoeuvring capacity, thanks to their short wheelbase and their compact dimensions.

The steering wheel is power assisted, through a dedicated hydraulic system. The manoeuvres are precise and the turning radiuses are very small both in models with steering wheels and in those with central articulation, and especially in Dualsteer® versions.



Dualsteer®

Dualsteer® is internationally patented and is unique on the market: it is a **double steering system joining the central joint of the frame to the steering of front wheels**, the steering angle can reach 70° .

The two hydraulic cylinders in the central joint increase both the power of steering, with high precision at extremely low speeds, and directionality and stability during road transport at high speed.

ADVANTAGES

- Safety and stability typical of steering wheel version;
- Performance while steering and manoeuvring easiness typical of version with central joint;
- · Performing on any ground, even with high gradient;
- These machines are indispensable for works in narrow vineyards, in greenhouses, gardening and greenery maintenance.



Top efficiency



Hydraulic system

The hydraulic system has **two circuits with independent pumps and heat exchanger** for oil cooling.

The pump for the power steering and electrohydraulic controls has a flow rate of 33 l/min, while that for lifts and remote control valves a flow rate of 30 l/min. An oversized system is available as optional, with lift pump with flow rate of 49 l/min.



Joystick

The new electronically-operated multifunction joystick (available as an optional) allows the hydraulic system and the lifts to be controlled at the same time through a single device; in this way, all operations involving the tractor hydraulic system can be performed safely and easily.

A numbered knob integrated in the armrest can be used to adjust the system sensitiveness

PTO and lifts

The rear PTO, with multiple-disc clutch in oil bath is **independent from the transmission and is synchronised with all progress speeds.** It can be engaged also while driving through an electrohydraulically-operated control located on the dashboard (equipped with safety system for involuntary operation); the speed is 540/540E rpm or, as an optional, 540/1000 rpm.

The **sturdy rear lift** has multipurpose fittings category 1 and 2 to fit simply and quickly all attachments available on the market. The high lifting capacity of 2300 kg increases to 2700 kg for SDT versions.

Optional equipment include a rod and a hydraulic tie rod for adjusting the implement directly from the driver's seat, as well as a **performing front lift**, with hydraulic outlets, indispensable when using combined implements.







Active and passive safety

Operating safety

The use in full safety, on high gradients and crosswise, is guaranteed by the project geometry of Volcan K105 tractors, featured by a low centre of gravity and the very good balancing of weights on the axles (50% at the front - 50% at the back), with implement coupled to the rear lift.

The operator's seat with approved roll-bar or cab, the safety belt secured to the seat and the quality of the materials used guarantee top protection for the operator in each and every condition.

The differential lock, simultaneous front and rear or rear only, is electrohydraulically operated and the tractor can be in traction all the time.

The disengagement of front drive, through an electrohydraulic control, improves road transfers and protects especially delicate grounds.

Braking system

The braking system is formed by four disc brakes in oil bath intervening simultaneously and continuously on all four wheels, even when the front drive is released, as they are supported by a hydrostatic control acting as braking divider.

The **independent Brake-off parking brake** is exclusive to Volcan range: **it automatically engages when the engine is switched off.** When the tractor is moving an electrohydraulically-operated handy button on the dashboard is used to engage it.



Approved cabs

Comfort cabs

Comfort cabs create a **good living environment in the compartment** and were designed with a streamlined silhouette to **protect the greenery rich in vegetation** they need to work in.

Interiors are refined and the platform is hanging on silent-blocks; it's completely independent from the tractor frame. All cabs have large glassy windows and glass roof for top visibility of the operator even when the driver's seat is in reverse position.

The cabs are equipped with air conditioning and cooling system; they can have a tapered structure to be used in narrow vineyards located on gradients.

Compact AIRTECH cabs

For SDT versions the **new Compact AIRTECH cabs** are available, **pressurised and approved for Category 4**, insulating operators from toxic inhalation during phytosanitary treatments, for a healthy and safe working environment, also thanks to two large activated charcoal filters installed at the front. Pressurization and internal and external temperature are monitored on a digital display.



The **low-profile single-body frame with low clearance from the ground** makes the use under the foliage, in trellis vineyards and greenhouses extremely easy. The structure, being suspended on silent-blocks, dampens noise and vibrations

The air conditioning/heating system is automotive type with vents at the front of the operator, for the best temperature and distribution of the air flow.



Functional design

Overstructures

Volcan K105 tractors feature an **aggressive look, at the same time elegant and functional**, with a muscular line that guarantees at the same time the best visibility for the operator, all this thanks to the introduction of new technological solutions and of the new power unit.

In addition to the four front light clusters on front fenders, two LED beams above the hood grill increase the lighted area favouring overnight work or in case of poor visibility.

Maintenance and inspection operations of the engine compartment are quick and handy, thanks to the large opening angle of the bonnet.

All under control

The new, automotive-inspired dashboard is a concentrate of digital technology. The **multifunction colour display** continuously keeps under control - with top precision - any value of the machine and all diagnostic warning indicators of the tractor, in addition to the electrohydraulically-operated logically placed and easy traceable controls

Analogue warning indicators are available for a quick and immediate read-out of the values, thanks to their dials.









