

# VEGA K90



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# VEGA K90 THE FUTURE IS HERE.

Vega K90 are specialised tractors matching most advanced 'made in FERRARI' technology and top production efficiency, along with environmental care.

The electronically-operated Stage V 75 HP engines comply 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 **VEGA K90 indispensable machines for future agriculture.**





## VEGA K90

# ENGINE

Vega K90 tractors come with a 3.8 lt Kubota engine which develops 75 HP. Devices such as EGR (the exhaust gas recirculation system), the DOC (diesel oxidation catalyst) and the DPF (diesel particulate filter) dramatically reduce toxic substances emitted into the environment.

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

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

## ELECTRONIC MANAGEMENT

The electronically-managed engines have 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.

## ADVANTAGES

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 DATA	VEGA K90
Model	Kubota V3800-CR-T-EW03
Emission level	Stage V
No. of cylinders	4
Intake	Turbo
Displacement	3769 cc
Injection	Direct Common Rail
Power kW/HP	54.6 / 75
Rated speed	2400 rpm
Maximum torque	305.4 Nm @1500 rpm
Cooling	Liquid
Balancing	Counter-rotating shafts



# TRANSMISSION

## OS-FRAME

The transmission of the Vega K90 features the exclusive OS-Frame, with many 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**.

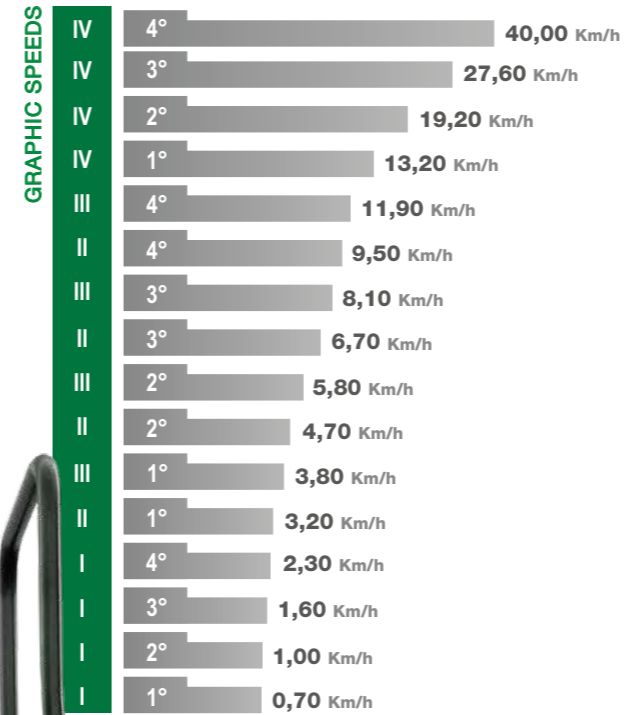
## SYNCHRONISED GEARBOX

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.

## 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.



## 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.

Vega K90 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.





# EASYDRIVE®

Vega K90 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 his hands from the steering wheel and without using the clutch pedal**, while keeping the vehicle control at any time and working comfortably.

This exclusive system is based on an **electronic control unit**, fully developed and produced by the BCS Group, that can calculate in real time parameters such as sloping, acceleration and load. When the reverser is operated, the control unit decreases the machine speed by means of the service brakes, depending on the speed and the engaged ratio, and automatically engages the reverse gear, releasing the clutch progressively. This reduces manoeuvring times and increases operating safety.

For the best feeling between you and your tractor, **the operator can modify the system reactivity in 5 different levels**, visible on the color display of the dashboard (from the sweetest to the most reactive one), depending on the different working needs, through the two buttons located close to the lever.

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.



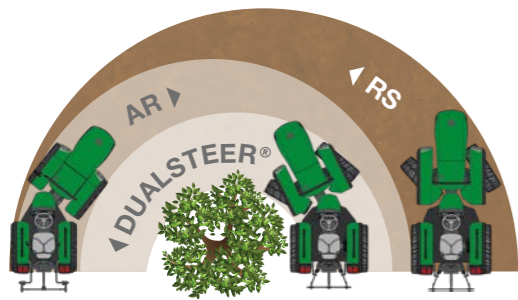


# AGILITY

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

Vega K90 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.





VEGA K90

# DUALSTEER® SYSTEM

Unique on the market and covered by an international patent, the Dualsteer® is a **double steering system that combines the central joint of the frame with the steering of the front wheels**: this allows an overall steering angle of 70° to be achieved.

The Dualsteer® therefore simultaneously highlights the **safety and stability qualities of steering wheel tractors with the steering performance and manoeuvrability of the central articulation versions**.

The unparalleled turning radius combined with stability in manoeuvring even on the slopes, make the Vega Dualsteer® tractors the best choice in the **use in vineyards and orchards with limited space for manoeuvre at the end of the field, also when located on slopes, in greenhouse cultivation, in the horticultural-floricultural nursery, in the greens maintenance and in the typical work of municipalities**.





# WINNING IN EVERY FIELD OF USE

## BETWEEN THE ROWS

The very small turning radius allows the tractor to move directly from one row to the next with a single turn, without additional manoeuvres.

### ADVANTAGES

- Time saving.
- Increased operating comfort.
- Less soil damage.

## WITH REVERSE DRIVE

The great sensitivity to steering optimises the use of the tractor even with reverse drive and with frontal implements mounted on the lift such as fork lifts, pruners, trimmers, offset machinery.

### ADVANTAGES

- Top precision in working.
- Higher speed in turning manoeuvres from one row to another.
- Increased productivity.



## ON SLOPES

During turning and maximum steering, the front wheels rest both inside the tractor's track with the concrete advantage of absolute stability and consequent safety for the operator, even on sloping working conditions.

### ADVANTAGES

- Same stability as a steering wheel tractor.
- Optimum distribution of traction between the inner and outer wheels.

## COMPARED TO CRAWLERS

On the steepest slopes, the Dualsteer® not only provides the same turning radii as a crawler, but also offers several advantages:

### ADVANTAGES

- Superior stability thanks to the oscillating OS-Frame that allows the adaptation of the 4 wheels to the structure of the ground.
- Minimisation of soil damage normally "ploughed" by iron tracks during the manoeuvres at end of the field.



# TOP EFFICIENCY

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

The oversized flow rate of pumps allows all modern implements for specialised agriculture to be coupled.

## 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 differentiated wheels 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

The use in full safety, on high gradients and crosswise, is guaranteed by the **project geometry of Vega K90 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 Vega 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.





# DRIVING POSITION

## ABSOLUTE COMFORT

The pleasure of working with a Vega K90 tractor results not only from the machine's performance, but also the comfort that it reserves for the driver. The **driving platform is hanging on silent-blocks to dampen vibrations and noise** to the advantage of operating comfort.

The controls are ergonomically located and easy to be operated; when seated, the operator has a complete, unobstructed view on the machine and on the implement.

The steering wheel has a new shape and it can be gripped more easily; its tilting can be adjusted for the best adjustment according to the build of the driver and for an easier access to the same platform.

## REVERSIBILITY

The multipurpose function of Vega K90 tractors is enhanced by the reversibility of the driving seat (not available in SDT versions).

Just in a few seconds the operator can rotate the driving platform by 180° (seat, steering wheel, dashboard and pedals), to **work with a front-mounted implement and steadily supervising all working operations**, favouring comfort and safety.





# HOMOLOGATED CABINS

Designed and built with extreme attention to the smallest details to guarantee pleasant living of the interior and without damaging the rich environment of vegetation that one is operating in.

The steel monocoque structure is built on a **suspended on silent-block platform**, completely independent of the tractor's chassis.

