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VALTRA
Individually Yours

VALTRA S SERIES

CONTENTS

CONTENTS 2
INDIVIDUALLY YOURS....4
SOWING THE SEEDS OF SUCCESS....6
A SMART PACKAGE 8
DRIVER COMFORT FIRST....10
TWINTRAC....11
POWER IN YOUR HANDS 12
QUICKSTEER....13
THE HEART OF THE S SERIES....14
e3 TECHNOLOGY 15
PRODUCTIVITY 16
EASY-TO-USE HYDRAULICS 18
TRANSMISSION 20
PRODUCTIVE FEATURES AND OPTIONS....22
AUTOSTEER AND TELEMETRY 23
SERVICING AND MAINTENANCE 24
CUSTOMER FOCUS 25
TECHNICAL SPECIFICATIONS 26

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INDIVIDUALLY YOURS

Valtra's roots have been growing deep in Scandinavian soil for over a century. Today our tractors are known for their reliability, durability, versatility and Scandinavian heritage. Valtra tractors are superior as each one is manufactured according to the customer's specifications to meet his or her individual needs, to withstand even the toughest conditions and to fulfil the customer's productivity requirements.

Valtra has developed and patented numerous unique technical and design solutions that allow us to offer competitive technology, quality products and superior service – individually just for you.

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SOWING THE SEEDS OF SUCCESS

Valtra S – engineered for productivity

Total efficiency and productivity are the result of the first-class work of our designers and the high-quality of implementation. And when operating the tractor is easy and the driver is comfortable, productivity can be taken to an entirely new level. All these qualities are combined in the Valtra S Series - never before has there been such a focus on driver comfort.

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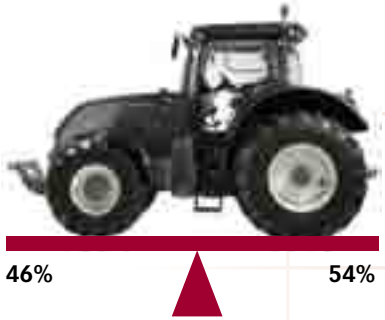
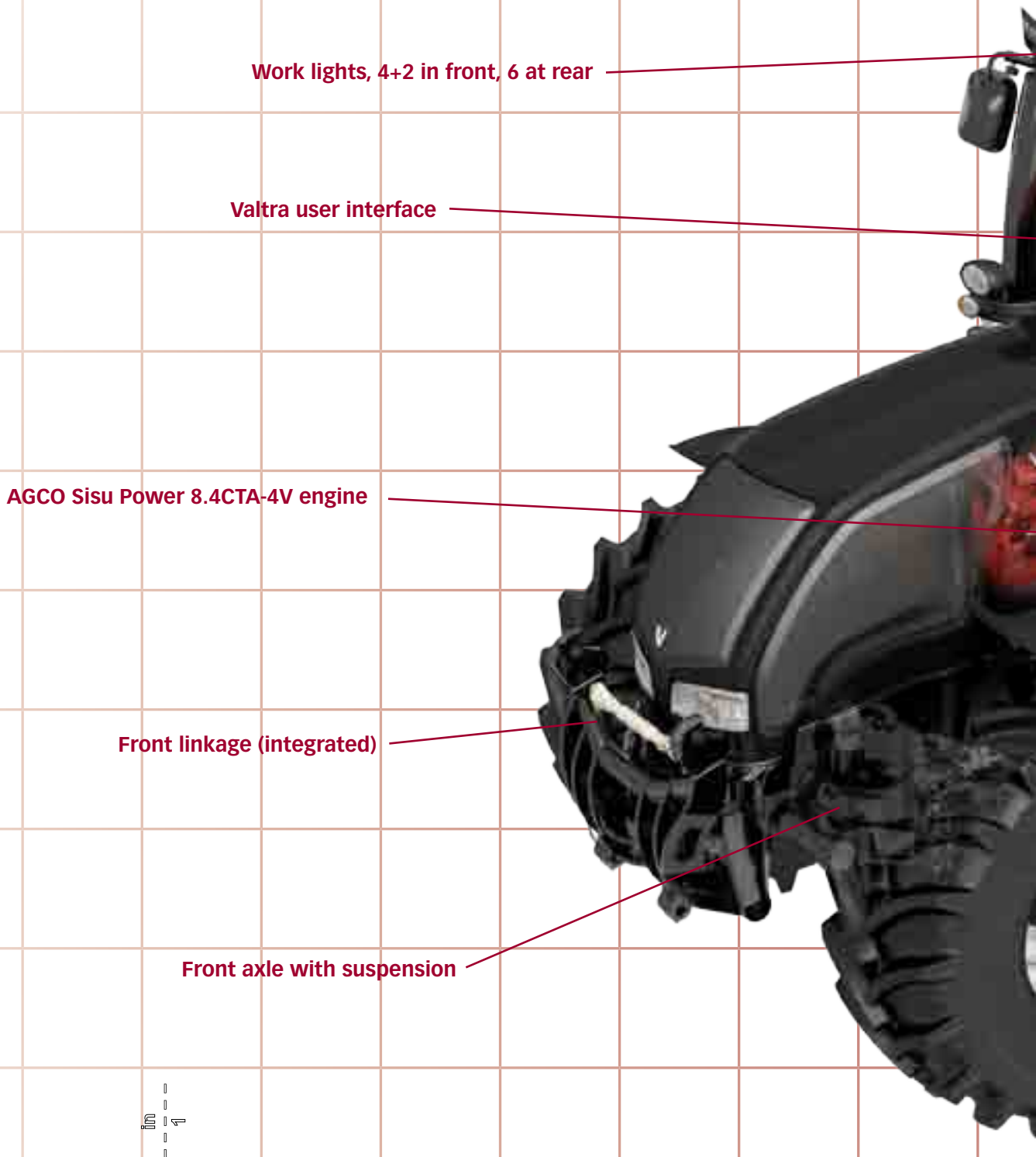
A SMART PACKAGE

