

TM



NEWHOLLAND

New Holland Series TM Tractors

Models TM120, TM130, TM140, TM155, TM175 and TM190



New Holland. A lifetime of support - treating



The best advice and support

New Holland recognises the importance of its dealers. They are your first port of call for information and advice. From delivery and service through to finance and extended warranties, your New Holland dealer is your business partner.

Tractors to match your needs

The six model New Holland Series TM tractor range is unique, offering a choice of specifications to exactly meet the different needs of customers. All models have a choice of specification that can include a Power Command™ full powershift transmission, Comfort Ride™ cab suspension, Terraglide™ or SuperSteer™ front axles, TerraLock™ drive management, and an air suspension seat designed to offer the best comfort in the industry. To suit the needs of customers who do not require a sophisticated transmission or electronic linkage control, other packages, including a choice of mechanical transmissions, are available.



each customer as an individual.



Genuine value

New Holland products are designed to offer the best performance to help maximise the return on your investment. Built to exacting quality standards, New Holland equipment offers reduced whole life operating costs to provide the best value.



Dealer fitted accessories

New Holland is a global brand. To optimise machine performance in all climates and operating conditions, a comprehensive range of approved accessories can be supplied and fitted by your New Holland dealer.

The two most powerful models, the TM175 and TM190, bring new levels of performance to the proven Series TM tractor range. Designed to have the power and stability to cope with large tillage equipment, they feature an Engine Power Management system and an increased wheelbase for the best power to weight ratios of any tractor in their class.



The most flexible mid-range tractors ever

New Holland has divided the Series TM model range into two weight and size categories.

The larger TM175 and TM190 are a new breed of high power tractors. Traditionally, tractors in this power category were heavily built. This was ideal for draft applications but compromised soil conditions in secondary tillage work. Modern cultivation and drilling systems have changed the way in which many growers establish their crops. The demand is still for a high-powered tractor but now with less weight.



TM175 and TM190 tractors have been developed to offer exceptional versatility and power, and are ideally suited to modern wide tillage and drilling systems. New Holland Engine Power Management is standard on both models and releases up to 26 kW [35 hp(CV)] additional power, which ensures that these long wheelbase models maintain productivity in demanding conditions.



built.

The TM120, TM130, TM140 and TM155 models offer established high power to weight ratios. They are extremely versatile tractors with a wide choice of specifications. Transmissions range from a basic Shuttle Command™ mechanical system through to a full PowerShift with automatic functions.



New Holland choice also extends to a range of front axles, including basic 4WD, Terraglide™ suspension and the unique New Holland SuperSteer™ axle for reduced headland turn times. Front brakes are also available on selected models.



The longer wheelbase on the TM175 and TM190 means added stability. This enables them to work with heavy mounted equipment without the need for excessive ballast. These models can be specified with an additional direct drive 19th forward speed.



New Holland dependability. Proven

Power Command™ transmission with adaptive shifting

Series TM tractors can be specified with Power Command™ full powershift transmission, with features that include adaptive shifting for field mode and an automatic transport mode. A key feature of the system is its ease of set up and use, enabling operators to enhance productivity without having to cope with a complicated setting procedure.

Comfort Ride™ cab suspension

Comfort Ride™ cab suspension is standard on models specified with Range Command™ or Power Command™ transmissions. Comfort Ride™ cab suspension can reduce vibration levels in the cab by up to 25%.

SuperSteer™ front axle for increased output

The unique New Holland SuperSteer™ front axle is available on all Series TM tractors. No other tractor in this size category can match the headland turn times of a Series TM equipped with the SuperSteer front axle.

Terraglide™ front axle for stability

New Holland Terraglide™ front axle suspension offers 105 mm of travel to help maximise tractor stability and control at transport speeds. The system also improves traction and comfort in the field. Damping is controlled with an advanced accumulator and regenerative valve system for a smoother ride.

performance and dependability.

CAN-bus electronic system

TM175 and TM190 models utilise CAN-bus technology in accordance with ISO 11783.

Power Command™ transmission with 19 x 6 option

Both the TM175 and TM190 can be specified with a direct drive 19 x 6 Power Command transmission. The 19th gear is more than an extra ratio, featuring its own clutch and direct drive to the rear axle. A higher transport speed can be achieved without compromising the ratios offered in the working ranges. The high gearing of the additional ratio also helps to reduce fuel consumption.