The most complete range

To blaze a new trail, you need courage and vision, as well as experience and expertise. All these competences have always been belonging to BCS and now they are revolutionarily applied to the Volcan K105 tractor range.

Five different versions of tractors, each one developed for the special requirements we are stimulated to satisfy by our customers, one day after the other.

Volcan K105 AR

Reversible isodiametric tractors, with central articulation: the reference version for specialised agriculture and for city works thanks to their narrow track and reduced steering radius.

Volcan K105 RS

Reversible isodiametric tractors, with steering wheels: they are the conventional version and the one that mostly fits to multifunction works, on gradients as well, thanks to its high stability and grip.

Volcan K105 DUALSTEER®

Reversible isodiametric tractors, with double steering system, getting a steering angle of 70° , the best one for its category, for an agile and quick movement in narrow areas.

Volcan K105 MT

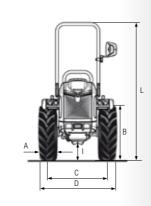
Reversible isodiametric tractors, with steering wheels: they are dedicated to forage harvesting, even uphill, thanks to their low centre of gravity and to the enlarged driving place.

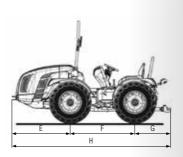
Volcan K105 SDT

Monodirectional tractors, with short-wheel base and differentiated wheels: they are specially recommended both for specialised agriculture in vineyards, orchards and greenhouses and for typical works of conventional tractors.

Volcan K105 AR

	250/80R18	11.5/80-15.3	280/70R18	320/65R18	250/85R20	300/70R20
	with adjustable rim	with fixed rim	with adjustable rim	with adjustable rim	with adjustable rim	with adjustable rim
A Tyre width (mm)	240	290	282	320	245	286
B Tyre diameter (mm)	879	888	849	873	940	942
C Wheel track min/max (mm)	898/1112	948/972	1022/1112	1022/1112	882/1230	996/1260
D Width min/max (mm)	1138/1352	1238/1262	1304/1394	1342/1432	1127/1475	1282/1546





	320/70R20	340/65R20	31x15.50-15 XTC	31x15.50-15 STG	33x12.50-15 T413	13.6-16 Garden
	with adjustable rim	with adjustable rim	with fixed rim	with fixed rim	with fixed rim	with fixed rim
	316	343	368	394	325	391
	975	958	800	800	843	968
C Wheel track min/max (mm)	996/1260	996/1260	1016	1016	959/965	1240
D Width min/max (mm)	1312/1576	1339/1603	1384	1410	1284/1290	1631



TANDARD cabin

Dimensions Volcan K105 AR (mm):							
	F	G		l min/max	L min/max	M min/max	N min/max
1348	1495	882	3725	161/271	2254/2364	2070/2180	2139/2249

