

VALTRA

Power Partner

CAN

EcoPower

6750

8350



PARTEK

The new design of the Valtra brand conveys a message of successful operations and its capacity to achieve targets. The slogan Power Partner expresses power as well as our willingness and ability to operate close to you as a partner. We want to contribute to our customers' improved productivity. The operators of Valtra are highly satisfied with their tractor and the Valtra service.



VALTRA

Power Partner

Valtra EcoPower

The new 6750

Cost-efficient, ecological, reliable and easy to operate

Valtra manufactures its tractors by itself. The EcoPower engine features an optimised rpm, torque, output and consumption. The rated rpm of the 4-cylinder engine is only 1800 rpm, while torque amounts to 530 Nm at 1150 rpm. The maximum output is 107 hp at 1600 rpm. Its fuel consumption is approximately 10 per cent lower than that of engines with a traditional speed concept.

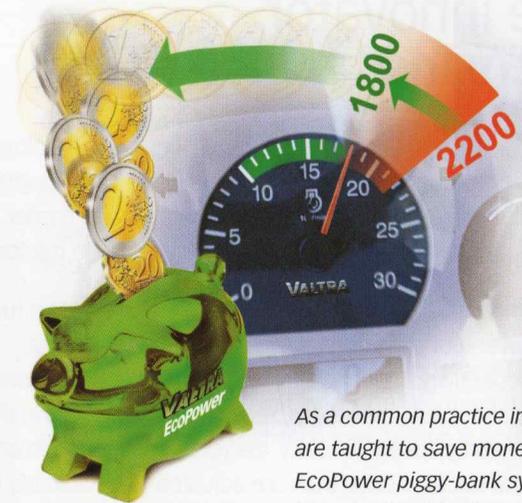
EcoPower gives you unprecedented control over work. Without compromising productivity, the tractor is easy to operate and economical when it comes to fuel. With a lower rpm, the engine's oil change interval has been extended to 500 hours, thus economising on lubricating oil.



Down with costs – up with revenues!

Fuel-consumption savings at 10–15 per cent

The entire rpm range of EcoPower has been pulled down thanks to the sophisticated supercharging and intercooling technologies. At low rpm, both the engine and drive train losses are smaller and oil temperature lower. This is exactly why it has been possible to safely lengthen the oil-change interval to 500 hours. With partial load and in changing operating conditions, in particular, the EcoPower engine is the most economical. Considering the ongoing fuel price rises, this engine provides its user with tangible financial benefits.



As a common practice in Scandinavia, children are taught to save money in a piggy-bank. The EcoPower piggy-bank symbolises the savings brought about by the new engine type.

Less need for maintenance

At the rated rpm of 1800, the piston speed is only 7.2 m/s, while with that of the engines with traditional speeds, the corresponding figure is 9 m/s, or 25 per cent higher. The lower rpm wears down the engine less and allows 500-hour oil-change intervals.

Lower noise level

Lower rpm also lessens the noise level both in the engine, gears and hydraulics. Although Valtra tractors already are characterised by a low noise level, EcoPower's noise level is even a few decibels lower, which can actually be heard. The nature of the tractor's engine tone has also changed to a kind of gentle purr. Consequently, speaking over your hands-free mobile phone goes nice and smoothly.

Low emissions, less burden on the environment

The first principle of lowering emissions is to reduce fuel consumption. This lowers immediately exhaust emissions by 10–15 per cent. During a thousand operating hours, 42 litres of waste oil remain ungenerated.

New Valtra 6750 EcoPower



With 105 hp at the rated rpm of 1800, Valtra 6750 EcoPower is among the most popular and competitive tractor class in Europe. Although its fuel consumption and rated rpm are lower than those of other engines, its performance is exhilarating.

As the engine speed falls to 1600 rpm, the engine output peaks at 107 hp. The power take-off speed of 540 revolutions can be reached at 1648 rpm. The power take-off speed of 1000 revolutions is reached at 1750 rpm. The engine reacts extremely fast to changing loads and is good at maintaining the desired rpm.

