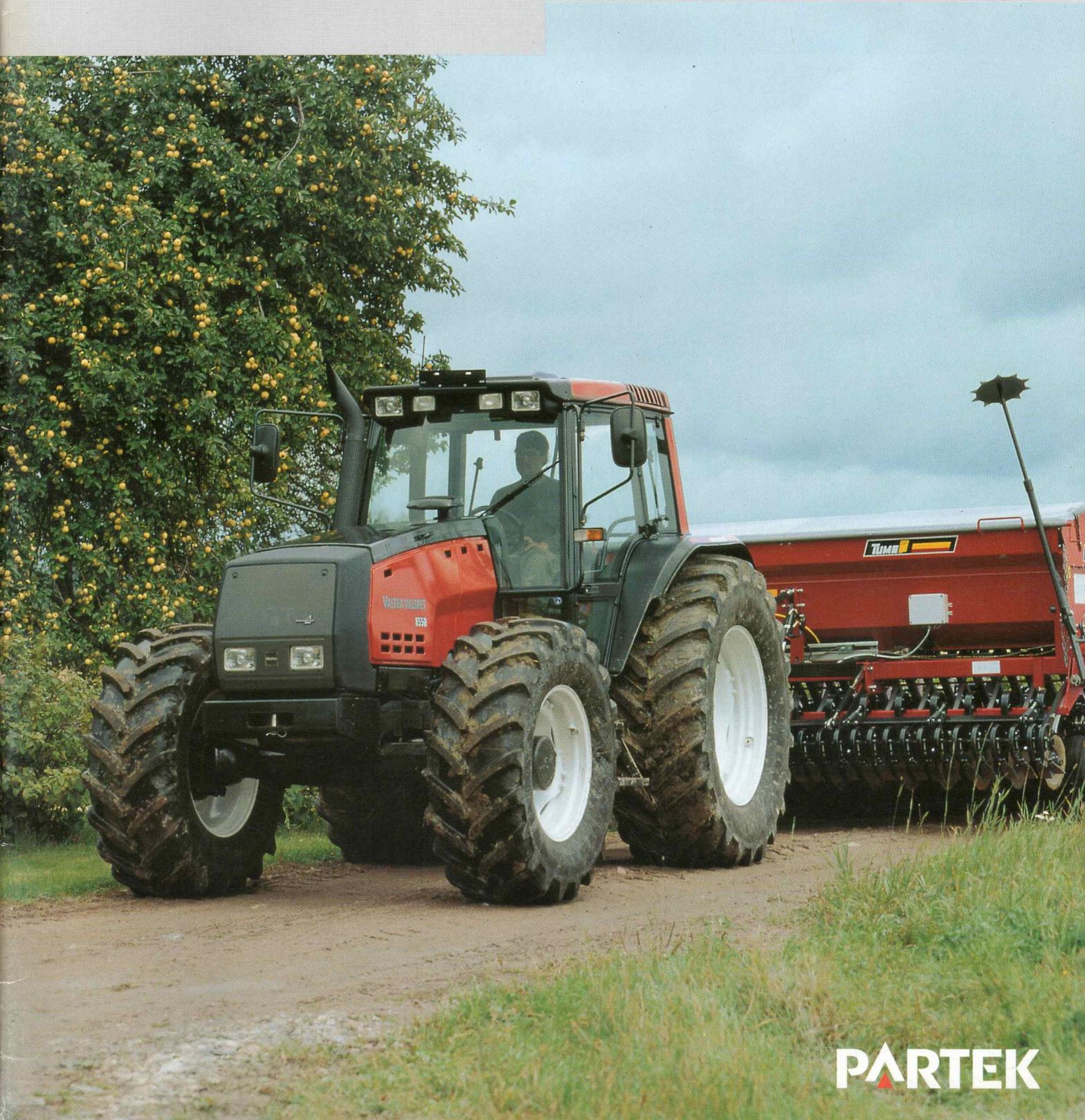


# VALTRA VALMET

8050 8150 8400  
8450 8550 8750



# New Mega Power – always

At Valmet we are proud of our position as leaders in tractor technology and innovation. The new Mega range with their superbly comfortable Ergocab is the result of this development tradition. Powered by Valmet engines specifically developed for agriculture, coupled to a reliable, easy-to-operate transmission and with a powerful hydraulic lift linkage controlled by our advanced Autocontrol management system, Valmet Mega tractors provide a perfect package of power and performance.

## Wide Power Range

The Valmet Mega range is packed with power. Five six-cylinder turbo-charged tractors from 110 to 160 hp - plus Sigma Power - At the top of the range is the 8750 with 172 hp available at the PTO (190 engine hp), a tractor that brings completely new dimensions to the world of tractors.

Permatorque engines feature high torque reserves and, importantly, a very high torque at low start-up engine speeds. Advanced features that leave our competitors standing.

## Refined transmission and hydraulics

Delta Powershift has been developed and refined and forms the basis of all Mega transmissions. Our acclaimed Autocontrol management system has been enhanced with several new features including Drive Balance Control which reduces stress on both tractor and implements from heavy implements in the raised position. Driving is also safer and more comfortable. Autocontrol D (ACD) is standard on 8450, 8550, 8750 and is available as an option on others.

## Improved cab comfort

Driver comfort has been enhanced in the Ergocab. Visibility is excellent, improved by the availability of a cab-side mounted exhaust and new ejector engine air pre-cleaner mounted below the bonnet. The interior has been refined by the inclusion of a comfortable, softfeel steering wheel and a seat which is deeper and wider.

## Versatile and productive

Valmet Mega tractors are the perfect machines for every operation. At around 5 tonnes they are light in weight yet have a transmission designed for continuous, heavy, high torque operation, an ideal formula when compaction has to be avoided. Should extra ballast be required it is a simply a matter of adding weights.



	New Mega Power	
8050	110 hp (81 kW)	p
8150	125 hp (92 kW)	p
8400, 8450	140 hp (103 kW)	p
8550	160 hp (118 kW)	p
8750	160 hp +	
	Sigma Power	p
	Ergocab	p
	Twin Trac	p
	Autocontrol D	p
	Transmission	p
	Engine	p
	Specifications	p

# in the lead



- 2-3
- 4-5
- 4-5
- 6-7
- 8-9
- 10-11
- 12-13
- 14-15
- 16-17
- 18-19
- 20-21
- 22-23



# 8050 and 8150 – number one

## Superior torque - "Power Talks"

The Valmet Permatorque engines in the 8050 and 8150 provide abundant torque for every operation, between 5 and 10% more than that of our nearest competitors. This increase is best illustrated by the torque reserve. A high 39% in the 8050 and a very respectable 35% in the 8150.

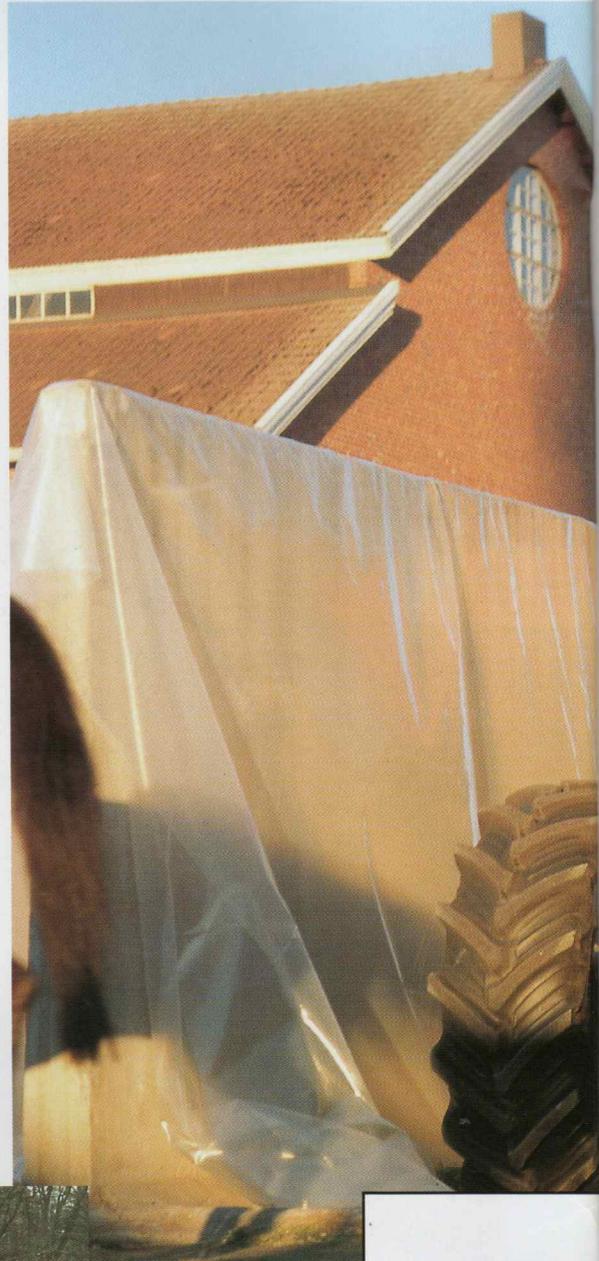
Controlled from the Valmet's Ergocab our economical Permatorque engines produce low emissions and have plenty of power in reserve. Regulated by our Autocontrol management system the 8050 has a lift capacity of 5.5 tonnes while the 8150 lifts a huge 7 tonnes. Both models have a hydraulic oil output of 70 l/min for auxiliary power. Delta Powershift transmission provides a flexible range of speeds for every operation. These are tractors that really produce results.