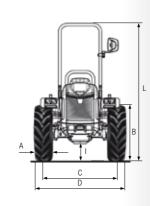


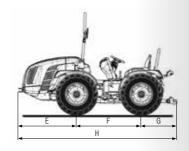
CONICAL cabin

	BC
TECHNICAL FEATURES	Volcan K105 AR
ENGINE Number of sufficients	KUBOTA V3800 CR-TE4
Number of cylinders	4 in-line
Displacement (cm³)	3,769
Intake	Turbo
Fuel system	Direct injection "Common rail"
Emission level	Stage 3B
Balancing Page 4 AMAID	Counter-balance shafts
Power (kW/HP)	72.1/98
Rated speed (rpm)	2,400
Maximum torque (Nm/rpm)	330 / 1,500
Speed management	Electronically regulated with a consolle with functions: increase and decrease of engine speed, memorize and recall a particular speed or switch off the electronic throttle and go to the minimum idle speed
Cooling	Liquid
Tank capacity (It)	54
CHASSIS	Swinging integral chassis OS-FRAME with central articulation
DRIVE	Four-wheel drive. Front-wheel drive disengagement with electro-hydraulic control
TRANSMISSION	32 speeds synchronized gearbox: 16 FWD and 16 REV with synchronized reverser
	Electro-hydraulic power shuttle electronically actuated with the lever (with 3 position FWD-N-REV) installed on the left of steering wheel.
POWER SHUTTLE EASYDRIVE® (optional)	Possibility to choose from 5 levels of reactivity
Transmission clutch	Multidisc in oil bath electronically-managed and proportional hydraulic control with PRO-ACT System
DIFFERENTIAL	Front and rear. Differential lock: front and rear simultaneously or only rear with electro-hydraulic control
AXLES	Front and rear with epicyclic reduction units. Front axle, oscillating in the middle (approx. ±15°)
REAR PTO	Independent from the gearbox and synchronized with forwarding speed. Engageable under load with brake in disengaged position
PTO clutch	Multidisc in oil bath with electro-hydraulic control
PTO rotation speed (rpm)	Standard: 540/540E - Optional: 540/1,000
HYDRAULIC SYSTEM	Double circuit with independent pumps and heat exchanger
Flow rate to the hydroguide and the electro-hydraulic controls (lt/min)	33
Flow rate to the lift and the control valves (lt/min)	30 (optional oversized pump with flow rate 49 lt/min)
Maximum hydraulic pressure (bar)	180
REAR CONTROL VALVES	Mechanical control
Standard	2 double acting
Optional and in addition to the standard ones	1 single acting and 1 double acting or 1 double acting and 1 double acting with float
Joystick (optional)	With proportional electronic control of lifts and control valves consisting of: 1 single acting with adjustable flow and free return, 5 double acting (replacing the standard ones) and oversized pump 49 lt/min.
ELECTRIC SYSTEM	Potentiometer to change the sensibility of the joystick
	Battery 100 Ah / 12 V - Alternator 95 A
Rear power outlets	7 pin and 3 pin
REAR LIFT	Standard: by two external rams - Optional: position and draft control
Three-point hitches	Standard: standard couplers cat. 1 and 2. Optional: quick couplings, L-shaped, cat. 1 and 2, arms with adjustable length and hooks with adjustable width.
Three-point tie bar	Standard: with manual adjustment - Optional: hydraulically controlled upper link and tie rod link arm
Ball joint lifting capacity (kg)	2,300
FRONT LIFT (optional)	By two external rams with front protection and 2 double acting control valves with free return
Three-point hitches	Rigid with quick couplings cat. 1
Lifting capacity (kg)	800
DRIVING PLATFORM	Reversible with platform suspended on silent block. Suspended pedals mounted on rotating control column
Steering wheel	With adjustable inclination
Seat with gas spring for easy tipping and safety belt	Standard: comfortable sprung seat, adjustable according to the driver's weight - Optional: "Kab Seating" or pneumatic seat
SERVICE BRAKES	Oil bath discs with hydrostatic control, acting on the four wheels
Parking brake	Automatic and indipendent Brake-Off
STEERING	Hydrostatic steering acting on central articulation. Flow deviator for steering unit
SAFETY	Standard: front homologated roll-bar
CABIN (optional)	Homolagated and sound-proof with monocoque body fitted on silent-block, beacon lamp and fabric covered seat. With ventilation, heating system and air conditioning. Available with standard or conical structure
INSTRUMENT PANEL	With multi-function colour and digital display complete with: hour counter, battery voltage, fuel consumption, DPF level, simultaneous reading of engine speed, forwarding speed and PTO speed. Warning lights and acoustic alarm
TYRES (standard)	250/80R18
Optional	11.5/80-15.3 * 280/70R18 * 320/65R18 * 250/85R20 * 300/70R20 * 320/70R20 * 340/65R20 * 31x15.50-15 con battistrada XTC o STG * 33x12.50-15 T413 * 13.6-16 Garden
TOW HOOKS (standard)	Rear CUNA and front
Optional	Rear tow hook: EC approved or EC approved (Slider type) or CUNA (Slider type)
WEIGHT in order of speed	The terr mosts to approved of the approved (chief type) of color (chief type)
With roll-bar (kg)	2,300
With cabin (kg)	2,445
vviui caulii (ng)	Z, 140
OPTIONAL	Front bumper, Beacon lamp, Front weight, Weights for wheels, Active carbon filter for cabin

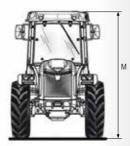
Volcan K105 RS

	340/65R18	280/70R18	320/65R18	250/85R20	300/70R20
	with adjustable rim				
	343	282	320	245	286
	899	849	873	940	942
C Wheel track min/max (mm)	1098/1538	1098/1538	1098/1538	1046/1588	1134/1618
D Width min/max (mm)	1441/1881	1380/1820	1441/1881	1291/1833	1420/1904





	320/70R20	340/65R20	31x15.50-15 XTC	31x15.50-15 STG	13.6-16 Garden
	with adjustable rim	with adjustable rim	with fixed rim	with fixed rim	with fixed rim
A Tyre width (mm)	316	343	368	394	391
B Tyre diameter (mm)	975	958	800	800	968
C Wheel track min/max (mm)	1134/1618	1134/1618	1260/1374	1260/1374	1240/1400
D Width	1450/1934	1477/1961	1628/1742	1654/1768	1631/1791



TANDARD cabin

Dimensions Volcan K105 RS (mm):								
Е		G	Н	l min/max	L min/max	M min/max	N min/max	
1348	1495	882	3725	184/294	2254/2364	2070/2180	2139/2249	