We have created a spacious and quiet cab (70 dB) that is also extremely ergonomic. We combined this with the Twin-Trac reverse-drive system designed for the new S Series, excellent driving properties and Valtra's intelligent tractor control system. The finishing touch is provided by the new AGCO Sisu Power engine and stepless AVT (AGCO vari-able transmission). The result is a tractor that we are very proud of.



Optimal weight distribution for working on fields.



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DRIVER COMFORT FIRST

The Valtra S Series features a spacious cab that provides excellent all-round visibility. The main controls in the ergonomic cab are situated on the multifunctional driver's armrest. This is part of our way of thinking, according to which productivity and total economy are also the result of driver comfort.

Cab suspension

The Valtra S Series cab features a new four-point pneumatic suspension system that utilises the latest technology. Sensors relay information to the control system, which makes sure that the suspension works optimally in all conditions. The driver can adjust the AutoComfort suspension according to his or her preference. The system automatically adjusts the cab suspension using sensors and a CAN bus.

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TWINTRAC

The optional TwinTrac reverse-drive system combines with an excellent driving position, powerful work lights and an armrest that rotates with the seat to set a new standard of ergonomics for reverse driving.

The cab of the S Series provides excellent visibility, also to the rear. At the back is a steering column that is adjust-able in all directions, also sideways. On the floor there is a drive pedal, brake pedal and “clutch pedal”. All the other main controls for driving and controlling the hydraulics are situated in the driver’s armrest. When the seat is rotated, the control of the steering and transmission is automatically transferred to the rear driving position. The steering is performed electronically by the “steer-by-wire” principle.

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POWER IN YOUR HANDS

Comfort improves productivity
Every detail has been carefully thought out. The excellent ergonomics and design of the armrest provide the driver with a firm and steady grip. When the driver rotates the seat 180° to the TwinTrac position, the armrest and controls rotate at the same time. The Valtra ARM driver's armrest includes controls for the transmission, hydraulics and tractor speed, as well as implement functions. This enhances both productivity and safety.

The Valtra ARM driver's armrest features another innovation: for the first time ever the same user interface can be used to operate three different transmissions and several different tractor models (Valtra Direct, Versu and S Series). This makes it easy for drivers to switch from one Valtra tractor to another, as they will find everything familiar.

The control panel for the work lights is clearly laid out and easy to use. Six working lights in the rear and in front are standard on the S Series. Upper main lights and work lights on the front handrails and rear fenders are available as an option. All work lights can also be specified as Xenon lights.

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QUICKSTEER

The number of steering wheel turns can be adjusted by using the potentiometer, which disengages automatically and reverts to the regular steering ratio as soon as tractor speed exceeds 20 km/h. QuickSteer makes headland turns faster and easier.

