

VALTRA
Power Partner

VALTRA
N-SERIES 88 – 160 HP
HITECH VERSU DIRECT

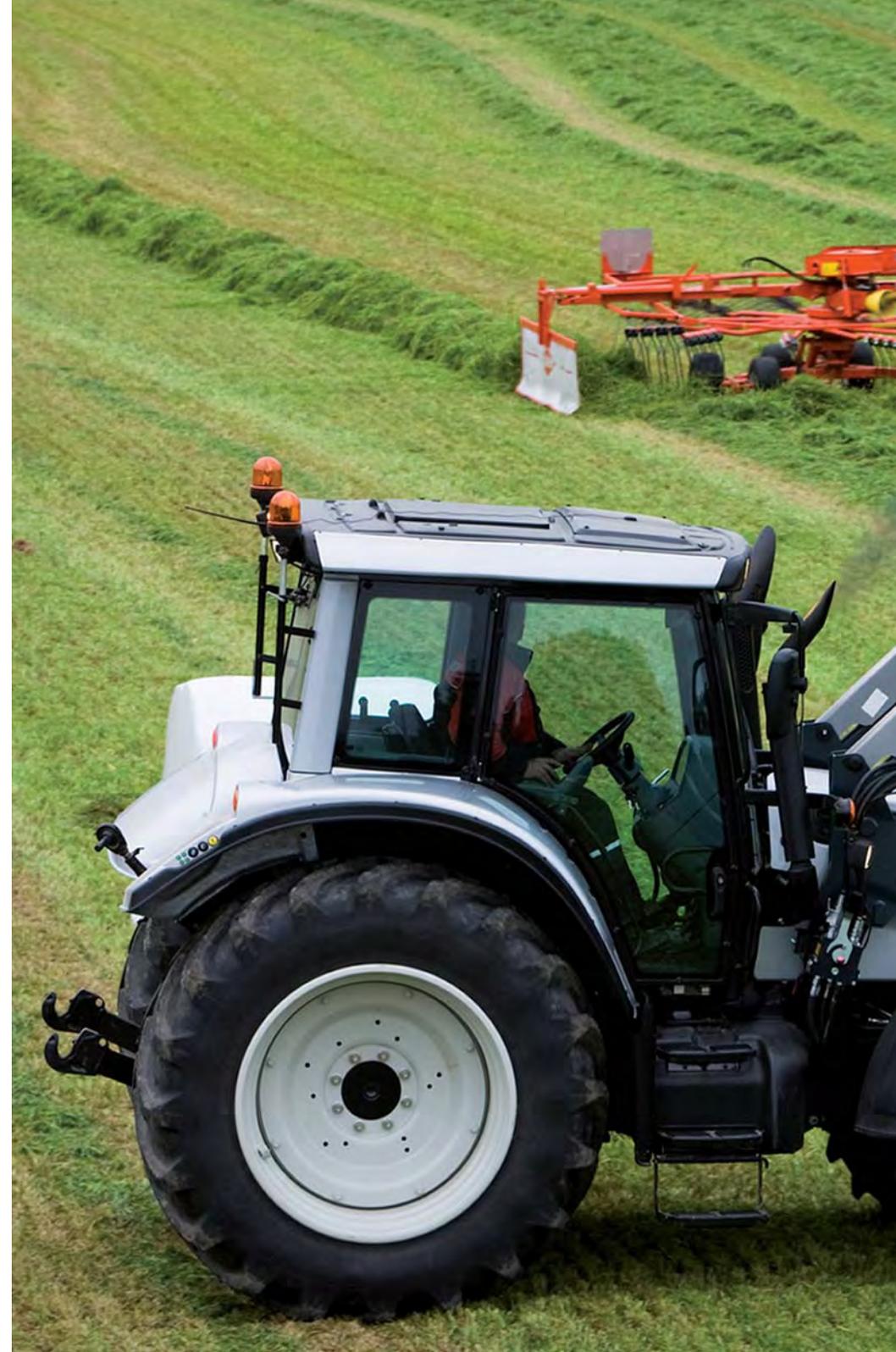


Valtra has been manufacturing tractors since 1951 and has established a reputation for reliability, versatility, durability and its Nordic roots. These factors separate Valtra tractors from the rest. Valtra tractors are designed according to the specific needs of each customer and built to last in even the most demanding weather conditions while operating efficiently in the toughest work conditions. Valtra is a reliable partner whose high-quality products, innovative technology and efficient customer service ensure the highest levels of customer satisfaction.

The well being of people and the environment are a matter of honour for us. In keeping with our values we interact closely with our customers and partners. Valtra's operations are customer-oriented. Unlike other major tractor manufacturers, Valtra manufactures tractors on the basis of individual customer orders.

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THE VALTRA À LA CARTE SERVICE

The idea behind the Valtra à la Carte Service is simple: when you have the best tool for the job, you get the best result.

Finding the best tool means defining your individual needs and having a tractor tailor-made to match them exactly. Every Valtra tractor is built this way.

With the Valtra à la Carte Service and together with our dealer, you can define and build the perfect tractor for you. The selection covers over half a million possible combinations and special Valtra features, for every preference and every possible field of work.



Twenty years ago Valtra – then known as Valmet – stunned the tractor world by introducing colour options. Offering customers the chance to choose their own colour also began the system of custom building tractors based on individual customer orders.

VALTRA N – A new kind of tractor

Nordic practicality at its best

The Valtra N Series is a new kind of tractor that combines the very best of performance and specifications in a balanced and functional package. Customers can choose the options they require starting from the base HiTech model up to the top-of-the-line Direct model. The Valtra N Series represents Nordic practicality at its best, encouraging year-round use even in the most demanding conditions.

DESIGNED AND BUILT IN-HOUSE

The N Series embodies Valtra's manufacturing philosophy. All primary modules are designed and built in-house. This includes the engine, chassis, transmission, powertrain, rear axle, hydraulics and cab. Our suppliers are internationally recognised leaders in their fields.