Available in 2 versions:

- VISTA CLIMA** with 4-upright, the cabin features a conical and compact profile to easily work in tight rows, also on side slopes and in vegetation-rich environments. Thanks to the large all-glass doors, it offers a 360° unobstructed view of the surroundings, wheel track and attachment.
- SPACE CLIMA** with 6-upright, the cabin is characterised by a very generous living space thanks to a larger platform, and offers excellent ergonomics in both front-drive and reverse driver's seat position.



VISTA CLIMA

4-upright - conical structure



SPACE CLIMA

6-upright - standard structure



## COMPACT PRO CAB

For SDT differentiated wheel versions the new **Compact Pro** cab is available, **pressurised and approved for Category 4**, insulating operator from toxic inhalation of dust, aerosol and vapours during phytosanitary treatments, for a healthy and safe working environment. The two large active carbon filters are installed at the front of the cab and are easy to replace.

An LCD display on the dashboard, well visible for the driver, allows to control the internal pressure of the cab as well as to view the indoor/outdoor temperature and ventilation speed.

The Compact Pro cab **comes with a host of comforts, as standard**: air conditioning and heating, fabric seat, internal lighting, cup holder and two auxiliary sockets to charge electronic devices or to power supplementary equipment, joystick or monitor.

The ventilation system is automotive design, with **air vents in front of the operator** to guarantee ideal temperature and to direct the air flow.

The **low-profile single-body chassis**, completely independent from the tractor, is mounted on silent blocks to reduce vibrations and noise, combined with the sound-absorbing cladding materials.

The **low height off the ground** makes use under the foliage, in pergola vineyards, canopy plantations and greenhouses extremely easy.



		VEGA K90			
		AR	RS	DS®	MT
VISTA CLIMA CABIN	Air-conditioning				
	4-upright	✓	✓	✓	
	Conical structure				
SPACE CLIMA CABIN	Air-conditioning				
	6-upright		✓		✓
	Standard structure				



# FUNCTIONAL DESIGN

## OVERSTRUCTURES

Vega K90 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 units.

In addition to the four front light clusters on front fenders, two LED beams above the hood grill increase the lighted area favouring over-night 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 FERRARI and now they are revolutionarily applied to the Vega K90 tractors range.

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

**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.

**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.

**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.

**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.

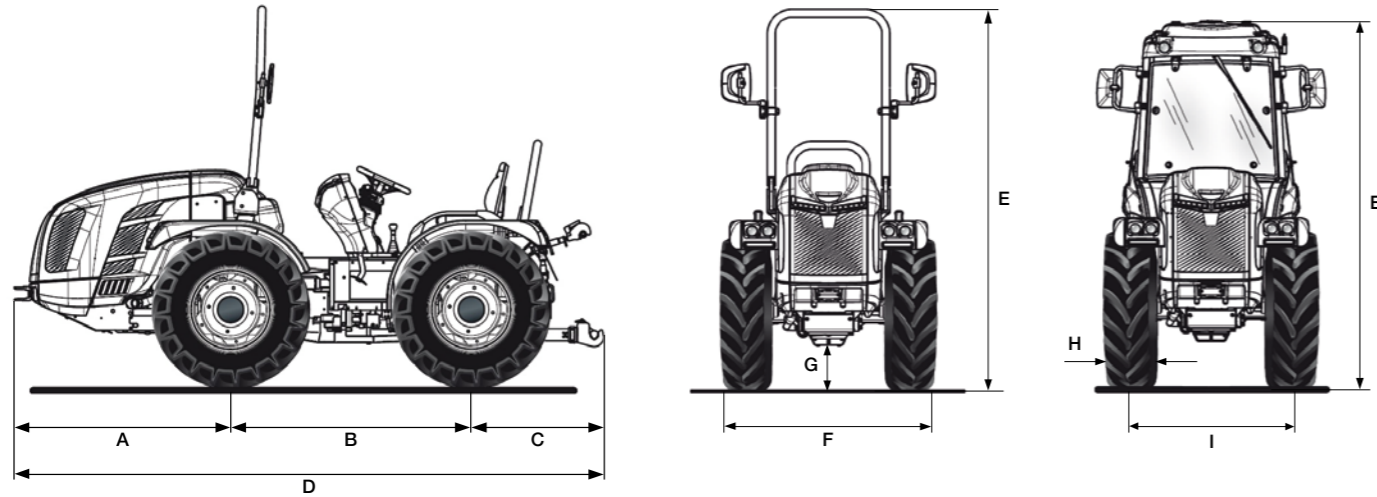
**SDT RS** – Tractors with short wheelbase and differentiated wheels, monodirectional: they are specially recommended both for specialised agriculture in vineyards, orchards and greenhouses and for typical works of conventional tractors.

**SDT DUALSTEER®** – Tractors with short wheelbase and differentiated wheels, monodirectional, with double steering system: they are ideal for working on rows of crops both downhill and on side slopes.



# VEGA K90 AR

## Data sheet



A	B	C	D	E min/max (with roll-bar)	E min/max (with cab)	F min/max	G min/max
1348	1495	932	3775	2254 / 2364	2139 / 2249	1127 / 1603	161 / 271

\* Dimensions in mm

	250/80-18	280/70 R18	280/70 R18 Galaxy Garden	320/65 R18	250/85 R20	300/70 R20	300/70 R20 Galaxy Garden
	with adjustable rim	with adjustable rim	with adjustable rim	with adjustable rim	with adjustable rim	with adjustable rim	with adjustable rim
H	240	282	282	320	245	286	286
I	898 / 1112	1022 / 1112	1022 / 1112	1022 / 1112	882 / 1230	996 / 1260	996 / 1260
F	1138 / 1352	1304 / 1394	1304 / 1394	1342 / 1432	1127 / 1475	1282 / 1546	1282 / 1546

	320/70 R20	340/65 R20	31x15.50-15 XTC	31x15.50-15 STG	33x12.50-15 T413	280/70 R20 Pneu Trac
	with adjustable rim	with adjustable rim	with fixed rim	with fixed rim	with fixed rim	with adjustable rim
H	316	343	368	394	325	286
I	996 / 1260	996 / 1260	1016	1016	959 / 965	992 / 1192
F	1312 / 1576	1339 / 1603	1384	1410	1284 / 1290	1278 / 1478

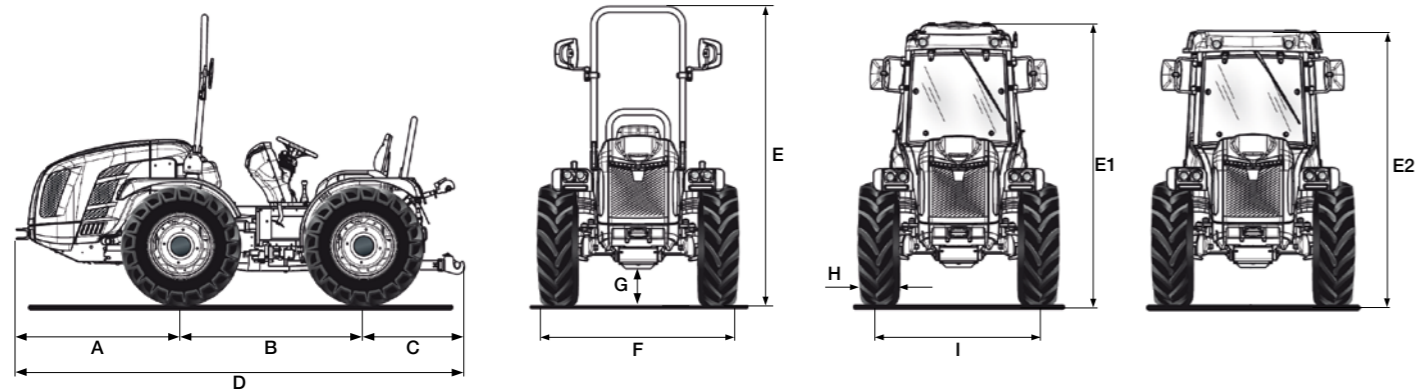
\* Dimensions in mm - min / max  
H = Tyre width - I = Wheel track - F = Tractor width