## Innovative design

Valmet tractors are based on a unique design. The engine is located directly over the front axle, the cab, transmission and hydraulics are over the rear axle. The two are joined by a steel fuel tank. Strong yet light the tank also acts as part of the main frame. This concept produces the ideal weight distribution for four-wheel drive operation. Daily servicing is easy; it is a simple matter to fill the fuel tank from ground level. The introduction of an engine air pre-cleaner that automatically removes larger particles, ejecting them out through the exhaust pipe, makes it almost service free.

## Your Personal Tractor

Our tailor-made customer order system guarantees that you get a Mega tractor that really meets your needs. The wide range of options available on the 8050 and 8150 includes the new Autocontrol D incorporating Drive Balance Control. This system acts as a shock absorber on the lift linkage making driving with heavy mounted equipment in the raised position safer and more comfortable, while reducing stress and strain on the tractor and equipment. Another important option is Twin Trac. With a swivelling seat and duplicated driver controls at the rear of the cab Twin Trac opens up important new ways of utilising Mega power with PTO driven equipment.



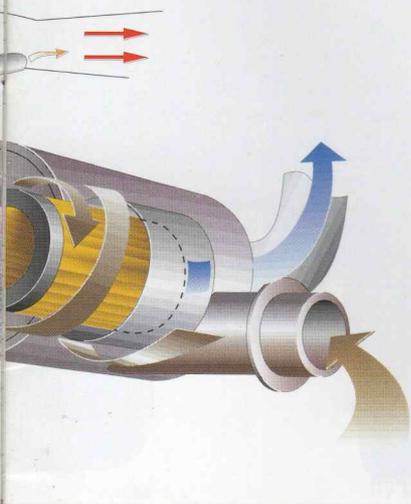
Hydraulic lift capacity of the 8150 is a creditable 7 tonnes and like its bigger brothers it is fitted with Category III ball hitch quick couplers.



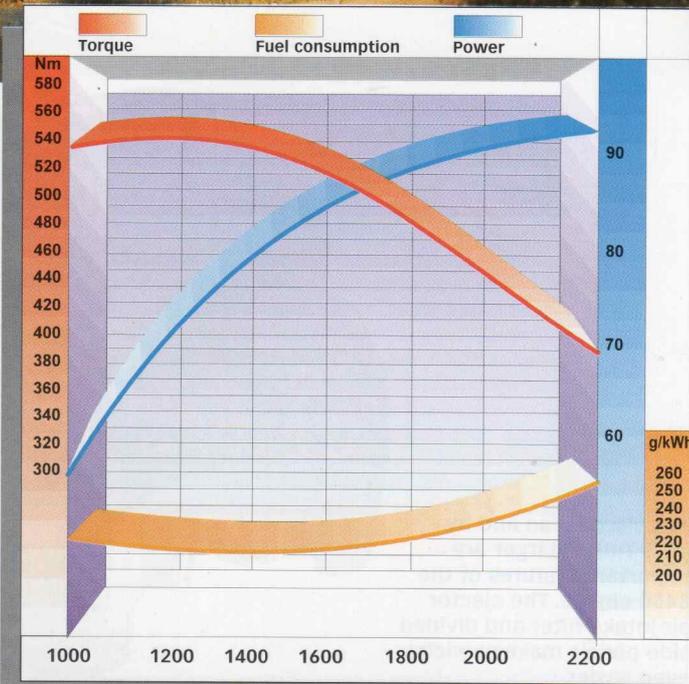
# Tractors for large farm



Valmet air filters are almost service free thanks to the unique ejector that removes larger particles through the exhaust pipe.



Permatorque means Power Talks. After a high torque backup, 35% or 39% depending on model, torque becomes almost constant reaching its maximum at around 1000 rpm. Avoiding engine labouring this high torque facilitates easy start-up when the tractor is connected to heavy implements.



# 8400, 8450 – tractor for a large

## Your favourite workmate, 8400

The Valmet 8400 has proved to be a great success amongst contractors and larger farms thanks to its efficiency and durability. 8400 has now got a worthy partner.

## A Strong challenger, 8450

The engine of 8450 also produces 140 hp but it incorporates a by-pass turbo charger. Valmet Permatorque engine develops 580 Nm of torque. Torque reserve is a very respectable 30%.

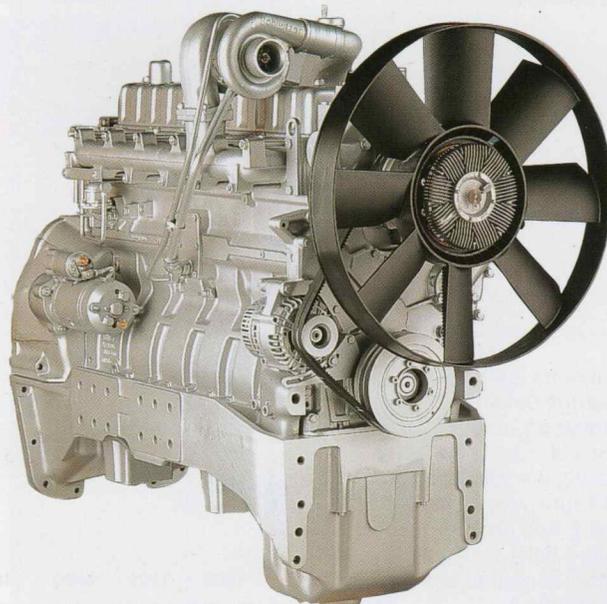
A viscous fan is fitted as standard. Only engaging when the engine requires cooling it helps save fuel particularly when running under light loads. Longer than its predecessor the 8450 engine side covers have been re-designed, their two piece construction making the tractor easier to service. Servicing is also reduced by the incorporation of an ejector type engine air pre-cleaner.

The 8450 has a heavy duty HiLock front axle with the differential lock operation synchronised with that of the rear axle. For maximum efficiency the 8450 is available in two wheel bases, 2558 mm is standard 2748 mm optional.

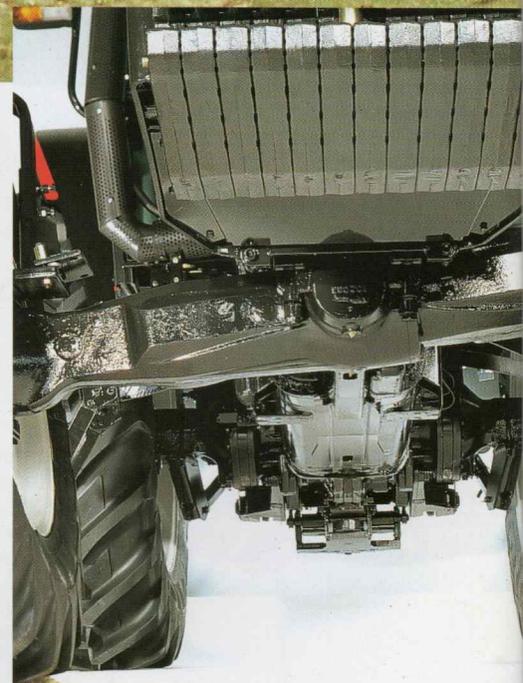
## Drive balance control

The 8450 incorporates our new Autocontrol D with Drive Balance Control as standard. With heavy implements in the raised position Drive Balance Control operates as a shock absorber within the lift linkage, reducing stresses while making driving easier and safer. Our Autocontrol management system, with its easy to understand control panel, has rightly earned a reputation as the easiest to use system on the market today.

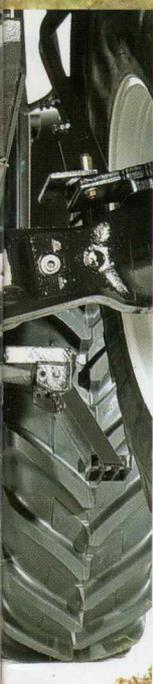
The Valtra Valmet 8450 is definitely a tractor made for heavy operations: Superb Valmet Permatorque engines, versatile Delta Powershift transmission, practical and comfortable Ergocab, accurate lift linkage management provided by Autocontrol D, efficient and robust 2 speed PTO with the option of ground speed - in all a perfect package for today's farmer with modern machinery.



The viscous fan and by-pass Turbocharger are important features of the 8450 engine. The ejector air intake filter and divided side panels make servicing even easier.

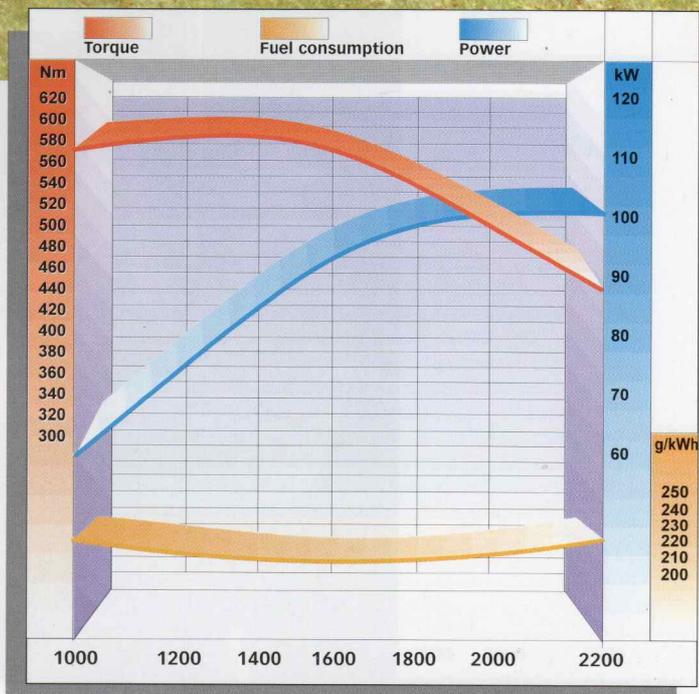


# the farm and the contractors choice



The 8450 has a robust, heavy duty front axle with it's differential lock hydraulically synchronised with the rear axle lock.