VALTRA N – your versatile companion

New spacious and quiet cab (68.5 dB)

Superb lights can be further enhanced with upper driving lights and Xenon working lights

Excellent visibility

*Seat rotates 180-degrees
TwinTrac reverse-drive system optional*

Lift capacity at rear up to 8100 kg

*Excellent for front-loader work.
Factory-fitted front linkage and front loader – even on the same tractor*

*Versu and Direct:
Cooled and assisted brakes*

High ground clearance and flat belly

Several front axle options, also suspended

*Versu and Direct:
Separate oils for the hydraulics and transmission*

N -SERIES

Rated output /Max output (ISO 14936)

HiTech	hp
N82	88 / 88
N92	101 / 101
N101	110 / 121*
N111e	ECO 124 / 124
	POWER 122 / 133*
N121	133 / 144 *
N141	150 / 160*

* transport boost on speed ranges H2, H3 and H4 (50 km/h versions also H1)

Versu	hp
N122	133 / 144*
N142	150 / 160 *

*transport boost on speed ranges C and D

Direct	hp
N122	133 / 144*
N142	150 / 160 *

*transport boost on work area C and D over 17 km/h



HITECH – the base model offers excellent features and a wide range of power options

N 82, N 92, N 101, N 111e, N 121, N 141

The HiTech is the base model for the N Series and offers a choice of power ranging from 88 to 160 horsepower. The enhanced driving comfort of the HiTech is based on a computer-controlled shuttle and three-step powershift transmission. Combined with a heavy-duty mechanical gearbox, the powertrain offers 24 or 36 gears in forward and reverse. Up to 11 different ratios are available for working at 4-11 km/h, which is ideal on fields.

The work hydraulics on HiTech models utilise a gear pump with an output of 73 l/min (90l/min option) and mechanically controlled valves. Electronic hydraulics are available for front-loader work. The lift capacity of the electronic Autocontrol linkage ranges from 40kN (N82 and N92) up to 77kN on larger models.

The layout of the cab on HiTech models is the same as that on other N Series tractors. The most spacious cab on the market is well equipped, and options include a forest cab, reverse-drive system and cab suspension (not available on N82-92 models). Noise levels inside the cab have been minimised and are further reduced if you specify the low-rev 111e EcoPower model. In Eco mode the engine speed is kept below 1800 rpm, and work can be performed with little engine noise thanks to the tremendous torque.



HITECH FEATURES:

Electrohydraulic forward-reverse shuttle

Generally considered the best shuttle on the market, it allows you to change directions fast and smoothly. The easy-to-use handbrake is integrated with the shuttle lever.



Automated transmission

The HiTech model also offers excellent opportunities to enhance the use of your tractor through automation, including two automatic powershift programmes, preset powershift after changing driving directions and unique Autotraction.



Turbine clutch

optional on models N82-N121



N82 and N92 HiTech

The top features of the N Series are also available on lighter models.

N Series and SVC

The SVC cab offers supreme visibility and is available on HiTech models.

Forest

Ideal for forest work direct from the tractor: flat belly, high ground clearance.



VERSU – Don't just drive it. Experience it.

N 122, N 142

The power, usability and intuitive handling of Valtra Versu models create a truly unique driving experience and increase productivity.

HIGH-QUALITY VALTRA TECHNOLOGY, TAKEN TO THE NEXT LEVEL.

Valtra Versu tractors have been designed above all to make it possible to work long days efficiently and without getting tired. The automated transmission and assisted brakes make driving easy.

The five Powershift speeds in each of the 6 speed ranges give you an impressive 30 speeds in both directions. Even easier is the automatic function between the C and D driving ranges. So you have just the right speed for any kind of field work or transport.

Everything is in here but the gear shift lever. Now you control the power transmission with only 3 shifting buttons on the patented, ergonomic Valtra armrest - independent of your working direction.

The new Versu models have more power and considerably more torque than previous models. They are suitable for all agricultural and contracting work. And, like all Valtra tractors, they are custom built to match your individual requirements.



OTHER STANDARD FEATURES ENHANCING PRODUCTIVITY AND COMFORT INCLUDE:

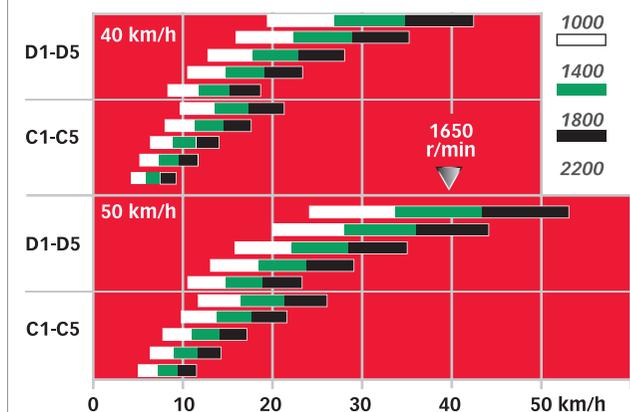
the most powerful and complete hydraulics, with separate oil from the transmission oil. To increase efficiency still further, you can select the genuine TwinTrac reverse drive system, a 50 km/h transmission, ground speed PTO, front axle and cab suspension, front loader, front linkage and many more options.

With a custom-built tractor and the power and usability of Versu, you'll experience control, driving and productivity like never before.

The Versu powershift transmission offers an unprecedented range of features to make your work easier:

- Five-step powershift, speed change 128%
- EcoSpeed transmission allows 40 km/h at just 1650 rpm
- Creeper gear standard
- Speed ranges overlap
- Unique Autotraction facilitates easy stopping and starting under load
- Two automated HiShift programmes, also for shifting between C-D ranges
- Possible to preset speed when switching driving directions with shuttle
- Automatic four-wheel-drive and differential locking
- Advanced traction control uses sensors
- U-Pilot Headland Management System

Valtra Versu 40 km/h, 50 km/h and 40 km/h EcoSpeed





DIRECT – Extremely easy to use

N 122, N 142

Valtra Direct models are equipped with the Nordic continuously variable transmission, the easiest to use CVT on the market. So instead of concentrating on driving you can concentrate on your work.

REVOLUTIONARY EASY-TO-USE CVT

The Nordic CVT transmission is controlled in most situations with the drive pedal and speed management on the patented, ergonomic Valtra ARM armrest. The reliable CVT is designed to be effective also at very high as well as low temperatures: fast starts in Nordic cold as well as heavy pull in Mediterranean heat are easy tasks. Due to four work areas low as well as high speed working is achieved with maximum transmission efficiency. A proven and easy to use power shuttle unit guarantees efficiency in both driving directions. When you're using the front loader, a hydraulic assistant automatically increases RPMs to improve loading performance; a turbine clutch function helps keep a firm grip on the ground. Another remarkable thing in the Direct is the precision of movement. That's total control.