TECHNICAL FEATURES	VEGA K90 AR
<b>ENGINE</b>	Kubota V3800-CR-T-EW03
Number of cylinders	4 in-line
Displacement (cm3)	3,769
Intake	Turbo
Fuel system	Direct injection "Common rail"
Emission level	Stage v
Balancing	Counter-balance shafts
Power (kW/HP)	54.6 / 75
Rated speed (rpm)	2,400
Maximum torque (Nm/rpm)	305.4 / 1,500
Speed management	Electronically regulated with a console 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 (lt)	54
<b>CHASSIS</b>	Swinging integral chassis (±15°) OS-FRAME with central articulation
<b>DRIVE</b>	Four-wheel drive. Front-wheel drive disengagement with electro-hydraulic control
<b>TRANSMISSION</b>	32 speeds synchronized gearbox: 16 FWD and 16 REV with synchronized reverser
Min/max travel speed (km/h)	0.7 / 40
<b>POWER SHUTTLE EASYDRIVE® (optional)</b>	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
<b>DIFFERENTIAL</b>	Front and rear. Differential lock: front and rear simultaneously or only rear with electro-hydraulic control
<b>AXLES</b>	Front and rear with planetary reduction units
<b>REAR PTO</b>	Independent from the gearbox and synchronized 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)	Standard: 540/540E - Optional: 540/1,000
<b>HYDRAULIC SYSTEM</b>	Double circuit with independent pumps and heat exchanger
Flow rate to the hydroguide and the electro-hydraulic controls (lt/min)	33.1
Flow rate to the lift and the control valves (lt/min)	27.7 (optional oversized pump with flow rate 49 lt/min)
Maximum hydraulic pressure (bar)	180
<b>REAR CONTROL VALVES</b>	Mechanical control, standard free flow oil return
Standard	2 double acting (total 5 hydraulic outlets)
Optional	Up to a maximum of 9 hydraulic outlets
Joystick (optional)	Proportional electronic control of lifts and rear control valves (opt.) consisting of: 1 continuous flow with adjustable flow rate and free flow oil return, 5 double-acting (replacing the standard ones) and oversized pump. Potentiometer for adjusting joystick sensitivity.
<b>REAR LIFT</b>	By two external rams. Standard: raising/lowering - 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
<b>FRONT LIFT (optional)</b>	By two external rams with front protection and 2 double acting control valves with free return (total 4 hydraulic outlets)
Three-point hitches	Rigid with quick couplings cat. 1
Lifting capacity (kg)	800
<b>DRIVING PLATFORM</b>	Reversible with platform suspended on silent block. Suspended pedals mounted on rotating control column
Steering wheel	Tilt adjustable
Seat	With gas spring for easy tipping, safety belt and 'man on board sensor'. Standard: comfortable sprung seat, adjustable according to the driver's weight Optional: 'Kab Seating', 'Grammer' or 'Cobo' pneumatic seat
<b>SERVICE BRAKES</b>	Oil bath discs with hydrostatic control, acting on the four wheels with automatic engagement of the 4-wheel drive
Parking brake	Automatic and independent Brake-Off acting as emergency brake with proportional action
<b>STEERING</b>	Hydrostatic steering acting on central articulation. Flow deviator for steering unit
<b>SAFETY</b>	Standard: front homologated roll-bar, with gas springs for an easy lowering and lifting
<b>CABIN (optional)</b>	VISTA CLIMA with 4-upright and conical structure, homologated and soundproofed with monocoque body mounted on silent-blocks, beacon lamp and fabric seat. Ventilation, heating and air-conditioning system. Car radio preparation. Optional: active carbon filters
<b>DASHBOARD</b>	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
<b>ELECTRIC SYSTEM</b>	Battery 100 Ah / 12 V - Alternator 95 A - Rear power outlets: 7 pin and 3 pin
<b>TYRES</b>	250/80R18 * 280/70R18 * 280/70R18 Galaxy Garden * 320/65R18 * 250/85R20 * 300/70R20 * 300/70R20 Galaxy Garden * 320/70R20 * 340/65R20 * 31x15.50-15 XTC or STG * 33x12.50-15 T413 * 280/70R20 PneuTrac
<b>TOW HOOKS (standard)</b>	Rear CUNA and front
Optional	Rear tow hook: EC approved or EC with Slider frame or CUNA with Slider frame or EC tow bar with Slider frame
<b>WEIGHT IN ORDER OF SPEED</b>	With roll-bar: 2300 kg - With cab: 2450 kg
<b>ADDITIONAL OPTIONS</b>	Front bumper, beacon lamp, rear adjustable working light, front weights 150 kg and wheel weights 50 kg each, anti-dumping system, black and white 'Special Edition' livery



# VEGA K90 RS

## Data sheet



A	B	C	D	E min/max (with roll-bar)	E1 min/max (with VISTA cabin)	E2 min/max (with SPACE cabin)	F min/max	G min/max
1348	1495	932	3775	2254 / 2364	2139 / 2249	2070 / 2180	1291 / 1961	184 / 294

\* Dimensions in mm

	340/65 R18	280/70 R18	280/70 R18 Galaxy Garden	320/65 R18	250/85 R20	300/70 R20	300/70 R20 Galaxy Garden
	with adjustable rim	with adjustable rim	with adjustable rim	with adjustable rim	with adjustable rim	with adjustable rim	with adjustable rim
H	343	270	270	320	245	286	286
I	1098 / 1538	1098 / 1538	1098 / 1538	1098 / 1538	1046 / 1588	1134 / 1618	1134 / 1618
F	1441 / 1881	1368 / 1808	1368 / 1808	1441 / 1881	1291 / 1833	1420 / 1904	1420 / 1904

	320/70 R20	340/65 R20	31x15.50-15 XTC	31x15.50-15 STG	13.6-16 Garden	280/70 R20 Pneu Trac
	with adjustable rim	with adjustable rim	with fixed rim	with fixed rim	with fixed rim	with adjustable rim
H	316	343	368	394	391	286
I	1134 / 1618	1134 / 1618	1260 / 1374	1260 / 1374	1240 / 1400	1170 / 1550
F	1450 / 1934	1477 / 1961	1628 / 1742	1654 / 1768	1631 / 1791	1456 / 1836

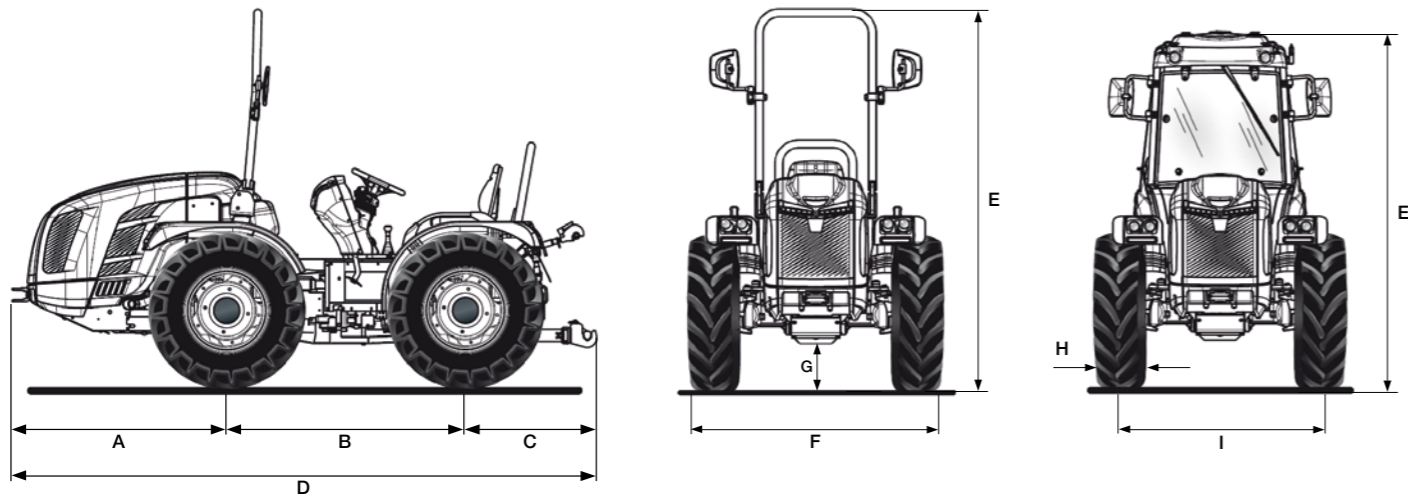
\* Dimensions in mm - min / max  
H = Tyre width - I = Wheel track - F = Tractor width