The maximum torque of 1150 rpm is 530 Nm, which is attainable only for the traditional engines of 130 hp.





Learning a new way of driving

EcoPower's advantages are best demonstrated in cultivation work as the large torque reserve is in use. Power take-off-operated machines are praised for their engine's capacity to maintain the chosen speed of revolution. With a front-mounted loader, the engine speed is smooth since the hydraulic pump delivery is high compared to the speed of revolution. When transporting at 40 km/h, you save fuel without the noise stressing you.

EcoPower requires a new driving technique. You'll find it amazing how low rpm you'll need to operate the tractor in partial load in miscellaneous work, which is typical of the tractors of this size. A totally new world of driving opens up when operating at low rpm.

To find out all EcoPower's assets, please contact your Valtra dealer and fix a date for a trial run. This tractor is more than worth experiencing.



Create your Valtra EcoPower



Unique mode of manufacturing

The tasks and work environments of tractors vary a great deal. This is why Valtra manufactures individual tractors according to the client's needs. 'Create your own Valtra' is a unique mode of operation that Valtra offers you, pioneering the way for the rest of the world.

Choose the features you need

Thanks to our unique service, you are free to choose the features and equipment you need for your own Valtra tractor from a wide range of options specifically designed for the Valtra tractors. When you are satisfied with the end result and have chosen the desired features, we'll manufacture your special Valtra according to your personal order. Your tractor arrives straight from the factory and is immediately ready for work.



You can also create your own personalized Valtra tractor on our web sites on www.valtra.com





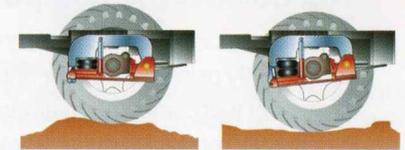
Individual features

Valtra's range of options includes solutions, which further enhance your tractor's productivity.



Driving comfort through Aires air-suspended front axle

As the only tractor manufacturer, Valtra provides an air-suspended front axle, making driving more comfortable and safer.



Full benefit from the front

Front-mounted loader

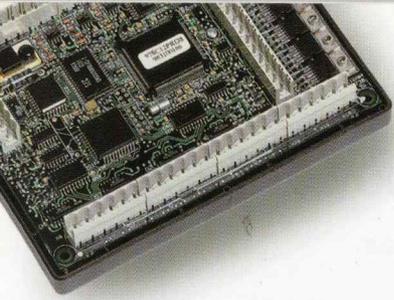
You can choose the original Valtra front-mounted loader installed at the factory. Your Valtra dealer will consult you in finding a suitable model and equipment.

Front linkage and front power take-off

A front linkage device is available separately or with a front power take-off. Combining various stages of operation provides additional productivity.

TwinTrac – a small but high-yielding investment

The TwinTrac models feature reverse drive controls, which allow an excellent visibility in reverse operation. Steering geometry changes as "the rear wheels" steer. The reverse drive option generates a great number of your ideas in combining the different stages of operation.



HiTech is based on a computer-controlled transmission system. The 6750 and 8350 models feature the newest HiTech 2.0 software version, which has provided transmission control with new features, such as the haulage release AutoTraction.

Valtra's state-of-the-art HiTech technology

You decide, the computer does the rest

HiTech makes it unbelievably easy to operate the tractor. At less than 10 km/h, you can drive by only using accelerator and brake pedals (Autotracting). Shuttle and the Delta Powershift work smoothly in all circumstances. In addition, you can program the transmission operation according to your needs and preferences. You only need to use the clutch when starting the engine, otherwise the HiShift press buttons will control the clutching and increases service life. The hand brake placed in the shuttle lever means improved safety; the brake also engages automatically when you stop the engine.

