



SPARK

145.4 | 155.4 | 165.4 | 175.4
155 | 165 | 175 | 185 | 205 | 215

Stage V

SPARK VRT

155.4 | 165.4 | 175.4 | 155 | 165 | 175 | 185

Stage V



Bursting with technology.

Lamborghini Spark 145.4-215 tractors combine unique, unmistakable style with the state of the art in agricultural tractor technology. The elegant forms of its inimitable design give the Spark family an exclusive, sophisticated look. A style that stands out from the crowd, reflecting the formidable credentials of a machine that delivers unbeatable productivity. With a choice of 17 models with 4 or 6 cylinder engines with power outputs from 144 to 226 HP, the new Spark family has been developed to offer a choice of unique machines that stand head and shoulders above their counterparts in this class with superlative build quality and reliability, unparalleled technology and an incredible choice of configurations. With different wheelbases, three transmission variants, a variety of cab configurations and countless other options offering the choice you'd expect to find at an exclusive tailor, Spark 145.4-215 tractors can be made to measure to create a bespoke solution that answers every possible need of your farm.

2

Engine

Unrivalled reliability, power and efficiency.

The Spark 145.4-215 family is powered by 4 and 6 cylinder Deutz TCD Stage V engines, which are more responsive than the previous generation, with more torque reserves but less fuel consumption.

The impressive power and sturdy construction of the TCD series make it ideal for tractors destined for extremely heavy use. These engines stand out from the competition with class beating technology such as the electronically controlled Deutz DCR Common Rail fuel injection system, with injection pressures up to 1,600 bar and two injection pumps lubricated

directly by the engine oil circuit for superior reliability. The geometry of the combustion chamber has also been improved, while the turbocharger features a wastegate and, on VRT versions, the cooling system uses an electronically controlled viscostatic fan.

The result of the outstanding technical solutions adopted is an engine that delivers maximum power at 1,900 rpm and maximum torque at 1,400 or 1,500 rpm (depending on the model). As testified by the power and torque curves, the Deutz TCD is an extremely tractable engine, with generous power delivery assured by a practically flat torque curve over a very broad range of engine speeds.



The suite of emissions reduction solutions consists of an electronically modulated, electronically controlled and cooled external exhaust gas recirculation system (EGR) working in conjunction with a diesel oxidation catalyst (DOC), a passive diesel particulate filter (DPF), which requires no regeneration cycles performed by injecting additional fuel into the system, and an SCR selective catalyst reduction system, which uses AdBlue additive to eliminate NOx emissions. A formidable package of high technology, maintenance-free solutions optimised in terms of both function and physical layout on the tractor itself for maximum overall efficiency and minimal operating costs.

The Lamborghini Spark family represents a significant step forward in terms of caring for the environment.

6 cylinder VRT models may be equipped with the new, easy to use and reliable pedal-operated engine brake. When driving downhill while towing or carrying heavy loads, the engine retarder may be used to maintain a steady speed without using the service brakes, offering advantages not only in terms of safety but also in terms of lower maintenance costs.

The radiator pack features a modern and handy design: in addition to offering improved heat dissipation, the new layout also makes maintenance significantly simpler, with each of the all-aluminium radiator elements mounted on hinges. The extremely compact dimensions of the radiator pack when stowed in the normal operating position has made it possible to give the front of the bonnet a sleek, tapered shape, which offers significantly better forward visibility.

The prefilter situated above the radiators uses a series of spiral cyclonic tubes to remove coarser dust particles and debris from the air before it reaches the main filter, and carry them towards the dust ejector on the exterior of the prefilter housing. The next stage in the intake air cleaning process is performed by the tried-and-tested PowerCore filter.



High technology and unparalleled freedom for configuration.

Spark 145.4-215 offer unbeatable choice in terms of transmission configuration, with a host of solutions representing the current state of the art in technology and efficiency. With an extensive choice of configurations based on a 6 speed Powershift gearbox or the VRT continuously variable transmission, the Lamborghini Spark family offers the ideal transmission for any task imaginable.

The Powershift transmission is based on a main gearbox with

6 forward speeds and 3 reverse speeds (all selectable without disengaging drive), and a 5 speed manual range gearbox, for a total of 30+15 speeds (which may be increased to 54+27 speeds with the addition of creeper). All transmission variants feature a hydraulic reverse shuttle, the button-operated ComfortClutch system (for shifting without using the clutch pedal), and the Stop&Go and SpeedMatching functions. The use of proportional solenoid valves offers a smooth shift action comparable to a VRT transmission but with the typical efficiency of a mechanical Powershift range gearbox.



RCshift models are equipped with a completely automated transmission, with 5 robotically selected ranges managed entirely by exclusive software developed by Lamborghini Trattori, which, in addition to fully automatic mode, also offers the driver the choice of semi-automatic and manual modes.

Both transmission versions are designed and built to attain maximum speed at very low engine speeds, and as a result, the tractor may be driven at a road speed of 40 km/h at less than 1,200 rpm! Intelligent transmission management technology means that on the Spark family, it's the tractor that adapts to the driver, not the other way around.

The RCshift transmission offers 3 driving modes:

1. Manual: the driver selects both the gear and Powershift range required
2. Semi-automatic: the driver selects the range only, and the electronic control unit automatically selects and engages the most appropriate Powershift gear for the working conditions

3. Auto: The system automatically selects the gear range and Powershift gear ratios for towing work in the field and for transport work on the road.

The VRT continuously variable transmission is also designed to give the tractor a top speed of up to 50 km/h attainable at economy engine speed. Featuring automatically selected mechanical ranges, this transmission is extremely efficient and comfortable to use, and gives Spark tractors the ability to vary ground speed seamlessly from 0 metres an hour all the way up to top speed. The electronic control units of the engine and transmission are in continuous dialogue to ensure that the most efficient ratio is always selected for current load and speed conditions. The VRT version is equipped with the Trailer-stretch function which increases safety when driving with a trailer.