Direct tractors could not be simpler to drive: turn on the engine, choose the direction you want to drive in and press the drive pedal. Your work is made even easier with the "active stop" function on Valtra Direct tractors: when you lift your foot off the drive pedal, the tractor comes to a stop and remains in place without you having to use the brakes.



When working all you have to do is select the appropriate driving range and let the tractor take care of the optimal efficiency between the engine and transmission. If needed you can also set the engine speed or driving speed, either together or individually.

To make driving as easy as possible, all the main control buttons and switches are located on the Valtra ARM driver's armrest. Regardless of which direction you are driving in, all the controls are at hand. Valtra has taken stepless transmission technology to a new level by combining ease-of-use, power for work and driver comfort without sacrificing powertrain efficiency.

DIRECT FEATURES:

Speed balance forward/reverse

When the switch is in the centre position, the driving speed in forward and reverse is the same. Rotating the switch reduces the speed in the chosen direction by 10 to 90 percent without affecting the driving speed in the other direction.



Automatic traction control – turbine clutch

This knob allows you to use the initial drive pedal movement to adjust the amount of torque. By pressing the drive pedal you can control precisely the amount of torque going to the tyres in order to maximise grip.



Semi-automatic and manual mode driving

In semi-automatic mode the CVT lever allows the driver to adjust the ratio between the transmission and the engine speed. When driving in manual the transmission ratio is selected directly using the CVT lever.



Engine braking

Three positions: enhanced, normal and rolling. The rolling mode is recommended in slippery winter conditions.





AGCO SISU POWER ENGINES

AGCO Sisu Power tractor engines are off-road engines that are designed for use with demanding implements. This can be seen in their sturdy structure, durability, reliability and extremely strong torque.

All N Series tractors are powered by AGCO Sisu Power Common Rail engines that feature a number of refinements for further improving ignition and lowering emissions. These refinements also improve the traditional virtues of AGCO Sisu Power engines, which are now quieter, more fuel efficient and powerful than ever.

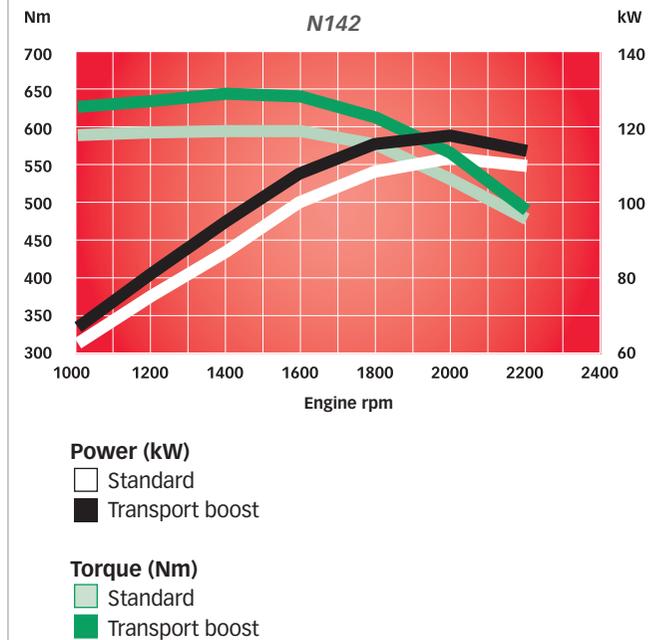
The new generation of Common Rail engines feature third-generation Electronic Engine Management (EEM) developed by AGCO Sisu Power. EEM technology offers many advanced functions, such as low idle (650 rpm) when the handbrake is applied and transport boost, which is available on all models apart from N82 and N92.

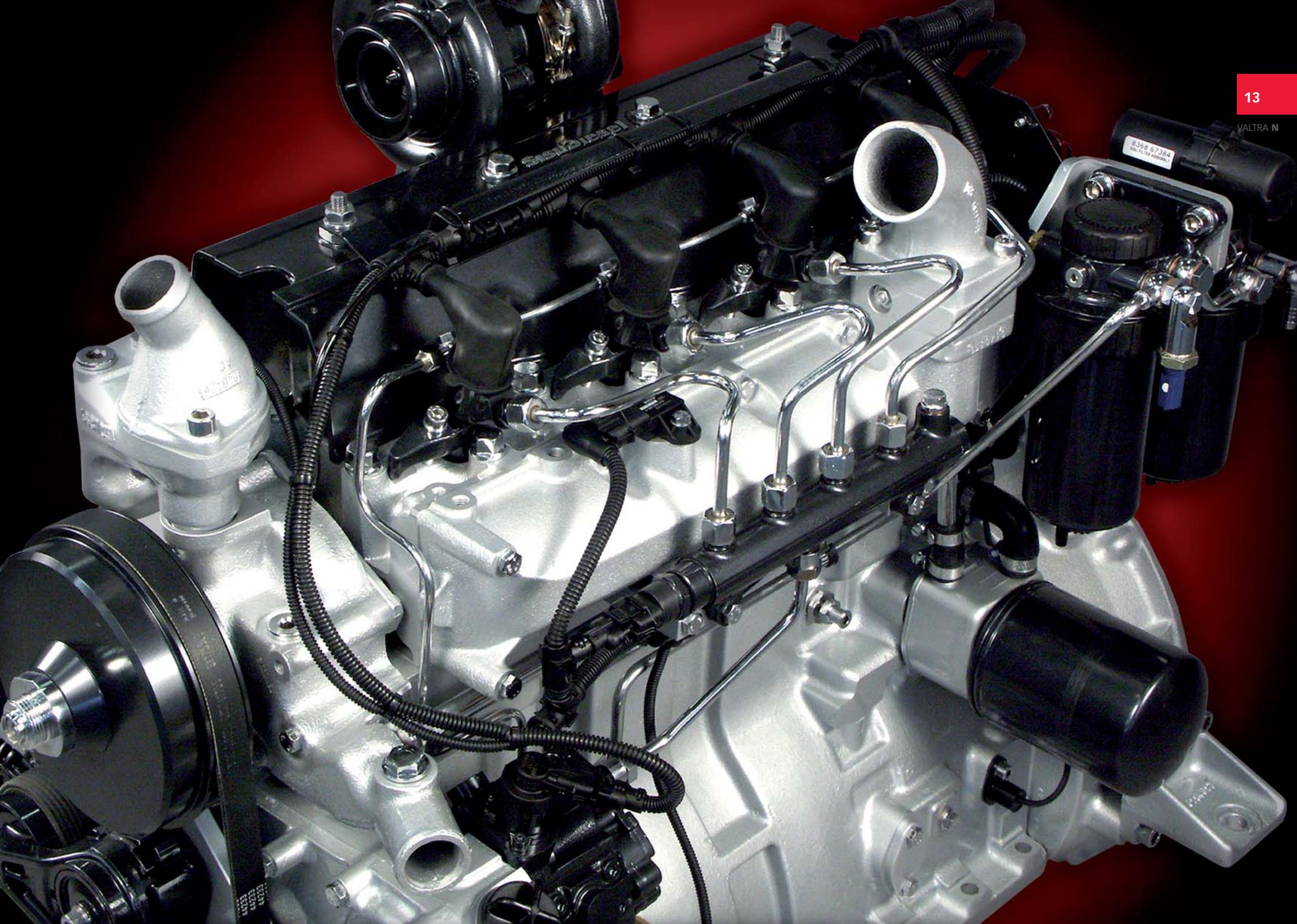
N Series tractors are powered by a 4.4 or 4.9 litre AGCO Sisu Power engine. The 4.9 litre engine (N141, N142) has many of the same components as AGCO Sisu Power's larger 7.4 litre engine. The engine on N142 models features four valves per cylinder, which further improves the flow of gases in the cylinders. The engine on N82 and N92 models features mechanical fuel injection. All Common Rail engines feature a transport boost function for increased power when transporting. The model range also includes the N111e model powered by a fuel efficient EcoPower engine. The wet cylinder liners are centrally supported, which is a unique solution in engines of this size.



