



NEW HOLLAND TNN-A, TNV-A

Models TN70NA, TN75NA, TN95NA, TN60VA,
TN70VA, TN75VA and TN95VA



Narrow width, broad specification.

New Holland TNN-A and TNV-A tractors continue to set the highest standards in narrow orchard and specialist vineyard tractor design. Stylish second generation TNN-A and TNV-A models now include the 92hp four-cylinder TN95NA and TN95VA for even the most demanding of applications. All models are powered by Tier II compliant engines; even quieter and more efficient than previous designs, these advanced power units offer greater reserves of power and further reductions in operating costs. Sharing their modular build with other models in the proven New Holland TN family, TNN-A and TNV-A tractors can be specified to meet the most demanding business needs. Advanced features and exceptional power to weight ratios come as standard.



Styled to protect your crops
Small tractors working between rows of high value vine and fruit crops have to offer more than just compact dimensions. New Holland has styled Series TNV-A and TNN-A so these narrow and compact tractors can ease through restricted rows with minimum impact.



Styled for visibility

Series TNV-A vineyard and TNN-A narrow orchard tractors are designed so the operator benefits from a clear, uninterrupted view to the front, side and rear of the tractor. Good visibility brings productivity benefits and also reduces the risk of damaging valuable trees and vines.



Clean, smooth and economical power

The Tier II compliant three- and four -cylinder engines powering TNN-A and TNV-A tractors benefit from advanced fuel management to reduce emissions without compromising performance or fuel efficiency. Rugged and dependable, these engines are designed to operate with low maintenance demands in all climate extremes.



Part of a proven family

New Holland Series TNN-A and TNV-A tractors are members of the world renowned and award winning TN tractor family. Spanning the wide orchard TNF-A fruit tractor models through to the general purpose TND-A and TNS-A versions, Series TN-A has a tractor for every application. Proven, dependable and economical, these stylish small machines are the first choice for owners and operators.



The right tractor to match individual needs.

By building its TNN-A and TNV-A tractors on a modular platform, New Holland is able to offer a wide choice of specification without having to resort to special builds. With New Holland, choice comes as standard.

Pressurised Blue Cab

All models can be specified with a new pressurised Blue Cab. Both standard and Blue Cab versions offer best in class levels of noise suppression and class leading comfort.



More than just clean tight turns

TNN-A tractors are fitted with the unique New Holland SuperSteer™ front drive axle. A TNN-A tractor offers the best manoeuvrability of any tractor in its class. As standard, TNN-A tractors also feature the award winning New Holland automatic 4WD system. This advanced system improves stability and provides added control.



Power and control

A traditional mechanical or advanced Electronic Draft Control system can be specified. As standard, a separate power steering pump and powerful 49.2 litre/min hydraulic pump are fitted. For demanding applications, a 66.2 litre/min MegaFlow™ hydraulic pump is available. To maximise versatility, up to five remote valves, with four position settings can be fitted. Two valves can be operated via a single joystick. Two mid-mount outlets are also available.

A specification to suit specific needs

Specification choice is a key New Holland advantage. Series TNV-A 59, 72, 76 and 92hp(CV) vineyard and TNN-A 72, 76 and 92hp(CV) narrow orchard tractors can be specified with or without a cab and with a choice of 2WD or 4WD. On TNN-A SuperSteer tractors, New Holland's automatic four-wheel drive system is available. This is advanced safety feature provides added stability and control when working in extreme terrain. A wide transmission choice, offering 16+16 through to 44+16 speeds is on offer. There is also a choice of 540, 540E, 1000 and ground speed PTO, with servo assisted engagement as standard.

Clean, reliable and economical

Powered by a choice of 2930cm³ three-cylinder or 3908cm³ four-cylinder Tier II compliant engines, TNN-A and TNV-A tractors combine exceptional performance with low whole life operating costs. Depending on model, the engines are naturally aspirated, lightly or fully turbocharged.

Specialist tractor dimensions, big tractor comfort.

Few specialist tractors can match TNN-A and TNV-A for operator comfort. Despite its compact dimensions, the cab offers ample space and outstanding all-round visibility. The fully suspended seat is adjustable so that operators of every height and weight can settle down to work in comfort. To further reduce noise, heat and vibration, the cab is mounted on rubber isolation blocks and the floor lined with an acoustic shield mat.



Pressure sealed Blue Cab for tough conditions

Blue Cab equipped tractors benefit from a pressurised cab sealing system. Only air that has been passed through the cab filtration system, which consists of large anti-pollen and air re-circulation filters, enters the cab. In conjunction with the high performance air conditioning, the Blue Cab ensures the operator breathes clean filtered air that is at the desired temperature to suit working conditions.