TRANSMISSION DATA	SPARK		
	Powershift	RCshift	VRT
Transmission type	Powershift	Semi-automatic	Continuously variable
Transmission configuration	5 manual ranges x 6 Powershift speeds	5 semi-automatic ranges x 6 Powershift speeds	Continuously variable transmission with automatically selected ranges
No. of speeds	30+15/54+27 with supercreeper gear	54+27 with supercreeper gear	Infinitely variable speed (from 0 to 50 km/h)
Range selection	Mechanical lever + button/pedal operated clutch	Joystick + consent button (in "Manual/semi auto" modes); Automatic (in "Auto" mode)	Automatic
Powershift gearbox with proportional solenoid valves	Yes	Yes	-
Automatic Powershift (APS)	No	Yes	-
Automatic Powershift gearbox speed matching during range shifts (SpeedMatching)	Yes	Yes	-
Supercreeper gear	mechanical lever	mechanical lever	continuously variable



A system designed to deliver uncompromised performance at all times.

With an extensive range of options - such as choice of mechanically or electronically controlled distributors - and with up to 10 rear and 4 front hydraulic couplers, the hydraulic system equipping Lamborghini Spark 145.4-215 tractors offers unparalleled freedom for configuration.

In all configurations, the steering circuit is fed by a dedicated hydraulic pump.

Numerous options are offered for the pump feeding the main hydraulic circuit. 155, 165 and 175 models with Powershift or RCshift transmissions are equipped as standard with an open centre system with an 84 l/min pump which, as an option, may be replaced by a 120 or 160 l/min Load Sensing pump. 185, 205 and 215 models with Powershift or RCshift transmissions, and all VRT models, on the other hand, are equipped as standard with a Load Sensing system with a 120 l/min pump, while a 160 l/min pump [or a 170 l/min pump for 155, 165, 175 and 185 VRT models] is available as an option. Versions with an open centre system are equipped with a pair of rear mechanically controlled distributors [4 couplers] which, as an option, may be increased to up to 4 distributors [8 couplers], while versions with a Load Sensing pump are available with up to 10 electronically controlled couplers. VRT models feature an independent hydraulic oil tank separate from the transmission oil system. This prevents contamination of the hydraulic oil with swarf and debris, significantly extending scheduled service intervals.

Powershift and RCshift models are equipped as standard with a 6,200 Kg capacity rear lift, while a 9,700 Kg lift is available as an option.

VRT versions, on the other hand, are equipped with the high capacity lift version as standard.

The EHR electronic control system manages draft control, position control and mixed/float mode functions, and, on tractors equipped with the optional ground speed radar, also controls slippage. Other functions integrated as standard in the EHR system are: quick soil engagement, ride control for transporting implements, preset lift position lock, implement lift height limiter, and rate of drop control.

The hydraulic system of Lamborghini Spark 145.4-215 tractors also permits the installation of a new front lift, with a maximum load capacity of 5,450 Kg with position control function, together with a carrier designed specifically to work in conjunction with the front suspension. The sturdy, compact new carrier also includes two dedicated hydraulic distributors and an integrated ISOBUS terminal, and features a tapered design for minimal loss in steering capacity.

All the distributors may be locked if needed and configured to operate in either single or double acting mode. Naturally, all electronically controlled distributors also feature time and flow rate setting functions. To make so much advanced technology as simple as possible to use, all the controls are colour coded in accordance with the brand's tried-and-tested layout, letting the driver identify which control is associated with which hydraulic coupler easily and with no guesswork.



For maximum productivity in all possible working conditions, Spark 145.4-215 tractors come as standard with a PTO offering all four of the most commonly used speed modes in the industry (540, 540ECO, 1000 and 1000ECO), and with a progressively engaged electrohydraulic clutch to ensure that implements always start smoothly and gradually. All variants feature Auto PTO mode, which automatically disengages and re-engages the PTO in relation to the vertical position of the rear lift.

Tractors with a front lift may also be equipped with an optional front PTO with both the standard 1000 rpm mode and 1000ECO mode.

Managing the PTOs on Lamborghini Spark tractors is simple and rational: the electrohydraulic controls in the cab are duplicated on the rear mudguards, while the operator can monitor the effective rotational speeds of the PTOs from practical displays.



Supreme comfort and simplicity.