The HiTech 2.0 software has also been adjusted to the 6750 and 8350 models to consider their lower rpm range. You'll find the automatic powershift either on factory pre-set or you can program it according to your driving preferences. The always smooth operating shuttle mechanism enables you to choose the starting speed in both driving directions. The tractor starts only if the seat is occupied by a person over 30 kg. This is also a considerable safety-enhancing factor.

Standard models are also needed

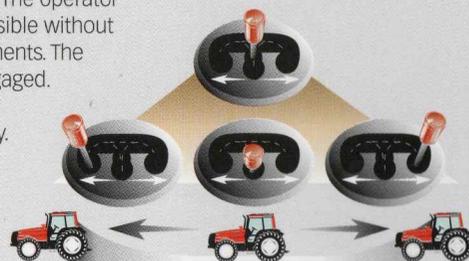
The models operating at lower rpm supplement Valtra's product range. Nevertheless, "the standard models" are still needed. Only one low-rpm version can be optimised out of one engine displacement; a normal rpm range is also needed for other output versions. In order to operate, Valtra's unique turbine clutch (in 80-120 hp models) also requires an engine of standard speed. The maximum speed of the low-rpm models is 40 km/h. In countries where 50 km/h is permitted, a tractor with a standard rpm is faster.



Valtra HiTech operator's interface for safe control

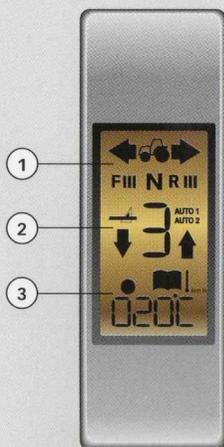
Valtra HiTech combines the comfort of a car, mighty resources and simple joystick controllability to a tractor. The operator needs just issue commands using only his/her fingertips. The HiTech tractor is the operator's individual work machine, the behaviour of which can be tailored as required. The HiTech tractor is comfortable, efficient, easy to control and safe.

Valtra HiTech transmission brings new comfort to operating a tractor. Silent, quick and accurate forward/reverse control is an excellent feature especially in tasks in which you have to change direction repeatedly. The operator can concentrate on his/her work as comfortably as possible without stressing him/herself with unnecessary, repeated movements. The tractor can be started only when the parking brake is engaged. If the operator forgets to engage the parking brake after switching the engine off, HiTech engages it automatically.



Clear HiTech info display

The info display indicates the selected direction, the Powershift gear step in use, driving speed and outdoor temperature. The operator is continuously in control.



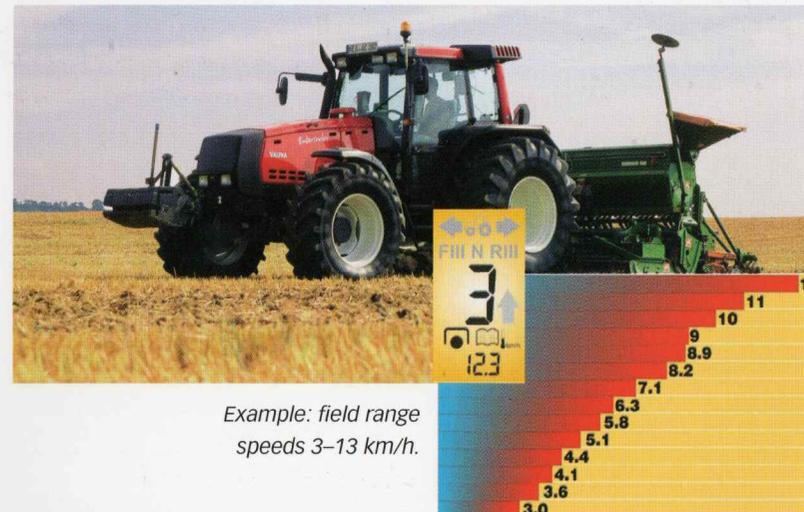
- ① **Top of the display — forward/reverse** shows the operator the driving speed, handbrake status and the active or programmed Powershift gear forward or backward.
- ② **Middle of the display — Delta Powershift** shows the operator, among others, the number of Powershift step and the suggestion of machine automatics to shift up or down.
- ③ **Bottom of the display — diagnostics block** shows the PTO status, outdoor temperature, tractor speed and maintenance code, among others.