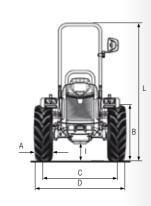
CONICAL cabin

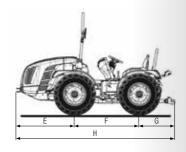
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Standard: comfortable sprung seat, adjustable according to the driver's weight Optional: "Kab Seating" or pneumatic seat ERVICE BRAKES Oil bath discs with hydrostatic control, acting on the four wheels arking brake Automatic and indipendent Brake-Off TEERING Hydrostatic steering acting on front wheels. Flow deviator for steering unit AFETY ABIN (optional) Homolagated and sound-proof with monocoque body fitted on silent-block, beacon lamp and fabric covered seat. With ventilation, heating system and air conditioning. Available with standard or conical structure With multi-function colour and digital display complete with: hour counter, battery voltage, fuel consumption, DPF level, simultaneous reading of engine speed, forwarding speed and PTO speed. Warning lights and acoustic alarm YRES (standard) PRES (standard) Whooks (standard) Rear CUNA and front Rear CUNA and front Rear tow hook: EC approved or EC approved (Slider type) or CUNA (Slider type) ##EIGHT in order of speed ##EIGHT in cabin (kg) 2,385		
ERVICE BRAKES Oil bath discs with hydrostatic control, acting on the four wheels arking brake Automatic and indipendent Brake-Off Hydrostatic steering acting on front wheels. Flow deviator for steering unit AFETY Standard: front homologated roll-bar Homolagated and sound-proof with monocoque body fitted on silent-block, beacon lamp and fabric covered seat. With ventilation, heating system and air conditioning. Available with standard or conical structure With multi-function colour and digital display complete with: hour counter, battery voltage, fuel consumption, DPF level, simultaneous reading of engine speed, forwarding speed and PTO speed. Warning lights and acoustic alarm YRES (standard) YRES (standard) 280/70R18 340/65R18 * 320/65R18 * 250/85R20 * 300/70R20 * 340/65R20 * 31x15.50-15 XTC or STG * 13.6-16 Garden OW HOOKS (standard) Rear CUNA and front Prional Rear tow hook: EC approved or EC approved (Slider type) or CUNA (Slider type) WEIGHT in order of speed With roll-bar (kg) 7,385 With cabin (kg) 2,385		Standard: comfortable sprung seat, adjustable according to the driver's weight
Arking brake Automatic and indipendent Brake-Off TEERING Hydrostatic steering acting on front wheels. Flow deviator for steering unit AFETY Standard: front homologated roll-bar ABIN (optional) Homologated and sound-proof with monocoque body fitted on silent-block, beacon lamp and fabric covered seat. With ventilation, heating system and air conditioning. Available with standard or conical structure With multi-function colour and digital display complete with: hour counter, battery voltage, fuel consumption, DPF level, simultaneous reading of engine speed, forwarding speed and PTO speed. YRES (standard) 280/70R18 ptional 340/65R18 * 320/65R18 * 250/85R20 * 300/70R20 * 340/65R20 * 31x15.50-15 XTC or STG * 13.6-16 Garden OW HOOKS (standard) Rear CUNA and front ptional Rear tow hook: EC approved or EC approved (Slider type) or CUNA (Slider type) //EIGHT in order of speed //th roll-bar (kg) 2,385 //th cabin (kg) 2,530	ERVICE BRAKES	
Hydrostatic steering acting on front wheels. Flow deviator for steering unit Standard: front homologated roll-bar		