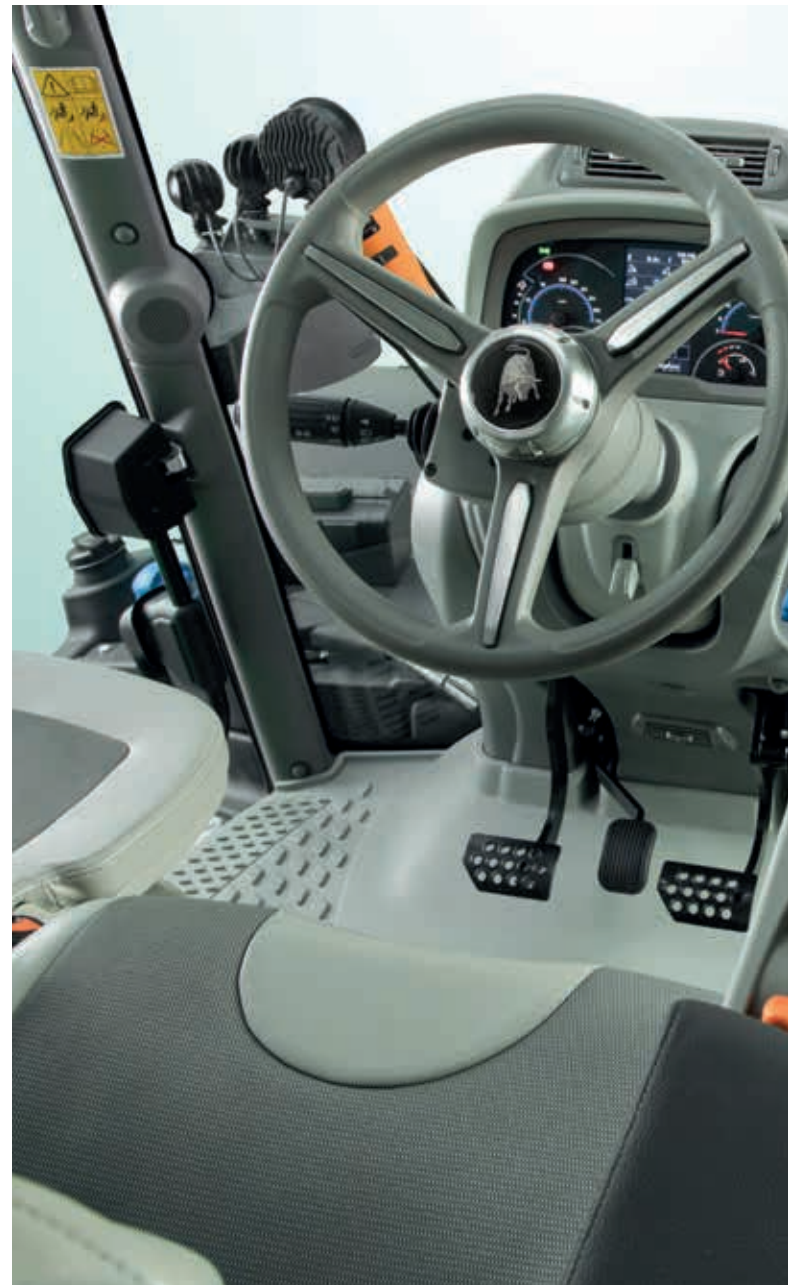
The MaxiVision cab offers class beating technology and comfort. The ergonomic layout of the controls, which are organised logically and rationally and with all the information needed displayed clearly, makes these tractors significantly easier to use and lets the driver feel immediately at home.

The MaxiVision cab is offered in three different trim levels, which differ essentially in relation to the transmission and hydraulic distributor configuration of the tractor.

At the top of the range, on RCshift and VRT versions, the cab features a multifunction armrest integrated in the driver seat incorporating all the controls for operating the machine and implements. These controls are clearly identified for simple, intuitive usage. The controls for the work and road lights are organised on a single lighting control panel.

Ensuring in-cab comfort are the electronically controlled automatic climate control system and an anti-vibration package offered with a number of options, such as a choice of mechanical or pneumatic cab suspension.

The innovation in the cab even extends to the driver seat, which is available as standard with latest generation, self-levelling air suspension. For even more comfort, Spark 145.4-215 tractors may be equipped with the active suspension driver seat, while a broad, comfortably padded seat is also available for a passenger. All the operating parameters of machine are monitored continuously by two different multimedia devices: the InfoCentre^{Pro}, situated on the dashboard, providing information on the operating status of all the systems and devices on the tractor; and the iMonitor, the innovative ISOBUS-compatible multimedia interface, for managing the configuration of all operating parameters.



The iMonitor lets the operator interface with the machine by simply touching the screen or from the practical control panel on the armrest. For even greater productivity, the iMonitor may be used in conjunction with SDF Smart Farming Solutions satellite guidance systems.

Numerous improvements have also been introduced for the external lighting system, which now features 1,700 lumen 360° H9 halogen lights as standard. As an alternative, the tractor may be equipped with LED lights with an incredible output of 2,500 lumens for almost daylight-like illumination even in total darkness.

Technology: the future is already here.

The already class-beating degree of automation offered by Lamborghini Spark 145.4-215 tractors may be taken to even greater heights with options such as automatic guidance, available with a precision of ± 2 cm.

These tractors are also fully compatible with the ISOBUS 11783 standard, with an optimised interface for immediate and intuitive connection to implements and making it no longer necessary to clutter the cab with impractical and complex additional control units for implements. With ISOBUS, all you have to do is simply plug in the implement connector and it's ready to go, with a single monitor in the cab replacing the many specific terminals otherwise needed for individual implements.



Unrivalled safety.

The new front carrier, with a tapered conformation in keeping with the design of the rest of the machine, allows for steering angles up to 55° and an incredible 120 mm of travel for the suspension system.

Boasting electronic management, nitrogen accumulators and an excursion of $\pm 10^\circ$, the front axle suspension system features a number of functions, such as:

- adaptive damping stiffness control in relation to terrain conditions;
- load-dependant self-levelling;
- Anti-dive and Anti-rise, which stiffen the suspension under braking and acceleration to limit weight transfer and improve driver comfort;
- Anti-dumping, which continuously monitors and adjusts the operating parameters of the suspension to limit pitching

when driving on the road - a phenomenon encountered in particular with carried implements projecting from the front of the tractor.

The heavy duty rear axle is equipped as standard with a potent new multiple wet disc braking system with Powerbrake, a modern, automotive power assistance system which, in addition to reducing the pedal force necessary to operate the brakes, also permits up to 10 emergency brake applications even after the engine has been switched off.

All Spark models can be equipped with either hydraulic dual mode, pneumatic trailer brakes or a combination of both. In case the VRT tractors are equipped with pneumatic trailer brakes, the tractor is also equipped with the patented aTBM - advanced trailer brakes system, which increases safety and comfort while driving with a trailed implement.



Precision is the basic prerequisite for productivity.

SDF Smart Farming Solutions combines a large number of digital solutions for efficient and comfortable operation of tractors. These solutions include reliable and extremely precise auto-guidance systems, ISOBUS applications and a number of data management systems. The iMonitor is a simple to use centralised controller which plays a key role in the majority of these solutions and applications.

SDF Guidance

SDF Guidance

Auto-guidance systems feature increasingly as standard equipment in the tractors used by many farms today, due to the evident advantages they offer: saving resources, increasing convenience and productivity as well as reliable precision. Operators can trust its high reliability even in difficult working conditions such as fog or night time. Anyone who has ever worked with a steering system will never want to be without it again. Many precision farming applications are based on satellite navigation. Our receivers use free, internationally available signals which offer different accuracy levels depending on the correction service and the receiver model. Our customers can choose the system that best suits their operation.