TECHNICAL FEATURES	VEGA K90 RS
<b>ENGINE</b>	Kubota V3800-CR-T-EW03
Number of cylinders	4 in-line
Displacement (cm3)	3,769
Intake	Turbo
Fuel system	Direct injection "Common rail"
Emission level	Stage v
Balancing	Counter-balance shafts
Power (kW/HP)	54.6 / 75
Rated speed (rpm)	2,400
Maximum torque (Nm/rpm)	305.4 / 1,500
Speed management	Electronically regulated with a console 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 (lt)	54
<b>CHASSIS</b>	Swinging integral chassis (±15°) OS-FRAME with steering wheels
<b>DRIVE</b>	Four-wheel drive. Front-wheel drive disengagement with electro-hydraulic control
<b>TRANSMISSION</b>	32 speeds synchronized gearbox: 16 FWD and 16 REV with synchronized reverser
Min/max travel speed (km/h)	0.7 / 40
<b>POWER SHUTTLE EASYDRIVE® (optional)</b>	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
<b>DIFFERENTIAL</b>	Front and rear. Differential lock: front and rear simultaneously or only rear with electro-hydraulic control
<b>AXLES</b>	Front and rear with planetary reduction units
<b>REAR PTO</b>	Independent from the gearbox and synchronized 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)	Standard: 540/540E - Optional: 540/1,000
<b>HYDRAULIC SYSTEM</b>	Double circuit with independent pumps and heat exchanger
Flow rate to the hydroguide and the electro-hydraulic controls (lt/min)	33.1
Flow rate to the lift and the control valves (lt/min)	27.7 (optional oversized pump with flow rate 49 lt/min)
Maximum hydraulic pressure (bar)	180
<b>REAR CONTROL VALVES</b>	Mechanical control, standard free flow oil return
Standard	2 double acting (total 5 hydraulic outlets)
Optional	Up to a maximum of 9 hydraulic outlets
Joystick (optional)	Proportional electronic control of lifts and rear control valves (opt.) consisting of: 1 continuous flow with adjustable flow rate and free flow oil return, 5 double-acting (replacing the standard ones) and oversized pump. Potentiometer for adjusting joystick sensitivity.
<b>REAR LIFT</b>	By two external rams. Standard: raising/lowering - Optional: position and draft control
Three-point hitches	Standard: normal couplings cat. 1 and 2. Optional: quick-couplings cat. 1 and 2, arms adjustable in length or quick-couplings cat. 1 and 2, L-shaped, arms adjustable in length and hooks adjustable in 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
<b>FRONT LIFT (optional)</b>	By two external rams with front protection and 2 double acting control valves with free return (total 4 hydraulic outlets)
Three-point hitches	Rigid with quick couplings cat. 1
Lifting capacity (kg)	800
<b>DRIVING PLATFORM</b>	Reversible with platform suspended on silent block. Suspended pedals mounted on rotating control column
Steering wheel	Tilt adjustable
Seat	With gas spring for easy tipping, safety belt and 'man on board sensor'. Standard: comfortable sprung seat, adjustable according to the driver's weight Optional: 'Kab Seating', 'Grammer' or 'Cobo' pneumatic seat
<b>SERVICE BRAKES</b>	Oil bath discs with hydrostatic control, acting on the four wheels with automatic engagement of the 4-wheel drive. Independent manoeuvring brakes acting on the rear wheels
Parking brake	Automatic and independent Brake-Off acting as emergency brake with proportional action
<b>STEERING</b>	Hydrostatic steering acting on the front wheels. Flow deviator for steering unit
<b>SAFETY</b>	Standard: front homologated roll-bar, with gas springs for an easy lowering and lifting
<b>CABIN (optional)</b>	Homologated and soundproof with monocoque body mounted on silent-blocks, beacon lamp and fabric seat. Ventilation, heating and air-conditioning system. Car radio preparation. Available with 6-upright structure (SPACE CLIMA) or 4-upright conical structure (VISTA CLIMA). Optional: active carbon filters
<b>DASHBOARD</b>	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
<b>ELECTRIC SYSTEM</b>	Battery 100 Ah / 12 V - Alternator 95 A - Rear power outlets: 7 pin and 3 pin
<b>TYRES</b>	280/70R18 * 280/70R18 Galaxy Garden * 320/65R18 * 250/85R20 * 300/70R20 * 300/70R20 Galaxy Garden * 320/70R20 * 340/65R18 * 340/65R20 * 31x15.50-15 XTC or STG * 13.6-16 Garden * 280/70R20 PneuTrac
<b>TOW HOOKS (standard)</b>	Rear CUNA and front
Optional	Rear tow hook: EC approved or EC with Slider frame or CUNA with Slider frame or EC tow bar with Slider frame
<b>WEIGHT IN ORDER OF SPEED</b>	With roll-bar: 2380 kg - With cab: 2530 kg
<b>ADDITIONAL OPTIONS</b>	Front bumper, beacon lamp, rear adjustable working light, front weights 150 kg and wheel weights 50 kg each, anti-dumping system, black and white 'Special Edition' livery



# VEGA K90 DUALSTEER®

Data sheet



A	B	C	D	E min/max (with roll-bar)	E min/max (with cab)	F min/max	G min/max
1348	1495	932	3775	2254 / 2364	2139 / 2249	1291 / 1961	161 / 271

\* Dimensions in mm

	340/65 R18	280/70 R18	280/70 R18 Galaxy Garden	320/65 R18	250/85 R20	300/70 R20	300/70 R20 Galaxy Garden
	with adjustable rim	with adjustable rim	with adjustable rim	with adjustable rim	with adjustable rim	with adjustable rim	with adjustable rim
H	343	270	270	320	245	286	286
I	1098 / 1538	1098 / 1538	1098 / 1538	1098 / 1538	1046 / 1588	1134 / 1618	1134 / 1618
F	1441 / 1881	1368 / 1808	1368 / 1808	1441 / 1881	1291 / 1833	1420 / 1904	1420 / 1904

	320/70 R20	340/65 R20	31x15.50-15 XTC	31x15.50-15 STG	280/70 R20 Pneu Trac	13.6-16 Garden
	with adjustable rim	with adjustable rim	with fixed rim	with fixed rim	with adjustable rim	with fixed rim
H	316	343	368	394	286	391
I	1134 / 1618	1134 / 1618	1260 / 1374	1260 / 1374	1086 / 1550	1240 / 1400
F	1450 / 1934	1477 / 1961	1628 / 1742	1654 / 1768	1372 / 1836	1631 / 1791