AFETY ABIN (optional) BYTH MINISTRUMENT PANEL With multi-function colour and digital display complete with: hour counter, battery voltage, fuel consumption, DPF level, simultaneous reading of engine speed, forwarding speed and PTO speed. Warning lights and acoustic alarm YRES (standard) ptional 340/65R18 * 320/65R18 * 250/85R20 * 300/70R20 * 340/65R20 * 31x15.50-15 XTC or STG * 13.6-16 Garden OW HOOKS (standard) Rear CUNA and front Plotonal Rear tow hook: EC approved (Slider type) or CUNA (Slider type) //EIGHT in order of speed //th roll-bar (kg) 2,385 //th cabin (kg)	•	
Homolagated and sound-proof with monocoque body fitted on silent-block, beacon lamp and fabric covered seat. With wentilation, heating system and air conditioning. Available with standard or conical structure With multi-function colour and digital display complete with: hour counter, battery voltage, fuel consumption, DPF level, simultaneous reading of engine speed, forwarding speed and PTO speed. Warning lights and acoustic alarm YRES (standard) 280/70R18 ptional 340/65R18 * 320/65R18 * 250/85R20 * 300/70R20 * 340/65R20 * 31x15.50-15 XTC or STG * 13.6-16 Garden OW HOOKS (standard) Rear CUNA and front Prophonal Rear tow hook: EC approved (Slider type) or CUNA (Slider type) /EIGHT in order of speed //If roll-bar (kg) 2,385 //If cabin (kg) 2,530		
With multi-function colour and digital display complete with: hour counter, battery voltage, fuel consumption, DPF level, simultaneous reading of engine speed, forwarding speed and PTO speed. Warning lights and acoustic alarm YRES (standard) 280/70R18 ptional 340/65R18 * 320/65R18 * 250/85R20 * 300/70R20 * 340/65R20 * 31x15.50-15 XTC or STG * 13.6-16 Garden OW HOOKS (standard) Rear CUNA and front ptional Rear tow hook: EC approved (Slider type) or CUNA (Slider type) /EIGHT in order of speed //th roll-bar (kg) 2,385 //th cabin (kg) 2,530		Homolagated and sound-proof with monocoque body fitted on silent-block, beacon lamp and fabric covered seat.
ptional 340/65R18 * 320/65R18 * 250/85R20 * 300/70R20 * 340/65R20 * 31x15.50-15 XTC or STG * 13.6-16 Garden OW HOOKS (standard) Rear CUNA and front ptional Rear tow hook: EC approved or EC approved (Slider type) or CUNA (Slider type) VEIGHT in order of speed Vith roll-bar (kg) 2,385 Vith cabin (kg) 2,530	NSTRUMENT PANEL	With multi-function colour and digital display complete with: hour counter, battery voltage, fuel consumption, DPF level, simultaneous reading of engine speed, forwarding speed and PTO speed.
ptional 340/65R18 * 320/65R18 * 250/85R20 * 300/70R20 * 340/65R20 * 31x15.50-15 XTC or STG * 13.6-16 Garden OW HOOKS (standard) Iptional Rear CUNA and front Iptional Rear tow hook: EC approved or EC approved (Slider type) or CUNA (Slider type) VEIGHT in order of speed Vith roll-bar (kg) 2,385 Vith cabin (kg) 2,530	YRES (standard)	280/70R18
MW HOOKS (standard) Rear CUNA and front ptional Rear tow hook: EC approved (Slider type) or CUNA (Slider type) /EIGHT in order of speed //ith roll-bar (kg) 2,385 //ith cabin (kg) 2,530	,	
Ptional Rear tow hook: EC approved or EC approved (Slider type) or CUNA (Slider type) /EIGHT in order of speed //th roll-bar (kg) 2,385 //th cabin (kg) 2,530		
/EIGHT in order of speed /ith roll-bar (kg) 2,385 /ith cabin (kg) 2,530	,	
/ith roll-bar (kg) 2,385 /ith cabin (kg) 2,530		Tical ton noon. Lo approved of Lo approved folider type) of contra folider type)
Vith cabin (kg) 2,530	•	2 205
PTIONAL Front bumper, Beacon lamp, Front weight, Weights for wheels, Active carbon filter for cabin	1 0/	