Constant power between 1900 and 2200 rpm and constant torque between 1000 and 1500 rpm are features specific to the 8450 Permatorque engine fitted with a by-pass turbocharger.



# 8550 – a really big Valtra Valmet

Seen from any angle the Valtra Valmet 8550 is a big tractor. It's long stroke, turbocharged six cylinder 7.4 litre 634DS Valmet engine develops 160 hp and an impressive 650 Nm of torque. The average fuel consumption is around 200 to 210 g/kW. Thanks to Valtra Valmet's unique design and light construction the unballasted weight of the 8550 is just 5 tonnes which gives a highly favourable power to weight ratio of 42 kg/kW.

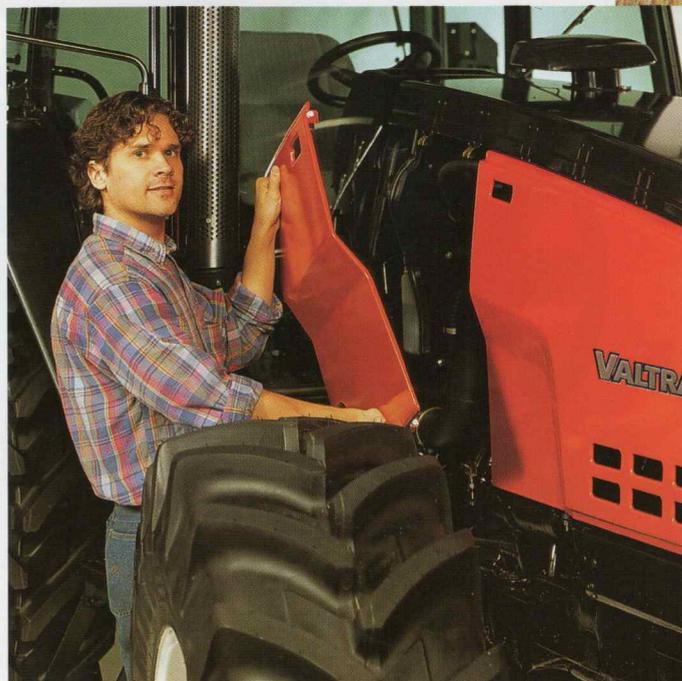
If required the tractor's weight may be increased with ballast to 7 tonnes. To increase performance the standard wheelbase, 2558 mm, with a heavy duty Hi-Lock front axle, can be increased to 2748 mm. Autocontrol D provides accurate electronic control of the hydraulic lift linkage which has a capacity of 7 tonnes.

## Strength with comfort

The 8550 is an exceptionally productive tractor. It's new Delta Powershift transmission matches the power of the workaholic engine providing exactly the right speed for every operation. There is a choice of PTO speeds; 540 + 1000 is standard with 540 + (540E)750, 540E(750) + 1000 and 1000 heavy duty as options. If required ground speed is available with either the standard or optional speeds.

The Ergocab is quiet and comfortable with efficient air conditioning and heating units. The driver can adjust his environment to meet his individual needs, even the air suspended seat is heated for those really cold days.

All controls are placed comfortably to the driver's right. For Twin Trac reverse drive operation the seat swivels through 180 degrees and control pedals are placed conveniently on the floor at the rear of the cab. A second steering wheel is placed to the right leaving the central area free for auxiliary implement controls. There can be no doubt that the Ergocab is unequivocally an aid to productivity – The 8550 is definitely the tractor for larger farmers and contractors.

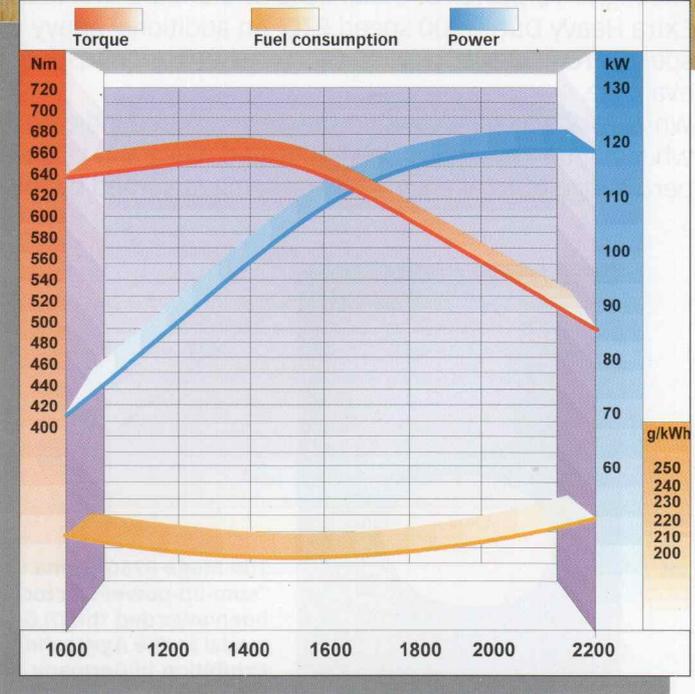


et 8750 - sigma ROVEREKESTY



The Valtra Valmet 8550 is a big tractor it's long wheel base of 2.75 m making it stable when used with heavy mounted equipment. Autocontrol D (ACD) with Drive Balance Control reduces shock loadings when travelling with heavy implements on or off road. Visibility is excellent with a side mounted exhaust and split engine side panels make servicing easier.

Power really talks through the Valmet 634DS engine, an engine which has additional potential. Read on...



# 8750 – Sigma Power takes you

## Tractor and implement compatibility

Agricultural implements have developed in such a way that only a few like ploughs, conventional cultivators and trailers require pure draft force. With others, power harrows and potato harvesters for instance, it is PTO power and hydraulics that are the essential factors.

Until Valtra Valmet took up the challenge most high horsepower tractors were, by definition, heavy and often impractical. It is inefficient and unprofitable to power a forage harvester or power harrow with a heavy tractor weighing 8 tonnes when it can be done with one weighing just 5 tonnes. To make this possible Valtra Valmet have introduced Sigma Power.

## Summing up of power

Sigma Power – the summing up of power – is a technical breakthrough from Valtra Valmet. For draft operations engine power is limited to 160 hp however once more than 250 Nm of engine torque is being consistently absorbed by the PTO an electronic controller instructs the rugged 634DS Valmet engine to increase power to 190 hp providing 172 hp for use by the PTO. A light weight tractor with high power PTO potential. Importantly the 8750 is three tonnes lighter than most other tractors in the 190 hp class. This in turn saves around 500 kg of extra rolling resistance which absorbs 12 hp at 4.5 mph and 17 hp at 6.25 mph. A considerable saving in power, fuel and ultimately money. As far as productivity is concerned Sigma Power is unbeatable.

## Profitable Combinations

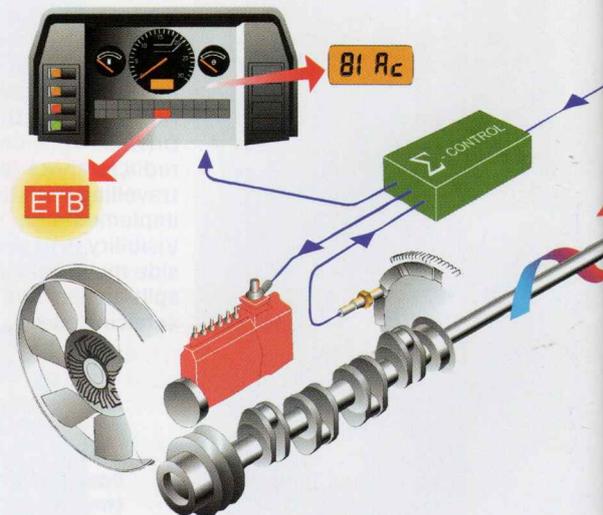
With specialist Valtra Valmet features like Twin Trac reverse drive and the availability of low profile and flotation tyres Sigma Power opens up completely new horizons. High capacity, reverse drive, forage harvesters mounted on the 8750 will challenge the output of self propelled foragers at a much lower capital cost. It also has the added versatility of a tractor being available for other operations rather than a dedicated machine suitable for only one operation. Power harrows and tillage trains tread lightly on the ground when powered by an 8750 fitted with flotation tyres. Power is not being wasted simply moving a heavy tractor.

The high PTO power of the 8750 is as standard available through the Extra Heavy Duty 1000 speed PTO. An additional heavy duty ground speed PTO and 1000 + 540E PTO (w or w/o ground speed) are also available.

When in use a display within the engine speed indicator indicates when Sigma Power has been activated while an LCD panel shows the percentage of total engine power being absorbed by the PTO.



