VALTRA
Power Partner

NEW
N Series
101–150 hp

Valtra N

New 4 cylinder Valtra N combines the best Valtra

A NEW FOUR-CYLINDER TRACTOR

All the main modules of the N Series are manufactured or designed by Valtra: the engine, chassis, transmission, rear axle, hydraulics, cab and panels. Customers can choose from a range of powertrain and hydraulics options: from the base model to the very top model, featuring air-suspended front axle and cab, common rail engine, and the most powerful hydraulics in its class.

VALTRA N Series

	1 Classic	2 HiTech				3 Advance	
	N91 N101 N111	N91 N101 N111	N111e	N121	N141	N121A	N141A
4,4 Liter Engine	●	●	●	●		●	
4,9 Liter Engine					●		●
EcoPower Engine			●				
Common Rail Engine				●	●	●	●
HiTrol Turbine Clutch		○		○		○	
Robotized Range Gear, M/H						●	●
Load Sensing Hydraulics						●	●
New Armrest						●	●
Front Axle Suspension	○	○	○	○	○	○	○
Cabin Suspension						○	○
TwinTrac				○	○	○	○

● standard ○ option

POWERFUL ENGINES

N Series tractors are powered by four-cylinder SisuDiesel engines. Torque has been increased by around 10 percent across the range compared to corresponding engines in previous models. The two most powerful models now feature Common Rail fuel injection and transport boost for extra power when needed. The range also features the efficient and economical N111e EcoPower model.

Model	Max power, kW/hv*	Number of cylinders	Max torque Nm/r/min
N91	75/101	4, Turbo	405/1400
N101	82/110	4, Turbo	460/1400
N111	91/122	4, Turbo/Intercooler	500/1300
N111e	87/116	4, Turbo/Intercooler	580/1200
N121	99/133	4, Turbo/Intercooler	540/1500
N121A	99/133	4, Turbo/Intercooler	540/1500
	107/144**	4, Turbo/Intercooler	560/1500
N141	112/150	4, Turbo/Intercooler	580/1500
N141A	112/150	4, Turbo/Intercooler	580/1500
	119/160**	4, Turbo/Intercooler	620/1500

***ISO 14396 ** with transport boost**

COMMON RAIL TECHNOLOGY AND INCREASED ENGINE CAPACITY

Innovations in the N Series include the new Citius Series 44CWA and 49CWA Common Rail engines that meet even forthcoming emission legislation. The 49CWA model features a lengthened stroke, increasing the engine capacity to almost five litres. Combined with the advantages of Common Rail, this engine surpasses most six-cylinder engines in the same power class.

Thanks to Common Rail technology, the engine idle is smooth and pleasant. The engine revs steadily and reacts quickly to changes in load. The maximum power of both Common Rail engines is reached already at 2000 rpm, transport boost in gears H2, H3 and H4 arises the power to 144 hp in the N121 model and to 160 hp in the N141 model. A new feature is low idle for the Common Rail models: when the handbrake is applied, the engine speed drops to a fuel-saving 650 rpm.

VALTRA CUSTOM BUILT TRACTORS

highlights in this class of tractor

New structural design

- Sturdy new chassis made of cast iron sections
- Engine located behind front axle
- Compact nose
- Small turning circle
- Excellent weight distribution
- Ideal for front-loader work
- New modern cab design
- Steering wheel for TwinTrac reverse drive controls centrally located
- Several mudguard options
  -adjustable width
  -special thin mudguards for forest work
- Engine cover opens fully
- Large fuel tank
- Low maintenance costs

IMPROVED HYDRAULICS CONTROL INCREASES PRODUCTIVITY

The hydraulics offer output of 73 l/min, increasing to a maximum of 115 l/min on Advance models. The timing and flow of the Advance hydraulics can be programmed. The 73 l/min hydraulics are controlled by mechanical valves, while the 115 l/min hydraulics are fitted with a variable displacement piston pump and employ electronically controlled valves. The load-sensing hydraulics on Advance models meets all the requirements of the latest implements. In addition, the 100% electronic control of the work hydraulics is unique in this class of tractors.

The N Series Advance models have a completely new armrest with a large screen and convenient controls, making it even easier to control the hydraulics. The new system enables joystick use of the front loaders or the front linkage.

Advance models also feature two on/off valves as standard. These can be used, for example, to adjust the hydraulic levelling, hydraulic top link or out jutting pick-up hitch. The combination of joysticks and electronically controlled valves allow the operations of the tractor and implement to be precisely adjusted.

VERSATILE HYDRAULICS

The work hydraulics on the N Series feature 4 standard valves and 2 optional auxiliary valves. The valves use only the exact amount of fluid as need, leaving the remaining fluid to be used by other valves or the linkage. This allows for simultaneous operations as required by modern implements. All valves feature a floating position, which allows implements that follow the ground to perform ideally.

Safety and comfort are further enhanced by the control button for the hydraulics that is located in the armrest:

1. **Flow adjusted to low output, testing**
2. **Flow adjusted to average output**
3. **Flow adjusted to maximum output**
4. **Adjustment position, three bin locations**

NEW CAB – BETTER VISIBILITY

- New cab design
- Lower noise levels
- Larger doors
- One-piece glass on the doors - better visibility
- New floor construction
- New low-frequency driver's seat (option)
- New armrest (Advance models) - joystick control of many operations
- Additional seat next to driver (option)
- New air-intake filter construction
- Automatic air-conditioning optional
- New instrument lighting
- Curve of mudguards same as tyres
- Forest cab (option)

VALTRA FRONT LOADERS

Thanks to their new structural design, N Series tractors are extremely stable and ideal for front-loader work.