24 2.

Volcan K105 DUALSTEER®

	340/65R18	280/70R18	320/65R18	250/85R20	300/70R20
	with adjustable rim				
A Tyre width (mm)	343	282	320	245	286
B Tyre diameter (mm)	899	849	873	940	942
C Wheel track min/max (mm)	1098/1538	1098/1538	1098/1538	1046/1588	1134/1618
D Width min/max (mm)	1441/1881	1380/1820	1441/1881	1291/1833	1420/1904





			31x15.50-15	31x15.50-15	13.6-16
	320/70R20	340/65R20	XTC	STG	Garden
	with adjustable rim	with adjustable rim	with fixed rim	with fixed rim	with fixed rim
A Tyre width (mm)	316	343	368	394	391
B Tyre diameter (mm)	975	958	800	800	968
C Wheel track min/max (mm)	1134/1618	1134/1618	1260/1374	1260/1374	1240/1400
D Width min/max (mm)	1450/1934	1477/1961	1628/1742	1654/1768	1631/1791



TANDARD cabin

Dimensions Volcan K105 DUALSTEER® (mm):								
Е	F	G		l min/max	L min/max	M min/max	N min/max	
1348	1495	882	3725	161/271	2254/2364	2070/2180	2139/2249	

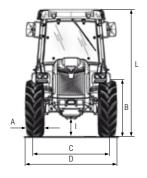


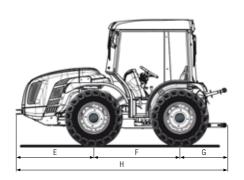
ONICAL cabin

TECHNICAL FEATURES	Volcen V10E DUAL CTEED®
TECHNICAL FEATURES	Volcan K105 DUALSTEER®
ENGINE	KUBOTA V3800 CR-TE4
Number of cylinders	4 in-line
Displacement (cm³)	3,769 Turbo
Intake Fuel system	Direct injection "Common rail"
Emission level	Stage 3B
Balancing	Counter-balance shafts
Power (kW/HP)	72.1/98
Rated speed (rpm)	2.400
Maximum torque (Nm/rpm)	330 / 1,500
Speed management	Electronically regulated with a consolle with functions: increase and decrease of engine speed, memorize and recall a particular speed or switch off the electronic throttle and go to the minimum idle speed
Cooling	Liquid
Tank capacity (It)	54
CHASSIS	Swinging integral chassis OS-FRAME with central articulation and steering wheels
DRIVE	Four-wheel drive. Front-wheel drive disengagement with electro-hydraulic control
TRANSMISSION	32 speeds synchronized gearbox: 16 FWD and 16 REV with synchronized reverser
POWER SHUTTLE EASYDRIVE® (optional)	Electro-hydraulic power shuttle electronically actuated with the lever (with 3 position FWD-N-REV) installed on the left of steering wheel. Possibility to choose from 5 levels of reactivity
Transmission clutch	Multidisc in oil bath electronically-managed and proportional hydraulic control with PRO-ACT System
DIFFERENTIAL	Front and rear. Differential lock: front and rear simultaneously or only rear with electro-hydraulic control
AXLES	Front and rear with epicyclic reduction units. Front axle, oscillating in the middle (approx. ±15°)
REAR PTO	Independent from the gearbox and synchronized with forwarding speed. Engageable under load with brake in disengaged position
PTO clutch	Multidisc in oil bath with electro-hydraulic control
PTO rotation speed (rpm)	Standard: 540/540E - Optional: 540/1,000
HYDRAULIC SYSTEM	Double circuit with independent pumps and heat exchanger
Flow rate to the hydroguide and the electro-hydraulic controls (lt/min)	33
Flow rate to the lift and the control valves (lt/min)	30 (optional oversized pump with flow rate 49 lt/min)
Maximum hydraulic pressure (bar)	180
REAR CONTROL VALVES	Mechanical control
Standard Optional and in addition to the standard open	2 double acting
Optional and in addition to the standard ones Joystick (optional)	1 single acting and 1 double acting or 1 double acting and 1 double acting with float With proportional electronic control of lifts and control valves consisting of: 1 single acting with adjustable flow and free return, 5 double acting (replacing the single acting) and oversized pump 49 lt/min.
ELECTRIC SYSTEM	Potentiometer to change the sensibility of the joystick Battery 100 Ah / 12 V - Alternator 95 A
Rear power outlets	7 pin and 3 pin
REAR LIFT	Standard: by two external rams - Optional: position and draft control
Three-point hitches	Standard: standard couplers cat. 1 and 2. Optional: quick couplings cat. 1 and 2, arms with adjustable length or quick couplings, L-shaped, cat. 1 and 2, arms with adjustable length and hooks with adjustable width.
Three-point tie bar	Standard: with manual adjustment - Optional: hydraulically controlled upper link and tie rod link arm
Ball joint lifting capacity (kg)	2,300
FRONT LIFT (optional)	By two external rams with front protection and 2 double acting control valves with free return
Three-point hitches	Rigid with quick couplings cat. 1
Lifting capacity (kg)	800
DRIVING PLATFORM	Reversible with platform suspended on silent block. Suspended pedals mounted on rotating control column
Steering wheel	With adjustable inclination
Seat with gas spring for easy tipping and safety belt	Standard: comfortable sprung seat, adjustable according to the driver's weight - Optional: "Kab Seating" or pneumatic seat
SERVICE BRAKES	Oil bath discs with hydrostatic control, acting on the four wheels
Parking brake	Automatic and indipendent Brake-Off
STEERING	Double steering system DUALSTEER® with 4-cylinders. Hydrostatic steering acting on front wheels and central articulation. Flow deviator for steering unit
SAFETY	Standard: front homologated roll-bar
CABIN (optional)	Homolagated and sound-proof with monocoque body fitted on silent-block, beacon lamp and fabric covered seat. With ventilation, heating system and air conditioning. Available with standard or conical structure
INSTRUMENT PANEL	With multi-function colour and digital display complete with: hour counter, battery voltage, fuel consumption, DPF level, simultaneous reading of engine speed, forwarding speed and PTO speed. Warning lights and acoustic alarm
TYRES (standard)	280/70R18
Optional	340/65R18 * 320/65R18 * 250/85R20 * 300/70R20 * 320/70R20 * 340/65R20 * 31x15.50-15 XTC or STG * 13.6-16 Garden
TOW HOOKS (standard)	Rear CUNA and front
Optional	Rear tow hook: EC approved or EC approved (Slider type) or CUNA (Slider type)
WEIGHT in order of speed	
With roll-bar (kg)	2,450
With cabin (kg)	2,580
OPTIONAL	Front bumper, Beacon lamp, Front weight, Weights for wheels, Active carbon filter for cabin

Volcan K105 MT

	31x15.50-15 XTC	31x15.50-15 STG	440/50R17 ALL GROUND	425/55R17 AC70G	340/65R20
	with fixed rim	with fixed rim	with fixed rim	with fixed rim	with adjustable rim
A Tyre width (mm)	368	394	431	430	343
B Tyre diameter (mm)	800	800	873	884	958
C Wheel track min/max (mm)	1510	1510	1476	1476	1354/1618
D Width min/max (mm)	1878	1904	1907	1906	1697/1961



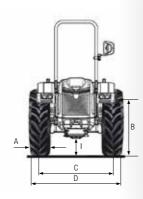


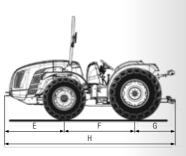
Dimensions Volcan K105 MT (mm):						
	F	G	н	l min/max	L min/max	
1348	1495	882	3725	184/294	2070/2180	

