

Lamborghini Spire.
ADAPTABLE BY NATURE.



Spire
Spire Target





Lamborghini Spire. Takes shape to meet the needs of your job.

From rapid transport to working between rows, and from sowing over a wide area to manoeuvring in narrow spaces on the farm. Spire delivers all-round power and versatility.



Our inspiration for creating
the Spire family:

your work.

Because your job calls for versatility,
practicality and superior productivity,
combined with technology, a high power/weight ratio
and comfort.

And all of this with a style that sets it apart from any
other agricultural machine.

Welcome to the world of the Lamborghini Spire.



***A huge range of models,
a multitude of personalisable
equipment specifications.
To let you create a tractor
tailored perfectly to your needs.***

*THE family of tractors with the widest
choice of configurable options
on the market: with a choice
of different transmissions and
personalisable features.*

- Spire 80-90-90.4-100.4 (Tier4i)*
- Spire Target 80-90-90.4 (Tier4i).*

*On top of all this, the 90-90.4 models
are available with either 2 or 4 wheel
drive.*

You're spoilt for choice.



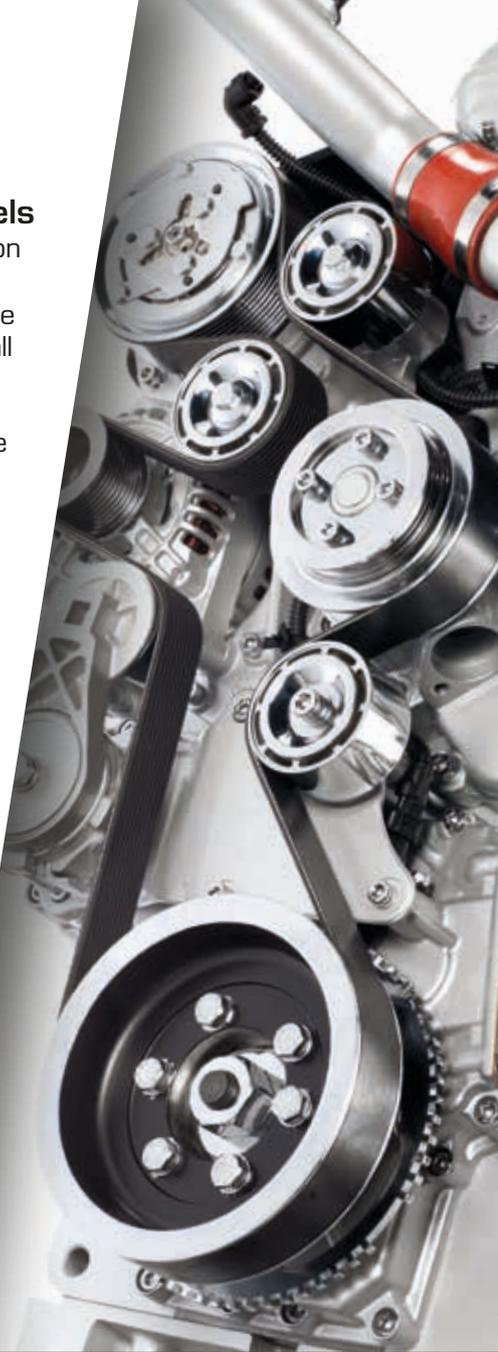
POWERFUL.

With state of the art engines for performance and fuel efficiency.

**3 or 4 cylinder Tier4i engines.
The ideal engine speed
for every task.**



**Spire 80 - 90 - 90.4 - 100.4
and Spire Target 80 - 90 - 90.4 models**
are powered by 3 or 4 cylinder Tier4i FARMotion engines with turbo intercooler, common rail injection and an electronic engine governor. State of the art technology for superior productivity at all times with low specific consumption figures. FARMotion engines are high torque powerplants offering impressive draft force and flexibility. These engines boast a torque rise between 32% and 40%, depending on the model.



FARMotion engines with thicker cylinder walls.

For less vibration, less noise and less driver fatigue.

