NEW HOLLAND TC5000

TC5040 | TC5050 | TC5060 | TC5070 | TC5080

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Main characteristics		TC5040	TC5050	TC5060	TC5070	TC5080
Engine type* / capacity	(litres)	New Holland / 6,8	New Holland / 6,8	New Holland / 6,8	New Holland / 6,8	New Holland / 6,8
Engine power ECE R120	[kW/hp(CV)]	125/170	125/170	125/170	152/207	177/240
Number of straw walkers		4	4	5	5	5
Transmission		Mechanical	Hydrostatic	Mechanical	Hydrostatic	Hydrostatic
Lateral header flotation		–	–	–	O	O
Rotary Separator		–	–	O	O	O
Graintank capacity	(litres)	4000	4000	5200	6000	6000

* Developed by New Holland Engine Corporation O Optional at extra cost – Not available

TC5000 COMBINES, PROVEN RELIABILITY AND PRODUCTIVITY.

Since their first introduction in 1992, thousands of customers and operators have found the TC combine range to far exceed their expectations. The productivity of the TC range ideally suits the small scale arable farmer where reliability is key. The new TC5000 combine range enters a new era where advanced engine technology provides answers to strict emission regulations and fuel efficiency requirements. TC5000 combines have a low cost of operation and their modern features appeal to the farmers and contractors of tomorrow who choose to work in a comfortable cab with a combine that is easy to operate. The attractive styling underlines the use of advanced technology and reflects the all round professional package of the TC range.

Fitting your needs more precisely

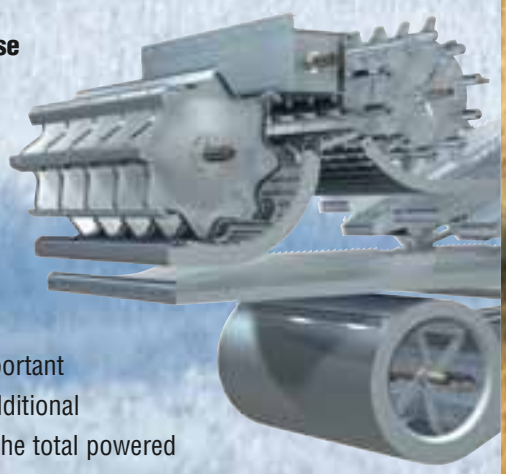
The new model line-up of the TC5000 combine range is wide. There is choice between 4 and 5-straw walker models and in both sizes there is a choice between mechanical and hydrostatic drive. There are two 5-straw walker models with hydrostatic drive; the top model having a larger engine. The New Holland engines with a high precision combustion process and injection control, provide outputs ranging from 125kW [175hp(CV)] to 177kW [240hp(CV)]. Advanced header control systems, and more cab controls for the combine functions, raise operator efficiency and combine output. The 5-straw walker models can be fitted with a Rotary Separator for optimum separation in high yielding crops and difficult conditions while the optional self-levelling cleaning system maintains capacity on slopes. Large graintanks increase the TC5000 autonomy for higher operator confidence and increased daily output.

Matching your performance expectations

Arable farmers requiring the ownership of a combine harvester have defined expectations from a machine. The time window in which they have to complete their harvest is limited, therefore machine performance and reliability is paramount.

EXCEPTIONAL THRESHING AND SEPERATION.

The large 0.60m diameter drum and concave ensure that the grain is threshed and separated efficiently. The concave has a wrap angle of 111 degrees and an area of up to 0.79 square metres. The beater then directs the crop to the large 'open surface' straw walkers, which completes the separation process and ensure a smooth crop flow.



Substantial separation increase with the Rotary Separator

To ensure trouble-free harvesting of high volume crops that are tough to thresh and separate, TC5000 combines can be equipped with a Rotary Separator, one of the many important New Holland inventions. The additional concave area of 0,83m² raises the total powered separation area to 1,82m². The increased performance also results from the centrifugal force that is created by the Rotary Separator.

SUSTAINED FIELD SPEED IN ALL CROPS.

A host of features keep up productivity all day long
A fast ground speed can be maintained in any type of crop, whatever the maturity of the straw, thanks to the high-speed cutting. For a positive feed to the straw elevator, a swift and smooth transfer is handled by the large diameter auger with high flights and retractable fingers over the full width.