- Extremely durable and reliable
- Low maintenance costs - 500-hour oil change intervals
- Low heat load extends lifespan of engine
- Common Rail engines meet EU stage 3A and EPA Tier III emissions standards
- High torque at low revs
- Quiet and pleasant engine sound
- Excellent cold-start properties

ENGINE POWER AND TORQUE





THE TRANSMISSION makes the tractor what it is

All Valtra N Series tractors come with an electrohydraulic forward-reverse shuttle that offers the same power when working in either direction.

HITECH

- Multistep transmission designed and manufactured in Finland
- 3 powershift speeds, 36F+36R gears
- Turbine clutch available as an option (N82, N92, N101, N121)
- Versatile automation, Autotraction
- Ground speed PTO available as an option

VERSU

- Semi-powershift transmission designed and manufactured in-house by Valtra
- 6 speed ranges, 5 powershift speeds
- Speed change with 5 powershift speeds: 128%
- Creeper gear standard
- Versatile automation, up to 10 gears automatically
- New smooth Autotraction control
- Ground speed PTO available as an option

DIRECT

- Stepless transmission (CVT) designed and manufactured in-house by Valtra
- 4 work areas
- 40K Eco and 50K Eco options
- 3 driving modes designed for the needs of different customers
- 2 driving speeds and 2 engine speeds can be stored in the memory
- Ground speed PTO available as an option



DIRECT

Valtra Direct represents an innovative approach to CVTs, designed By Valtra in Finland to be used also in extreme temperatures, hot and cold. Unique features include three driving modes, turbine clutch function, ground speed PTO and hydraulic assistant.

The summing up of speed (CVT) is achieved using a planetary gear set, without the use of ring gears. This keeps the design relatively straightforward and uncomplicated. The combination of four work areas together with the hydrostatic variator gives an impressive eight efficiency peaks. All four work areas start from zero.

Oils for the hydraulics and transmission are separate, which prevents potentially dirty hydraulic oil (e.g. from implements), circulating through the hydrostatic variator. Heat exchange between the two oils also occurs through the transmission housing, allowing the transmission oil to pre-heat the hydraulic oil. A useful feature in colder climates.

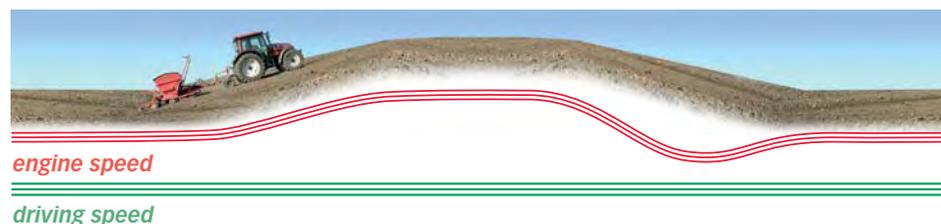
The four individual work areas are each designed to suit the main work types that a CVT tractor is expected to perform with the top speed (40 or 50 km/h) being achieved at 1600 engine rpm. Work Area A delivers a pulling force of up to 200kN, which can be used together with a ground speed PTO driven trailer. Within the four work areas (ABCD) relatively low pressures in the hydrostatic variator are possible. This ensures high transmission efficiency, even at crawling speeds and in hot climates.

Valtra Direct is equipped with the Valtra Powershuttle and efficiencies are identical in both driving directions.