SDF Data Management

SDF Data management

Efficient data management is becoming increasingly important to optimise work processes. No matter which type of data our customer want to work with, whether it's machine or agronomic data: SDF provides various applications for reliable transfer and insight of valuable data. Using standard file formats, customers can keep an overview at all times and data are transferred in a coordinated manner. This ensures maximum compatibility while our customers are always master of their decisions.

SDF Fleet Management

SDF Fleet management

Optimise operations. Increase efficiency. The new SDF Fleet Management offers customised solutions to manage relevant machine data at a glance. Our customers like farmers, contractors or any other users benefit from full control of their machines by accessing various valuable data. The browser-based SDF Fleet Management application is the central interface to insight telemetry data for Lamborghini Trattori machines. Machine data like fuel level, position or speed are transferred in real time into the application where users can monitor, analyse and optimise the use of their machinery. Error messages can be transmitted to dealer's service manager to prevent upcoming issues and decrease even machine downtime.



Agrirouter

For reliable online data exchange between different endpoints, Lamborghini Trattori provides an interface to the agrirouter. It is a universal data exchange platform that allows farmers and contractors to exchange data like field boundaries or guidelines between machinery and any agricultural software applications [e.g. an FMIS] from a wide range of manufacturers.



ISOBUS

Electronics make agricultural machinery safer, more powerful, more precise and more efficient. ISOBUS connectivity lets the operator use multiple applications to control different implements individually from a single monitor. iMonitor is the central controller for all ISOBUS applications and can perform many different tasks intuitively and easily, such as assigning AUX-N functions, generating and handling application maps and automatically controlling up to 200 different sections. A great number of functions are even available without activation. TIM automises various functions between tractor and implement to increase comfort, efficiency and ensures highest level of work quality. A wide range of Lamborghini Trattori tractor models are already TIM-ready and can easily be activated for full usage of tractor implement management.

HIGHLIGHTS

- Increased productivity
- Easy to use
- Secure data
- Added convenience
- Unprecedented precision
- Advanced connectivity
- Superior compatibility
- Maximised profitability
- More efficient task management

TECHNICAL DATA

SPARK

145.4

155.4

165.4

175.4

ENGINE

Model		Deutz TCD 4.1			
Emissions	Stage	V			
Cylinders / Displacement	no / cc	4 / 4038			
Turbocharger with charge air cooling		■			
Viscostatic fan		■			
Injection pressure (Deutz Common Rail)	bar	1600			
Max. power (ECE R120)	kW / hp	105,9/144 ¹⁾	114,8/156	120,8/164	125,7/171
Max. power with boost (ECE R120)	kW / hp	-	-	125,7/171	-
Power at rated speed [with boost in kW] (ECE R120)	kW / hp	101,1/137 ¹⁾	109,5/149	[119,9] 115,1/157	119,9/163
Speed at maximum power	rpm	1900			
Max. engine speed (rated)	rpm	2100			
Max. torque	Nm	663		699	
Speed at maximum torque	rpm	1500			
Air filter with dust ejector		■			
Fuel tank capacity	l	225			
AdBlue capacity	l	28			
Oil change interval	hours	500			

TRANSMISSION

Model		Powershift/RCshift			
Transmission ratio		1,3436			
Number of gears	qty.	30 + 15			
Number of gears with creeper gearbox	qty.	54 + 27			
Powershift steps [forwards/backwards]	qty.	6/3			
Minimum speed with super creeper gear	kph	0,37			
Top speed 50 km/h	rpm	1969 ECO / 1530 SuperECO			
Top speed 40 km/h	rpm	1575 SuperECO / 1224 UltraECO			
Driving strategies [Auto/Semi-Auto/Manual]		■			
SpeedMatching/SenseShift/ComfortClutch		■			
Electro-hydraulically controlled multi-plate clutch in oil bath		■			
PowerShuttle with SenseClutch [5 control stages]		■			

HYDRAULICS AND LINKAGE

Constant pump capacity [standard]	l/min	84			
LoadSensing pump capacity [optional]	l/min	120/160			
Maximum removable oil quantity	l	40			
Seperate steering pump	l/min	42			
Mechanical auxiliary control units [standard]	qty.	2			
Mechanical auxiliary control units [optional]	qty.	4			
Electrohydraulic auxiliary control valves rear [optional]	qty.	2/4/5			
Electrohydraulic auxiliary control valves front ComfortPack [optional]	qty.	1/2			
Aux valves settable in time and flow - proportional engagement		■			
PowerBeyond		□			
Radar		□			
Rear linkage lifting capacity [standard]	kg	6200			
Rear linkage lifting capacity [optional]	kg	9700			
External operation on rear fenders		■			
Front linkage		□			
Front linkage lifting capacity	kg	4110			
External operation on front lift		□			
Hydraulic upper links		□			

PTO

Rear PTO 540 / 540 ECO / 1000 / 1000 ECO		■			
Front PTO 1000 or 1000 ECO		□			
Automatic PTO		■			

AXLES AND BRAKES

Model front axle		Carraro 20.29			
Suspended front axle		□			
Brakes for front axle		□			
Electro-hydraulic differential lock 100%		■			
ASM system		■			
Performance steering ready with EasySteer function		□			
Steering angle	degree	52			
Brake booster [PowerBrake]		■			
Mechanical park brake		■			
Pneumatic trailer brake		□			
Hydraulic trailer brake		□			

ELECTRICAL SYSTEM

Voltage	V	12			
Battery [standard]	V / Ah	12 / 143			
Battery [option]	V / Ah	12 / 180			
Alternator	V / A	14 / 200			
External socket, 30 A		■			
Interface for attachments 11786 [7-pole]		□			