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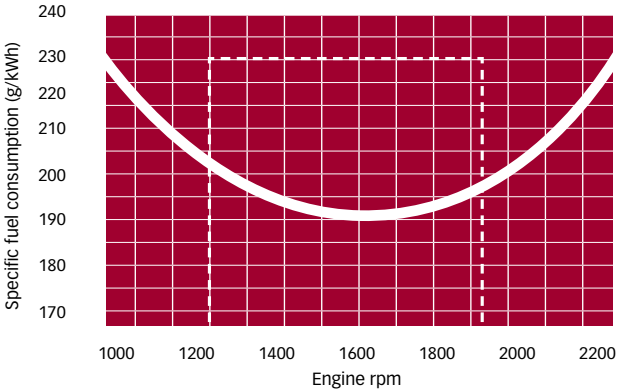
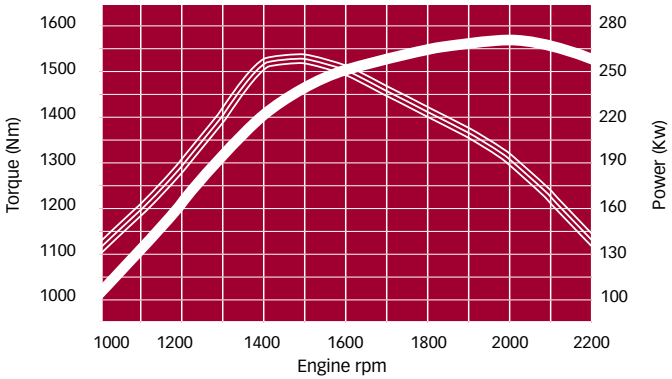
THE HEART OF THE S SERIES

The heart of the S Series is the 8.4CTA-4V AGCO Sisu Power off-road engine, which is available with ground-breaking SCR (Selective Catalytic Reduction) technology. The 8.4CTA-4V AGCO Sisu Power SCR engine is the most fuel efficient on the market, offering up to 16% lower fuel consumption than competitors. The new more efficient and powerful engines, AGCO's continuously variable transmission and Valtra's intelligent engine management system combine to meet the needs of even the most demanding users.



Valtra's intelligent engine management system automatically adjusts the engine's performances to ensure optimal fuel efficiency in all conditions.



Torque (Nm)

Engine rpm

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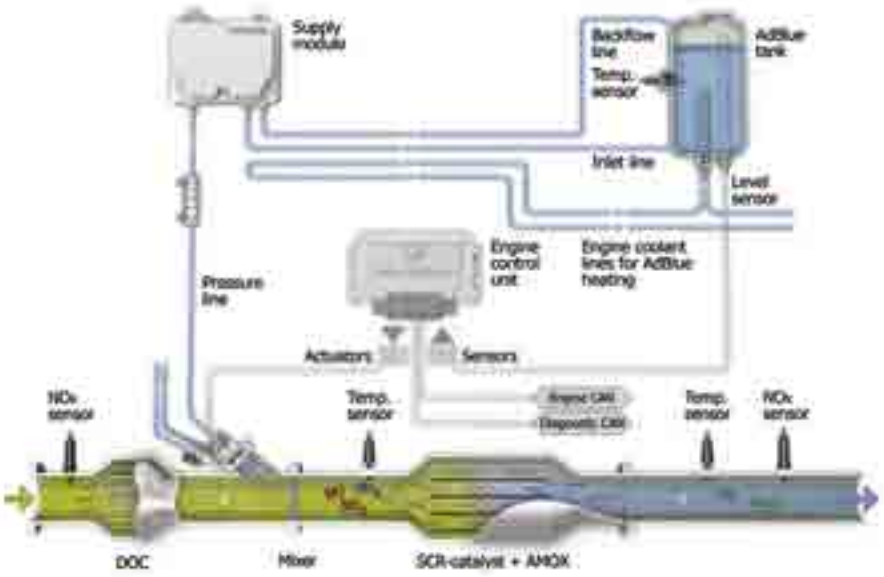
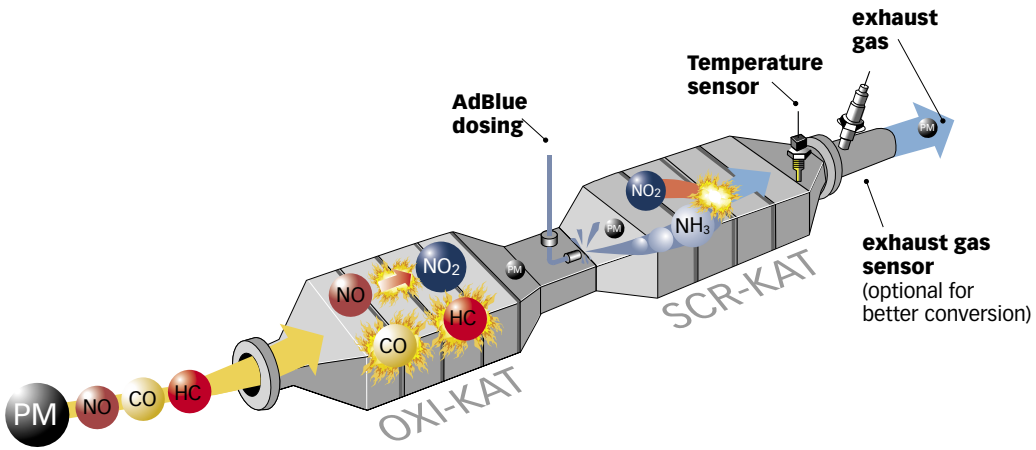
e3 TECHNOLOGY