Take in your surroundings

From the quality of the in-cab mouldings through to the high standard of fit and finish, the cab of all TNN-A and TNV-A models sets the small tractor benchmark. The comprehensive instrument panel provides full information on essential operating functions. With New Holland, style and substance go hand in hand.





Visibility to help productivity

A combination of narrow cab pillars and large, fully glazed doors ensures the operator can see all round the tractor when working. This excellent visibility also helps ensure the cab feels large and airy, a vital point when day long operator comfort is a priority.



Air temperature to suit

Models specified with air conditioning have a full range of temperature adjustments to suit conditions and personal preference. The ventilation outlets can also direct incoming air to where it is required, with a variable speed fan providing full airflow adjustment.



World beating ergonomics

New Holland has world beating expertise in designing the best cab layouts. With TNN-A and TNV-A, all the main controls are positioned just where they are needed. Of equal importance, repetitive tasks are made easier as related controls are logically grouped close together. This helps reduce fatigue and increases ease of operation.

Choice without complexity.

TNN-A and TNV-A tractors are offered with a choice of three main transmissions, each having a creep speed option:

- Dual Command™ transmission. A 32 forward 16 reverse speed (44+16 with creep) electro-hydraulic transmission with a gear split under load and modulated forward / reverse shuttle.
- Split Command™ transmission. Based upon Dual Command, but with a clutched gear splitter and shuttle.
This transmission not offered in UK/ROI.
- Shuttle Command™ transmission. A rugged synchromesh 16 forward and 16 reverse speed (28+16 with creep) transmission with an easy to use clutched forward / reverse shuttle.

All transmission choices provide four full synchromesh gears in each working range with a speed overlap. This reduces the need to shift between ranges to find the correct working speed. Modular packages enable New Holland to offer creep speeds without the need for special builds or complex internal gear clusters.



Fully locking differentials

Both the front and rear axle differentials can be fully locked to prevent traction being lost to wheel spin. This helps ensure maximum traction is available to increase productivity on steeply sloping land. Both front and rear differential locks are engaged simultaneously via a switch on right hand control console. Engagement is electro-hydraulic, with modulated control.



Dual Command™ transmission

The Dual Command™ transmission enables the operator to decrease the forward speed in any gear by 20%. This also increases torque at the wheels by 22%. This single ratio change can be made under full load without using the clutch. An electro-hydraulic Powershuttle is fitted as standard and enables controlled changes in direction to be made, again without using the clutch. It is also possible to programme how fast the gear splitter and Powershuttle functions operate.



Shuttle Command™ and Split Command™ transmissions

Shuttle Command™ transmissions offer matched forward and reverse speeds with a dedicated, left hand operated synchromesh shuttle. Split Command™ transmission (not offered in UK/ROI) adds a reduction in each forward gear. This provides a 20% decrease in forward speed, and increases flexibility in changing working conditions.

Creep speed option

Creep speeds as low as 160 metres/hour are available, enabling the tractor to carry out a wide range of precision operations. These transmissions are so flexible that this same low speed can be matched to a ratio offering a 40kph transport speed.

The right speed for the job

The key to maximising performance is having the right gear speed for the job. There is a generous overlap between the gears within a working range, enabling the optimum ratio to be selected.

Choose how you put power to work.



TNN-A and TNV-A tractors benefit from a choice of PTO and hydraulics specification.

Efficiency is not compromised either, power to the PTO coming direct from a flywheel mounted clutch. To ensure power can be easily matched to the implement, the PTO clutch lever is servo assisted for ease of operation. A choice of mechanical or electronic draft control is offered. Hydraulic pump capacity can also be increased to suit demanding applications.

New Holland builds tractors to match your demands.



Choice of speeds with an award winning control

Up to four PTO speeds, 540, 540E, 1000 and ground speed, can be specified. Each speed is selected using an external lever.

PTO engagement is via the established and award winning New Holland servo assisted engagement lever. This reduces the operating pressure required to engage the clutch, making it a simple task to manually modulate power fed to the implement.



High capacity hydraulic pump

A powerful 49.2 litre/min hydraulic pump is standard on TNN-A and TNV-A tractors specified with Synchro Command™ and Split Command™* transmissions. If additional hydraulic capacity is required, the 62.2 litre/min MegaFlow pump, fitted as standard to Dual Command™ tractors, can be specified. For maximum versatility, up to four remote valves are available, each offering four position settings. Mid-mount outlets are also available. All configurations are available with a joystick control.