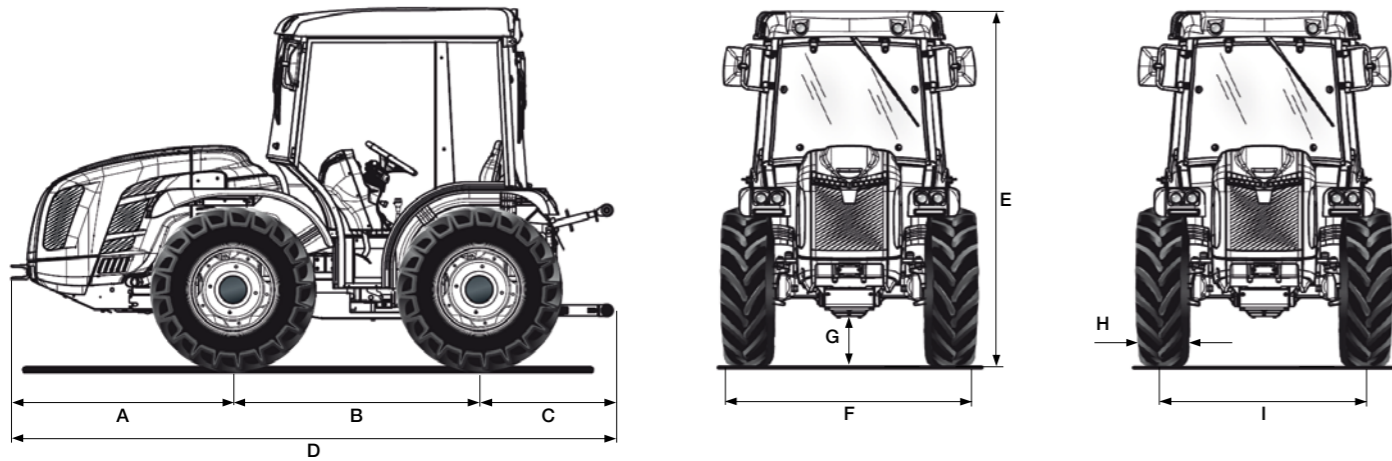
\* Dimensions in mm - min / max  
H = Tyre width - I = Wheel track - F = Tractor width

TECHNICAL FEATURES	VEGA K90 DUALSTEER®
<b>ENGINE</b>	Kubota V3800-CR-T-EW03
Number of cylinders	4 in-line
Displacement (cm3)	3,769
Intake	Turbo
Fuel system	Direct injection "Common rail"
Emission level	Stage v
Balancing	Counter-balance shafts
Power (kW/HP)	54.6 / 75
Rated speed (rpm)	2,400
Maximum torque (Nm/rpm)	305.4 / 1,500
Speed management	Electronically regulated with a console 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 (lt)	54
<b>CHASSIS</b>	Swinging integral chassis (±15°) OS-FRAME with central articulation and steering wheels
<b>DRIVE</b>	Four-wheel drive. Front-wheel drive disengagement with electro-hydraulic control
<b>TRANSMISSION</b>	32 speeds synchronized gearbox: 16 FWD and 16 REV with synchronized reverser
Min/max travel speed (km/h)	0.7 / 40
<b>POWER SHUTTLE EASYDRIVE® (optional)</b>	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
<b>DIFFERENTIAL</b>	Front and rear. Differential lock: front and rear simultaneously or only rear with electro-hydraulic control
<b>AXLES</b>	Front and rear with planetary reduction units
<b>REAR PTO</b>	Independent from the gearbox and synchronized 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)	Standard: 540/540E - Optional: 540/1,000
<b>HYDRAULIC SYSTEM</b>	Double circuit with independent pumps and heat exchanger
Flow rate to the hydroguide and the electro-hydraulic controls (lt/min)	33.1
Flow rate to the lift and the control valves (lt/min)	27.7 (optional oversized pump with flow rate 49 lt/min)
Maximum hydraulic pressure (bar)	180
<b>REAR CONTROL VALVES</b>	Mechanical control, standard free flow oil return
Standard	2 double acting (total 5 hydraulic outlets)
Optional	Up to a maximum of 9 hydraulic outlets
Joystick (optional)	Proportional electronic control of lifts and rear control valves (opt.) consisting of: 1 continuous flow with adjustable flow rate and free flow oil return, 5 double-acting (replacing the standard ones) and oversized pump. Potentiometer for adjusting joystick sensitivity.
<b>REAR LIFT</b>	By two external rams. Standard: raising/lowering - Optional: position and draft control
Three-point hitches	Standard: normal couplings cat. 1 and 2. Optional: quick-couplings cat. 1 and 2, arms adjustable in length or quick-couplings cat. 1 and 2, L-shaped, arms adjustable in length and hooks adjustable in 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
<b>FRONT LIFT (optional)</b>	By two external rams with front protection and 2 double acting control valves with free return (total 4 hydraulic outlets)
Three-point hitches	Rigid with quick couplings cat. 1
Lifting capacity (kg)	800
<b>DRIVING PLATFORM</b>	Reversible with platform suspended on silent block. Suspended pedals mounted on rotating control column
Steering wheel	Tilt adjustable
Seat	With gas spring for easy tipping, safety belt and 'man on board sensor'. Standard: comfortable sprung seat, adjustable according to the driver's weight Optional: 'Kab Seating', 'Grammer' or 'Cobo' pneumatic seat
<b>SERVICE BRAKES</b>	Oil bath discs with hydrostatic control, acting on the four wheels with automatic engagement of the 4-wheel drive. Independent manoeuvring brakes acting on the rear wheels
Parking brake	Automatic and independent Brake-Off acting as emergency brake with proportional action
<b>STEERING</b>	Double steering system Dualsteer® with 4-cylinders. Hydrostatic steering acting on front wheels and central joint. Flow deviator for steering unit
<b>SAFETY</b>	Standard: front homologated roll-bar, with gas springs for an easy lowering and lifting
<b>CABIN (optional)</b>	VISTA CLIMA with 4-upright and conical structure, homologated and soundproofed with monocoque body mounted on silent-blocks, beacon lamp and fabric seat. Ventilation, heating and air-conditioning system. Car radio preparation. Optional: active carbon filters
<b>DASHBOARD</b>	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
<b>ELECTRIC SYSTEM</b>	Battery 100 Ah / 12 V - Alternator 95 A - Rear power outlets: 7 pin and 3 pin
<b>TYRES</b>	280/70R18 * 280/70R18 Galaxy Garden * 320/65R18 * 250/85R20 * 300/70R20 * 300/70R20 Galaxy Garden * 320/70R20 * 340/65R18 * 340/65R20 * 31x15.50-15 XTC or STG * 13.6-16 Garden * 280/70R20 PneuTrac
<b>TOW HOOKS (standard)</b>	Rear CUNA and front
Optional	Rear tow hook: EC approved or EC with Slider frame or CUNA with Slider frame or EC tow bar with Slider frame
<b>WEIGHT IN ORDER OF SPEED</b>	With roll-bar: 2450 kg - With cab: 2580 kg
<b>ADDITIONAL OPTIONS</b>	Front bumper, beacon lamp, rear adjustable working light, front weights 150 kg and wheel weights 50 kg each, anti-dumping system, black and white 'Special Edition' livery



# VEGA K90 MT

Data sheet



A	B	C	D	E min/max	F min/max	G min/max
1348	1495	932	3775	2070 / 2180	1697 / 1961	161 / 206

\* Dimensions in mm

	31x15.50-15 XTC	31x15.50-15 STG	440/50 R17 All-Ground	425/55 R17 AC70G	340/65 R20
	with fixed rim	with fixed rim	with fixed rim	with fixed rim	with adjustable rim
<b>H</b>	368	394	431	430	343
<b>I</b>	1510	1510	1476	1476	1354 / 1618
<b>F</b>	1878	1904	1907	1906	1697 / 1961