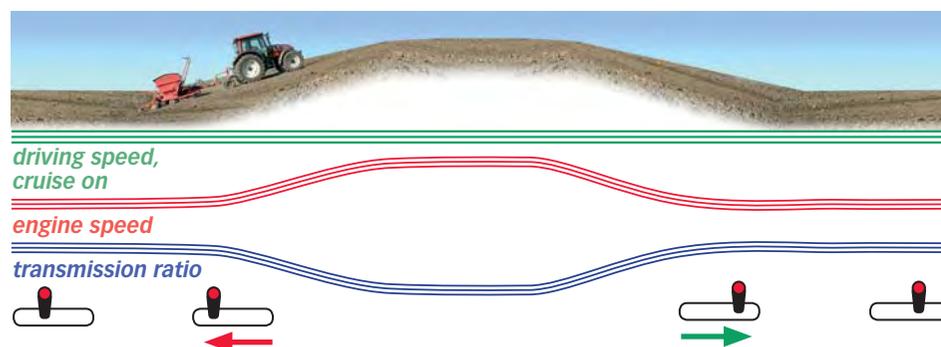
STEPLESS DIRECT

– 3 driving modes, 4 work areas

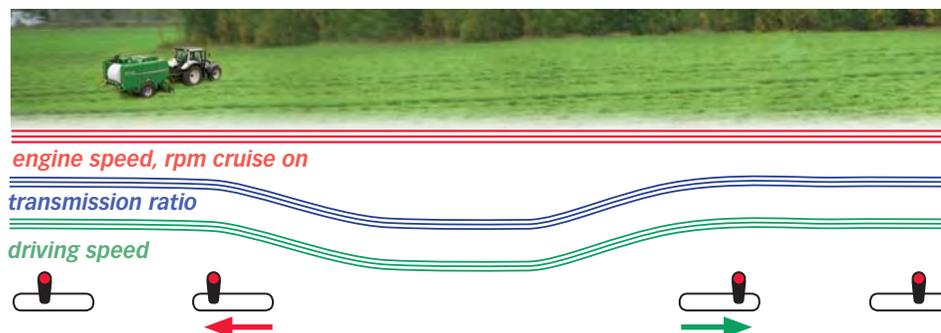
AUTOMATIC MODE



SEMI-AUTOMATIC MODE



MANUAL MODE



Basic principle is simple: using the highest possible transmission ratio to optimise fuel usage. In heavier conditions automatics change the ratio to keep the set speed (engine revs increase).

Drive pedal works as usual, asking for engine revs. CVT-lever adjusts the transmission ratio in relation to engine revs. The more rear the lever is, the more revs are available to reach a certain speed. If speed is fixed by cruise, then moving the lever rearwards lowers the transmission ratio and increases the engine revs at the same time.

Transmission ratio is controlled solely by the CVT-lever. No automatics are applied, but the tractor stops when braking. E.g. in many PTO applications the speed can be controlled easily by the CVT-lever, and if you need to stop you can simply apply the brakes (Valtra Auto Traction feature).

WORK AREA A HEAVY DRAFT / SPECIAL CROP

0-9 km/h

Can be used for the heaviest works, like low speed tillage or special crop harvesting. It is ideal when highest pulling force is needed continuously, or when most precise speed adjusting is needed. Extremely high pulling forces can be reached with PTO driven trailers.

WORK AREA B FIELD WORK

0-18 km/h

Is the universal field work range, which is ideal from seeding and faster tillage up to different forage operations. Easy control of different operations (like harvesting speeds) is essential.

WORK AREA C FAST WORKING

0-27 km/h

Is ideal when transporting on field conditions, for many municipality applications as well as efficiently starting with heavy loads.

WORK AREA D ROAD TRANSPORT

0-50 km/h

Is for road transport use at high speeds.

Note that all the work areas have different top speeds on 40 km/h and 50 km/h transmissions.

VALTRA ARM DRIVER'S ARMREST AND MAIN CONTROLS

Ergonomics and design go hand in hand

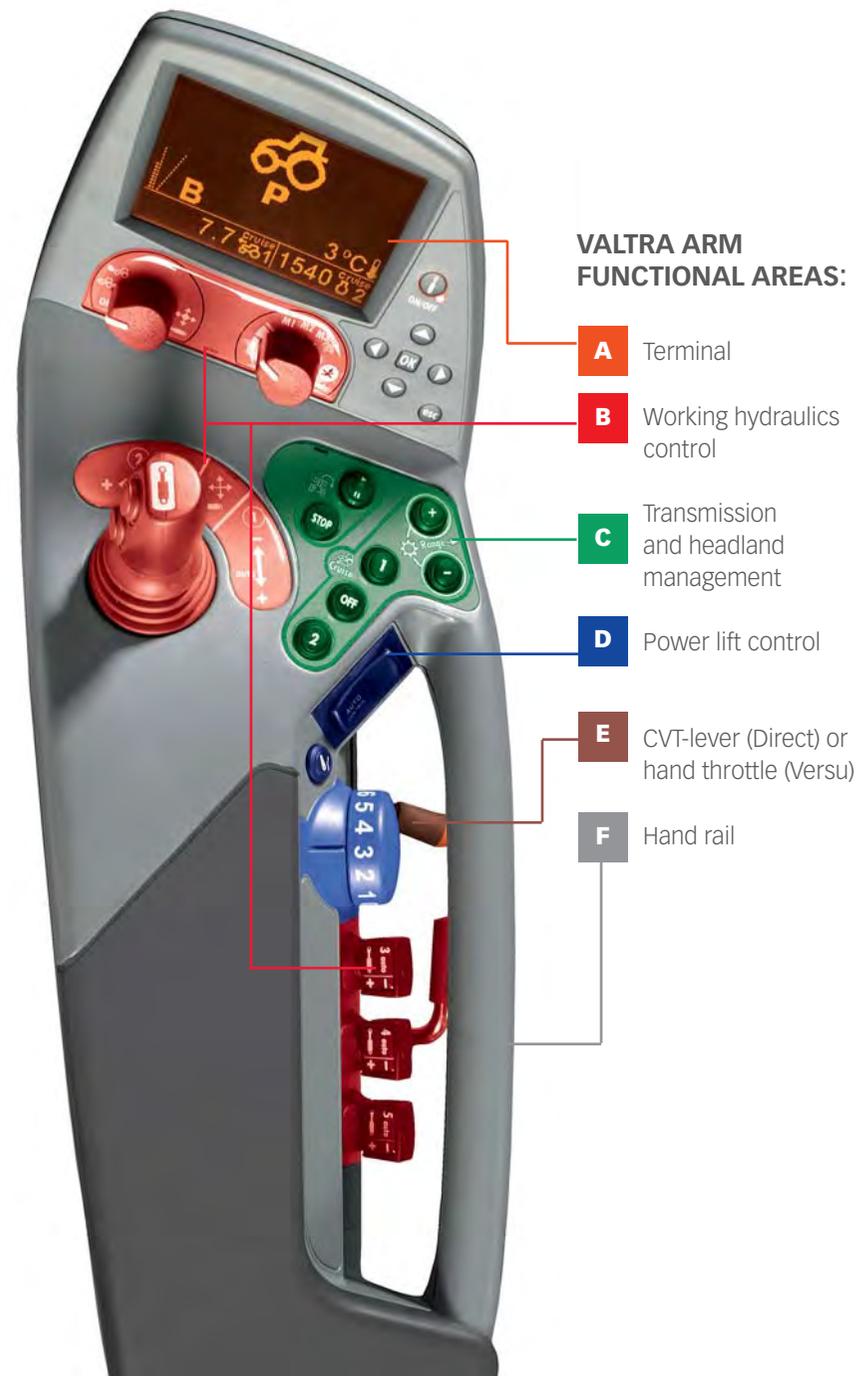
The armrest incorporates a wide range of ergonomic controls, all positioned in a logical manner for convenient use. There is no other similar control system on the market that offers the same level of operator comfort. The unique handrail structure gives the driver a firm and steadying grip when operating the hydraulic paddles, or for raising the armrest when turning the seat through 180° before utilising the TwinTrac reverse drive system. The Valtra armrest is truly impressive, fully integrated with, and complimentary to, the other features of a Valtra tractor.