Technical data		SPARK			
		145.4	155.4	165.4	175.4
CAB					
MaxiVision/MaxiVision 2 depending on equipment				■	
Mechanical cab suspension				□	
Pneumatic cab suspension				□	
Rear view mirrors with courtesy LEDs				■	
Electric and heated rear view mirrors with LEDs				□	
Air conditioning				■	
Automatic A/C system				□	
Roof hatch				■	
High visibility roof "LowE"				□	
High visibility roof FOPS				□	
MaxCom Joystick (only Rcshift)				■	
iMonitor with 12" or 8"				□	
AutoTurn				□	
XTEND				□	
ISOBUS (with front, rear and in-cab connectors)				□	
VRC (Variable Rate Control)				□	
SC (Section Control) 200 sections				□	
MMI with 3 programmable short keys				□	
SR20 RTK receiver				□	
CTM connectivity module				□	
Attachment rail with socket				□	
Light control (WOLP) with coming home function				■	
Comfortip Professional (only with iMonitor)				□	
Seat Max-Comfort Plus XL with heating function				□	
Seat Max-Dynamic Plus DDS XXL with heating and dynamic damping system				□	
Seat Max-Dynamic Evo DDS XXL with synthetic leather, active climate system and dynamic damping system				□	
Passenger seat				■	
Pre-arrangement for radio with antenna and 4 loud speakers				■	
High-level DAB+ Radio with Bluetooth and hands-free function				□	
Halogen work lights				■	
LED work lights				□	
Beacon light LED				□	
LED driving light				□	
iLock function				■	
FRONT LOADER					
Pre-arrangement light kit				□	
Pre-arrangement ready kit (including HydroFix)				□	
Front loader model			ProfiLine FZ 45.1 / ProfiLine FZ 50.1		
Overloading height	mm		up to 4050		
Breakout force 900 mm before the pivot point	daN		up to 3510		
DIMENSIONS AND WEIGHTS					
Front tyres (min.)			230 / 95 R32		
Rear tyres (min.)			270 / 95 R44		
Front tyres (max.)			600 / 60 R28		
Rear tyres (max.)			710 / 60 R38		
Wheelbase	mm		2543		
Length	mm		4193 - 5255		
Height	mm		2920 - 3020		
Width	mm		2360 - 2720		
Ground clearance	mm		390 - 490		
Front axle width (flange to flange)	mm		1850		
Front axle width with brakes (flange to flange)	mm		1890		
Rear axle width (flange to flange)	mm		1720		
Unladen weight, front	kg		2700 - 3140		
Unladen weight, rear	kg		4340 - 4380		
Total unladen weight	kg		7080 - 7480		
Wheel weights			□		
Maximum permissible axle load, front	kg		4700 @ 50 kph		
Maximum permissible axle load, rear	kg		8400 @ 50 kph		
Maximum permissible weight	kg		11.500 @ 50 kph		

STD ■ OPT □ Not available -

Technical data and figures are only provided for guidance. Oil change intervals are also linked to annual/biennial cycles. Lamborghini Trattori is committed to continuously adapting its products to your requirements and therefore reserves the right to make updates without prior notice.

1) The value is in accordance with ECE R24. The homologated power at rated speed as per ECE R120 is 109,5 kW/149hp. This value is indicated in the registering papers.

Technical data		SPARK VRT		
		155.4 VRT	165.4 VRT	175.4 VRT
ENGINE				
Model		Deutz TCD 4.1		
Emissions	Stage	V		
Cylinders / Displacement	no / cc	4 / 4038		
Turbocharger with charge air cooling		■		
E-Viscostatic fan		■		
Injection pressure [Deutz Common Rail]	bar	1600		
Max. power [ECE R120]	kW / hp	114,8/156	120,8/164	125,7/171
Max. power with boost [ECE R120]	kW / hp	-	125,7/171	-
Power at rated speed [with boost in kW] [ECE R120]	kW / hp	109,5/149	[119,9] 115,1/157	119,9/163
Speed at maximum power	rpm	1900		
Max. engine speed [rated]	rpm	2100		
Max. torque	Nm	663	699	
Speed at maximum torque	rpm	1500		
Air filter with dust ejector		■		
Fuel tank capacity	l	225		
AdBlue capacity	l	28		
Oil change interval	hours	500		
TRANSMISSION				
Model		VRT		
Transmission ratio		1,3294		
Top speed 50 km/h	rpm	1831 ECO		1773 SuperECO / 2051 ECO
Top speed 40 km/h	rpm	1464 SuperECO		1418 / 1641 SuperECO
Active standstill [PowerZero]		■		
Cruise control		2+2		
Driving strategies [Auto/PTO/Manual]		■		
PowerShuttle with SenseClutch [5 control stages]		■		
ECO / Power Management		■		
HYDRAULICS AND LINKAGE				
LoadSensing pump capacity [standard]	l/min	120		
LoadSensing pump capacity [optional]	l/min	170		
CleanOil Hydraulic system [separate hydraulic circuit]		■		
Maximum removable oil quantity	l	40		
Separate steering pump	l/min	52		
Electrohydraulic auxiliary control valves rear [standard]	qty.	4		
Electrohydraulic auxiliary control valves rear [optional]	qty.	5		
Electrohydraulic auxiliary control valves front ComfortPack [optional]	qty.	1/2		
Aux valves settable in time and flow - proportional engagement		■		
PowerBeyond		□		
Radar		□		
Rear linkage lifting capacity	kg	9200		
External operation on rear fenders		■		
Front linkage with position control		□		
Front linkage lifting capacity	kg	4110		
External operation on front lift		□		
Hydraulic upper links		□		
PTO				
Rear PTO 540 / 540 ECO / 1000 / 1000 ECO		■		
Front PTO 1000 or 1000 ECO		□		
Automatic PTO		■		
AXLES AND BRAKES				
Model front axle		Carraro 20.29		
Suspended front axle		□		
Brakes for front axle		□		
Electro-hydraulic differential lock 100%		■		
ASM system		■		
Performance steering ready with EasySteer function		□		
Steering angle	degree	55		
Brake booster [PowerBrake]		■		
Electronic parking brake EPB		■		
Pneumatic trailer brake		□		
Hydraulic trailer brake		□		
ELECTRICAL SYSTEM				
Voltage	V	12		
Battery [standard]	V / Ah	12 / 143		
Battery [option]	V / Ah	12 / 180		
Alternator	V / A	14 / 200		
External socket, 30 A		■		
Interface for attachments 11786 [7-pole]		□		