* Not offered in UK/ROI.



Advanced Electronic Draft Control for optimum performance

Easy to operate and of proven dependability, EDC is extremely easy to operate. The key advantage of the system is that it is easy to set up to suit different applications. This includes simple controls to limit an implement's working depth, lift height and lowering speed. Fender mounted lift and lower controls are standard.



Mechanical hydraulics with Lift-O-Matic™ system

Where specified, the mechanical hydraulics feature proven Flexion Bar™ lower link draft sensing. This offers excellent weight transfer performance and easily adjusted sensitivity. The Lift-O-Matic™ system enables an implement to be raised and lowered to its previous setting using a single control.



Rear linkage to suit your application

The rear linkage is fully adjustable. Two positions enable lift out height to be altered and a third slotted position provides limited lower link float. Adjustable to match Cat I or Cat II implements, the lower links can also be specified with a choice of fixed or quick hitch link ends.

Advanced features for maximum productivity.

TNN-A and TNV-A tractors share the same engine, transmission, hydraulics, cab and rear axle modules. TNV-A vineyard models have a choice of two-wheel drive or a driven front axle with a 55 degree turn angle. The turn radius on four-wheel drive, 3-cylinder models is as little as 3.3m. TNN-A narrow orchard four-wheel drive tractors feature the acclaimed New Holland SuperSteer™ front axle. As the front wheels turn, the front axle pivots to increase the effective steering angle to 71 degrees for unbeatable manoeuvrability. Without brakes, a TNN-A tractor is able to turn within 3.15m. An added feature of TNN-A models is the award winning New Holland automatic four-wheel drive system. This engages front axle drive automatically in difficult terrain.



Tyres to match your specific needs

TYRES	TNN-A			TNV-A		
	20"	24"	28"	20"	24"	28"
9.5R						986
11.2R					1074	1059
12.4R		1225	1253			1175
13.6R		1284	1269			1185
14.9R		1378	1391			
14.9LR				1272		
16.9R						
360/70R		1300	1313	1228	1216	1214
380/70R	1363	1338				
420/70R		1427	1434			

* Measured from the outside edge of the rear wheels.
Table lists four-wheel drive tyre options.
Other tyre sizes may be available.

SuperSteer™ front axle

The TNN-A's SuperSteer™ front axle delivers truly outstanding agility. As the front wheels turn, the SuperSteer™ front axle articulates, increasing the front wheels turn angle, even at narrow track settings. This results in TNN-A models turning into work faster and needing less room to manoeuvre. The front wheels do not scrub, which helps reduce damage during tight manoeuvres on sensitive surfaces.



Automatic four-wheel drive

TNN-A models feature fully automatic four-wheel drive management. Front axle drive is automatically engaged, if rear wheel slip exceeds 5% relative to the front wheels. Four-wheel drive is also activated on slopes of 10 degrees and when both brake pedals are pressed together in transport. The system provides added control and security.

The system automatically disengages four-wheel drive when forward speed exceeds 24kph and/or the steering angle exceeds 50 degrees. In most applications, drive is transmitted via the rear wheels only to reduce fuel consumption and tyre wear. A system override is standard.

Front axle brakes

Oil immersed front axle brakes can be specified. Under braking, drive is automatically transmitted to the front drive axle for added stability. Few tractors in this category can be specified to stop as effectively, both in transport or in difficult terrain.

Advanced features if you need them

The mechanical or electro-hydraulically engaged rear diff lock helps ensure that maximum traction is always available. On 4WD models, rear diff locks are linked to the front axle locking differentials providing true 100% four wheel drive, helping to ensure that traction is maintained.