As well as reducing vibration and noise, using thicker cylinder walls also improves cavitation resistance and reduces engine fatigue due to mechanical and thermal stress. Furthermore, the new geometry of the individual cylinder heads and combustion chambers contributes to improving the combustion process, letting these tractors make full use of the potential of the engine and significantly reducing fuel consumption.

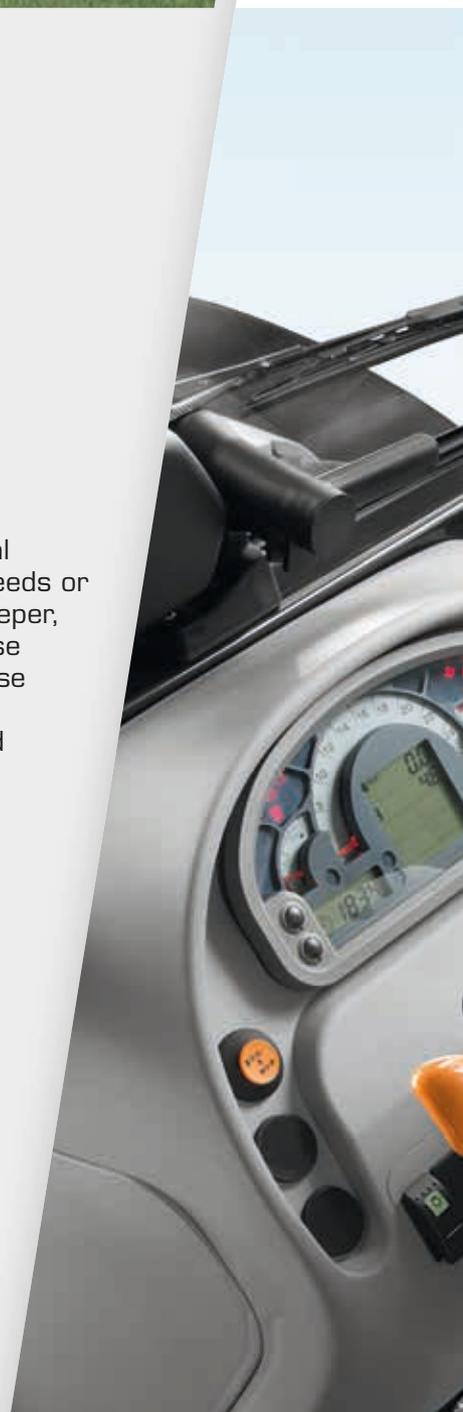
RESPONSIVE.

For the right speed
for any application.



There's a configuration
for every task:
choose the ideal solution
for your needs.

Target versions feature a fully mechanical transmission with 10 FWD + 10 REV speeds or 30 FWD + 15 REV speeds with supercreeper, while the Spire LS (with mechanical reverse shuttle) and Spire GS (with hydraulic reverse shuttle) come with a transmission with 30 FWD + 15 REV speeds with underdrive and supercreeper.



A 5 speed Powershift gearbox is also available, with three powershift ranges for an impressive 45 forward and reverse speeds. Every Spire comes equipped with the best suited transmission for your needs. The top speed of 40 km/h is attained at engine economy speed, to make the most efficient use possible of all the performance of the powertrain.

This means that the power curve of the engine is used as effectively as possible, resulting in lower fuel consumption and improved driver comfort, with less noise and vibration.



40 km/h, impressive maximum torque and superlative efficiency: class-beating performance with Overspeed.

Ratios are defined and spaced specifically for seamless, comfortable power delivery all the way up to the 40 km/h top speed, whether you're driving at engine economy speed or making use of all the performance available. Offered with the Spire LS and GS, Overspeed utilises the engine at an engine speed close to maximum torque, resulting in lower engine speeds at all times.

The results of this are: more effective usage of the power curve, lower fuel consumption, less noise and less vibration.





VERSATILE.

With up to 3 PTO speeds,
a groundspeed PTO
and a front PTO.

All the power you need,
delivered with impeccable
smoothness.



2-speed PTO (540/1000) – or with 540/540ECO/1000 speeds as an option – with multiplate wet clutch for Spire LS and GS tractors, or with a dry clutch for the Spire Target. A groundspeed PTO and a 1000 rpm front PTO are also available.