Engine Power Management

Specifically made for agriculture, New Holland PowerStar™ engines power all TM tractors. TM175 and TM190 models also benefit from Engine Power Management. This advanced system is designed to maintain constant engine performance as loads change and enables the rated power output to be increased by up to 26 kW [35 hp(CV)] in transport and PTO applications.

Practical cab design

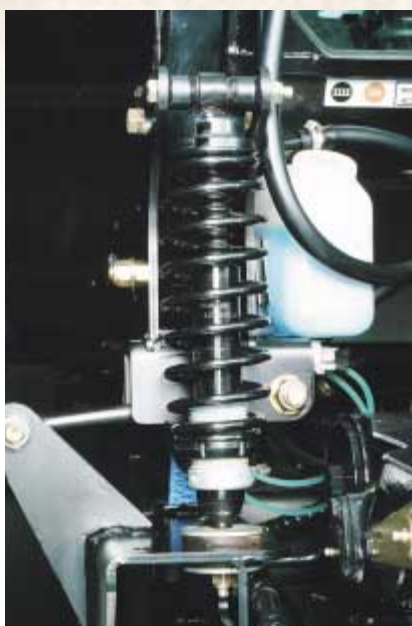
Sockets designed to suit a range of ancillary plugs and mounting points to accommodate control boxes are just some of the thoughtful touches that make the TM cab user friendly. Other features include a built in passenger seat, storage box, cup holder and an easy to clean finish.

Deluxe Air Suspension Seat

All models are fitted with a highly advanced air suspension seat. This provides excellent whole body vibration protection, helping the operator to remain comfortable over extended working periods.



Looking after the operator. A healthy future.



Comfort Ride™ Cab Suspension greatly increases comfort levels

Featuring adjustable spring height and dampers to enable the system to be set up to suit individual operator preference, Comfort Ride will reduce vibration levels within the cab by up to 25%.

Comfort Ride™ cab suspension is standard on models specified with Range Command or Power Command transmissions.



Space to work and rest

A tractor cab has to be more than just a working environment. It needs to provide enough space for the operator to take a break in comfort. The storage box to the operator's left has plenty of room and is sealed with a close fitting lid while the cup holder stops refreshments from spilling. The interior is finished with a quality plastic that is durable and easy to clean.



Advanced seat to suit everyone

Series TM tractors are fitted with an air suspension seat that easily accommodates different operator weights. For optimum comfort, a Deluxe seat is available on all models. This advanced seat incorporates 12 separate adjustments and can even be specified with cushion heating. Off centre positioning with movement setting means that the operator retains the benefit of full back support, even when looking over rear implements. This is of particular benefit when ploughing.

Terraglide™ front axle suspension

Terraglide is a well-proven front axle suspension system, designed to maintain performance in the toughest conditions. It provides improved traction in the field and increased stability at higher transport speeds. Offering a class leading 60 mm of compression travel and a total of 105 mm of suspension movement, standard features include automatic self-levelling according to load and controlled damping via an advanced accumulator and regenerative valve system. A manual override is fitted, so the front suspension can be locked for precision front linkage work or heavy breakout operations with a loader. An automatic override restores suspension at speeds over 12 kph to maximise comfort and safety.