The Valtra S Series engines employ e3 technology, an SCR (Selective Catalytic Reduction) process. SCR is extremely operator and environmentally friendly, and it has been used in trucks already for a long time. Valtra has now introduced this technology also to tractors. SCR technology treats the downstream exhaust with the additive AdBlue, which breaks down into harmless nitrogen and water vapor. What's more, e3 extends the lifespan of the engine, as it allows the AGCO Sisu Power engine to run clean, with clean air and optimal efficiency.





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INCREASED PRODUCTIVITY THROUGH BETTER ENGINE AND TRANSMISSION ADAPTABILITY

To achieve the best performance, the Valtra S Series has three operating modes and an advanced speed manage-ment system. By selecting the right operating mode for your work, you can optimize fuel efficiency, work output and driving comfort. The drive pedal allows you to control either the speed or engine revs.

- Two speed cruise controls and two engine rpm cruise controls
- Speed cruise controls operated from the Valtra ARM driver's armrest
- Engine RPM cruise controls operated from the side panel
- Speed cruise and RPM cruise controls can be used simultaneously
- In PTO use the RPM cruise control recalls the engine speed needed to reach the selected PTO speed

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AUTOMATIC MODE

Automatic mode is the default setting when starting the engine. The operating principle is simple: automatic mode uses the highest possible transmission ratio to optimise fuel economy. For example, when pulling a load in difficult terrain the transmission adjusts the ratio (engine speed) to maintain a constant ground speed.

AUTOMATIC MODE in PTO use

In PTO use the engine speed is set. The transmission decreases the driving speed when the load exceeds the power available. A good example of this is loader wagon work.

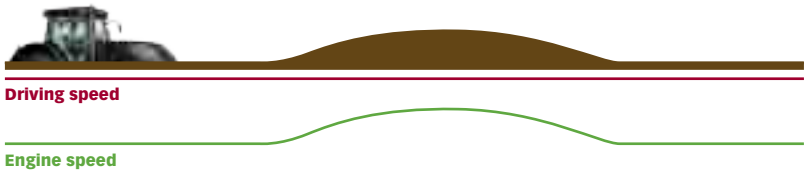
SEMI-AUTOMATIC MODE

In semi-automatic mode the drive pedal works like a normal accelerator pedal. The CVT lever adjusts the transmission ratio in relation to the engine speed. The further back the lever is, the more revs are required to reach a certain speed. The semi-automatic mode is useful for pulling work when the operator wants to control the engine speed.

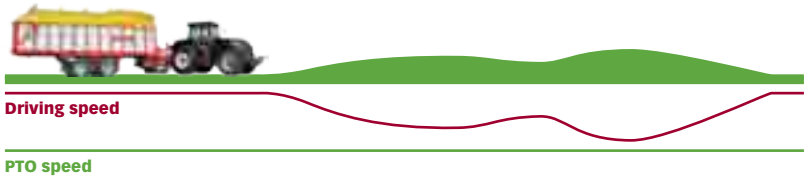
MANUAL MODE

In manual mode the transmission ratio is controlled solely by the CVT lever. The automatic transmission is not used. Instead, in PTO use the speed is adjusted using the CVT lever and the tractor stops simply by braking (AutoTraction). The manual mode is suitable for many PTO jobs, such as potato or special crop harvesting.