The handrail compliments the working environment, enhancing ease of control, especially over rough terrain. The armrest is ergonomically designed and fully integrated within a tractor environment that is based on the same principal. At Valtra, we know that "comfort equals productivity". Control operations for the transmission and hydraulics are now more precise and accurate, increasing both productivity and safety. It also offers the driver a comfortable and logical place to rest his or her hand, when it is not needed for control of the tractor.

The armrest has an integral joystick, which can operate either front or rear valves. Push buttons for powershift shifting, or for cruise adjusting and work area shifting

in Direct, are cleverly positioned to be operated by the thumb and third finger, whilst the hand rests comfortably in a natural position on the armrest. Other features of the armrest include the tractor terminal, through which all hydraulic valves can be individually programmed, and a sliding lever which functions as the hand throttle, or as CVT-lever, depending on the tractor model.

The armrest is fully integrated with Valtra's TwinTrac reverse drive system, which is available as an option for all Valtra tractors fitted with the Valtra ARM Armrest. Most of the essential transmission and hydraulic controls are located within the armrest. When the driver's seat is rotated through 180° to the TwinTrac position, this same armrest moves together with the seat. This makes use of TwinTrac even more comfortable, with the same ergonomic controls available in a familiar place, whichever way the seat is facing.



VALTRA ARM FUNCTIONAL AREAS:

- A** Terminal
- B** Working hydraulics control
- C** Transmission and headland management
- D** Power lift control
- E** CVT-lever (Direct) or hand throttle (Versu)
- F** Hand rail

HYDRAULICS

Never before have such powerful hydraulics been available on four-cylinder tractors.



The N Series lets you choose between mechanical or electronically controlled hydraulics. Controlling the hydraulics is straightforward and logical. The hydraulic oil change interval is 2000 hours, which saves time and costs. The N Series also allows for the optional use of bio-oils.

HYDRAULICS ON HITECH MODELS

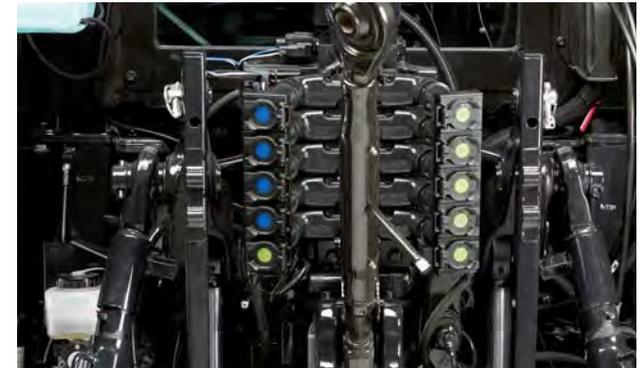
On these models the hydraulics are controlled by switches located on the right-hand panel. The hydraulic output is 73 litres per minute. Four valves are available.

A flow control valve on the first valve is available as an option. Two valves are available for controlling the front loader and front implement. These valves are controlled electronically from the driver's armrest. The optional front linkage is controlled using valve 3.

HYDRAULICS ON VERSU AND DIRECT MODELS

The work hydraulics on Advance, Versu and Direct models are controlled conveniently and efficiently using the joystick and push buttons located on the new ergonomic Valtra ARM armrest. The joystick can also be used to control the front loader or implement. Due to the sensitive joystick controls and electronically controlled hydraulic valves, tractor and implement functions can be adjusted with extreme precision.

The maximum hydraulics output of 115 l/min is standard, with an even higher output of 160 l/min available as an option on both models. The output can be programmed according to flow and timing. Valtra's load-sensing hydraulics meet all the requirements of the latest implements and implement combinations.



WORK HYDRAULICS VALVES:

- Up to 4 fully programmable valves and 2 fixed flow valves at the rear
- 2 or 3 valves available at the front – for front loader and/or front linkage operation
- Power Beyond couplings can be fitted for maximum productivity

The joystick on the driver's armrest is used for controlling valves 1 and 2 of the ancillary hydraulics and may also be used to operate the front loader or front linkage. The linear switches in the armrest are used to control valves 3, 4 and 5. The number of control switches varies according to model.

VALTRA TWINTRAC

Work in both directions.

Valtra's factory-fitted TwinTrac reverse drive system makes working in reverse easy and efficient. The system includes a steering wheel plus clutch, accelerator and brake pedals at the rear of the cab. In the reverse drive position visibility over the implement and your work is excellent. Many tractor-implement combinations are more productive when driven in reverse. The spacious cab and 180° rotating and air-suspended seat also make working in reverse easy. The working direction can be changed without leaving the driver's seat. Since heavy-duty implements are always attached to the rear of tractors, the TwinTrac reverse-drive system offers many additional advantages for working in reverse.



On Versu and Direct models the entire powertrain is controlled from the Valtra ARM driver's armrest. As a result, it no longer matters whether you work forwards or in reverse – all the controls move with you.

VALTRA FOREST, SVC AND SVC360 CABS

Cabs beyond comparison

The Valtra SVC cab has been designed to improve efficiency and safety in work where good visibility is required close to the tractor. Unimpeded visibility is required especially when working in tight places in municipal and farm tasks, as well as in the forest. The new SVC cab further enhances the versatility of your Valtra tractor in a unique new way.



NEW SVC360 CAB – BEST VISIBILITY ON THE MARKET

The new SVC360 cab offers excellent visibility to the right side of the tractor, upwards and upwards to the rear. The SVC360 cab improves working conditions for all tasks requiring excellent visibility. The SVC360 cab is unique on the market, offering unrivalled visibility in all directions. And only Valtra offers the SVC360 cab combined with the TwinTrac reverse drive system. Together these features create unmatched work efficiency – regardless of which direction you are working in.