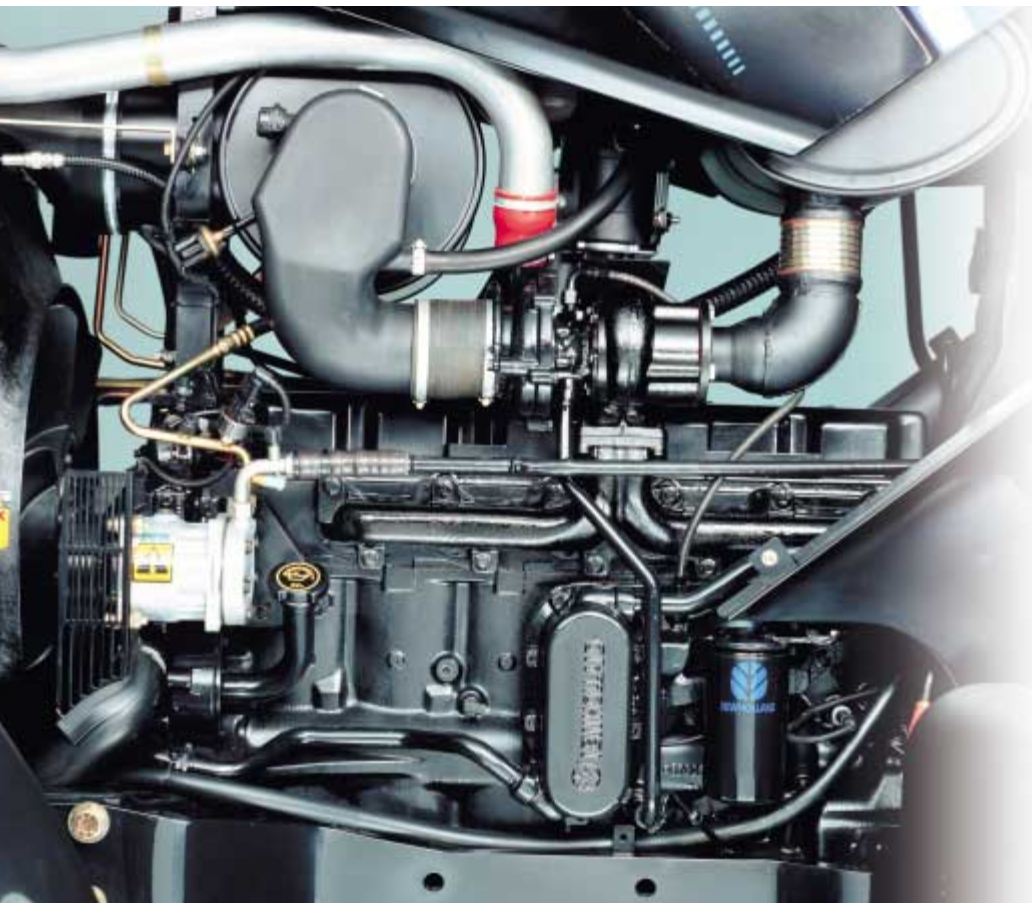
Designed to fit the operator.

Series TM tractors benefit from excellent ergonomics. All major controls are within easy reach of the operator, with a range of adjustments to set the steering wheel and the transmission control to suit individual preference. Visibility to the rear is excellent.





New Holland set the standard. Optimising power for the best performance.



Series TM tractors offer maximum performance and minimum fuel consumption. The high power TM175 and TM190 models have Engine Power Management and Engine Speed Management for first class performance and productivity.

	TM120	TM130	TM140	TM155	TM175	TM190	
New Holland PowerStar™ Engines	7.5 l displacement, 6 cylinder turbocharged with intercooler.....						
Rated engine power ISO TR14396	[kW/hp(CV)]	91/124	96/131	106/144	114/155	130/177	142/194
Rated engine power with Engine Power Management ..	[kW/hp(CV)]	-	-	-	-	156/212	168/229
Max engine power with Engine Power Management...	[kW/hp(CV)]	-	-	-	-	164/223	176/240
Rated speed	(rpm)	2200	2200	2200	2200	2200	2200
Max torque at 1400 rpm ISO TR14396.....	(Nm)	515	559	643	680	790	864
Max torque with Engine Power Management at 1600 rpm	(Nm)	-	-	-	-	886	961
Torque Rise	(%)	30	34	40	37	40	40
Bore x stroke.....	(mm/mm)	111.8/127.0	111.8/127.0	111.8/127.0	111.8/127.0	111.8/127.0	111.8/127.0

Engine Power Management and Engine Speed Management work together to increase productivity.



Fixed engine speed for uniform working

Engine Speed Management allows the operator to pre-set an engine speed. The system constantly monitors the engine and adjusts fuelling to compensate for increased or reduced loads. This feature enables the tractor to maintain the fixed engine speed in tough soil or crop conditions. It is particularly useful when baling, spraying or precision drilling.

More power for TM175 and TM190

Engine Power Management means the rated power output of the tractor can be increased by up to 26 kW [35 hp(CV)] in transport and PTO applications. The system operates automatically, independent of the operator. Whenever torque sensors on the engine and PTO driveline detect an increase in the engine load, power is increased to ensure PTO or transport speed is maintained. This enhances performance and output, particularly in those demanding applications traditionally reserved for powerful but much heavier tractors.