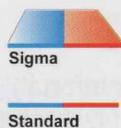
The Mega 8750 Sigma Power "sum-up-power-tractor" has been awarded the DLG gold medal in the Agritechnika Exhibition in Germany.



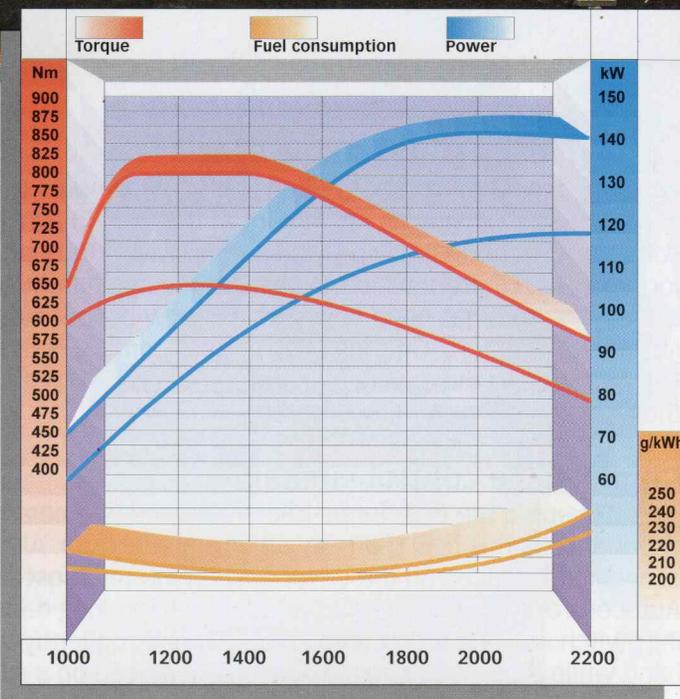
# u into a new era



The lower graphs are similar to those of the 160 hp 8550. All this power may be transmitted as pure tractive force. Once 250 Nm of engine torque is being consistently absorbed by the PTO the control system instructs the engine to move to high power mode. There is a massive torque reserve of 60% between the basic 160 hp and the high power mode.



The torque absorbed by the PTO is measured electronically. Two sensors, one at the front of the engine crankshaft and one on the rear of the PTO shaft identify pulses from these two extreme ends of the PTO transmission. Once the system recognises a torsional deformation (a small twist in the shaft) equating to 250 Nm the Sigma Power controller instructs the engine to move to a higher power mode.



# Ergocab



## Ergocab

The Valtra Valmet Ergocab has gained a reputation for providing drivers with just the right working environment for all weathers and conditions. recently re-designed it now offers even greater comforts.

## Getting to grips with work.....

Valtra recognise that most tractor driving is done with one hand on the steering wheel. As a result we thoughtfully provide a small, 'soft feel' steering wheel that is easy to grasp and highly responsive.

## ..... in a really comfortable seat

While driving forward drivers often spend many hours uncomfortably twisted in their seat observing an implement at the rear. To avoid this discomfort Valtra Valmet thoughtfully provide a seat that swivels through 180° giving a comfortable position from which to observe the implement and the front of the tractor. The seat has been enlarged, it is now deeper, wider and more comfortable than before. Offering even greater comfort is the air suspended seat. Self adjusting to the drivers weight it is optional in Mega machines and for those really cold days, it incorporates a heater.

## Comfortable control - instantly

Valtra invented the ergonomic tractor cab and we therefore have more experience in this field than any other manufacturer. Almost all controls are conveniently placed on the driver's right with the most frequently used, like Autocontrol D nearest to hand. You find the working depth dial, lift and lowering switch and fast drop control, those most frequently used, right by your hand while those less frequently used are placed on a separate panel.

# RESTRAINT



## Information at a glance

Basic information is relayed clearly and concisely through an analog display on the instrument panel. Additional information is relayed through the Agrodigital Digital Display which is optional. Information includes driving speed, PTO speed, driven distance and transmission oil temperature and, as on the standard panel working hours and lift linkage position.

## A clear view all round

A sloping bonnet and wide windows ensure you have a perfect view of every operation enhanced, in Mega models, by the introduction of the ejector engine air pre-cleaner which is located underneath the bonnet. A side exhaust is optional on Mega tractors. Mounted adjacent to the front pillar of the cab it enhances the driver's field of vision still further.



# TwinTrac

## Bi-directional working

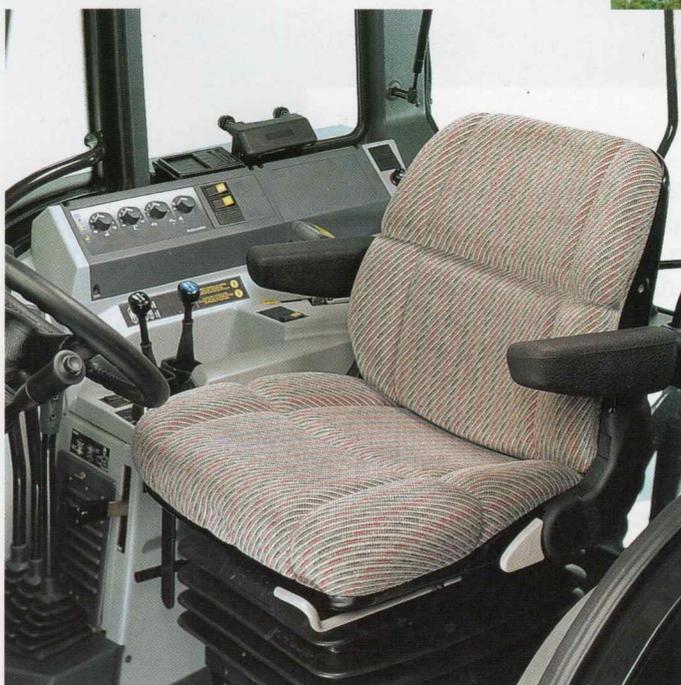
Designed from its very conception for both forward and reverse operation the Ergocab is fitted with a seat that, without requiring the driver to stand, swivels easily through 180°.

## Designed for operator comfort

Valtra Valmet's unique Twin Trac system duplicates control pedals and a steering wheel at the rear of the cab. With the steering wheel placed on the right it is easy to control with one hand leaving the centre clear for an unobstructed view of the implement or, in some instances for the implement controls. There is ample leg room for even the largest driver and access remains excellent.

## Two in one

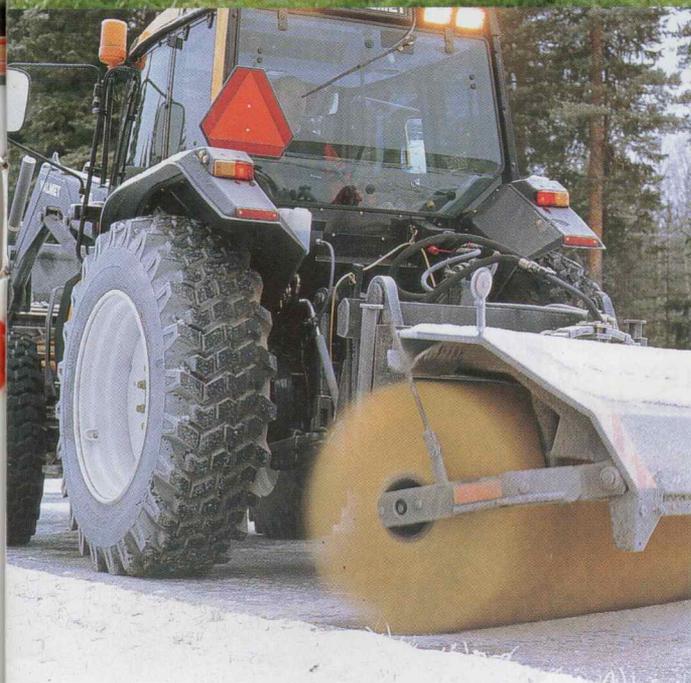
Twin Trac comes into its own when working with heavy PTO equipment requiring the full capacity of the lift linkage. When used with attachments like linkage mounted forage harvesters, output can rival that of self propelled machine enhanced by the flexibility of tractor power rather than the inflexibility of a self propelled machine. Buck raking is a more comfortable operation with Twin Trac as are a wide number of other operations. For the forester Twin Trac, with the controls mounted directly in front of the driver, makes crane operation effortless. Reversing through standing timber is also easier.



Drivers can change working direction without having to leave the seat as it swivels easily through 180°.

Try Twin Trac yourself. You'll immediately find that the ability to drive and work in both directions is not only easy it also increases efficiency. Second to none Twin Trac is ideal for many farming, contracting and public utility operations.

# Autoccontrol D



# Autocontrol D

## Autocontrol - operational pre-programming backed by computer technology

Valtra Valmet Autocontrol has earned a reputation as being the easiest to use electronic tractor management system available today. Now Valtra Valmet have improved and extended the range of operation with the introduction of new digital technology. Autocontrol D is now the yardstick for tractor management technology.

## Drive Balance Control guarantees stress free transport.

The most significant new feature in Autocontrol D is the active load control, Drive Balance Control. Now heavy mounted equipment in the raised position need not effect the tractor's equilibrium. Acting like a shock absorber Drive Balance Control allows limited up and down movement of the link arms, smoothing out jolts and bumps, reducing mechanical stress on the tractor and implement and giving the operator a more comfortable ride. Importantly, Drive Balance Control improves ground contact by the front wheels and thus improves steering and operational safety.