FORESTRY CAB

Valtra also offers the option of a forestry cab, featuring a protective cage around the roof, super-strong and large polycarbonate roof glass, and an extra window in the rear of the roof. Another window below the rear window further increases downward visibility.

N Series tractors equipped with the forestry cab, TwinTrac reverse-drive system and turbine clutch are an unbeatable combination for forestry contracting work.



- **SVC and SVC360 cab** available on N HiTech models
- **Forest cab** available on all N Series models
- **TwinTrac** available on N101 – N142 (CR engines), also with SVC and forest cab

AGCO PARTS AND VALTRA CUSTOMER SERVICE

Servicing and maintenance

The Valtra N Series is simple and straightforward for servicing and maintenance. The change intervals for the engine, transmission and hydraulics oils are long, and changing oil is easy to do. To ensure reliable and uninterrupted running, only fluids that have been specially designed for the tractor are used. All of these aspects are a benefit to our customers in all regions and climates.

The N Series has been designed to provide easy access to the cooling system, air cleaner, oil and fuel filters. The engine cover lifts vertically to facilitate maintenance. The cooling system can also be opened separately for cleaning.



SERVICE KITS

Valtra offers convenient ready-prepared service kits for 100-hour, 500-hour and 1000-hour services. These kits include all necessary original parts, guaranteeing quality and results. Using original parts helps ensure your safety.



VALTRA POWER PARTNER

Valtra at your service

The Valtra Training Centre at the Suolahti factory in Finland is responsible for the training of our international servicing and spare parts personnel. Centralised training ensures high-quality and consistent servicing, as well as a rapid flow of information from our customers to the entire Valtra organisation.

The Valtra Spare Parts also prepares all servicing, repair and spare parts manuals. Valtra literature, including our user manuals, represents the very best in the tractor industry. Valtra's modern and efficient centralised spare parts system delivers fast and guaranteed parts and service support.

Within Europe parts can be delivered within 24 hours. In many regions our spare parts service operates 24 hours a day. Look for the labels "Valtra Genuine Spare Parts" or "AGCO Parts" on product packaging. The same parts are used for new Valtra tractors. Genuine spare parts ensure the carefree and safe operation of your tractor for as long as you own it. The Valtra Engineering Centre and Tractor Laboratory were opened in 2007 at the Suolahti factory.



OPTIONAL EQUIPMENT

(Restrictions may apply according to model and market – ask your local Valtra dealer for assistance in choosing available options)



FRONT LINKAGE

VALTRA LH-LINK, PIVOTING FRONT LINKAGE

FRONT PTO

ROTATING WARNING LIGHTS

CAB SUSPENSION

SPECIAL TYRES

TWINTRAC

ADDITIONAL WEIGHTS

Front weights, 10 or 12 x 40 kg
Wheel weights rear 34-42", 4 x 80 kg
Linkage weights 650 kg

MUDGUARDS

Front mudguards, 4 WD
Rear mudguards, fitting width 2550 mm

VALVES

Additional valves front and rear
Trailer brake valve
Trailer pneumatic brake system
Power Beyond valves
Front loader readiness
Front loader
Front hydraulics/loader electronic control left/right
Flow control

ELECTRONIC EQUIPMENT

PTO rear engagement/disengagement
Inflight package (Xenon)
1 or 2 rotating warning lights on roof
Electric heated side mirrors
Control stop
Upper driving lights
Implement signal coupling ISO 11786
ISOBUS coupling ISO 11783
ISOBUS/AG2 terminal
AutoGuide 2
Main switch, electric

Indicator stalk on right
Cruise control
Electricity sockets
Lower link arms, telescopic or Ball-Hitch
Hydraulic levelling
Hydraulic top hitch, standard or Ball-Hitch
Automatic side limiter W or LH

CAB

TwinTrac
Air conditioning, manual or automatic
Holder for implement monitor
Air-suspended seat
Valtra Evolution seat
Lower heater
Forest cab, polycarbonate side glass
Forest cab, tempered side glass
Roof hatch
Seatbelt
First aid kit
Dry powder extinguisher

TECHNICAL INFORMATION

- standard
- optional
- (X) Transport boost on power mode only
- (XX) Turbine clutch function in Direct

Model	HITECH						VERSU		DIRECT	
	N82	N92	N101	N111e	N121	N141	N122	N142	N122	N142
4 cyl./4.4 l engine	●	●	●	●	●		●		●	
4 cyl./4.9 l engine						●		●		●
EcoPower engine				●						
Common Rail engine			●	●	●	●	●	●	●	●
Transport boost			●	● (X)	●	●	●	●	●	●
Continuously Variable Transmission									●	●
30 + 30R transmission with 5 PS and control from Valtra ARM							●	●		
24 + 24R or 36 + 36R transmission with 3 PS (delta powershift)	●	●	●	●	●	●				
HiTrol turbine clutch	○	○	○		○				● (XX)	● (XX)
Robotised shifting between ranges							●	●		
Load Sensing hydraulics							●	●	●	●
Valtra ARM							●	●	●	●
Electronic forward/reverse shuttle	●	●	●	●	●	●	●	●	●	●
Front axle suspension			○	○	○	○	○	○	○	○
Cab suspension			○	○	○	○	○	○	○	○
TwinTrac reverse drive system			○	○	○	○	○	○	○	○

N121HiTech (36+36R) And N122 Versu speeds with tyres 650/65R38, 40 km/h versions

												N122 Versu		1	2	3	4	5			
N121 HiTech			I	II	III	N121 HiTech			I	II	III	H1	9,3	11,5	14,3	LA	0,6	0,7	0,9	1,1	1,3
LL1	0,6	0,7	0,9	M1	3,0	3,7	4,6	H1	9,3	11,5	14,3	H1	9,3	11,5	14,3	LB	1,1	1,4	1,7	2,2	2,6
LL2	0,9	1,1	1,3	M2	4,3	5,3	6,5	H2	13,3	16,4	20,4	H2	13,3	16,4	20,4	A	2,9	3,6	4,3	5,4	6,5
LL3	1,2	1,5	1,8	M3	6,0	7,4	9,2	H3	18,7	23,0	28,7	H3	18,7	23,0	28,7	B	5,7	7,1	8,6	10,8	13,0
LL4	1,7	2,1	2,6	M4	8,5	10,4	13,0	H4	26,4	32,5	40,5	H4	26,4	32,5	40,5	C	8,9	11,2	13,4	16,9	20,3
												D	17,7	22,2	26,7	33,6	40,4				

Tractors pictured in this brochure may be equipped with optional or additional equipment. Specification may change, all rights reserved.