Technical data		SPARK VRT		
		155.4 VRT	165.4 VRT	175.4 VRT
CAB				
MaxiVision			■	
Mechanical cab suspension			■	
Pneumatic cab suspension			□	
Rear view mirrors with courtesy LEDs			■	
Electric and heated rear view mirrors with LEDs			□	
Air conditioning			■	
Automatic A/C system			□	
Roof hatch			■	
High visibility roof "LowE"			□	
High visibility roof FOPS			□	
Multifunction armrest with MaxCom Joystick			■	
iMonitor with 12" or 8"			□	
AutoTurn			□	
XTEND			□	
ISOBUS (with front, rear and in-cab connectors)			□	
TIM (Tractor Implement Management)			□	
VRC (Variable Rate Control)			□	
SC (Section Control) 200 sections			□	
MMI with 3 programmable short keys			□	
SR20 RTK receiver			□	
CTM connectivity module			■	
Attachment rail with socket			□	
Light control (WOLP) with coming home function			■	
Comfortip Professional (only with iMonitor)			□	
Seat Max-Comfort Plus XL with heating function			■	
Seat Max-Dynamic Plus DDS XXL with 23° swivel, heating and dynamic damping system			□	
Seat Max-Dynamic Evo DDS XXL with synthetic leather, 23° swivel, active climate system and dynamic damping system			□	
Passenger seat			■	
Pre-arrangement for radio with antenna and 4 loud speakers			■	
High-level DAB+ Radio with Bluetooth and hands-free function			□	
Halogen work lights			■	
LED work lights			□	
Beacon light LED			□	
LED driving light			□	
iLock function			■	
FRONT LOADER				
Pre-arrangement light kit			□	
Pre-arrangement ready kit (including HydroFix)			□	
Front loader model			ProfiLine FZ 45.1 / ProfiLine FZ 50.1	
Overloading height	mm		up to 4050	
Breakout force 900 mm before the pivot point	daN		up to 3510	
DIMENSIONS AND WEIGHTS				
Front tyres (min.)			230 / 95 R32	
Rear tyres (min.)			270 / 95 R44	
Front tyres (max.)			600 / 60 R28	
Rear tyres (max.)			710 / 60 R38	
Wheelbase	mm		2543	
Length	mm		4193 - 5255	
Height	mm		2920 - 3020	
Width	mm		2405 - 2750	
Ground clearance	mm		390 - 490	
Front axle width (flange to flange)	mm		1850	
Front axle width with brakes (flange to flange)	mm		1890	
Rear axle width (flange to flange)	mm		1876	
Unladen weight, front	kg		2700 - 3140	
Unladen weight, rear	kg		4340 - 4380	
Total unladen weight	kg		7540 - 7940	
Wheel weights			■	
Maximum permissible axle load, front	kg		4700 @ 50 kph	
Maximum permissible axle load, rear	kg		8400 @ 50 kph	
Maximum permissible weight	kg		11.500 @ 50 kph	

STD ■ OPT □ Not available -

Technical data		SPARK					
		155		165	175	185	205
ENGINE							
Model		Deutz TCD 6.1					
Emissions	Stage	V					
Cylinders / Displacement	no / cc	6 / 6057					
Turbocharger with charge air cooling		■					
Viscostatic fan		■					
Injection pressure (Deutz Common Rail)	bar	1600					
Max. power (ECE R120)	kW / hp	114,8/156	120,8/164	129,5/176	138,5/188	152,3/207	156,2/212
Max. power with boost (ECE R120)	kW / hp	-	125,7/171	-	-	-	166,1/226
Power at rated speed (with boost in kW) (ECE R120)	kW / hp	109,9/150	120] 115,1/157	124,4/169	133/181	144,5/197	147,6/201
Speed at maximum power	rpm	1900					
Max. engine speed (rated)	rpm	2100					
Max. torque	Nm	663	699	738	818	849	889
Speed at maximum torque	rpm	1400		1500			
Air filter with dust ejector		■					
Exhaust engine brake		□				-	
Fuel tank capacity	l	280					
AdBlue capacity	l	35					
Oil change interval	hours	500					
TRANSMISSION							
Model		Powershift / RCshift					
Transmission ratio		1,3436		1,3409		1,3395	
Number of gears	qty.	30 +15					
Number of gears with creeper gearbox	qty.	54 + 27					
Powershift steps (forwards/backwards)	qty.	6/3					
Minimum speed with super creeper gear	kph	0,37		0,39			
Top speed 50 km/h	rpm	1969 ECO / 1530 SuperECO		1863 ECO / 1447 SuperECO			
Top speed 40 km/h	rpm	1575 SuperECO / 1224 UltraECO		1490 SuperECO / 1158 UltraECO			
Driving strategies (Auto/Semi-Auto/Manual)		■					
SpeedMatching/SenseShift/ComfortClutch		■					
Electro-hydraulically controlled multi-plate clutch in oil bath		■					
PowerShuttle with SenseClutch (5 control stages)		■					
HYDRAULICS AND LINKAGE							
Standard pump capacity	l/min	84 OC			120 LS		
LoadSensing pump capacity (optional)	l/min	120/160			160		
Maximum removable oil quantity	l	40					
Separate steering pump	l/min	42					
Mechanical auxiliary control units (standard)	qty.	2					
Mechanical auxiliary control units (optional)	qty.	4					
Electrohydraulic auxiliary control valves rear (optional)	qty.	2/4/5					
Electrohydraulic auxiliary control valves front ComfortPack (optional)	qty.	1/2					
Aux valves settable in time and flow - proportional engagement		■					
PowerBeyond		□					
Radar		□					
Rear linkage lifting capacity (standard)	kg	6200				9700	
Rear linkage lifting capacity (optional)	kg	9700				-	
External operation on rear fenders		■					
Front linkage		□					
Front linkage lifting capacity	kg	4110			5450		
External operation on front lift		□					
Hydraulic upper links		□					
PTO							
Rear PTO 540 / 540 ECO / 1000 / 1000 ECO		■					
Front PTO 1000 or 1000 ECO		□					
Front PTO DualSpeed 1000 / 1000 ECO changeable in InfoCentre ^{Pro}		□					
Automatic PTO		■					
AXLES AND BRAKES							
Model front axle		Carraro 20.29			Dana M50	Dana M50/ M60L	Dana M60L
Suspended front axle		□					
Brakes for front axle		□					
External dry disc brakes, front		-				□	
Electro-hydraulic differential lock 100%		■					
ASM system		■					
Performance steering ready with EasySteer function		□					
Steering angle	degree	52					
Brake booster (PowerBrake)		■					
Mechanical park brake		■					
Pneumatic trailer brake		□					
Hydraulic trailer brake		□					
ELECTRICAL SYSTEM							
Voltage	V	12					
Battery (standard)	V / Ah	12 / 143					
Battery (option)	V / Ah	12 / 180					
Alternator	V / A	14 / 200					
External socket, 30 A		■					
Interface for attachments 11786 (7-pole)		□					