New Holland offers true choice. Select the



Optimising performance

New Holland Power Command™ transmissions are simplicity itself. These easy to use, programmable transmissions have the versatility to suit all applications, thanks to the patented torque sensing system and adaptive shifting.

The operator can select any ratio by pressing the 'up' or 'down' shift buttons on the main control without using the clutch. A number and indicator on the display unit confirm the ratio selected. A 10 x 6 creep speed module is also available for low speed applications.

Direct Drive

TM175 and TM190 tractors with Power Command™ transmission can be specified with an additional 19th forward speed. This ratio has its own independent oil immersed clutch and direct drive to the rear axle for minimum power losses. The 19th ratio allows the engine speed to be reduced at 40 kph or the tractor's transport speed to be increased to 50 kph (National restrictions apply).

The existing 18 transmission speeds are uncompromised. Engine Power Management is activated when 16th gear or above is selected. This allows a TM190 to develop up to 168 kW [229 hp(CV)] at rated speed for optimum road transport performance.



Minimum effort, maximum convenience

Range Command™ is an advanced semi- PowerShift transmission.

It offers 6 PowerShift gears in each of the 3 ranges, allowing the operator to shift through all 18 forward gears without using the clutch pedal. A small speed overlap between the field ranges ensures the right speed for the job is available. In transport, the transmission will automatically match the gear speed to the engine and road speeds each time the clutch is depressed. Gear pre-select and programmable reverse complete this outstanding package.



speed to suit every application.



Simple and easy to use

Shuttle Command™ full synchromesh transmission, is now available up to TM140. It is ideally suited to applications where a fixed ratio can be selected without the need for constant change.

The throttle, reverse shuttle, main gear lever and range selector are located within easy reach of the operator and are readily identified. A standard direct drive 5th gear ensures maximum power reaches the wheels during road transport.



Even more performance and versatility

Dual Command™ transmission enables the operator to reduce the selected gear speed by 16%. This is done by simply pressing a button on the gear lever. This down shift also increases torque at the wheels by 19% and can be made under full load without using the clutch. The standard PowerShuttle™ enables fast clutchless direction changes with close matching of forward and reverse speeds.



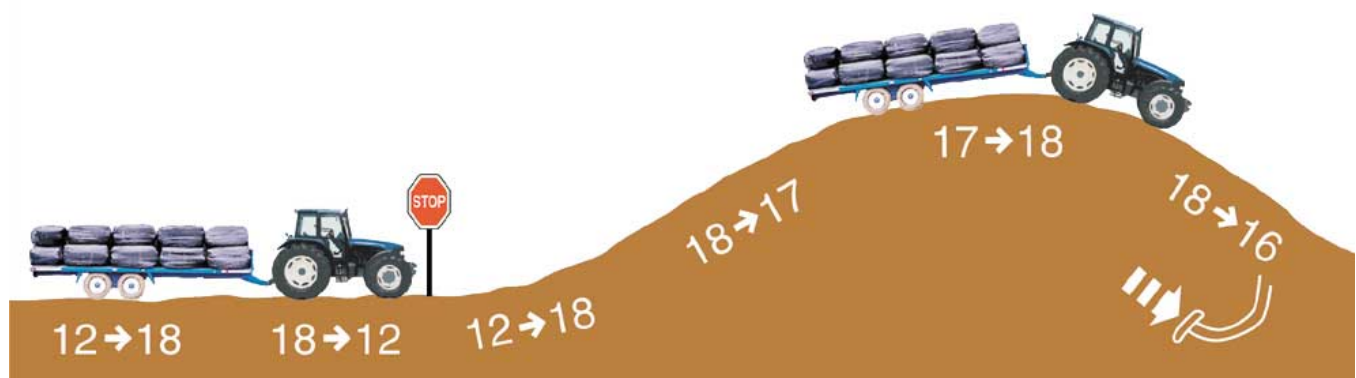
New Holland for the performance edge.

Increase productivity and economy

Series TM tractors can be specified with Power Command™ full PowerShift transmission with automatic shifting for road and field work. The system is easy to set up and operate, enhancing productivity at the press of a button.