Valtra HiShift — press a button and control the clutch

Valtra HiShift is used to release the drive clutch during mechanical shifting. HiShift releases you from pressing the clutch pedal in most practical driving situations. In principle, you only need the clutch pedal when starting up — only to ensure safety. If you want to make individual selections according to your own driving method, you can naturally use the clutch pedal. Active use of HiShift makes your work more efficient and significantly relieves the stress of the clutch pedal foot.

The drive switch is managed by the computer. Both forward and reverse drives have their own maintenance-free, wet multiplate clutches.



Example: field range speeds 3–13 km/h.

Delta Powershift — always correct speeds

The basic gearbox of HiTech tractors has 12 steps. The DPS express gear offers each step three speeds that can be selected without the clutch. DPS provides 36 speeds forward and backward with close steps; in the field work range 3–13 km/h, you have actually 11 different gears. In HiTech models, the shifting event is computer-controlled. The speed is measured 100 times a second before and after DPS, and if it is different than the default value, the automatics issues a command to correct the situation. The express gears are always shifted pleasantly regardless of load.



More comfort with programming

Increase work productivity with easy-to-use pre-programming of forward/reverse and Delta Powershift functions. You can select the most suitable Delta Powershift step forward and another speed for reverse. This provides a clear advantage in front loader work and headland driving.

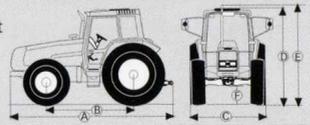
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Basic specifications		
Model	HiTech 6750	HiTech 8350
Engine Sisudiesel		
(S = turbo, W= by pass turbo, I = intercooler)	420 DWRIE	620 DSRIE
Nominal power, kW(hp) DIN / engine rpm	77(105)/1800	99(135)/1800
Max. power, kW(hp) DIN / engine rpm	79(107)/1600	103(140)/1600
Max. torque Nm / engine rpm	530/1150	650/1100
Torque reserve %	29	23
No of cyls / capacity ltr	4 / 4,4	6 / 6,6
HiTech Transmission		
36 forward + 36 reverse speeds, 0,6 - 40 km/h		
Main clutch type	Dual wet multi-disc	
Shuttle	Computer controlled, hydraulic, pedal free	
Delta Powershift	Computer controlled Delta powershift III	
4WD	Manual or automatic operation (With powerlift and brakes)	
Differential lock	Manual or automatic operation (With powerlift and brakes)	
Parking brake	HiBrake, hydraulically operated with shuttle lever	
PTO, interchangeable shaft		
Computer controlled soft engagement, 6-spline ø 35 mm (21, 20, 8 and 6 -spline shaft as option)		
PTO 540 rpm	540 PTO rpm, 1648 engine rpm	540 PTO rpm, 1539 engine rpm
PTO 1000 rpm	1000 PTO rpm, 1750 engine rpm	1000 PTO rpm, 1750 engine rpm
Ground speed	Option	
Hydraulic System		
Autocontrol B, with drive balance control	Standard	-
Autocontrol D, with drive balance control	Option	Standard
Max. pump capacity ltr / min	76	
Lift capacity at link ends, kg	7000	
Slip control (radar)	Option	
Steering Hydrostatic fully adjustable steering column		
Min. turning radius, m	4,7	5,5
with optional longer wheel base	-	6,8
Fuel tank, capacity std ltr	165	
Extra fuel tank, 120 ltr	Option	Standard
Brakes Hydraulic wet discs with automatic engagement of four wheel drive giving four wheel braking		
Electrics		
Starter, kW	3,0	3,6
Alternator, kW	1,6	1,28
Battery, Ah	160	184
Working lights front	2	
rear (2 rotate through 90°)	4	