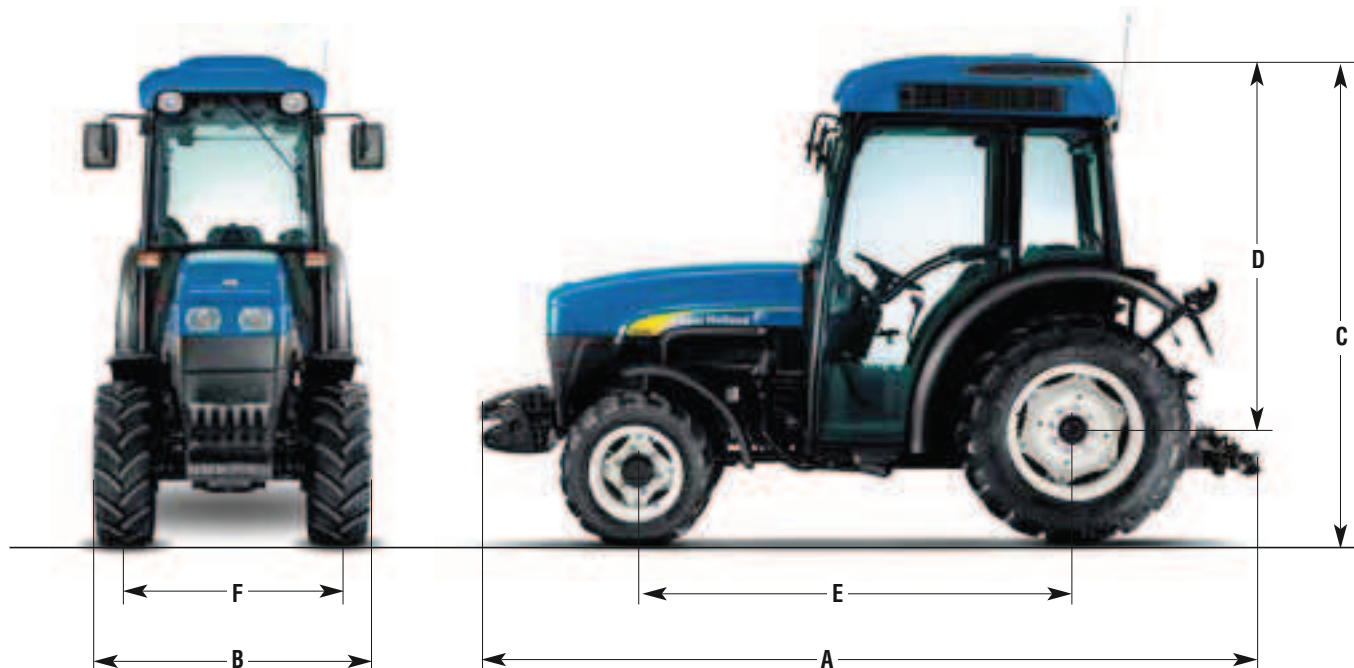
Specifications.

	TN70NA	TN75NA	TN95NA	TN60VA	TN70VA	TN75VA	TN95VA
Engine*							
No of cylinders / aspiration / emission level	3 / Light turboch. / Tier II	3 / Turboch. / Tier II	4 / Turboch. / Tier II	3 / Naturally / Tier II	3 / Light turboch. / Tier II	3 / Turbocharged / Tier II	4 / Turbocharged / Tier II
Capacity (cm ³)	2930	2930	3908	2930	2930	2930	3908
Rated engine power ISO TR14396 2000/25/EC [kW/hp(CV)]	53/72	55.5/76	67.5/92	43.5/59	53/72	55.5/76	67.5/92
Rated engine speed (rpm)	2300	2300	2300	2300	2300	2300	2300
Max.torque ISO TR14396 - 2000/25/EC (Nm)	282	300	365	215	282	300	365
...at engine speed (rpm)	1400	1400	1400	1400	1400	1400	1400
Torque rise (%)	32	37	35	26	32	37	35
Optimum fuel consumption (g/kWh)	212	210	209	209	212	210	209
Fuel capacity (l)	57	57	57	57	57	57	57
Cooling system	liquid	liquid	liquid	liquid	liquid	liquid	liquid
Vapour recirculating breather	●	●	●	●	●	●	●
Exhaust - under hood silencer	●	●	●	●	●	●	●
Exhaust cab - vertical stack	●	●	●	●	●	●	●
Exhaust cab - horizontal stack	○	○	○	○	○	○	○
Service Interval (hrs)	600	300	300	300	300	300	300
Shuttle Command™ Transmission							
Number of gears / with creeper (F - R)				16 x 16 / 28 x 16			
Speed range / with creeper (kph)				0.60 - 39.0 / 0.16 - 39.0			
Split Command™ Transmission (not offered UK/ROI)							
Number of gears / with creeper (F - R)				32 x 16 / 44 x 16			
Speed range / with creeper (kph)				0.50 - 39.0 / 0.16 - 39.0			
Dual Command™ Transmission with Powershuttle							
Number of gears / with creeper (F - R)				32 x 16 / 44 x 16			
Speed range / with creeper (kph)				0.50- 39.0 / 0.24 - 39.0			
Axles							
2WD front axle	○	○	○	○	○	○	○
4WD front axle	-	-	-	●	●	●	●
Engagement 4WD				electro-hydraulic			
Engagement diff. lock				electro-hydraulic			
SuperSteer™ front axle	●	●	●	-	-	-	-
Auto 4WD engagement	●	●	●	-	-	-	-
Dynamic fenders	○	○	○	-	-	-	-
Hydraulics							
Flexion Bar™ lower link draft sensing Main pump flow standard / MegaFlow™ (lpm)	49.2 / 66.2	49.2 / 66.2	49.2 / 66.2	49.2 / 66.2	49.2 / 66.2	49.2 / 66.2	49.2 / 66.2
Steering pump flow standard / optional (lpm)	24.7 / 38.2	24.7 / 38.2	24.7 / 38.2	24.7 / 38.2	24.7 / 38.2	24.7 / 38.2	24.7 / 38.2
Mechanical draft control (MDC) with Lift-O-Matic	●	●	●	●	●	●	●
Electronic draft control (EDC)	○	○	○	○	○	○	○
Remote valves							
Max. number	5	5	5	5	5	5	5
Mid-mount couplers	○	○	○	○	○	○	○
Linkage							
Maximum lift capacity at 610mm with arms horizontal (kg)	2440	2440	2440	2440	2440	2440	2440
Category	I, I N & II	I, I N & II	I, I N & II	I, I N & II	I, I N & II	I, I N & II	I, I N & II
PTO							
PTO speeds 540 / 750	●	●	●	●	●	●	●
PTO speeds 540 / 540 Economy / 1000	○	○	○	○	○	○	○
Engine speed at:							
540rpm (rpm)	2196	2196	2196	2196	2196	2196	2196
540 Economy rpm (rpm)	1535	1535	1535	1535	1535	1535	1535
1000rpm (rpm)	2260	2260	2260	2260	2260	2260	2260
PTO activation	Servo-assisted	Servo-assisted	Servo-assisted	Servo-assisted	Servo-assisted	Servo-assisted	Servo-assisted
Groundspeed PTO	●	●	●	●	●	●	●