Superb header control in any field
Maintaining a high field speed requires a proper header compensation and header height control system. Nitrogen accumulators offering pneumatic compensation are standard on all models. For operating in uneven fields a straw elevator that allows for the Lateralfloat™ system is available on the Models TC5070 and TC5080. With this type of elevator, the combine can also have the Autofloat™ system which automatically maintains the header parallel to the ground. On units without a lateral flotation elevator, a similar system is available which automatically controls the header height up and down: the Controlfloat™ system.

Extending TC5000 versatility
TC5000 combines have the ability to operate at maximum efficiency in a wide variety of crops. Corn-cob-mix and maize are regularly used to enrich the feed value of cattle fodder. New Holland maize headers are available and provide excellent field performance with high daily output.

CLEAN GRAIN IN LARGE QUANTITIES.

Versatile and efficient cleaning

To handle the majority of crops without additional equipment the large top and bottom sieves on TC5000 combines have 1mm adjustment intervals. The opposed motion of the sieves increases cleaning efficiency as each sieve operates at an ideal stroke length for its specific function. This opposed motion of the sieves also reduces vibration and provides smooth running characteristics. Air is drawn from both sides of the fan, which provides ample air for the efficient cleaning.

Maintaining capacity on slopes

To help eliminate the loss of cleaning capacity on slopes, a patented self-levelling cleaning system is available as an option on all TC5000 models. Divider plates on the grain pan direct the flow of grain to the uphill side of the combine for an even crop distribution on to the upper sieve sections, on slopes of up to 23%. The automatic levelling of these sections prevents the crop from sliding to the down hill side, preventing an overload on one side of the sieve and air loss from the fan on the uphill side.

Adequate field autonomy, practical unloading

For a swift field operation and matching grain haulage, TC5000 combines have grain tank capacities of up to 6000 litres. The in-line unloading system can function with the auger tube in virtually any position and an unloading speed of 60 litres per second ensures no time is wasted. One push on a switch is enough for the unloading tube to swing-out or in.

INNOVATIVE POWER TECHNOLOGY.

Clean design, precise finishing

A range of modern New Holland engines is the result of continuous development efforts, aiming at improved performance: more power, less weight, more compact, less noise. Lower running costs, in terms of fuel and lubricant consumption, are part of the rigorous objectives.
The New Holland engines, the power source for the new TC5000 combine models, were specified following demanding tests and are particularly suitable for their combine application.

Engine	TC5040	TC5050	TC5060	TC5070	TC5080
Engine type* / capacity (litres)	New Holland / 6,8	New Holland / 6,8	New Holland / 6,8	New Holland / 6,8	New Holland / 6,8
Mechanical governor / Common rail injection	Mechanical	Mechanical	Mechanical	Common rail	Common rail
Gross power ECE R120 [kW/hp(CV)]	125/170	125/170	125/170	152/207	177/240
Maximum power ECE R120 [kW/hp(CV)]	129/175	129/175	129/175	164/223	178/242

* Developed by New Holland

Common rail: pure power through refined combustion

An improved combustion of the New Holland engines is the result of high injection pressure, generated in the Common rail. It produces a fine mist of fuel resulting in a cleaner burn. The common rail technology combined with 4-valves per cylinder have dramatically improved performance and efficiency.

Rely on a sustained power supply

The in-line cooling system fan is located between the rotary dust screen and the radiator. The self-cleaning screen eliminates chaff and large particles before the powerful 7-blade fan blows air through the radiator. The system helps eliminate radiator plugging, keeps the engine compartment clean and provides optimum cooling in all conditions.

Strong drivelines, versatile transmissions

TC5000 models have the proven drivelines for operation in the toughest conditions. The large drum generates high inertia and stores energy to effectively smooth-out peak loads. To eliminate torque loads, the gearbox is mounted to a heavy traction beam and drives the final reduction gearboxes through two high-speed shafts.

Finest straw quality

In many farming operations, straw means more than just a crop residue. Mainly in livestock production, it represents an important by-product used for bedding and feeding. It is important that all the straw is collected and that its structure remains intact. TC5000 combines handle the straw with respect!

Gentle crop treatment
TC5000 combines use a straightforward but efficient threshing and separation system. The large diameter drum and the large concave area provide sufficient threshing and separation, whilst minimising straw damage.

Smooth transitions
Straw-friendly transitions help keep the straw structure intact. While shifting the straw from drum to beater and further onto the straw walkers, there are no harsh changes in direction: The rear beater guides the straw onto the straw walkers aiding crop throughput.