## Safety

Autocontrol D is safe to operate. Control switches in the cab and on the mudguards aid implement mounting and a warning light indicates if the implement is in a different position to that shown by the depth control. After starting the engine Autocontrol operation must be initiated before the system will function. An important safety feature ensures that if the implement is in a different position to that set in the system the correction is made slowly.

## New features with additional equipment

Autocontrol D has increased compatibility with other systems. The optional radar based slip control which may be added to without difficulty. Measuring the difference between wheel speed and ground speed slip control will lift and lower an implement to avoid wheel spin. Through hydraulic rams mounted on an implement ACD may also be used to control of all or part of the implement regardless of ground conditions.

## Powerful hydraulics

Hydraulic output from Valtra Valmet Mega 50 tractors is over 70 litres/min, more than adequate for both steering and implement requirements. Two external control valves are standard with a third and fourth valve available as options. Features include float and flow controls. Conveniently positioned external push-pull connectors are coupled to a drip tank. Power output from the hydraulic system is 20 kW (OECD standard measurements).



# noissimanst



## Simple, easy implement attachment

The category III three point linkage is fitted with ball hitch quick couplers and have a lifting force of 7 tonnes (68 kN). Optional equipment includes a hydraulically adjustable top link linkage lift rods. A choice of drawbars is available to meet all needs. The pick-up hitch has a high capacity and excellent ground clearance in the raised position. Incorporating a clevis and hook it lowers to ground level. A multi-height drawbar is ideal for fourwheel, drawbar steered trailers.



# Transmission

## Four Wheel Drive concept

All Valtra Valmet tractors are designed as four-wheel drive for maximum efficiency, Mega machines are only available in this form. Two wheelbases are available; the 8050 and 8150 are standard at 2558 mm with an option of 2748 mm. The 8450 is available with either long or short wheelbases and the 8550 and 8750 are standard at 2748 mm. The front axle of the 8050 and 8150 is fitted with a limited slip differential while the larger machines have heavy duty front axles with their differential lock synchronised with the rear axle. These features have been designed to give optimum weight distribution and traction.

## A flexible transmission

The Mega range is fitted with a transmission that gives 12 forward and 12 reverse speed as standard. As an option available Delta Powershift gives 36 forward and 36 reverse speed.

Delta Powershift is a three step planetary system, changes are made with electronic push buttons on the gear lever which transmit commands via the transmission's hydraulic system to the selectors. The main transmission has three ranges with four speeds in each gear. The crawler group of gears cover speeds from 0.6 to 2.5 km/h. The field group covers speeds from 3 to 13 km/h while the transport group extends from 9 to 40 km/h. Contained in a separate housings both the Delta Powershift and main transmissions are easily serviceable. An optional transmission giving speeds up to 50 km/h is also available on some markets.

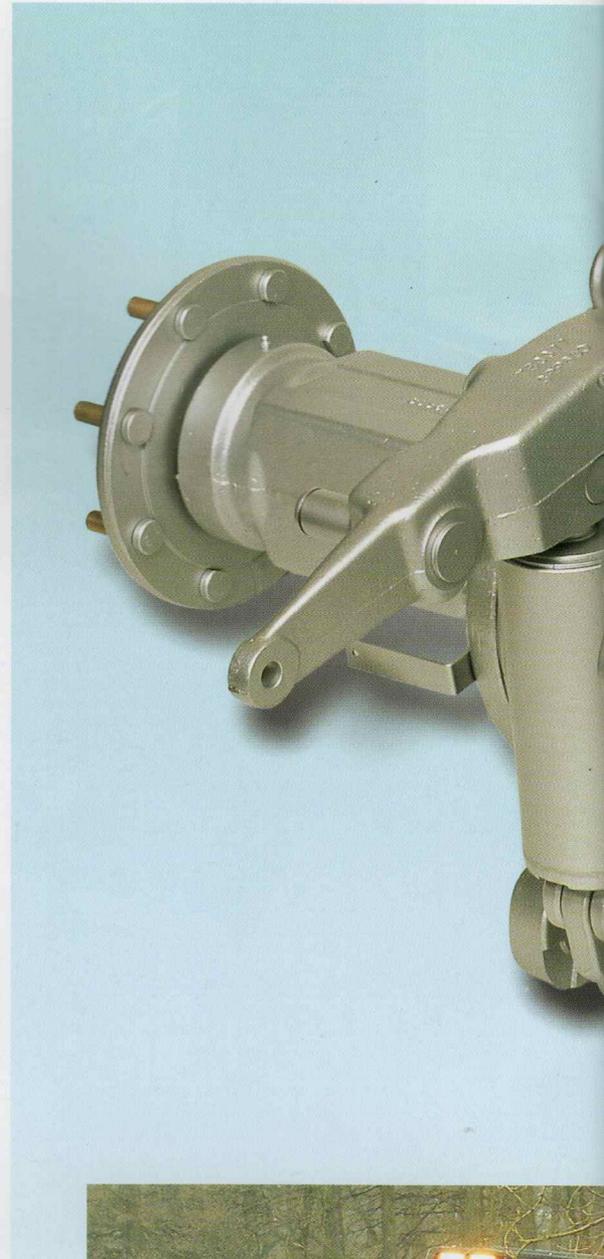
## Powerful PTO technology

It is only natural that tractors over 100hp will be required to undertake PTO work and the Mega range has been designed for particularly heavy PTO operation. Power for the PTO is transmitted directly from the flywheel to the PTO clutch thus avoiding power losses through gear trains. Up to 160 hp there are two pairs of standard speeds; 540 + 1000 or 1000 + 540E (750). Ground speeds are also available and there is a range of shafts to meet the different standards.

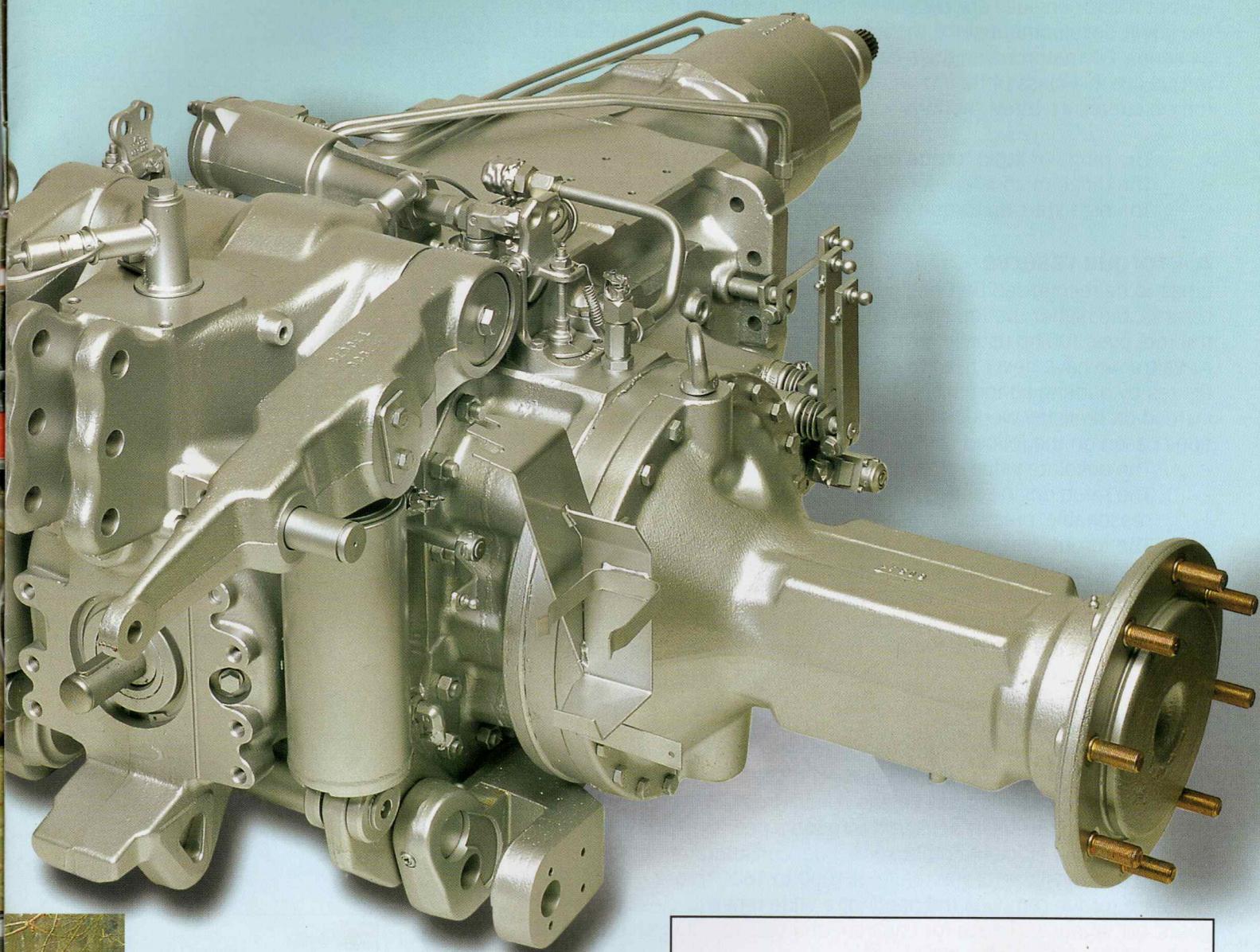
## Autocontrol - safe and simple transmission control