Total convenience, with the PTO controllable from the driver seat or from a switch on rear mudguard (with electrohydraulically controlled PTO only).

The Auto PTO function (available with electronic lift only) stops and restarts the PTO depending on whether the rear lift is raised or lowered.

Innovative technology for outstanding results.



MECHANICALLY or electrohydraulically engaged PTO: make the right choice for maximum productivity.

Do you prefer a PTO that you activate mechanically? Spire Target is the right tractor for you.

Or do you want an electrohydraulically controlled PTO?

With the Spire LS and GS, all it takes is the simple press of a button.

There's endless scope to define the perfect configuration for your needs.

LIGHT.

With a hydraulic
reverse shuttle with
response setting
control.

The ideal solution for better
manoeuvrability and safety
in all working conditions.



The hydraulic power shuttle with SenseClutch saves time when inverting direction and performing headland turns. The two Long Life multiplate wet clutches and electronic control unit work in conjunction to reduce strain and wear and keep the mechanical components of the system in perfect working order.

Completing the picture is a response setting control, for choosing precisely the right reverse shuttle response speed for the job in hand.

Only Spire can work at the speed of your thoughts.



Spire GS with Stop&Go function.

Stop your tractor without interrupting your work.

Tasks calling for you to keep the tractor stationary frequently and for varying lengths of time are no longer a problem. The Stop&Go function lets you put the direction inversion manoeuvre on hold by simply using the brake pedals. As soon as you release the pedals, the clutch is re-engaged progressively and smoothly. Letting you resume work quickly but without uncomfortable jolting.



AGILE.

**With a short wheelbase
and a generous
steering angle.**

**Whether manoeuvring in the most
cramped storage sites to
sowing over large fields,
the agility of the Spire is unrivalled.**



55° for 4 wheel drive versions and 70° for 2 wheel drive versions: the steering angle of the Spire lets you work effectively even in the tightest situations.

And when working in the open field, the impressively high power/weight ratio of the Spire truly shines through: making it simple and dependable to use. In critical working conditions, the rear and front differentials lock by 100% for maximum traction. What's more, on LS and GS versions, the dual traction system is engaged and disengaged electrohydraulically by simply pressing a button.



***Integral hydrostatic braking on all 4 wheels.
Dependable, immediate stopping action in all situations.***

High speeds? Heavy loads? A mere touch of the pedal brings the hydrostatic brakes of your Spire into action to stop immediately and safely. This stopping power is thanks to an integral hydrostatic braking system with wet disc brakes, ensuring smooth, safe braking with minimal pedal effort.

PRECISE.

With a dynamic hydraulic system and an electronic lift.

Getting the most out of your implements in the field has never been so easy.



The best results from your lift, in all conditions. Draft and position control, mixed control mode and float mode are just some of the functions implemented automatically by the electronic lift, which uses a suite of integrated sensors to offer you total control in all situations.



With an open-centre hydraulic system, no job is too complicated.

Spire, with a 54 L/min pump and a maximum lift capacity of 3000/3600 kg.

Spire Target, with a 42 L/min pump and a maximum lift capacity of 2650/3600 kg.

4 or 6 way auxiliary distributors, configurable for single or double acting operation, cater for every possible application.



COMFORTABLE.

Unique pressurised and soundproofed cab.

**It's a whole new world
on board a Spire:
try it for yourself in the field.**

Extraordinary innovation in the Spire goes beyond solutions for productivity alone: an air conditioning system with numerous air vents, a mechanically or air sprung seat and a high visibility roof [Spire models only] all contribute to a comfortable, relaxing experience on board.

Because our job is making yours easier.



Controls on right hand side of driver and a revised instrument cluster.

Total control over your work, in all light conditions.

Ground speed, PTO speed, operating hours and distance. The ergonomic and intuitive layout of the controls and indicator lamps means that everything on board the Spire is within easy reach and clearly visible.