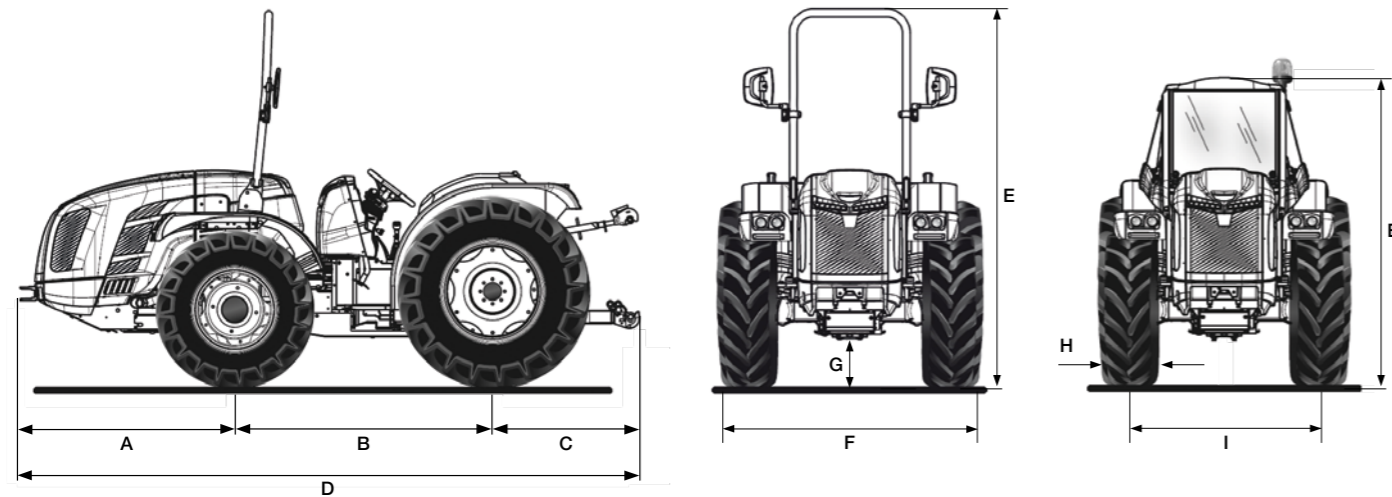
\* Dimensions in mm - min / max  
H = Tyre width - I = Wheel track - F = Tractor width

TECHNICAL FEATURES	VEGA K90 MT
<b>ENGINE</b>	Kubota V3800-CR-T-EW03
Number of cylinders	4 in-line
Displacement (cm <sup>3</sup> )	3,769
Intake	Turbo
Fuel system	Direct injection "Common rail"
Emission level	Stage v
Balancing	Counter-balance shafts
Power (kW/HP)	54.6 / 75
Rated speed (rpm)	2,400
Maximum torque (Nm/rpm)	305.4 / 1,500
Speed management	Electronically regulated with a console 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 (lt)	54
<b>Air filter</b>	Integrated cyclone prefilter with high-performance air filter and front air intake
<b>CHASSIS</b>	Swinging integral chassis (±15°) OS-FRAME with steering wheels
<b>DRIVE</b>	Four-wheel drive. Front-wheel drive disengagement with electro-hydraulic control
<b>TRANSMISSION</b>	32 speeds synchronized gearbox: 16 FWD and 16 REV with synchronized reverser
Min/max travel speed (km/h)	0.7 / 40
<b>POWER SHUTTLE EASYDRIVE® (optional)</b>	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
<b>DIFFERENTIAL</b>	Front and rear. Differential lock: front and rear simultaneously or only rear with electro-hydraulic control
<b>AXLES</b>	Front and rear with planetary reduction units
<b>REAR PTO</b>	Independent from the gearbox and synchronized 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)	Standard: 540/1000 - Optional: 540/540E
<b>HYDRAULIC SYSTEM</b>	Double circuit with independent pumps and heat exchanger
Flow rate to the hydroguide and the electro-hydraulic controls (lt/min)	33.1
Flow rate to the lift and the control valves (lt/min)	27.7
Maximum hydraulic pressure (bar)	180
<b>REAR CONTROL VALVES</b>	Mechanical control, standard free flow oil return
Standard	1 single acting and 2 double acting (total 6 hydraulic outlets)
Optional	Up to a maximum of 8 hydraulic outlets
Joystick (optional)	Proportional electronic control of rear lift with Dual Floating System™ hydraulic suspension and front lift (opt.), 1 single acting and 3 double-acting (replacing the standard ones) without free flow oil return. Potentiometer for adjusting joystick sensitivity.
<b>REAR LIFT</b>	Four external rams with Dual Floating System® hydraulic suspension
Three-point hitches	Quick-couplings cat. 1 and 2, L-shaped, arms adjustable in length and hooks adjustable in 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
<b>FRONT LIFT (optional)</b>	By two external rams with front protection and 2 double acting control valves with free return (total 4 hydraulic outlets)
Three-point hitches	Rigid with quick couplings cat. 1
Lifting capacity (kg)	800
<b>DRIVING PLATFORM</b>	Reversible with wide platform suspended on silent block. Suspended pedals mounted on rotating control column
Steering wheel	Tilt adjustable
Seat	With gas spring for easy tipping, safety belt and 'man on board sensor'. Standard: comfortable sprung seat, adjustable according to the driver's weight Optional: 'Grammer' or 'Cobo' pneumatic seat
<b>SERVICE BRAKES</b>	Oil bath discs with hydrostatic control, acting on the four wheels with automatic engagement of the 4-wheel drive. Independent manoeuvring brakes acting on the rear wheels
Parking brake	Automatic and independent Brake-Off acting as emergency brake with proportional action
<b>STEERING</b>	Hydrostatic steering acting on the front wheels. Flow deviator for steering unit
<b>SAFETY</b>	Standard: 6-upright semi-cab and beacon lamp
<b>CABIN (optional)</b>	SPACE CLIMA with 6-upright, homologated and soundproofed with monocoque body mounted on silent blocks, beacon lamp and fabric seat. Ventilation, heating and air-conditioning system. Car radio preparation. Optional: active carbon filters
<b>DASHBOARD</b>	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
<b>ELECTRIC SYSTEM</b>	Battery 100 Ah / 12 V - Alternator 95 A - Rear power outlets: 7 pin and 3 pin
<b>TYRES</b>	31x15.50-15 XTC or STG * 440/50-17 All-Ground * 340/65R20 * 425/55-17 AC70G
<b>TOW HOOKS (standard)</b>	Rear CUNA and front
Optional	Rear tow hook: EC approved or EC with Slider frame or CUNA with Slider frame or EC tow bar with Slider frame
<b>WEIGHT IN ORDER OF SPEED</b>	With semi-cab: 2480 kg - With cab: 2560 kg
<b>ADDITIONAL OPTIONS</b>	Front bumper, front weights 150 kg and wheel weights 50 kg each, anti-dumping system, black and white 'Special Edition' livery



# VEGA K90 SDT RS

Data sheet



A	B	C	D	E min/max (with roll-bar)	E min/max (with cab)	G min/max
1348	1607	968	3923	2216 / 2316	1765 / 1865	157 / 257

\* Dimensions in mm

	260/70 R16	300/70 R20	260/70 R16	340/65 R20	280/70 R18	360/70 R20	280/70 R18	320/70 R24
	front	rear	front	rear	front	rear	front	rear
<b>H</b>	258	286	258	343	265	357	265	316
<b>I</b>	1122 / 1522	1054 / 1490	1122 / 1522	1054 / 1490	1098 / 1538	1170 / 1490	1098 / 1538	1034 / 1518
<b>F</b>	1380 / 1780	1340 / 1776	1380 / 1780	1397 / 1833	1363 / 1803	1527 / 1847	1363 / 1803	1350 / 1834