Autocontrol manages many transmission functions in the Mega range making operation safer and easier:

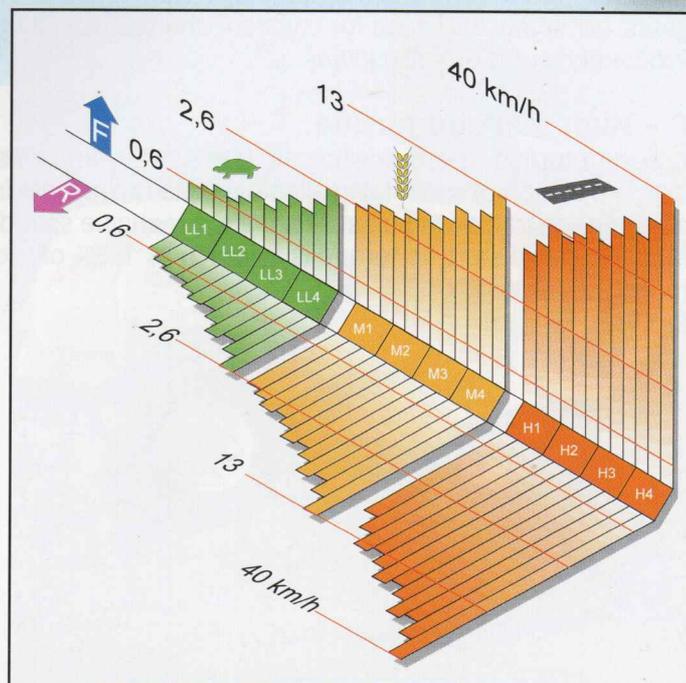
- \* Delta Powershift speeds can only be changed in single stages and the chosen speed is shown on the display panel
- \* The rear differential lock is automatically disengaged when the brakes are applied or the lift linkage raised. On the three larger models the front differential lock works in automatically unison with the rear lock.
- \* The PTO has a safety engagement device to prevent accidental operation.
- \* The PTO has an external emergency stop which may also be connected to manned, trailed equipment.



# Engine



Based on the Delta Powershift concept the Valtra Valmet Mega transmission is a proven and reliable unit when matched to the unbridled power of the Permatorque engines.



36 forward and 36 reverse speeds in three groups, creep, field and transport, each containing 12 speeds from 0.6 to 40 km/h.

# Engine mission

## Permatorque engines

Valmet tractor engines are constantly being developed. Permatorque is the latest development since the introduction of the acclaimed 20 and 34 series. Permatorque engines have many new features - power and torque are in a class of their own - for clarity we have divided the torque curve into three sections;

- A: The range of rapid torque reserve - 2200 to 1600 rpm
- B: The range of constant torque - 1600 to 1000 rpm
- C: The high start-up torque - 1000 rpm

### A - torque reserve

It has to be recognised that engine speed has an effect on torque reserve, the higher the top speed the higher the reserve however, tractors over 100 hp usually have a torque reserve in the region of 30%. At Valtra we have never tried to inflate our engine torque reserve figures by quoting abnormally high top speeds. We have concentrated instead on realistic, working figures which relate to practical applications based on the following criteria.

- The absolute value of torque must be high
- The rated engine speed must be kept to a reasonable, practical level
- The torque reserve build up must be rapid.

When these conditions are applied tractor operation is efficient with fuel consumption remaining at acceptable levels. Changes in soil and terrain have minimal effect on performance and optimum engine characteristics are reached without the use of excessive speed or power.

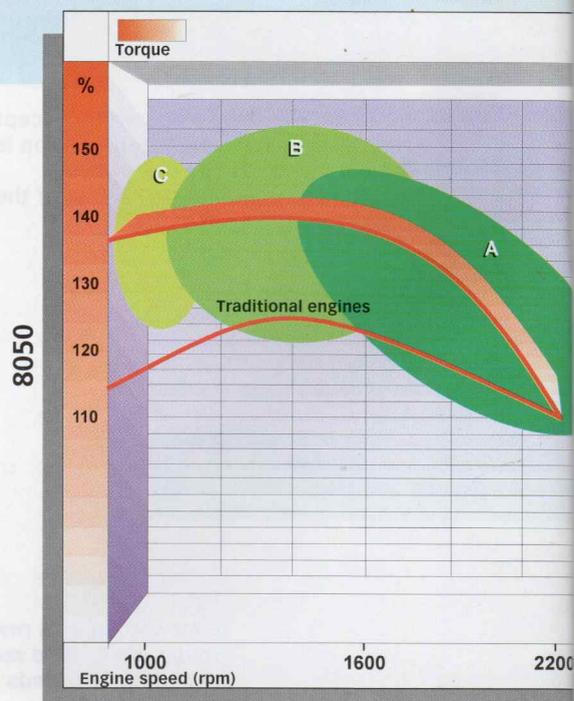
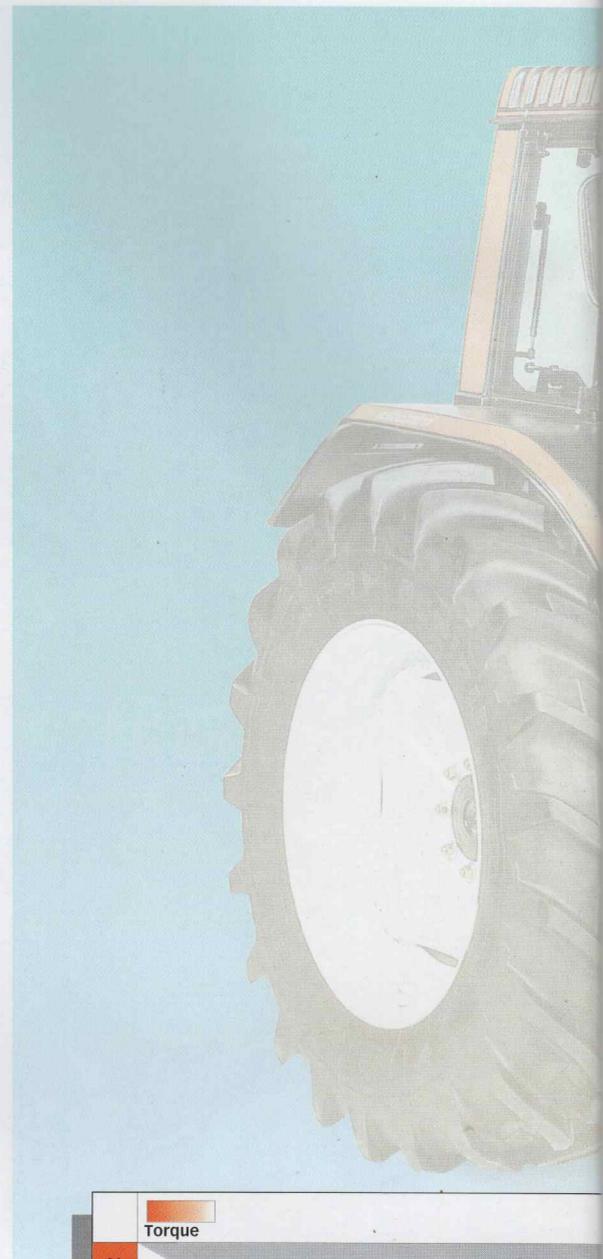
### B - High torque range