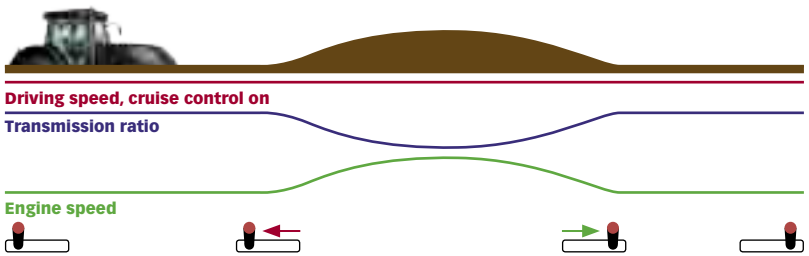
AUTOMATIC MODE



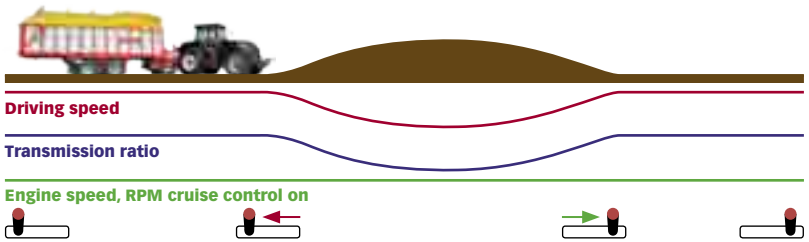
AUTOMATIC MODE in PTO use



SEMI-AUTOMATIC MODE



MANUAL MODE



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EASY-TO-USE HYDRAULICS

Extremely easy-to-use load-sensing hydraulics
Powerful linkages: 5 tonnes in front and 12 tonnes in the rear. Load-sensing circuit with 200 l/min pump capacity and full electronic control.

Highly specific Valtra Autocontrol power lift
Like all components on the Valtra S Series, the power lift is highly specified. It features twin external lift cylinders and the right specification of hitches, drawbars and top and lower links. The external linkage and spool valves can be controlled by using the switches located in the rear fenders.

The heavy-duty front linkage on Valtra S Series tractors is fully integrated and performs extremely well with the front axle suspension. The front linkage and couplers also have their own external switches. Up to six external hydraulic valves can be fitted, each offering 100 l/min of hydraulic flow.

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Power and hydraulics controls

1. *Display (terminal)*
2. *Hydraulics on/off*
3. *Buttons for display operations*
4. *Hydraulic flow presets/operator's own settings*
5. *Switches for valves 3…5*
6. *Diverter valves (e.g. front loader)*
7. *Joystick controls off/forward/reverse*
8. *U-pilot (headland management) play/pause*
9. *U-pilot stop*
10. *Increase the set cruise speed*
11. *Decrease the set cruise speed*
12. *Cruise speed preset, memory 1*
13. *Cruise off*
14. *Cruise speed preset, memory 2*
15. *Autocontrol power lift up/stop/down*
16. *Power lift fast soil engagement*
17. *Autocontrol power lift depth control*
18. *CVT lever*
19. *Linear joysticks for rear valves*
20. *Hand rail*

External remote controls

21. *Front linkage*
22. *Rear linkage and one service valve*

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POWER OUT AS YOU LIKE IT

High output two-speed PTO

Two PTO options are available: 540E + 1000 or 1000E + 1000. Electronic engagement ensures smooth starts and protects both the tractor and implement. Additional mudguard mounted controls increase convenience and safety.

Power and Economy

A PTO speed of 1000 rpm is achieved close to 2000 engine rpm, which is where the AGCO Sisu Power engine delivers its maximum output. The AGCO variable transmission (AVT) allows any ground speed (0 – 50 km/h) to be used with the selected PTO speed, offering the highest power for any operation. This naturally ensures high productivity. For operations that do not require the highest output, economy PTO can be selected. The nominal speed (540 or 1000 rpm, selected when ordering the tractor) is achieved at a reduced engine speed of ca. 1600 rpm. This results in even lower fuel consumption and noise levels.