TECHNICAL DATA		SPIRE			
		80	90	90.4	100.4
ENGINE					
Emissions		Tier4i	Tier4i	Tier4i	Tier4i
Model		FARMotion	FARMotion	FARMotion	FARMotion
Cylinders/Displacement/Valves	No./cc/No.	3 / 2887 / 2	3 / 2887 / 2	4 / 3849 / 2	4 / 3849 / 2
Common Rail	bar	2000	2000	2000	2000
Turbo intercooler		•	•	•	•
Maximum power (ECE R 120) @ 2,000 rpm	kW/hp	55,4/75	65/88	65/88	75/102
Power at rated speed (ECE R 120) @2,200 rpm	kW/hp	55,4/75	61,6/84	61,6/84	71,1/97
Max. torque @ 1,600 rpm	Nm	341	354	354	408
Torque rise	%	40	32	32	32
Electronic engine control		•	•	•	•
Exhaust gas after-treatment system		DOC / exEGR	DOC / exEGR	DOC / exEGR	DOC / exEGR
Fuel tank capacity	litres	100	100	100	100
SHUTTLE					
Mechanical Shuttle (LS)		•	•	•	-
Hydraulic reverse power shuttle (GS)		•	•	•	•
Comfort Clutch (GS)		•	•	•	•
SenseClutch (GS)		•	•	•	•
Stop&Go System (GS)		•	•	•	•
MECHANICAL GEARBOX					
Number of speeds	n°	-	-	-	-
Number of speeds with supercreeper gear and underdrive	n°	30 + 15	30 + 15	30 + 15	30 + 15
Overspeed (40km/h Eco)		•	•	•	•
POWERSHIFT GEARBOX					
Number of speeds with supercreeper gear	n°	45 + 45	45 + 45	45 + 45	45 + 45
Powershift number of speeds	n°	3	3	3	3
Overspeed (40km/h Eco)		•	•	•	•
REAR PTO					
Clutch dry		-	-	-	-
Multiplate wet clutch		•	•	•	•
Mechanical engagement		-	-	-	-
electrohydraulic engagement		•	•	•	•
PTO 540/540ECO		•	•	•	•
P.T.O. 540/540ECO/1000		o	o	o	o
Ground Speed PTO		o	o	o	o
FRONT PTO					
PTO 1,000		o	o	o	o
FRONT AND REAR AXLE					
Front wheel drive mechanically engaged		-	-	-	-
Front wheel drive electrohydraulically engaged		•	•	•	•
Mechanically operated differential lock		-	-	-	-
Electrohydraulically operated differential lock		•	•	•	•
Steering angle 2WD	degrees	-	70°	70°	-
Steering angle 4WD	degrees	55°	55°	55°	55°
BRAKES					
Hydrostatic control		•	•	•	•
4-wheel braking		•	•	•	•
Braking system with wet brake discs		•	•	•	•
Mechanical parking brake		•	•	•	•
Trailer hydraulic braking valve		o	o	o	o
STEERING					
Hydrostatic steering with independent pump		•	•	•	•
HITCH					
Rear hitch mechanical		•	•	•	•
Rear hitch electronic		o	o	o	o
Rear hitch lift capacity (std)	kg	3000	3000	3000	3000
Rear hitch lift capacity (opt)	kg	3600	3600	3600	3600
Front hitch		o	o	o	o
Front hitch capacity	kg	1750	1750	1750	1750
HYDRAULIC SYSTEM					
Pump output	l/min	54	54	54	54
Open centre hydraulic system		•	•	•	•
Rear auxiliary valves	n°	6	6	6	6
CAB					
Air conditioning		o	o	o	o
High visibility roof		o	o	o	o
Suspension driver seat		•	•	•	•
DIMENSIONS AND WEIGHTS					
Standard rear tyres		420/70R30	420/70R30	480/70R30	480/70R30
Max. length without rear linkage	mm	3430	3430	3560	3560
Width (min./max.)	mm	1940/2240	1940/2240	2005/2405	2005/2405
Wheelbase (4WD/2WD)	mm	2100 / -	2100 / 2140	2230 / 2270	2230 / -
Front track (min./max.)	mm	1460/1760	1460/1760	1450/1850	1450/1850
Rear track (min./max.)	mm	1500/1800	1500/1800	1500/1900	1500/1900
Max. height at cab	mm	2460	2460	2485	2485
Weight with cab	kg	3200	3200	3300	3300
Maximum load capacity	kg	5200	5200	5200	5200