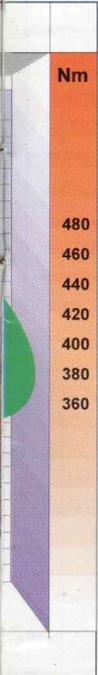
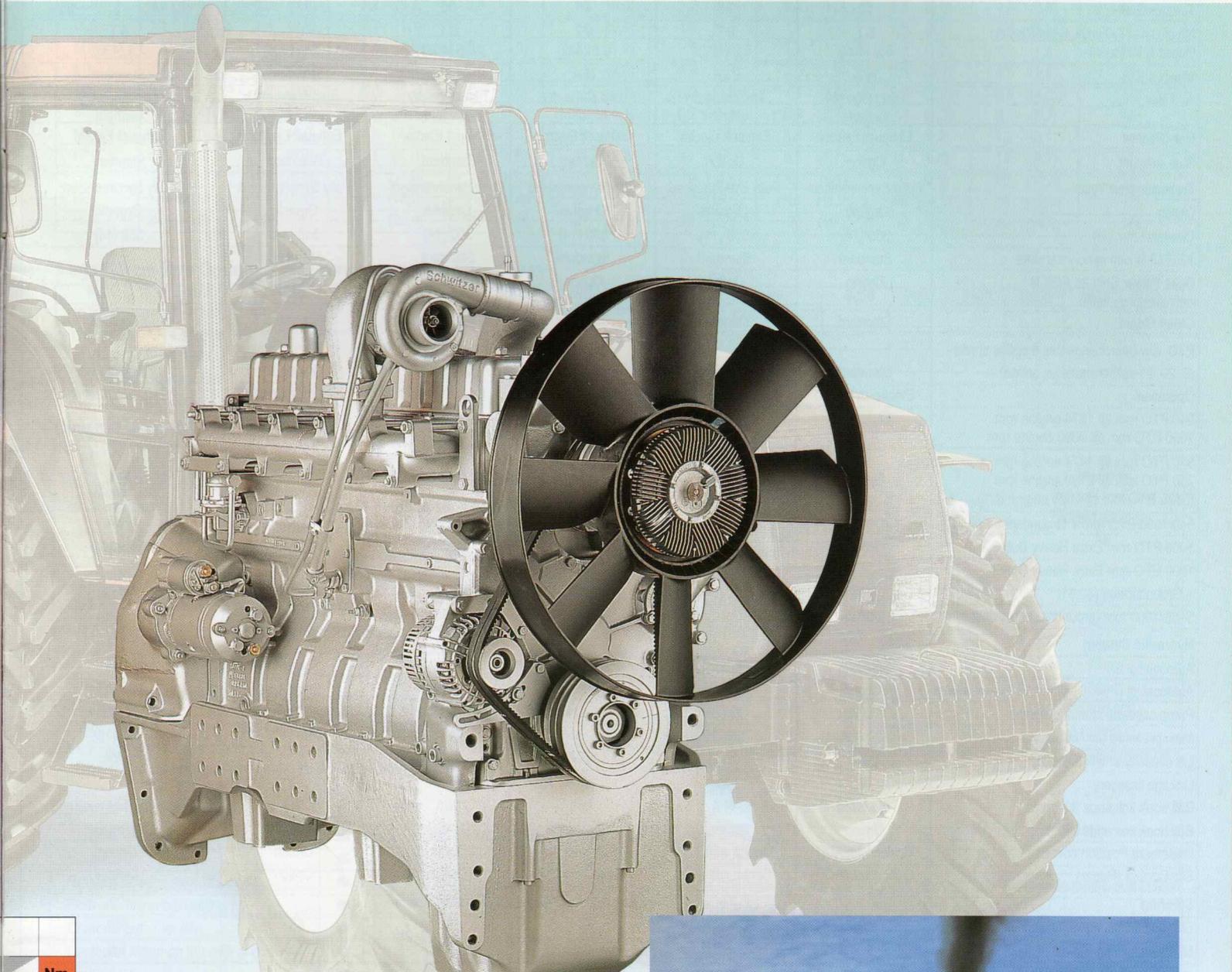
Maximum torque is much higher in Valmet Permatorque engines than in many of our competitor's. Moreover torque does not decrease, remaining close to the maximum, as engine speed drops. This constant power, we call it Permatorque, is achieved through a new kind of fuel technology and effective, efficient combustion. Fuel consumption remains low through the constant torque range of 1000 to 1600 rpm.

Constant torque removes the need for a wide range of closely spaced gears, eliminates the need for constant changes to maintain output. Production costs are also lower.

### C - High start-up torque

Constant torque makes starting up with a heavy implement easier. A high proportion of the total available torque is available immediately allowing the tractor to pull at relatively low engine speeds. In the new Mega 50 range start-up torque is as much as 135% of the nominal torque.





Valtra Valmet tractors have proved themselves by winning several medals in the top leagues of tractor pulling. This Super Stock tractor in the 3.4 and 4.4 tonnes class delivers in excess of 2000 hp at 5500 rpm. A few moments at this power is equal to 15,000 hours of normal agricultural operation.



# Valtra Valmet Range

Basic Specifications – may vary according to market area

Model	8050	8150	8400	8450	8550	8750	
<b>Engine Valmet</b>	620 DS	620 DS	620 DS	620 DW	634 DS	634 DS	
Max Power, Hp (kW) DIN @ Engine rpm	110 (81) 2200	125 (92) 2200	140 (103) 2200	140 (103) 2200	160 (118) 2200	160 (118) 2200	190 (140) 2200
Max Torque Nm @ Engine rpm	490 1300	540 1300	520 1450	580 1450	650 1450	650 1450	820 1400
Torque reserve %	39	35	16	30	27	27	35
No of Cyls (T=Turbo, I=Intercooler) Capacity ltr (cu in)	6 T 6,6 (402)	6 T 6,6 (402)	6 T 6,6 (402)	6 T 6,6 (402)	6 T 7,4 (490)	6 T 7,4 (490)	6 T 7,4 (490)
Viscous Fan	N/A	N/A	N/A	Standard	Standard	Standard	Standard
Air Filter	Two stage dry element	Two stage dry element	Two stage dry element	Two stage dry element	Two stage dry element	Two stage dry element	Two stage dry element
Pre-Cleaner	Exhaust Ejector	Exhaust Ejector	Exhaust Ejector	Exhaust Ejector	Exhaust Ejector	Exhaust Ejector	Exhaust Ejector
Side exhaust	Option	Option	Option	Standard	Standard	Standard	Standard
<b>Transmission Type</b>	Fully Synchronised	Fully Synchronised	Fully Synchronised	Fully Synchronised	Fully Synchronised	Fully Synchronised	Fully Synchronised
Clutch	Organic	Organic	Organic	Organic	Organic	Organic	Organic
Diameter mm (in)	350 (14)	350 (14)	350 (14)	350 (14)	350 (14)	350 (14)	350 (14)
12 F/12 R with synchro shuttle	Standard	Standard	Standard	Standard	Standard	Standard	N/A
Delta Power Shift 36 F/36 R with synchro shuttle	Option	Option	Option	Option	Option	Option	Standard
Creep Gears	Standard	Standard	Standard	Standard	Standard	Standard	Standard
<b>PTO</b> c/w interchangeable 6 spline shafts (8, 20, 21 spline shafts as option)	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Operation	Electro-hydraulic	Electro-hydraulic	Electro-hydraulic	Electro-hydraulic	Electro-hydraulic	Electro-hydraulic	Electro-hydraulic
540 PTO rpm @ 1874 engine rpm 1000 PTO rpm @ 2080 engine rpm	Standard	Standard	Standard	Standard	Standard	Standard	N/A
540 PTO rpm @ 1874 engine rpm 750 PTO rpm @ 2138 engine rpm (540E PTO rpm @ 1536 engine rpm)	Option	Option	Option	Option	Option	Option	N/A
540/1000 PTO rpm + Groundspeed (40.81)	Option	Option	Option	Option	Option	Option	N/A
1000 PTO rpm Extra Heavy Duty	Option	Option	Option	Option	Option	Option	Standard
1000 PTO rpm Extra Heavy Duty + Groundspeed (40.81)	Option	Option	Option	Option	Option	Option	Option
540E/1000 rpm (groundspeed as option)	Option	Option	Option	Option	Option	Option	Option
<b>Hydraulic System</b>	Electro hydraulic Operation						
Autocontrol 2.1	Standard	Standard	Standard	N/A	N/A	N/A	
Autocontrol D (ACD) with drive balance control	Optional	Optional	Optional	Standard	Standard	Standard	
Pump capacity ltr/min (gal/min)	73 (19)	73 (19)	73 (19)	73 (19)	73 (19)	73 (19)	
Max. pressure bar (MPa)	190 (19)	190 (19)	190 (19)	190 (19)	190 (19)	190 (19)	
Lift capacity at link ends, kg	5600	7000	7000	7000	7000	7000	
Linkage category	II	III	III	III	III	III	
Ball hook link ends 900 mm	Standard	N/A	N/A	N/A	N/A	N/A	
Ball hook link ends 980 mm	Option	Standard	Standard	Standard	Standard	Standard	
Implement Position control	Option with ACD	Option with ACD	Option with ACD	Option	Option	Option	
Slip Control (Radar)	Option with ACD	Option with ACD	Option with ACD	Option	Option	Option	
<b>Steering</b>	Hydrostatic Fully Adjustable Steering Column						
Steering angle, maximum	55°	55°	55°	55°	55°	55°	
Minimum turning radius, m	5,1	5,5	5,5	5,5	5,5	5,5	
Minimum turning radius, m, with optional longer wheel base	N/A	N/A	N/A	6,8	6,8	6,8	
Heavy Duty Front Axle	Option	Option	Option	Standard	Standard	Standard	
<b>Fuel tank</b> Capacity Std ltr	165	165	165	165	165	165	
Extra fuel tank 85 ltr	250	250	250	250	250	250	
<b>Brakes</b>	Hydraulic wet discs with automatic engagement of four wheel drive giving four wheel braking.						
<b>Electrics</b>							
Starter	3,6 kW	3,6 kW	3,6 kW	3,6 kW	3,6 kW	3,6 kW	
Alternator	1,28 kW	1,28 kW	1,28 kW	1,28 kW	1,28 kW	1,28 kW	
Battery	184 Ah	184 Ah	184 Ah	184 Ah	184 Ah	184 Ah	
Electric Key Stop	Standard	Standard	Option	Standard	Standard	Standard	
Working Lights Front	2	2	2	2	2	2	
Rear (2 rotate through 90°)	4	4	4	4	4	4	
Agrodata Digital Display	Option	Option	Option	Option	Option	Option	
Cigarette lighter and jack plug	Standard	Standard	Standard	Standard	Standard	Standard	
7 Pin Trailer Socket	Standard	Standard	Standard	Standard	Standard	Standard	

The information contained in this brochure is intended as a general guide only. The product specification may vary from country to country and the manufacturer reserves the right to modify its products without prior notice. The manufacturer therefore disclaims all liability in case the product supplied does not in all respects correspond with the information of this brochure. Please always check the product specification with your local dealer.