Headland use

When Auto mode is selected, the PTO automatically disengages when front linkage is raised or when the ground speed exceeds 25 km/h. The PTO will also re-engage when the front linkage is lowered again. If more advanced headland operations are needed, Valtra's U-pilot headland management system can be easily programmed to control all PTO, speed management, implement hydraulics and front linkage operations, front and rear.

Front PTO

A front PTO with a nominal speed of 1000 rpm can be fitted to all Valtra S models as an option.

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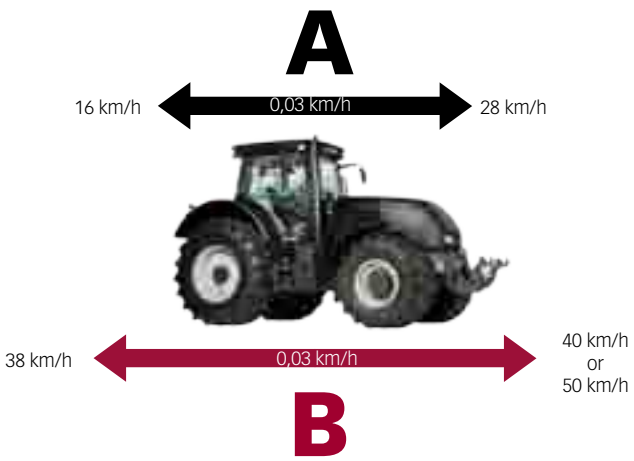
AVT TRANSMISSION

Work Areas

The Valtra S Series features AVT (AGCO variable transmission). This type of transmission has been the most popular transmission for large tractors in Europe for many years. It has achieved this position not only because of its versatility and reliability, but also because of its fuel efficiency. Especially in contracting work, where a lot of road driving is required, this type of transmission provides significant fuel savings.



The AVT transmission has two work areas. Work area A is for all work situations requiring heavy pulling force. Work area B is for general road transport.

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PRODUCTIVE FEATURES AND OPTIONS

- Powerful linkage and hydraulics mean excellent field performance
- Six rear spool valves are available
- Heavy-duty three-point linkage
- Suspended front axle, excellent ground clearance and good turning angles, even with larger tyre sizes
- Exceptionally powerful brakes

Valtra S Series tractors are fast and powerful, so they need an extraordinarily strong power-assisted braking system. Optional pneumatic or hydraulic trailer brakes can also be specified. The forward-reverse shuttle and automatic parking brake function the way was as on other Valtra tractors, and the user-friendly shuttle enhances safety.

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Autosteer for faster, precision farming
The optional System 150 satellite navigation system employs the latest GPS technology to guide your tractor and implements faster and more accurately. This is especially valuable for more accurate operation at night and in low visibility. The system steers the tractor automatically avoiding overlap or un-worked land. The system allows the driver to focus on his work. In this way it reduces fuel consumption while significantly increasing productivity. The control valve required by the system and that also receives an electronic signal is standard on the S Series, as is all the necessary wiring.

U-Pilot headland management system
Headlands, where the tractor and implement is turned around ready for another run up the field, are areas where valuable time can be lost while the driver controls the implement and tractor. Valtra's U-Pilot significantly reduces the amount of repetitive work on the headland, increasing productivity while reducing fatigue. The system also reduces the risk of human error. Valtra U-Pilot is standard on all S Series tractors.

ISOBUS
The ISOBUS communication system (ISO 11783) shares data between the tractor and the implement. ISOBUS makes it easy to control modern implements, especially those with many features and a high level of automation.

Telemetry (AGCOMMAND)
Telemetry allows the location and operations of the tractor to be monitored over the internet. The system sends data about the tractor to a server, from where it can be retrieved almost in real time in the form of individual reports.

Autosteer, telemetry and ISOBUS readiness are standard on all S Series tractors.

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SERVICING AND MAINTENANCE

The Valtra S Series is simple and straightforward to service and maintain. The change intervals for the engine, transmission and hydraulics oils are long, and oil changes are easy to perform. To ensure reliable and uninterrupted running, only fluids that have been specially designed for the tractor are used. The cooling system on the S Series is easy to access. It is also simple to open for cleaning and maintenance, as are the air, oil and fuel filters.

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CUSTOMER FOCUS

It is extremely important for Valtra to take care of Valtra tractors throughout their whole lifespan. Our worldwide service specialists and spare parts personnel are trained regularly to ensure that their expertise complies with the latest demands. Our reliable and fast spare parts service guarantees the shortest possible downtime during any season.