Technical data		SPARK					
		155	165	175	185	205	215
CAB							
MaxiVision/MaxiVision 2 depending on equipment					■		
Mechanical cab suspension					□		
Pneumatic cab suspension					□		
Rear view mirrors with courtesy LEDs					■		
Electric and heated rear view mirrors with LEDs					□		
Air conditioning					■		
Automatic A/C system					□		
Roof hatch					■		
High visibility roof "LowE"					□		
High visibility roof FOPS					□		
MaxCom Joystick (only Rcshift)					■		
iMonitor with 12" or 8"					□		
AutoTurn					□		
XTEND					□		
ISOBUS (with front, rear and in-cab connectors)					□		
VRC (Variable Rate Control)					□		
SC (Section Control) 200 sections					□		
MMI with 3 programmable short keys					□		
SR20 RTK receiver					□		
CTM connectivity module					□		
Attachment rail with socket					□		
Light control (WOLP) with coming home function					■		
Comfortip Professional (only with iMonitor)					□		
Seat Max-Comfort Plus XL with heating function					□		
Seat Max-Dynamic Plus DDS XXL with heating and dynamic damping system					□		
Seat Max-Dynamic Evo DDS XXL with synthetic leather, active climate system and dynamic damping system					□		
Passenger seat					■		
Pre-arrangement for radio with antenna and 4 loud speakers					■		
High-level DAB+ Radio with Bluetooth and hands-free function					□		
Halogen work lights					■		
LED work lights					□		
Beacon light LED					□		
LED driving light					□		
iLock function					■		
FRONT LOADER							
Pre-arrangement light kit		□			-		
Pre-arrangement ready kit (including HydroFix)		□			-		
Front loader model		ProfiLine FZ 50.1 / ProfiLine FZ 60.1		ProfiLine FZ 60.1		ProfiLine FZ 80.1	
Overloading height	mm	up to 4050 - 4250		up to 4250		up to 4550	
Breakout force 900 mm before the pivot point	daN	up to 3490 - 3510		up to 3490		up to 3770	
DIMENSIONS AND WEIGHTS							
Front tyres (min.)		230/95 R32		270/95 R36			
Rear tyres (min.)		270/95 R44		380/90R46			
Front tyres (max.)		600/60 R28		600/60 R30			
Rear tyres (max.)		710/60 R38		710/60 R42			
Wheelbase	mm	2767				2848	
Length	mm	4347 - 5712		4397 - 5712		4478 - 5793	
Height	mm	2932 - 3032		3032 - 3082			
Width	mm	2360 - 2760		2482-2762			2482-2720
Ground clearance	mm	365 - 465		465-515			
Front axle width (flange to flange)	mm	1850			1780	1780/1940	1940
Front axle width with brakes (flange to flange)	mm	1890			1780	-	
Front axle width with external dry disc brakes (flange to flange)		-				-/2046	2046
Rear axle width (flange to flange)	mm	1720		1890			
Unladen weight, front	kg	2690 - 3130				3150 - 3590	
Unladen weight, rear	kg	4470 - 4510				4740-4780	
Total unladen weight	kg	7200 - 7600				7930-8330	
Wheel weights		□					
Maximum permissible axle load, front	kg	4700 @ 50 kph			5200 @ 50 kph		
Maximum permissible axle load, rear	kg	8400 @ 50 kph		9200 @ 50 kph			
Maximum permissible weight	kg	11.500 @ 50 kph		12.500 @ 50 kph + 6205/6215: 13.500 kg @ 40 kph			