TECHNICAL FEATURES	Volcan K105 MT			
ENGINE Number of outlindon	KUBOTA V3800 CR-TE4			
Number of cylinders Displacement (cm³)	4 in-line 3,769			
Intake	Turbo			
Fuel system	Direct injection "Common rail"			
Emission level	Stage 3B			
Balancing	Counter-balance shafts			
Power (kW/HP)	72.1/98			
Rated speed (rpm)	2.400			
Maximum torque (Nm/rpm)	330 / 1.500			
Speed management	Electronically regulated with a consolle with functions: increase and decrease of engine speed, memorize and recall a particular speed or switch off the electronic throttle and go to the minimum idle speed			
Cooling	Liquid			
Tank capacity (It)	54			
Air filter	Integrated cyclone prefilter with high-performance air filter and front air intake			
CHASSIS	Swinging integral chassis OS-FRAME with steering wheels			
DRIVE	Four-wheel drive. Front-wheel drive disengagement with electro-hydraulic control			
TRANSMISSION	32 speeds synchronized gearbox: 16 FWD and 16 REV with synchronized reverser			
POWER SHUTTLE EASYDRIVE® (optional)	Electro-hydraulic power shuttle electronically actuated with the lever (with 3 position FWD-N-REV) installed on the left of steering wheel. Possibility to choose from 5 levels of reactivity			
Transmission clutch	Multidisc in oil bath electronically-managed and proportional hydraulic control with PRO-ACT System			
DIFFERENTIAL	Front and rear. Differential lock: front and rear simultaneously or only rear with electro-hydraulic control			
AXLES	Front and rear with epicyclic reduction units. Front axle, oscillating in the middle (approx. ±15°)			
REAR PTO	Independent from the gearbox and synchronized with forwarding speed. Engageable under load with brake in disengaged position			
PTO clutch	Multidisc in oil bath with electro-hydraulic control			
PTO rotation speed (rpm)	Standard: 540/1,000 - Optional: 540/540E			
HYDRAULIC SYSTEM	Double circuit with independent pumps and heat exchanger			
Flow rate to the hydroguide and the electro-hydraulic controls (lt/min)	33			
Flow rate to the lift and the control valves (lt/min)	30			
Maximum hydraulic pressure (bar)	180			
REAR CONTROL VALVES	Mechanical control			
Standard	1 single acting and 2 double acting			
Optional and in addition to the standard ones	1 single acting or 1 double acting or 1 double acting with float			
Joystick (optional)	With proportional electronic control of lifts and control valves consisting of: 1 single acting without free return and 3 double acting (replacing the standard ones). Potentiometer to change the sensibility of the joystick			
ELECTRIC SYSTEM	Battery 100 Ah / 12 V - Alternator 95 A			
Rear power outlets	7 pin and 3 pin			
REAR LIFT	By four external rams with hydraulic suspension and Dual Floating System®			
Three-point hitches	Quick couplings, L-shaped, cat. 1 and 2, arms with adjustable length and hooks with adjustable width			
Three-point tie bar	Standard: with manual adjustment Optional: hydraulically controlled upper link and tie rod link arm			
Ball joint lifting capacity (kg)	2,300			
FRONT LIFT (optional)	By two external rams with front protection and 2 double acting control valves with free return			
Three-point hitches	Rigid with quick couplings cat. 1			
Lifting capacity (kg)	800			
DRIVING PLATFORM	Wider version, reversible with platform suspended on silent block. Suspended pedals mounted on rotating control column			
Steering wheel	With adjustable inclination			
Seat with gas spring for easy tipping and safety belt	Standard: comfortable sprung seat, adjustable according to the driver's weight - Optional: pneumatic seat			
SERVICE BRAKES	Oil bath discs with hydrostatic control, acting on the four wheels			
Parking brake	Automatic and indipendent Brake-Off			
STEERING	Hydrostatic steering acting on front wheels. Flow deviator for steering unit			
SAFETY CABIN (optional)	Standard: semi-cabin and beacon lamp Homolagated and sound-proof with monocoque body fitted on silent-block, beacon lamp and fabric covered seat. With ventilation beating greatern and air conditioning			
INSTRUMENT PANEL	With ventilation, heating system and air conditioning With multi-function colour and digital display complete with: hour counter, battery voltage, fuel consumption, DPF level, simultaneous reading of engine speed, forwarding speed and PTO speed. Warning lights and acoustic alarm			
TYRES (standard)	31x15.50-15 XTC			
Optional	340/65R20 * 31x15.50-15 STG * 440/50-17 All-Ground * 425/55-17 AC70G			
TOW HOOKS (standard)	Rear CUNA and front			
Optional	Rear tow hook: EC approved or EC approved (Slider type) or CUNA (Slider type)			
WEIGHT in order of speed	10 V 20 V 10 V 10 V 10 V 10 V 10 V 10 V			
With semi-cabin (kg)	2,480			
With cabin (kg)	2,560			
OPTIONAL	Front bumper, Front weight, Weights for wheels, Air prefilter with impeller, Active carbon filter for cabin			

Volcan K105 SDT

	260/70R16	300/70R20	260/70R16	340/65R20	280/70-18	360/70R20
	Front	Rear	Front	Rear	Front	Rear
A Tyre width (mm)	258	286	258	343	265	357
B Tyre diameter (mm)	770	958	770	958	849	1042
C Wheel track min/max (mm)	1122/1522	1054/1490	1122/1522	1054/1490	1098/1538	1170/1490
D Width min/max (mm)	1380/1780	1340/1776	1380/1780	1397/1833	1363/1803	1527/1847





	280/70-18	320/70R24	320/65R18	380/70R20	340/65R18	420/65R24
	Front	Rear	Front	Rear	Front	Rear
A Tyre width (mm)	265	316	319	370	343	418
B Tyre diameter (mm)	849	1092	873	1078	899	1155
C Wheel track min/max (mm)	1098/1538	1034/1518	1166/1470	1170/1490	1170/1466	1190/1460
D Width min/max (mm)	1363/1803	1350/1834	1485/1789	1540/1860	1513/1809	1608/1878



	Dimensions Volcan K105 SDT (mm):						
		F	G	Н	l min/max	L min/max	M min/max
Volcan K105 SDT RS	1348	1607	918	3873	157/257	2216/2316	1792/1857
Volcan K105 SDT DUALSTEER®	1348	1607	918	3873	134/234	2216/2316	1792/1857