Valtra front loader	Max. weight of tractor, kg	Valtra model
45**	4500	N91 and N101
50*	5200	N91 - N141
55**	6000	N91 - N141
65**	6000	N91 - N141

*** non parallel linked loaders ** parallel linked loaders**

TRANSMISSIONS AND HYDRAULICS OPTIONS

Choose between the transmission alternatives, where the HiShift push button control is standard equipment, or the legendary HiTech transmission. The top of the line is the Advance model with computer controlled forward-reverse shuttle and electronically managed hydraulics.

1 CLASSIC

Mechanical transmission and hydraulics control

- 24+24R gears/Powershift
- 36+36R with creeping gears
- mechanical forward / reverse-drive shuttle
- mechanical hydraulics control

2 HITECH

Electronic transmission control and mechanical hydraulics control

- 24+24R gears/Powershift
- 36+36R with creeping gears
- electronic forward / reverse-drive shuttle
- mechanical hydraulics control

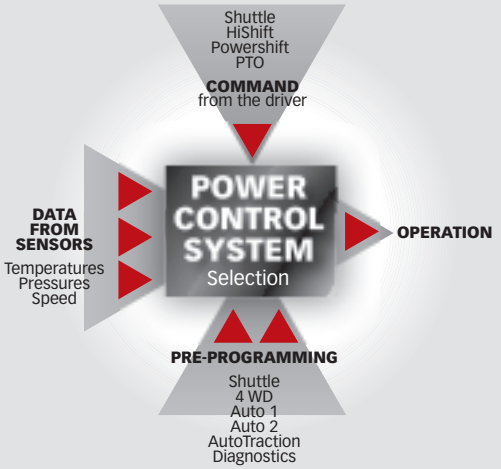
3 ADVANCE

Electronic transmission and hydraulics control

- 24+24R gears/Powershift
- 36+36R with creeping gears
- electronic forward / reverse-drive shuttle
- automated shifting in M/H gears
- electronic hydraulics control
- adjustable hydraulics (oil flow and timing)
- joystick in the armrest for controlling external hydraulics

2&3 POWER CONTROL

On HiTech and Advance models, Valtra's unique Power Control system selects the best engagement of the forward-reverse shuttle, four-wheel-drive, HiShift push button clutch, Powershift gears and PTO every time whatever the situation.



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Valtra N – Technical specifications

	1&2	1&2	1&2	2	2	3	2	3
Model	**N91**	**N101**	**N111**	**N111e**	**N121**	**N121 Adv.**	**N141**	**N141 Adv.**
Engine	SisuDiesel	SisuDiesel	SisuDiesel	SisuDiesel	SisuDiesel	SisuDiesel	SisuDiesel	SisuDiesel
Type	44DT	44DTA	44DTA	44EWA	44 CWA	44 CWA	49CWA	49CWA
Displacement	4,4	4,4	4,4	4,4	4,4	4,4	4,9	4,9
Max power, hp/rpm (ISO 14396)	101/2200	110/2200	122/2200	116/1800	133/2200	133/2200	150/2200	150/2200
With transport boost, hp (ISO 14396)					144	144	160	160
Max power, hp/rpm (ECE-R24)	96/2200	104/2200	115/2200	110/1800	126/2200	126/2200	142/2200	142/2200
Max. torque, Nm/rpm	405/1400	460/1400	500/1300	580/1200	540/1500	540/560/1500	580/1500	580/620/1500
Injection type	mechanical	mechanical	mechanical	electric	CR*	CR*	CR*	CR*
Transmission								
Clutch type	dry/wet	dry/wet	dry/wet	wet	wet	wet	wet	wet
Shuttle	synch./electric	synch./electric	synch./eletric	electric	electric	eletric	eletric	eletric
Number of speeds std.	24+24R	24+24R	24+24R	36+36R	24+24R	24+24R	24+24R	24+24R
With creeper	36+36R	36+36R	36+36R	36+36R	36+36R	36+36R	36+36R	36+36R
50 km/h transmission	-	-	-	-	option	option	option	option
PTO								
540/1000, rpm	standard	standard	standard	standard	standard	standard	standard	standard
540/540E, rpm	option	option	option	option	option	option	option	option
540E/1000, rpm	option	option	option	option	option	option	option	option
Ground speed	option	option	option	option	option	option	option	option
Brakes								
Wet multiplate	yes	yes	yes	yes	yes	yes	yes	yes
Parking brake	mech./hydr.	mech./hydr.	mech./hydr.	hydr.	hydr.	hydr.	hydr.	hydr.
Hydraulics								
Type open/closed, LS (Load sensing)	open	open	open	open	open	LS	open	LS
Max. delivery, l/min	73	73	73	76	73	115	73	115
Max. pressure, bar	200	200	200	200	200	200	200	200
Max. lifting capacity, kg	5600 (7700)	5600 (7700)	5600 (7700)	5600 (7700)	7700	7700	7700	7700
Dimensions and Weights								
Wheelbase, mm	2565	2565	2565	2565	2565	2565	2565	2565
Height, mm	2749	2749	2749	2749	2800	2941	2800	2941
Weight, kg	4850	4850	4850	4850	4950	4950	4950	4950
Standard tyres, front	14.9 R24	14.9 R24	14.9 R24	14.9 R24	14.9 R28	16.9 R28	14.9 R28	16.9 R28
Standard tyres, rear	18.4R34	18.4R34	18.4R34	18.4R34	18.4 R38	20.8 R38	18.4 R38	20.8 R38
Fuel tank, l	220	220	220	220	220	220	220	220

1&2 **Model available with Classic or HiTech** **2** **Model available with HiTech** **3** **Model available with Advance**

* CR = Common rail engine

Tractors shown here may be equipped with optional equipment. Specifications may change, all rights reserved.

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