Adaptive Auto Field mode for the optimum speed

Adaptive Auto Field analyses the throttle setting and transmission torque levels before setting the auto shift points. The transmission will then shift automatically as the load at the engine fly wheel varies.



Automatically slowing for a turn

The “Go To” mode can be programmed to automatically change to a lower gear when an implement is raised. This slows the tractor’s speed at headland turns without further input from the operator. When used with “Auto Field” mode, the tractor will also upshift when the implement is lowered back into work.

Safer and faster travel on the road

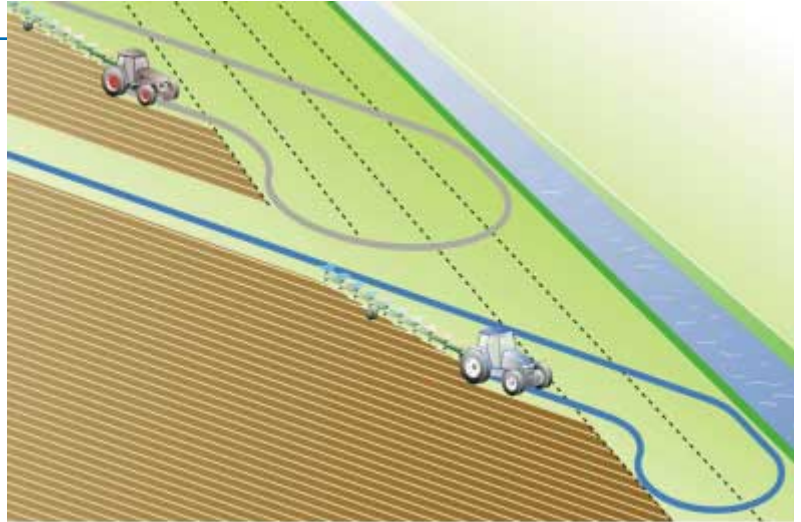
Auto Transport can be selected when the tractor is operating in 12th gear or higher. The transmission selects the optimum gear according to engine torque, load, forward speed and terrain. It makes operating the tractor easier, when pulling out of junctions, or working a heavy load in hilly terrain. It even knows when the tractor is being pushed down a hill by a loaded trailer and will shift gears to provide engine braking.

Reducing costs, maximising productivity.

SuperSteer™ front axle world beating agility

To increase output by reducing the time out of work, all Series TM tractors are offered with New Holland's revolutionary SuperSteer front axle. The 65 degree turn angle is of particular value when working in a confined headland space. This axle also adds 200 kg to the front of the tractor and increases the tractor's wheelbase for exceptional stability.

In a tight turn, it also reduces the camber of the front wheels, ensuring full ground contact is maintained to minimise wheel slip and reduce soil compaction. When front ballast is required, it is mounted directly onto the axle to optimise weight transfer so more power is transmitted to the ground without excess weight. SuperSteer™ front axle doesn't just increase manoeuvrability, it increases your output.



New Holland advanced thinking. Easy to



Traction management made easy

The TerraLock™ system simplifies 4WD and differential locks engagement.

If the operator chooses, the system will disengage

them automatically at the start of a headland turn. When the tractor returns to work, they will both be re-engaged automatically. The key advantage of TerraLock is that it provides automatic control with mounted and trailed implements.

Faster and easier turning

Headland Turn Sequencing is a system that allows the operator to record up to 28 separate tasks carried out during a headland turn. These can include raising and lowering the rear linkage, changing up and down the transmission and altering the engine speed. Both 4WD and differential lock management are handled separately via the TerraLock™ system.

To record and store a set of headland turn instructions, the operator sets the system to 'record' a turn made manually. The Headland Turn Sequencing is then 'played back' during subsequent turns, the pre-recorded actions being repeated automatically.



use features save time and effort.



Fast acting precision

Series TM tractors are available with up to 4 finger operated remote rear valves with electronic controls. The control paddles operate like a conventional lever, adjusting flow rate in proportion to the position of the paddle. The hydraulic flow rate can be adjusted for each valve between 4 and 120 l/min by rotating a thumb wheel at the rear of each control pod. Below the thumbwheel is a 'timed mode' switch. This is an easy to use system that records repetitive operations, the control paddle only needing to be flicked into position to automatically replay the function. The system can be overridden by operating the paddle manually. A stop button is fitted to terminate all functions instantly.