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TECHNICAL FEATURES	Volcan K105 SDT RS	Volcan K105 SDT DUALSTEER®			
ENGINE	KUBOTA V3800 CR-TE4				
Number of cylinders	4 in-line				
Displacement (cm³)	3769				
Intake	Turbo				
Fuel system	Direct injection	"Common rail"			
Emission level	Stage				
Balancing	Counter-bal				
Power (kW/HP)	72.1				
Rated speed (rpm) Maximum torque (Nm/rpm)	2,4				
	Electronically regulated with a consolle with functions	*			
Speed management	and recall a particular speed or switch off the elec				
Cooling	Liqu				
Tank capacity (It)	70 lt (version with roll-bar)				
CHASSIS	Swinging integral chassis OS-FRAME with steering wheels	Swinging integral chassis OS-FRAME with central articulation and steering wheels			
DRIVE	Four-wheel drive. Front-wheel drive diser	ngagement with electro-hydraulic control			
TRANSMISSION	32 speeds synchronized gearbox: 16 FWI	O and 16 REV with synchronized reverser			
POWER SHUTTLE EASYDRIVE® (optional)	Electro-hydraulic power shuttle electronically actuated with the lever Possibility to choose fro	,			
Transmission clutch	Multidisc in oil bath electronically-managed and pr	oportional hydraulic control with PRO-ACT System			
DIFFERENTIAL	Front and rear. Differential lock: front and rear simul	taneously or only rear with electro-hydraulic control			
AXLES	Front with epicyclic reduction units and rear with bull-gear	r units. Front axle, oscillating in the middle (approx. ±15°)			
REAR PTO	Independent from the gearbox and synchronized with forwarding	speed. Engageable under load with brake in disengaged position			
PTO clutch	Multidisc in oil bath with				
PTO rotation speed (rpm)	Standard: 540/540E -				
HYDRAULIC SYSTEM	Double circuit with independer				
Flow rate to the steering unit and the electro-hydraulic controls (it/min) Flow rate to the lift and the control valves (it/min)	30 (optional oversized pum	-			
Maximum hydraulic pressure (bar)	30 (upitoriai oversized puri				
REAR CONTROL VALVES	Mechanical control				
Standard	2 double acting				
Optional and in addition to the standard ones	1 single acting and 1 double acting or 1 double acting and 1 double acting with float				
Joystick (optional)	With proportional electronic control of lifts and control valves consisting of: 1 single acting with adjustable flow and free return, 3 acting (replacing the standard ones) and oversized pump 49 lt/min. Potentiometer to change the sensibility of the joystick				
FRONT CONTROL VALVES (only with joystick)	4 double acting, 1 single acting and 1 single acting with adjustable flow and free return with E-Plug System				
ELECTRIC SYSTEM	Battery 100 Ah / 12 V - Alternator 95 A				
Rear power outlets	7 pin an	d 3 pin			
REAR LIFT	Standard: by two external rams 0	optional: position and draft control			
Three-point hitches	Standard: standard couplers cat. 1 and 2. Optional: quick couplings L-shaped, cat. 1 and 2, arms with adjustat				
Three-point tie bar	Standard: with manual adjustment - Optional: hyd	raulically controlled upper link and tie rod link arm			
Ball joint lifting capacity (kg)	2,7				
FRONT LIFT (optional)	With front protection and 2 double a	•			
Three-point hitches	Rigid with quick				
Lifting capacity (kg) DRIVING PLATFORM	Manadizactional with platform avanaged an allot b				
Steering wheel	Monodirectional with platform suspended on silent b With adjustab				
Seat with safety belt	Standard: comfortable sprung seat, adjustable according to the				
SERVICE BRAKES	Oil bath discs with hydrostatic co	0 1			
Parking brake	Standard: acting on the rear transmission, with hand lever - Optional				
STEERING	Hydrostatic steering acting on the front wheels	Double steering system DUALSTEER® with 4-cylinders. Hydrostatic steering acting on front wheels and central articulation			
SAFETY	Standard: front hor	* *			
CABIN (optional)	Compact AIRTECH version, pressurised and homologated cat. 4. Sound-proof with monocoque body fitted on silent-block, beacon lamp and fabric covered seat. Safety cell integrated in the structure, instrument panel and air ducts (car type). Air conditioning system and Brake-Off				
INSTRUMENT PANEL	With multi-function colour and digital display complete with: hour counter, battery voltage, fuel consumption, DPF level, simultaneous reading of engine speed, forwarding speed and PTO speed. Warning lights and acoustic alarm				
TYRES (standard)	260/70R16*				
Optional	260/70R16*340/65R20 - 280/70-18*360/70R20 - 280/70-18*320/70R24 - 320/65R18*380/70R20 - 340/65R18*420/65F				
TOW HOOKS (standard)	Rear CUNA and front				
Optional	Rear tow hook: EC approved or EC approved (Slider type) or CUNA (Slider type)				
WEIGHT in order of speed					
With roll-bar (kg)	2,520 2,570				
With Compact cabin (kg)	2,700 2,700				
OPTIONAL	Front bumper, Beacon lamp, Front weight, Weights for f Front plate for implements connection, A				
	, F.EEC Imponione combount,				

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SPARE PARTS

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



ASSISTANCE

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



WARRANTY

A precise certainty for the customer's satisfaction: 2-year warranty included in the price.



LUBRICANTS

We recommend to use the original PowerLube lubricants.



FINANCIAL SERVICES

Financial solutions to meet the credit requirements.