		TN70NA	TN75NA	TN95NA	TN60VA	TN70VA	TN75VA	TN95VA
Operator environment								
Suspended platform		●	●	●	●	●	●	●
Lateral levers		●	●	●	●	●	●	●
Electronic Instrumentation		●	●	●	●	●	●	●
Air conditioning		○	●	●	○	○	●	●
Blue cab		○	●	●	○	○	●	●
Cab noise level OECD	(dBA)	80	80	80	79	79	79	79
Turn radius at narrowest track setting								
Optimum turn radius 2WD / 4WD	(mm)	2800 / 3100	2800 / 3100	2850 / 3150	3000 / 3300	3000 / 3300	3000 / 3300	3050 / 3350
Front wheel turn angle 2WD / 4WD	(°)	65 / 71	65 / 71	65 / 71	57 / 55	57 / 55	57 / 55	57 / 55
Dimensions** on rear tyres								
		12.4 x 24	12.4 x 24	12.4 x 24	9.5 x 28	9.5 x 28	9.5 x 28	9.5 x 28
A Overall length inc. weight pack and rear linkage								
	(mm)	3785	3785	3900	3663	3663	3663	3774
B Minimum width								
	(mm)	1225	1225	1225	986	986	986	986
C Overall height								
	(mm)	2319	2319	2319	2260	2260	2260	2260
D Height at centre of rear axle to top of cab								
	(mm)	1798	1798	1798	1798	1798	1798	1798
E Wheelbase: 2WD / 4WD								
	(mm)	2035 / –	2035 / –	2150 / –	2035 / 2064	2035 / 2064	2035 / 2064	2150 / 2175
	SuperSteer™	(mm)	2315	2315	2430	–	–	–
F Track width								
Front 2WD min. - max. / 4WD min. - max.	(mm)	1042 - 1176 / 1040 - 1275				838 - 1166 / 835 - 1049		
Rear min. - max.	(mm)	918 - 1351	918 - 1351	918 - 1351	745 - 1351	745 - 1351	745 - 1351	745 - 1351
Weights**								
Minimum weight with cab and 4WD	(kg)	2550	2550	2670	2450	2500	2500	2620

(*) New Holland Engine developed by Iveco (**) To comply with legislation in your country ● Standard ○ Optional at extra cost – Not available

PLEASE NOTE MODELS TN70NA, TN60VA AND TN70VA NOT OFFERED IN UK/ROI





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New Holland prefers **AMBRA** lubricants

The data indicated in this folder are approximate. The models described here can be subjected to modifications without any notice by the manufacturer. The drawings and photos may refer to equipment that is either optional or intended for other countries. Please apply to our Sales Network for any further information.
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