Dimensions and weights

Model	Tyres	Dimensions (mm)							Weights, kg (less ballast weights)
		A	B	C	D	E	F	Fi	
HiTech 6750	18.4R38	4514 ⁽³⁾	2326	2177	2795	2780 ⁽¹⁾	525	500	4650
HiTech 8350	20.8R38	4940	2558/2748 ⁽²⁾	2240	2830	2839	555	535	5200



Tyres (range tyre options)

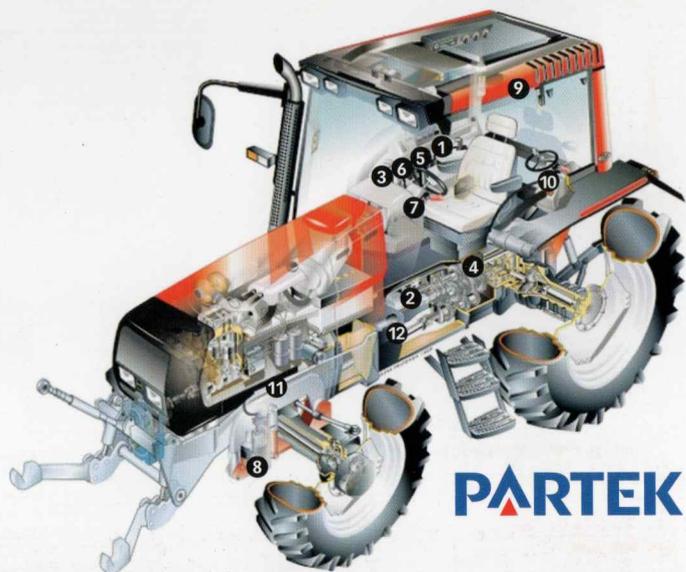
	Rear	Front	HiTech 6750	HiTech 8350
	16.9R38/8	13.6R28/8	X	
	18.4-34/8	14.9-24/8	X	
	18.4R38/8	14.9R28/8	X(*)	X*
	480/70R38	380/70R28	X	
	520/70R38	420/70R28	X(*)	X*
	20.8R38/8	16.9R28/8	X(*)	X*
	540/65R38	440/65R28	X	
	580/70R38	480/70R28	X(*)	X*
1	600/65R34	480/65R24	X	
	600/65R38	480/65R28	X(*)	X*
	650/65R38	540/65R28	X(*)	X*
	18.4R34/14 IND	14.9R24/14 IND	X*	
	20.8R38 IND	16.9R28 IND	X*	X*
	18.4-34/14 FOR	14.9-24/14 FOR	X	
	18.4-38/14 FOR	14.9-28/14 FOR	X*	X*
1	18.4R38/8	14.9R28/8	X(*)	
	20.8R38/8	16.9R28/8	X(*)	X*
	18.4-38/14 FOR	14.9-28/14 FOR	X*	X*
1	600/65R38 FOR	16.9-28/14 FOR	X*	X*
	20.8-38/14 FOR	16.9-28/14FOR	X*	X*

- 1 Wide rear mudguards
- 2 Fixed discs
- (*) Agricultural front axle or ind. front axle
- * Industrial front axle (standard on models 140-160/200)

- 1) The height is same with pillar exhaust pipe
- 2) With longer wheel base, alternative equipment

Valtra HiTech Highlights

	Standard	Option	HiTech
1. Autocontrol	●		●
2. HiTech DPS Transmission	●		●
3. HiShift	●		●
4. HiBrake	●		●
5. HiTech	●		●
6. AutoTraction	●		●
7. 4 WD	●		●
8. Aires		●	●
9. Forest cabin		●	●
10. TwinTrac		●	●
11. Engine over front axel	●		●
12. Frame integrated fuel tank	●		●



We reserve the right to alter the specifications and equipment with out notification.