New Holland innovation. Designed to meet changing practices.



Awesome stopping power

Series TM tractors feature self-adjusting and maintenance free inboard wet Kevlar lined disc brakes in the rear axle. Pressure lubrication ensures the brakes remain cool and quiet, even after repeated application during high speed transportation. TM175 and TM190 models use a twin disc system. To transfer braking performance to the front of the tractor, drive to the front axle is automatically engaged when braking. All Series TM models feature systems to operate implement brakes according to market. Air braking is available. Front axle hub brakes are also available for selected 4WD models and are standard on TM175 and TM190 tractors with 19 x 6 transmissions. Comprising a servo assisted single wet disc for each wheel, front hub brakes increase braking performance.

Electronic draft control

New Holland electronic draft control systems are designed to combine ease of operation with precise implement control. The main linkage operating quadrant allows the operator to set the implement as required, with the control panel enabling speed of lower, lift limit and draft to be easily adjusted. The fast raise and lower switch automatically raises and lowers the implement to its original settings without additional input from the operator. The unique TM system uses independent position and draft controls. Draft sensing is not compromised to maintain an even working depth. Dynamic ride control is an automatic function that raises and lowers the rear implement during transport to counteract unwanted bouncing. This allows higher transport speeds with increased levels of comfort.



Slip limit control

A wheel slip limiter can be specified with the draft sensing system. This will override the draft control settings, raising the implement progressively to transfer weight from the implement onto the rear wheels until traction is regained. The operator can easily adjust the wheel slip threshold to suit prevailing conditions.



New Holland Series TM. Specifications.

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New Holland PowerStar™ Engines	7.5 l displacement, 6 cylinder turbocharged with intercooler.....					
Rated engine power ISO TR14396[kW/hp(CV)]	91 / 124	96 / 131	106 / 144	114 / 155	130 / 177	142 / 194
Rated engine power with Engine Power Management ...[kW/hp(CV)]	-	-	-	-	156 / 212	168 / 229
Max Engine Power with Engine Power Management ...[kW/hp(CV)]	-	-	-	-	164 / 223	176 / 240
Rated speed.....(rpm)	2200	2200	2200	2200	2200	2200
Max torque at 1400 rpm ISO TR14396(Nm)	515	559	643	680	790	864
Max torque with Engine Power Management at 1600 rpm.....	-	-	-	-	886	961
Torque rise.....(%)	30	34	40	37	40	40
Bore x stroke(mm/mm)	111.8 / 127.0	111.8 / 127.0	111.8 / 127.0	111.8 / 127.0	111.8 / 127.0	111.8 / 127.0
Fuel capacity(l)	285	285	285	285	398	398
In cab noise level at rated speed(dBA)	77.0	77.0	76.0	75.0	77.0	76.0
Range Command™ Semi PowerShift (40 kph)						
Number of gears (F - R).....	18 x 6	18 x 6	18 x 6	18 x 6	-	-
Speed range.....	2.46 - 40	2.46 - 40	2.46 - 40	2.46 - 40	-	-
With creeper						
Number of gears (F - R).....	31 x 12	31 x 12	31 x 12	31 x 12	-	-
Speed range.....	0.41 - 40	0.41 - 40	0.41 - 40	0.41 - 40	-	-
Power Command™ Full PowerShift with auto change						
Number of gears 40 kph (F - R).....	-	-	18 x 6	18 x 6	18 x 6	18 x 6
Speed range.....	-	-	1.94 - 40	1.94 - 40	1.94 - 40	1.94 - 40
Number of gears 50 kph (F - R).....	-	-	-	-	19 x 6	19 x 6
Speed range.....	-	-	-	-	1.90 - 49.5	1.90 - 49.5
With creeper						
Number of gears (F - R).....	-	-	28 x 12	28 x 12	28 x 12	28 x 12
Speed range.....	-	-	0.31 - 40	0.31 - 40	0.29 - 40	0.29 - 40
Dual Command™ (40 kph)						
Number of gears (F - R).....	24 x 12	24 x 12	24 x 12	-	-	-
Speed range.....	1.80 - 40	1.80 - 40	1.80 - 40	-	-	-
With creeper						
Number of gears (F - R).....	48 x 24	48 x 24	48 x 24	-	-	-
Speed range.....	0.23 - 40	0.23 - 40	0.23 - 40	-	-	-
Shuttle Command™ (40 kph)						
Number of gears (F - R).....	20 x 16	20 x 16	20 x 16	-	-	-
Speed range.....	1.40 - 40	1.40 - 40	1.40 - 40	-	-	-
With creeper						
Number of gears (F - R).....	40 x 32	40 x 32	40 x 32	-	-	-
Speed range.....	0.23 - 40	0.23 - 40	0.23 - 40	-	-	-
Hydraulics						
Closed Centre Load Sensing pump flow(lpm)	112	112	112	112	120	120
Total oil flow including steering.....(lpm)	174	174	174	174	185	185
Pump pressure(bar) at rated rpm	200 / 2900	200 / 2900	200 / 2900	200 / 2900	210 / 3045	210 / 3045
Max. number rear remotes (mech / elect).....	4 / -	4 / -	4 / -	4 / -	4 / 5	4 / 5
Joystick control and mid mount valves where specified.....	2	2	2	2	2	2
Open centre pump flow(lpm)	53	53	53	-	-	-
Total oil flow including independent steering pump(lpm)	106	106	106	-	-	-
Pump pressure(bar) at rated rpm	180 / 2610	180 / 2610	180 / 2610	-	-	-