Valtra Service Kits and AGCO Parts

Valtra Service Kits and AGCO Parts ensure the carefree and safe operation of your tractor for as long as you own it. These high-quality genuine spare parts are designed specifically for your tractor. They are also guaranteed and easy to install. Valtra's ready-prepared service kits for 50-hour, 100-hour, 500-hour and 1000-hour services include all necessary original parts, guaranteeing quality and results. Using original parts helps ensure your safety.

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TECHNICAL SPECIFICATIONS

Engine performance		S233	S263	S293	S323	S353
Max. hp @ 2000 rpm	hp (kW)	270 (199)	295 (217)	320 (236)	350 (258)	370 (272)
Max. torque @ 1400 rpm	Nm	1195	1310	1455	1540	1540
Emission control		SCR / Stage 3B	SCR / Stage 3B	SCR / Stage 3B	SCR / Stage 3B	SCR / Stage 3B
Engine						
Diesel, direct injection AGCO SISU POWER	84 AWI-4V					
Volume / Number of cylinders	8,4 l / 6					
Transmission						
Type	AGCO Variable Transmission					
Work area A	0.03-28 km/h forward, 0.03-16 km/h reverse					
Work area B	0.03-50** km/h forward, 0.03-38 km/h reverse					
Operation modes	Automatic, semi-automatic and manual					
Power Take-Off (Rear)						
Operation and control	Electro-hydraulic, start/stop control on armrest and on rear fender, with headland automation					
PTO speed @ engine rpm						
1000 rpm (21 spline shaft)	rpm	2031				
Economy PTO						
1000 rpm	rpm	1600				
Shaft diameter, 35 mm (13/8in)		●	●	●	●	●
Front linkage	Integrated, electronic control					
Lift capacity	kg	5000				

• = Standard • = Optional – = Not applicable/available * = Manufacturer's test value of SCR engine ** = Depending on market legislation

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Linkage and hydraulics		S233	S263	S293	S323	S353
Rear linkage	Autocontrol, Drive balance control and slip control					
Lower links	Cat 3 or 4					
Maximum lift capacity	kg	12000				
Closed Centre Load Sensing (CCLS)						
Max pump output	litre/minute 200	200 (175 available for implements)				
Hydraulic oil	Separate, max 71 litres available for implements					
Work hydraulics at front	Up to 2 electronic spool valves, Joystick controls					
Work hydraulics at rear	Up to 6 electronic spool valves, 4 fingertip and 2 joystick					
Hydraulic couplers rear	“Decompression” couplers with connect/disconnect under pressure function					
Steering	Hydrostatic, tilt/telescopic steering column					
QuickSteer		●	●	●	●	●
Brakes						
Oil cooled, multi-plate discs, hydraulic actuation with power assistance						
Parking brake	Integrated with shuttle lever, hydraulic					
4WD front axle						
Type						
Max steering angle	55°					
Suspension	Hydropneumatic					
Wheels and tyres						
Front		600/70R28		620/65R34		
Rear		650/85R38		710/75R42		
Capacities						
Fuel tank	litre	610	610	610	610	610
AdBlue tank	litre	60	60	60	60	60

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Cab		S233	S263	S293	S323	S353
Cab structure	4-post with 4-point pneumatic suspension					
Standard equipment	De-luxe “flat floor” cab, opening rear window, air conditioning, four speed fan with heater unit, adjustable steering column, Valtra Evolution seat, Auto-Guide and ISOBUS readiness, 6 working lights at rear and 4 in front, Valtra ARM with terminal.					
Optional equipment	TwinTrac reverse-drive system, automatic air conditioning, upper main lights, Xenon work lights, foot heater, ISOBUS terminal.					
Weights and dimensions						
Weight at no load (with full tank, without additional weights)	kg	10300 - 12000	10300 - 12000	10300 - 12000	10300 - 12000	10300 - 12000
Wheelbase (A)	mm	3105	3105	3105	3105	3105
Length (B)	mm	4868	4868	4868	4868	4868
Height to roof (C)	mm	2357	2357	2357	2357	2357
Height to ground (D)	mm	Rear 1025 mm with 710/85R38 tyres Rear 800 mm with 620/75R30 tyres				
Maximum external width (E)	mm	2550	2550	2550	2550	2550
Ground clearance (F)	mm	472	472	472	472	472
Turning radius with brakes / without brakes	m	7,4/8,4	7,4/8,4	7,4/8.4	7,4/8,4	7,4/8,4