TECHNICAL DATA		SPIRE		
		80 Target	90 Target	90.4 Target
ENGINE				
Emissions		Tier4i	Tier4i	Tier4i
Model		FARMotion	FARMotion	FARMotion
Cylinders/Displacement/Valves	No./cc/No.	3 / 2887 / 2	3 / 2887 / 2	4 / 3849 / 2
Common Rail	bar	2000	2000	2000
Turbo intercooler		●	●	●
Maximum power (ECE R 120) @ 2,000 rpm	kW/hp	55,4/75	65/88	65/88
Power at rated speed (ECE R 120) @2,200 rpm	kW/hp	55,4/75	61,6/84	61,6/84
Max. torque @ 1,600 rpm	Nm	341	354	354
Torque rise	%	40	32	32
Electronic engine control		●	●	●
Exhaust gas after-treatment system		DOC / exEGR	DOC / exEGR	DOC / exEGR
Fuel tank capacity	litres	75	75	75
SHUTTLE				
Mechanical Shuttle (LS)		●	●	●
Hydraulic reverse power shuttle (GS)		-	-	-
Comfort Clutch (GS)		-	-	-
SenseClutch (GS)		-	-	-
Stop&Go System (GS)		-	-	-
MECHANICAL GEARBOX				
Number of speeds	n°	10 + 10	10 + 10	10 + 10
Number of speeds with supercreeper gear and underdrive	n°	30 + 15	30 + 15	30 + 15
Overspeed (40km/h Eco)		-	-	-
POWERSHIFT GEARBOX				
Number of speeds with supercreeper gear	n°	-	-	-
Powershift number of speeds	n°	-	-	-
Overspeed (40km/h Eco)		-	-	-
REAR PTO				
Clutch dry		●	●	●
Multiplate wet clutch		-	-	-
Mechanical engagement		●	●	●
electrohydraulic engagement		-	-	-
PTO 540/540ECO		●	●	●
P.T.O. 540/540ECO/1000		○	○	○
Ground Speed PTO		○	○	○
FRONT PTO				
PTO 1,000		-	-	-
FRONT AND REAR AXLE				
Front wheel drive mechanically engaged		●	●	●
Front wheel drive electrohydraulically engaged		-	-	-
Mechanically operated differential lock		●	●	●
Electrohydraulically operated differential lock		-	-	-
Steering angle 2WD	degrees	-	70°	70°
Steering angle 4WD	degrees	55°	55°	55°
BRAKES				
Hydrostatic control		●	●	●
4-wheel braking		●	●	●
Braking system with wet brake discs		●	●	●
Mechanical parking brake		●	●	●
Trailer hydraulic braking valve		○	○	○
STEERING				
Hydrostatic steering with independent pump		●	●	●
HITCH				
Rear hitch mechanical		●	●	●
Rear hitch electronic		-	-	-
Rear hitch lift capacity (std)	kg	2650	2650	2650
Rear hitch lift capacity (opt)	kg	3600	3600	3600
Front hitch		-	-	-
Front hitch capacity	kg	-	-	-
HYDRAULIC SYSTEM				
Pump output	l/min	42	42	42
Open centre hydraulic system		●	●	●
Rear auxiliary valves	n°	4 / 6	4 / 6	4 / 6
CAB				
Air conditioning		○	○	○
High visibility roof		-	-	-
Suspension driver seat		●	●	●
DIMENSIONS AND WEIGHTS				
Standard rear tyres		420/70R30	420/70R30	480/70R30
Max. length without rear linkage	mm	3430	3430	3560
Width (min./max.)	mm	1940/2240	1940/2240	2005/2405
Wheelbase (4WD/2WD)	mm	2100 / -	2100 / 2140	2230 / 2270
Front track (min./max.)	mm	1460/1760	1460/1760	1450/1850
Rear track (min./max.)	mm	1500/1800	1500/1800	1500/1900
Max. height at cab	mm	2460	2460	2485
Weight with cab	kg	3200	3200	3300
Maximum load capacity	kg	5200	5200	5200



To find out more, visit the website lamborghini-tractors.com

Lamborghini Trattori is a brand of  SDF