TECHNICAL INFORMATION

Motor, transmission, brakes, weights, measures

Model	N82 Hitech	N92 Hitech	N101 Hitech	N111e Hitech		N121 Hitech	N141 Hitech
Engine							
Type, Agco SisuPower	44DTA		44CTA	44CWA			49CWA
Number of cylinders / capacity, l	4/4,4						4/4,9
Power kW / hp / r/min (ISO 14396)				ECO	POWER		
Rated power kW/hp/rmin	64,5/88/2270	75/101/2270	81 /110/2200	91/124/1800	90/122/2200	98/133/2200	110/150/2200
Max power	64,5/88/2270	75/101/2270	85/116/2000	91/124/1800	94/128/2000	101/137/2000	113/154/2200
Max power with transport boost			89/121/2000		98/133/2000	106/144/2000	118/160/2000
Max torque Nm/rmin	360/1400	405/1400	460/1500	570/1200	500/1500	540/1500	580/1500
Max torque with transport boost			500/1500		540/1500	560/1500	620/1500
PTO, options							
540/1000 (with engine revs)	1874/2000			-		1874/2000	
540/540E	1874/1539			-		1874/1539	
540E/1000	1539/2000						
Ground speed	Optional						
Brakes	Hydraulic boosted (multidisc) brakes						
Parking brakes	Integrated to hydraulic Power shuttle						
Weights and measures							
Tyres	540/65R34 + 440/65R24		520/70R38 + 420/70R28	580/70R38 + 480/70R28			
Wheelbase, mm	2535		2565				
Length, mm	4414		4534	4534			
Width, mm	2277		2277	2338			
Height, mm	2800		2825	2875			
Turning radius from, m	4,5		4,7	4,7			
Clearance under rear axle, mm	460		500	525			
Weight full tanks, kg	4700		4860	4950			
Fuel tanks, l	230						

TECHNICAL INFORMATION

Hydraulic and transmission

Model	N82 Hitech	N92 Hitech	N101 Hitech	N111e Hitech	N121 Hitech	N141 Hitech
Rear linkage	Autocontrol B, drive balance control					
Lift capacity at link ends, kg	4000			5800		7700
Optional, kg	5800			7700		-
Work hydraulics	Open system, mechanical controls					
Max pump output, l/min	73		73 or 90	76 or 90		73 or 90
Hydraulic oils	Joined with transmission, 40 litres available for implements					
Hydraulic valves rear	Standard 2 valves / optional 3 rd and 4 th valves					
Hydraulic valves front	Optional 2 or 3 electronic control for front loader or front linkage					
Front linkage	Optional, lift power 2,8 t		Optional, lift power 3,5 t			
Transmission						
Number of gears	36F + 36R (0.6-40 km/h)					
50 km/h or 40 km/h, EcoSpeed	-			Optional		
Range change	Mechanical					
Clutch	Wet multidisc clutch					
Power shuttle	Electrohydraulic computer controlled					
Powershift	Three step computer controlled (Delta Powershift)					
4 WD	Manual and automatic operation (with brakes and differential lock)					
Differential lock, rear	Five step computer controlled (with linkage)					
Differential lock, front	Automatic		Automatic or hydraulic (HiLock)			HiLock
Front axle suspension	N/A		Optional			

TECHNICAL INFORMATION

Motor, transmission, brakes, weights, measures

Model	N122 Versu / N122 Direct	N142 Versu / N142 Direct
Engine		
Type, Agco SisuPower	44CWA	49CWA-4V
Number of cylinders / capacity, l	4/4,4	4/4,9
Power kW / hp / r/min (ISO 14396)		
Rated power kW/hp/rmin	98/133/2200	110/150/2200
Max power	101/137/2000	113/154/2200
Max power with transport boost	106/144/2000	118/160/2000
Max torque Nm/rmin	560/1500	600/1500
Max torque with transport boost	600/1500	650/1500
PTO, options		
540/1000 (with engine revs)		1874/2000
540/540E		1874/1539
540E/1000		1539/2000
Ground speed		optional
Brakes		Hydraulic boosted (multidisc) brakes
Parking brakes		Integrated to hydraulic Power shuttle
Weights and measures		
Tyres		580/70R38 + 480/70R28
Wheelbase, mm		2565
Length, mm		4536
Width, mm		2538
Height, mm		2945
Turning radius from, m		4,75
Clearance under rear axle, mm		550
Weight full tanks, kg		5350
Fuel tanks, l		230

TECHNICAL INFORMATION

Hydraulic and transmission

Model	N122 Versu	N142 Versu	N122 Direct	N142 Direct
Rear linkage	Autocontrol D, drive balance control, slip control			
Lift capacity at link ends, kg	8100			
Work hydraulics	Load sensing, electronic control			
Max pump output, l/min	115 (optional 160)			
Hydraulic oils	Separate, 47 litres available for implements			
Hydraulic valves rear	Standard 2 fully adjustable valves and 1 fixed low flow valve / Optional 3rd & 4th valves, extra fixed low flow valve and Power Beyond			
Hydraulic valves front	Optional 2 or 3 electronic control			
Front linkage	Optional, lift power 3,5 t			
Transmission				
Number of gears	30F+30R		Stepless (CVT), same speed forward as reverse	
Speeds	40 km/h, 50 km/h or 40 km/h, EcoSpeed		0-40 km/h or 0-50 km/h, both with EcoSpeed	
Range change	Electrohydraulic control			
Clutch	Wet multidisc clutch			
Power shuttle	Electrohydraulic computer controlled			
Powershift	Five step computer controlled		Stepless (CVT) transmission	
4 WD	Manual and automatic operation (with brakes and differential lock)			
Differential lock, rear	Manual and automatic operation (with linkage)			
Differential lock, front	Hydraulic (HiLock)			
Front axles	Standard, HeavyDuty or suspension			

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VAL 1801



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