**Speed ranges km/h (mph) at max output speed**

Gear	16.R38/8			18.4-38, 18.4R38, 600/65R38, 650/65R38			20.8R38			Gear
	I	II	III	I	II	III	I	II	III	
LL1	0,6 (0,4)	0,7 (0,4)	0,9 (0,6)	0,6 (0,4)	0,7 (0,4)	0,9 (0,6)	0,6 (0,4)	0,7 (0,4)	0,9 (0,6)	LL1
LL2	0,8 (0,5)	1,0 (0,6)	1,2 (0,7)	0,8 (0,5)	1,0 (0,6)	1,2 (0,7)	0,8 (0,5)	1,0 (0,6)	1,3 (0,8)	LL2
LL3	1,1 (0,7)	1,4 (0,9)	1,7 (1,1)	1,1 (0,7)	1,4 (0,9)	1,8 (1,1)	1,2 (0,7)	1,5 (0,9)	1,8 (1,1)	LL3
LL4	1,6 (1,0)	1,9 (1,2)	2,4 (1,5)	1,6 (1,0)	2,0 (1,2)	2,5 (1,6)	1,7 (1,1)	2,1 (1,3)	2,6 (1,6)	LL4
M1	2,7 (1,7)	3,4 (2,1)	4,2 (2,6)	2,8 (1,7)	3,5 (2,2)	4,4 (2,7)	3,0 (1,9)	3,6 (2,2)	4,5 (2,8)	M1
M2	3,9 (2,4)	4,8 (3,0)	6,0 (3,7)	4,0 (2,5)	5,0 (3,1)	6,2 (3,9)	4,2 (2,6)	5,2 (3,2)	6,5 (4,0)	M2
M3	5,5 (3,4)	6,8 (4,2)	8,5 (5,3)	5,7 (3,5)	7,0 (4,4)	8,7 (5,4)	5,9 (3,7)	7,3 (4,5)	9,1 (5,7)	M3
M4	7,8 (4,8)	9,6 (6,0)	12 (7,5)	8,0 (5,0)	10 (6,2)	12 (7,5)	8,4 (5,2)	10 (6,2)	13 (8,1)	M4
H1	8,6 (5,3)	11 (6,8)	13 (8,1)	8,8 (5,5)	11 (6,8)	14 (8,7)	9,2 (5,7)	11 (6,8)	14 (8,7)	H1
H2	12 (7,5)	15 (9,3)	19 (11,8)	13 (8,1)	16 (9,9)	19 (11,8)	13 (8,1)	16 (9,9)	20 (12,4)	H2
H3	17 (10,6)	21 (13,1)	26 (16,2)	18 (11,2)	22 (13,7)	27 (16,8)	18 (11,2)	23 (14,3)	28 (17,4)	H3
H4	24 (14,9)	30 (18,6)	37 (23,0)	25 (15,5)	31 (19,3)	38 (23,6)	26 (16,2)	32 (19,9)	40 (24,9)	H4

**Mega Range Tyre Options – may vary according to market area**

Rear	Front	8050	8150	8400	8450	8550	8750	hinter	vorn	8050	8150	8400	8450	8550	8750
16.9R38/8	13.6R28/8	○	○	–	–	–	–	650/65R38	540/65R28	○	○	○	○	○	○
18.4R38/8	14.9R28/8	○	○	○	○	○	○	18.4-38/14	14.9-28/14 *	○	○	○	○	○	○
20.8R38/8	16.9R28/8	○	○	○	○	○	○	18.4-38/14	16.9-24/14 [	○	○	○	○	○	○
600/65R38	480/65R28	○	○	○	○	○	○								

\* =Forestry, [ =Industrial,

**Dimensions and weights**

Model	Tyres	A= Overall length B= Wheel base C= Width D= Height to top of cab E= Height to top of exhaust F= Clearance under front axle Fi= Clearance under rear axle							Weights (full fuel tank less ballast weights) kg
		A, mm	B, mm	C, mm	D, mm	E, mm	F, mm	Fi, mm	
8050	16.9R38	4750	2558	2140	2740	2820	460	460	5000
8150	18.4R38	4850	2558	2180	2765	2870	510	500	5020
8400	18.4R38	4750	2558	2180	2765	2870	510	500	5020
8450	20.8R38	4940	2558	2238	2800	2815	555	535	5160
8450 LWB	20.8R38	4940	2748	2238	2800	2815	555	535	5200
8550 SWB/LWB	20.8R38	4940	2558/2748	2238	2800	2815	555	535	5160/5200
8750 SWB/LWB	20.8R38	4940	2558/2748	2238	2800	2815	555	535	5190/5220

SWB = Short wheel base, LWB = Long wheel base. Always contact your dealer to ensure the right ratio is used. When adjusting track widths or changing tyres the turning angles must be checked/adjusted with maximum oscillation angles on both sides of the axle.

**Optional Equipment**

Agrodata Digital Display	●	○	std on 8450, 8550, 8750
FieldMaster	●	○	
Rotating warning light (Beacon)	●	○	
Rear window wiper washer	●	○	
Charcoal cab inlet filter	●	○	
Customer name on left side of cab	●	○	
First aid kit	●	○	
Safety belt	●	○	
Dry powder fire extinguisher	●	○	
Leather steering wheel	●	○	
Radio	●	○	
Air conditioning	●	○	
Air suspended drivers seat	●	○	
Accelerator pedal, rear	●	○	
TwinTrac reverse drive controls with accelerator, brake clutch pedal and steering wheel	●	○	
Double air filter, cab	●	○	
Reverse buzzer	●	○	
Seat GLH (horizontal suspension)	●	○	
Door limiter (Dual wheels)	●	○	
Front weights 10 x 37,5 kg	●	○	
Front weights 12 x 37,5 kg	●	○	
Extra front weights (12 x 37,5 kg)	●	○	
Front wheel weights (28") 4 x 70 kg	●	○	
Rear wheel weights 4 x 80 kg (36" wheels)	●	○	
Font mudguards	●	○	

Wider rear mudguards	●	○	
Lower link, ball hook 900 mm	●	○	
Lower link, ball hook 980 mm	●	○	Std on 20.8R38 & 600/65R38
Top link, ball hook cat. II	●	○	
Top link, hydraulically adjustable	●	○	
Lift rod, hydraulically adjustable	●	○	
1" free flow return	●	○	
Additional 3 <sup>rd</sup> & 4 <sup>th</sup> auxiliary valve	●	○	
Adjustable flow divider	●	○	
Implement Position Control	●	○	
Slip control with Radar	●	○	
Autocontrol D (ACD)	●	○	Std on 8450, 8550, 8750
Implement Control System	●	○	
Heavy Duty Front Axle	●	○	Std on 8450, 8550, 8750
Long Wheel Base (2748 mm)	●	○	Opt. on 8450, 8550, 8750
Over head main lights	●	○	
Main electrical switch	●	○	
Electrical key stop	●	○	
Door ventilator bar	●	○	
Control stop function	●	○	
Side Mounted Exhaust	●	○	
Fuel tank cap lock	●	○	
Catalytic Converter	●	○	
Extra switches for Delta Powershift	●	○	
Agricultural drawbar/pick-up hitch	●	○	

● = Factory fitted option ○ = Dealer fitted option

Choice of colours: Red.....Blue.....Green.....Yellow.....White

**Valtra Inc.**

Sörnäisten rantatie 23

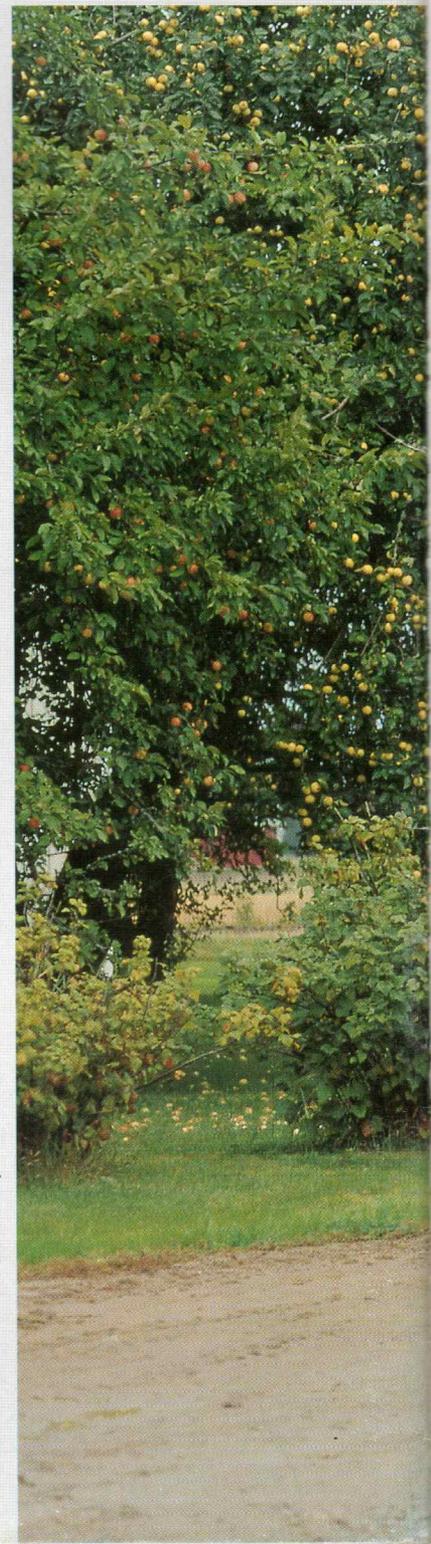
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