	320/65 R18	380/70 R20	340/65 R18	420/65 R24	320/65 R18	320/70 R24	280/70 R18	380/70 R20
	front	rear	front	rear	front	rear	front	rear
<b>H</b>	319	370	343	418	319	316	265	370
<b>I</b>	1166 / 1470	1170 / 1490	1166 / 1470	1190 / 1460	1166 / 1470	1034 / 1518	1098 / 1538	1170 / 1490
<b>F</b>	1485 / 1789	1540 / 1860	1509 / 1813	1608 / 1878	1485 / 1789	1350 / 1834	1363 / 1803	1540 / 1860

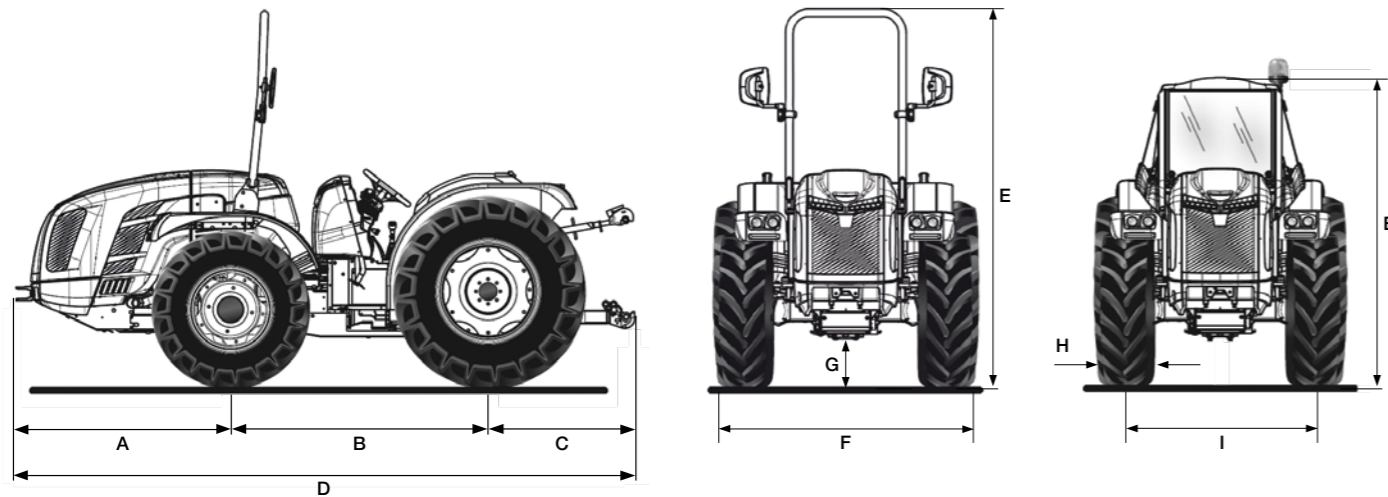
\* Dimensions in mm - min / max  
H = Tyre width - I = Wheel track - F = Tractor width

TECHNICAL FEATURES	VEGA K90 SDT RS
<b>ENGINE</b>	Kubota V3800-CR-T-EW03
Number of cylinders	4 in-line
Displacement (cm <sup>3</sup> )	3,769
Intake	Turbo
Fuel system	Direct injection "Common rail"
Emission level	Stage v
Balancing	Counter-balance shafts
Power (kW/HP)	54.6 / 75
Rated speed (rpm)	2,400
Maximum torque (Nm/rpm)	305.4 / 1,500
Speed management	Electronically regulated with a console 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 (lt)	70 (version with roll-bar) - 54 (version with cabin)
<b>CHASSIS</b>	Swinging integral chassis (±15°) OS-FRAME with steering wheels
<b>DRIVE</b>	Four-wheel drive. Front-wheel drive disengagement with electro-hydraulic control
<b>TRANSMISSION</b>	32 speeds synchronized gearbox: 16 FWD and 16 REV with synchronized reverser
Min/max travel speed (km/h)	0.7 / 40
<b>POWER SHUTTLE EASYDRIVE® (optional)</b>	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
<b>DIFFERENTIAL</b>	Front and rear. Differential lock: front and rear simultaneously or only rear with electro-hydraulic control
<b>AXLES</b>	Front with planetary reduction units and rear with bull-gear units
<b>REAR PTO</b>	Independent from the gearbox and synchronized 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)	Standard: 540/540E - Optional: 540/1,000
<b>HYDRAULIC SYSTEM</b>	Double circuit with independent pumps and heat exchanger
Flow rate to the hydroguide and the electro-hydraulic controls (lt/min)	33.1
Flow rate to the lift and the control valves (lt/min)	27.7 (optional oversized pump with flow rate 49 lt/min)*
Maximum hydraulic pressure (bar)	180
<b>REAR CONTROL VALVES</b>	Mechanical control, standard free flow oil return
Standard	2 double acting (total 5 hydraulic outlets)
Optional	Up to a maximum of 9 hydraulic outlets
Joystick (optional)	Proportional electronic control of lift and rear control valves consisting of: 1 continuous flow with adjustable flow rate and free flow oil return, 3 double-acting (replacing the standard ones) and oversized pump. Potentiometer for adjusting joystick sensitivity
<b>REAR LIFT</b>	By two external rams. Standard: raising/lowering - Optional: position and draft control
Three-point hitches	Standard: normal couplings cat. 1 and 2. Optional: fixed arms with quick-couplings cat. 1 and 2 or L-shaped arms with quick-couplings cat. 1 and 2
Three-point tie bar	Standard: with manual adjustment - Optional: hydraulically controlled upper link and tie rod link arm
Ball joint lifting capacity (kg)	2,700
<b>FRONT LIFT (optional)</b>	By two external rams with front protection and 2 double acting control valves with free return (total 4 hydraulic outlets)
Three-point hitches	Rigid with quick couplings cat. 1
Lifting capacity (kg)	800
<b>DRIVING PLATFORM</b>	Monodirectional with platform suspended on silent-blocks. Suspended pedals mounted on control tower
Steering wheel	Tilt adjustable
Seat	With gas spring for easy tipping, safety belt and 'man on board sensor'. Standard: comfortable sprung seat, adjustable according to the driver's weight Optional: 'Kab Seating' or 'Grammer' pneumatic seat
<b>SERVICE BRAKES</b>	Oil bath discs with hydrostatic control, acting on the four wheels with automatic engagement of the 4-wheel drive. Independent manoeuvring brakes acting on the rear wheels
Parking brake	Standard: acting on the rear transmission, with lever control - Optional: automatic and independent Brake-Off acting as emergency brake with proportional action (standard with cab)
<b>STEERING</b>	Hydrostatic steering acting on the front wheels
<b>SAFETY</b>	Standard: front homologated roll-bar, with gas springs for an easy lowering and lifting
<b>CABIN (optional)</b>	COMPACT PRO low-profile, pressurised and homologated cat. 4. Soundproof, with monocoque body mounted on silent-blocks, beacon lamp and fabric seat. Safety cell integrated into the structure, automotive-type instrument dashboard and air vents. Air conditioning and Brake-Off parking brake as standard. Optional: active carbon filters
<b>DASHBOARD</b>	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
<b>ELECTRIC SYSTEM</b>	Battery 100 Ah / 12 V - Alternator 95 A - Rear power outlets: 7 pin and 3 pin
<b>TYRES</b>	260/70R16*300/70R20 - 260/70R16*340/65R20 - 280/70-18*360/70R20 - 280/70-18*320/70R24 - 320/65R18*380/70R20 - 340/65R18*420/65R24 - 320/65R18*320/70R24 - 280/70R18*380/70R20
<b>TOW HOOKS (standard)</b>	Rear CUNA and front
Optional	Rear tow hook: EC approved or EC with Slider frame or CUNA with Slider frame or EC tow bar with Slider frame
<b>WEIGHT IN ORDER OF SPEED</b>	With roll-bar: 2520 kg - With cab: 2700 kg
<b>ADDITIONAL OPTIONS</b>	Front bumper, beacon lamp, front plate for implements connection, front weights kg 150, wheel weights kg 50 each, cast iron flange kg 70 each for 24" rear wheels, black and white 'Special Edition' livery