STD ■ OPT □ Not available -


Technical data		SPARK VRT			
		155 VRT	165 VRT	175 VRT	185 VRT
ENGINE					
Model		Deutz TCD 6.1			
Emissions	Stage	V			
Cylinders / Displacement	no / cc	6 / 6057			
Turbocharger with charge air cooling		■			
E-Viscostatic fan		■			
Injection pressure (Deutz Common Rail)	bar	1600			
Max. power [ECE R120]	kW / hp	114,8/156	120,8/164	129,5/176	134,3/183
Max. power with boost [ECE R120]	kW / hp	-	125,7/171	-	138,5/188
Power at rated speed [with boost in kW] [ECE R120]	kW / hp	109,9/150	[120] 115,1/157	124,4/169	[133] 129/176
Speed at maximum power	rpm	1900			
Max engine speed [rated]	rpm	2100			
Max. torque	Nm	663	699	738	818
Speed at maximum torque	rpm	1400		1500	
Air filter with dust ejector		■			
Exhaust engine brake		□			
Fuel tank capacity	l	280			
AdBlue capacity	l	28			
Oil change interval	hours	500			
TRANSMISSION					
Model		VRT			
Transmission ratio		1,3294		1,3255	1,3241
Top speed 50 km/h	rpm	1831 SuperECO		1773 SuperECO / 2051 ECO	
Top speed 40 km/h	rpm	1464 SuperECO		1418 / 1641 SuperECO	
Active standstill [PowerZero]		■			
Cruise control		2+2			
Driving strategies [Auto/PTO/Manual]		■			
PowerShuttle with SenseClutch [5 control stages]		■			
ECO / POWER Management		■			
HYDRAULICS AND LINKAGE					
LoadSensing pump capacity [standard]	l/min	120			
LoadSensing pump capacity [optional]	l/min	170			
CleanOil Hydraulic system [seperate hydraulic circuit]		■			
Maximum removable oil quantity	l	40			
Separate steering pump	l/min	52			
Electrohydraulic auxiliary control valves rear [standard]	qty.	4			
Electrohydraulic auxiliary control valves rear [optional]	qty.	5			
Electrohydraulic auxiliary control valves front ComfortPack [optional]	qty.	1/2			
Aux valves settable in time and flow - proportional engagement		■			
PowerBeyond		□			
Radar		□			
Rear linkage lifting capacity	kg	9200			
External operation on rear fenders		■			
Front linkage with position control		□			
Front linkage lifting capacity	kg	4110			5450
External operation on front lift		□			
Hydraulic upper links		□			
PTO					
Rear PTO 540 / 540 ECO / 1000 / 1000 ECO		■			
Front PTO 1000 or 1000 ECO		□			
Front PTO DualSpeed 1000 / 1000 ECO changeable in InfoCentre ^{Pro}		□			
Automatic PTO		■			
AXLES AND BRAKES					
Model front axle		Carraro 20.29			Dana M50
Suspended front axle		□			
Brakes for front axle		□			
Electro-hydraulic differential lock 100%		■			
ASM system		■			
Performance steering ready with EasySteer function		□			
Steering angle	degree	52			
Brake booster [PowerBrake]		■			
Electronic parking brake EPB		■			
Pneumatic trailer brake		■			
Hydraulic trailer brake		□			
ELECTRICAL SYSTEM					
Voltage	V	12			
Battery [standard]	V / Ah	12 / 143			
Battery [option]	V / Ah	12 / 180			
Alternator	V / A	14 / 200			
External socket, 30 A		■			
Interface for attachments 11786 [7-pole]		□			

Technical data		SPARK VRT			
		155 VRT	165 VRT	175 VRT	185 VRT
CAB					
MaxiVision				■	
Mechanical cab suspension				□	
Pneumatic cab suspension				□	
Rear view mirrors with courtesy LEDs				■	
Electric and heated rear view mirrors with LEDs				□	
Air conditioning				■	
Automatic A/C system				□	
Roof hatch				■	
High visibility roof "LowE"				□	
High visibility roof FOPS				□	
Multifunction armrest with MaxCom Joystick				■	
iMonitor with 12" or 8"				□	
AutoTurn				□	
XTEND				□	
ISOBUS (with front, rear and in-cab connectors)				□	
TIM (Tractor Implement Management)				□	
VRC (Variable Rate Control)				□	
SC (Section Control) 200 sections				□	
MMI with 3 programmable short keys				□	
SR20 RTK receiver				□	
CTM connectivity module				■	
Attachment rail with socket				□	
Light control (WOLP) with coming home function				■	
Comfortip Professional (only with iMonitor)				□	
Seat Max-Comfort Plus XL with heating function				■	
Seat Max-Dynamic Plus DDS XXL with 23° swivel, heating and dynamic damping system				□	
Seat Max-Dynamic Evo DDS XXL with synthetic leather, 23° swivel, active climate system and dynamic damping system				□	
Passenger seat				■	
Pre-arrangement for radio with antenna and 4 loud speakers				■	
High-level DAB+ Radio with Bluetooth and hands-free function				□	
Halogen work lights				■	
LED work lights				□	
Beacon light LED				□	
LED driving light				□	
iLock function				■	
FRONT LOADER					
Pre-arrangement light kit				□	
Pre-arrangement ready kit (including HydroFix)				□	
Front loader model		ProfiLine FZ 50.1 / ProfiLine FZ 60.1		ProfiLine FZ 60.1	
Overloading height	mm	up to 4050 - 4250		up to 4250	
Breakout force 900 mm before the pivot point	daN	up to 3490 - 3510		up to 3490	
DIMENSIONS AND WEIGHTS					
Front tyres (min.)		230/95 R32		270/95 R36	
Rear tyres (min.)		270/95 R44		380/90R46	
Front tyres (max.)		600/60 R28		600/60 R30	
Rear tyres (max.)		710/60 R38		710/60 R42	
Wheelbase	mm	2767			
Length	mm	4347 - 5712		4397 - 5712	
Height	mm	2932 - 3032		3032 - 3082	
Width	mm	2360 - 2760		2482-2762	
Ground clearance	mm	365 - 465		465-515	
Front axle width (flange to flange)	mm	1850			1780
Front axle width with brakes (flange to flange)	mm	1890			1780
Rear axle width (flange to flange)	mm	1876		1876	
Unladen weight, front	kg	2890 - 3330		2940 - 3330	3060 - 3500
Unladen weight, rear	kg	4900 - 4940		5000 - 5040	5100 - 5140
Total unladen weight	kg	7830 - 8230		7980 - 8380	8200 - 8600
Wheel weights		■			
Maximum permissible axle load, front	kg	4700 @ 50 kph			5200 @ 50 kph
Maximum permissible axle load, rear	kg	8400 @ 50 kph		9000 @ 50 kph	
Maximum permissible weight	kg	11.500 @ 50 kph		12.500 @ 50 kph	

STD ■ OPT □ Not available -

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