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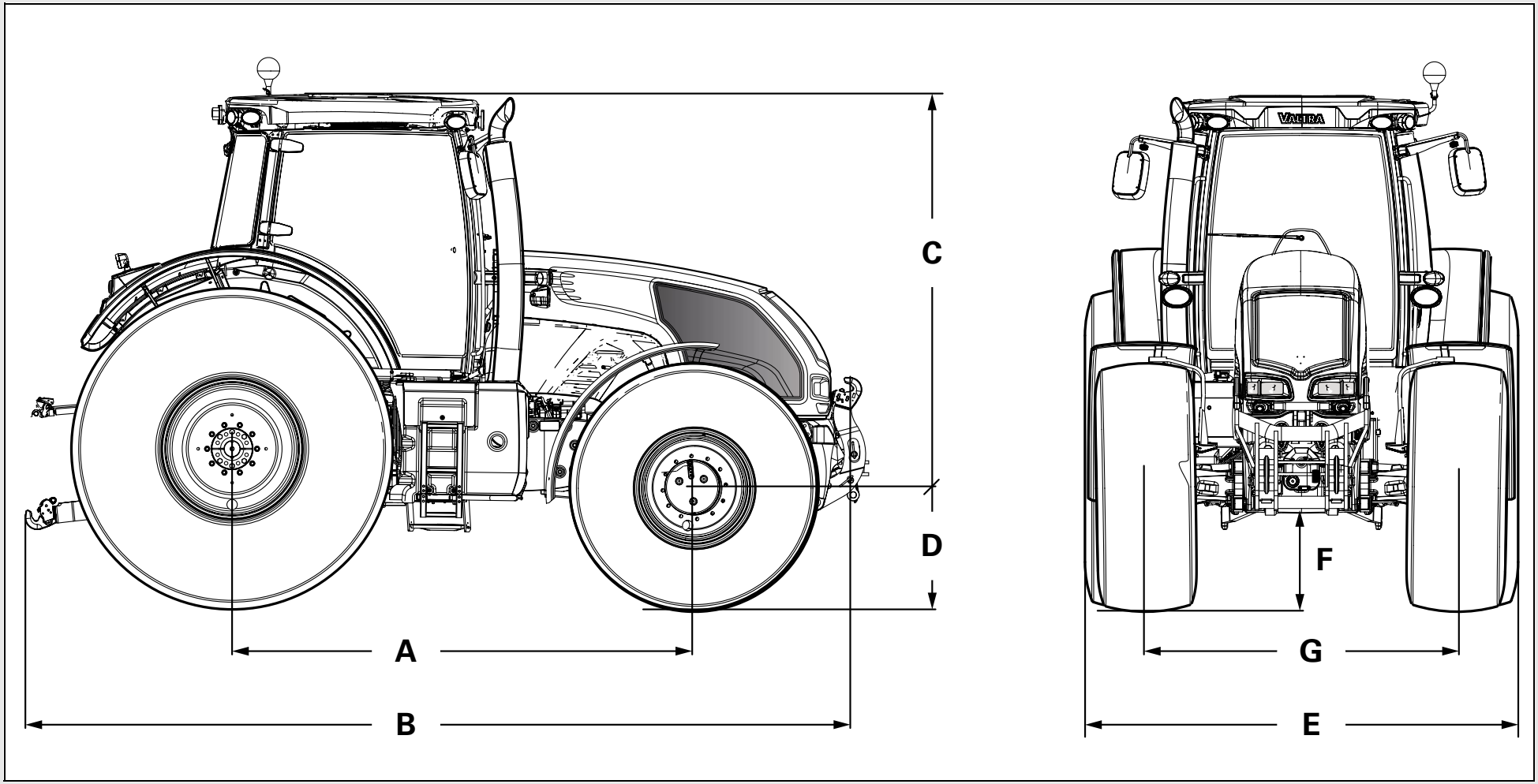

Valtra is a worldwide brand of AGCO Corporation

AGCO, Your Agriculture Company, is a premier manufacturer of agricultural equipment, providing high-tech solutions for professional farmers feeding the world. The company is dedicated to delivering superior customer service, innovation and quality. AGCO products are distributed in more than 140 countries worldwide.

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