# VEGA K90 SDT DUALSTEER®

## Data sheet



A	B	C	D	E min/max (with roll-bar)	E min/max (with cab)	G min/max
1348	1607	968	3923	2216 / 2316	1765 / 1865	156 \ 221

\* Dimensions in mm

	260/70 R16	300/70 R20	260/70 R16	340/65 R20	280/70 R18	360/70 R20	280/70 R18	320/70 R24
	front	rear	front	rear	front	rear	front	rear
<b>H</b>	258	286	258	343	265	357	265	316
<b>I</b>	1122 / 1522	1054 / 1490	1122 / 1522	1054 / 1490	1098 / 1538	1170 / 1490	1098 / 1538	1034 / 1518
<b>F</b>	1380 / 1780	1340 / 1776	1380 / 1780	1397 / 1833	1363 / 1803	1527 / 1847	1363 / 1803	1350 / 1834

	320/65 R18	380/70 R20	340/65 R18	420/65 R24	320/65 R18	320/70 R24	280/70 R18	380/70 R20
	front	rear	front	rear	front	rear	front	rear
<b>H</b>	319	370	343	418	319	316	265	370
<b>I</b>	1166 / 1470	1170 / 1490	1166 / 1470	1190 / 1460	1166 / 1470	1034 / 1518	1098 / 1538	1170 / 1490
<b>F</b>	1485 / 1789	1540 / 1860	1509 / 1813	1608 / 1878	1485 / 1789	1350 / 1834	1363 / 1803	1540 / 1860

\* Dimensions in mm - min / max  
H = Tyre width - I = Wheel track - F = Tractor width

TECHNICAL FEATURES	VEGA K90 SDT DUALSTEER®
<b>ENGINE</b>	Kubota V3800-CR-T-EW03
Number of cylinders	4 in-line
Displacement (cm3)	3,769
Intake	Turbo
Fuel system	Direct injection "Common rail"
Emission level	Stage v
Balancing	Counter-balance shafts
Power (kW/HP)	54.6 / 75
Rated speed (rpm)	2,400
Maximum torque (Nm/rpm)	305.4 / 1,500
Speed management	Electronically regulated with a console 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 (lt)	70 (version with roll-bar) - 54 (version with cabin)
<b>CHASSIS</b>	Swinging integral chassis (±15°) OS-FRAME with central articulation and steering wheels
<b>DRIVE</b>	Four-wheel drive. Front-wheel drive disengagement with electro-hydraulic control
<b>TRANSMISSION</b>	32 speeds synchronized gearbox: 16 FWD and 16 REV with synchronized reverser
Min/max travel speed (km/h)	0.7 / 40
<b>POWER SHUTTLE EASYDRIVE® (optional)</b>	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
<b>DIFFERENTIAL</b>	Front and rear. Differential lock: front and rear simultaneously or only rear with electro-hydraulic control
<b>AXLES</b>	Front with planetary reduction units and rear with bull-gear units
<b>REAR PTO</b>	Independent from the gearbox and synchronized 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)	Standard: 540/540E - Optional: 540/1,000
<b>HYDRAULIC SYSTEM</b>	Double circuit with independent pumps and heat exchanger
Flow rate to the hydroguide and the electro-hydraulic controls (lt/min)	33.1
Flow rate to the lift and the control valves (lt/min)	27.7 (optional oversized pump with flow rate 49 lt/min)
Maximum hydraulic pressure (bar)	180
<b>REAR CONTROL VALVES</b>	Mechanical control, standard free flow oil return
Standard	2 double acting (total 5 hydraulic outlets)
Optional	Up to a maximum of 9 hydraulic outlets
Joystick (optional)	Proportional electronic control of lift and rear control valves consisting of: 1 continuous flow with adjustable flow rate and free flow oil return, 3 double-acting (replacing the standard ones) and oversized pump. Potentiometer for adjusting joystick sensitivity
<b>REAR LIFT</b>	By two external rams. Standard: raising/lowering - Optional: position and draft control
Three-point hitches	Standard: normal couplings cat. 1 and 2. Optional: fixed arms with quick-couplings cat. 1 and 2 or L-shaped arms with quick-couplings cat. 1 and 2
Three-point tie bar	Standard: with manual adjustment - Optional: hydraulically controlled upper link and tie rod link arm
Ball joint lifting capacity (kg)	2,700
<b>FRONT LIFT (optional)</b>	By two external rams with front protection and 2 double acting control valves with free return (total 4 hydraulic outlets)
Three-point hitches	Rigid with quick couplings cat. 1
Lifting capacity (kg)	800
<b>DRIVING PLATFORM</b>	Monodirectional with platform suspended on silent-blocks. Suspended pedals mounted on control tower
Steering wheel	Tilt adjustable
Seat	With gas spring for easy tipping, safety belt and 'man on board sensor'. Standard: comfortable sprung seat, adjustable according to the driver's weight Optional: 'Kab Seating' or 'Grammer' pneumatic seat
<b>SERVICE BRAKES</b>	Oil bath discs with hydrostatic control, acting on the four wheels with automatic engagement of the 4-wheel drive. Independent manoeuvring brakes acting on the rear wheels
Parking brake	Standard: acting on the rear transmission, with lever control - Optional: automatic and independent Brake-Off acting as emergency brake with proportional action (standard with cab)
<b>STEERING</b>	Double steering system Dualsteer® with 4-cylinders. Hydrostatic steering acting on front wheels and central joint
<b>SAFETY</b>	Standard: front homologated roll-bar, with gas springs for an easy lowering and lifting
<b>CABIN (optional)</b>	COMPACT PRO low-profile, pressurised and homologated cat. 4. Soundproof, with monocoque body mounted on silent-blocks, beacon lamp and fabric seat. Safety cell integrated into the structure, automotive-type instrument dashboard and air vents. Air conditioning and Brake-Off parking brake as standard. Optional: active carbon filters
<b>DASHBOARD</b>	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
<b>ELECTRIC SYSTEM</b>	Battery 100 Ah / 12 V - Alternator 95 A - Rear power outlets: 7 pin and 3 pin
<b>TYRES</b>	260/70R16*300/70R20 - 260/70R16*340/65R20 - 280/70-18*360/70R20 - 280/70-18*320/70R24 - 320/65R18*380/70R20 - 340/65R18*420/65R24 - 320/65R18*320/70R24 - 280/70R18*380/70R20
<b>TOW HOOKS (standard)</b>	Rear CUNA and front
Optional	Rear tow hook: EC approved or EC with Slider frame or CUNA with Slider frame or EC tow bar with Slider frame
<b>WEIGHT IN ORDER OF SPEED</b>	With roll-bar: 2570 kg - With cab: 2700 kg
<b>ADDITIONAL OPTIONS</b>	Front bumper, beacon lamp, front plate for implements connection, front weights kg 150, wheel weights kg 50 each, cast iron flange kg 70 each for 24" rear wheels, black and white 'Special Edition' livery



## THE SERVICES

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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.



### LUBRICANTS

We recommend to use the original PowerLube lubricants.



### FINANCIAL SERVICES

Financial solutions to meet the credit requirements.



MADE IN ITALY