Lift capacity

Rear linkage capacity

at 610 mm behind ball ends, through full lift range.....(kg).....	4415	4415	5177	5177	7187	7187
Max lift capacity at ball ends with arms horizontal.....(kg).....	6770	6770	8647	8647	8647	8647
Front linkage capacity at 610 mm in front of ball ends.....(kg).....	3270	3270	3270	3270	3270	3270

PTO

Engine speed at:

540 rpm.....(rpm).....	1969	1969	1969	1969	-	-
540 Economy.....(rpm).....	1526	1526	1526	1526	1568	1568
1000 rpm.....(rpm).....	2120	2120	2120	2120	2178	2178
Clutch type.....	Wet clutch Multiplate					
Engagement.....	Electro Hydraulic, proportional control					
Groundspeed.....	●	●	●	●	-	-
Front PTO rpm.....	1000	1000	1000	1000	1000	1000

Dimensions (mm)

Overall length*

Standard 4WD.....	5789	5789	5789	5789	5935	5935
Terraglide.....	5849	5849	5849	5849	5995	5995
SuperSteer.....	5946	5946	5946	5946	6092	6092

Wheelbase

Standard 4WD.....	2723	2723	2723	2723	2818	2818
Terraglide.....	2783	2783	2783	2783	2878	2878
SuperSteer.....	2880	2880	2880	2880	2975	2975

Maximum height 4WD.....	3030	3030	3030	3030	3210	3210
Track width Front Min - Max.....4WD.....	1552 - 2269	1552 - 2269	1552 - 2269	1552 - 2269	1552 - 2269	1552 - 2269
Track width Rear Min - Max.....4WD.....	1530 - 2232	1530 - 2232	1530 - 2232	1530 - 2232	1524 - 2438	1524 - 2438

(* Overall length from the end of rear links to front of weight pack.)

Turn Angle

Standard 4WD.....(degrees).....	55	55	55	55	55	55
Terraglide.....(degrees).....	55	55	55	55	55	55
SuperSteer.....(degrees).....	65	65	65	65	65	65

Weight (Cab 4WD)

Front.....(kg).....	2100	2100	2200	2200	2700	2700
Rear.....(kg).....	3150	3150	3200	3200	3900	3900
Total.....(kg).....	5250	5250	5400	5400	6600	6600
Maximum ballasted weight 4WD.....(kg).....	8500	8500	9000	10000	12000	12000

(Weights - standard build less fuel, no ballast and no operator.)

● Standard ◯ Option - Not available



For additional information on products, services and financing, please contact your nearest New Holland dealer, visit our website at www.newholland.com/uk or call free phone number - for UK: 0800 015 0105, for Eire: 1 800 523 174



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AT YOUR OWN DEALERSHIP

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. Published by New Holland Brand Communications.
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