Even with the increased capacity from the Rotary Separator
For operating in green straw conditions or high yielding crops which may be tough to thresh and separate, the Rotary Separator adds a lot to the TC5000 capacity. When the demand for extra seperation is moderate, the low Rotary Separator speed ensures a gentler action, respecting the straw.

Efficient straw walkers finish the job
The large “open surface” area of the straw walkers represents a significant separation capacity, while the straw is moved to the rear of the combine. “Walking” the straw out of the combine is gentle and efficient!

The chopping alternative
When collection of the straw is not required, TC5000 combines can be fitted with an integrated straw-chopper with reversible, serrated knives and optional remote control for the deflectors.

Harvesting comfortably

The new TC5000 models benefit from a new modern cab. Apart from its attractive look, the cab features comfort elements and control arrangements that are class leading for a combine in this category.

Comfortable position, excellent visibility

TC5000 combine operators benefit from a comfortable seating arrangement and good visibility. An air-suspended seat is available for extra comfort. Also a passenger seat can be specified, in combination with electric remote controls for the header and threshing system engagement.
The curved windscreen offers 191 degrees of vision and eliminates annoying side reflections. For a good view of the header, the front of the cab floor slopes and the low console provides good visibility to the right hand side of the header. Remote controlled mirrors complete the all round visibility.

Convenient controls maximise ergonomics
The handy multi-function lever controls forward speed and incorporates all header operations providing a constant and if required immediate reaction on the harvesting circumstances. For added convenience, the multi-function lever is part of the console.

Main operator focus

A soil pressure and stubble height indicator allow an operator to maintain a constant cutting height and are particularly useful when harvesting at night. For operating in uneven fields with wide headers of up to 5,18m (17ft), the optional Controlfloat™ header height control system makes the operator's life easy: it automatically adapts the header height using sensors on the outer header skids.
With wide headers of up to 6,03m (20ft) the optional Autofloat™ header height control system offers a fully automatic header adjustment, both laterally and up and down.

A quiet cab for long working days

A thick floor mat liner is part of the new trimmings of the cab. Also the quiet engines with advanced combustion technology and with the engine gear train at the rear of the engine block, stand for a considerable reduction in noise emission and vibration.

Ergonomics for top efficiency
The adjustable steering column offers up to six position settings and the steering wheel can be tilted through 30 degrees to ensure operator comfort.
Hydrostatic steering provides effortless fingertip control.

Quick result check
A conveniently located access door provides fast, easy sampling of harvested crop in the grain tank.

High operator confidence
Information about the combine functions and the knowledge that when required an immediate reaction is easy and safe, increases the operator confidence and ensures a sustained performance. The right hand side console contains the displays, indicators and switches needed for proper operation, including the optional performance monitor which adds to the harvesting efficiency.

Confidence in your header!
Should a header blockage occur, a powerful electric motor, operated from the cab can be used to reverse the elevator and header. No hesitation in difficult and irregular crop conditions!

When it best suits
The ownership of a TC5000 combine ensures harvesting when the crop is at the ideal stage of maturity. No nervous waiting for the contractor, no compromise on the grain and / or straw quality. A TC5000 combine owner controls his harvesting operation for optimum results. Alternatively contractors may decide to purchase multiple TC5000 combines to be able to serve several customers at the same time.

Lowest costs, value for money

A great performer for a moderate investment
Whatever the TC5000 combine model, its performance is high, its reliability is proven, and its daily maintenance and its overall operating costs are limited. Furthermore New Holland combines are known for their high trade-in value. This means that the lifetime operating cost per acre is low.

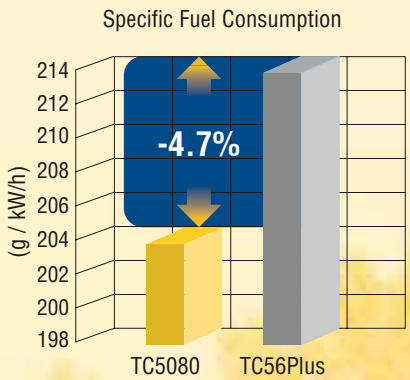
Unmatched reliability
TC5000 combines are famous for their durability. Build to last, with high specification components and precision finishing. During the limited number of harvesting days per season, TC5000 combines keep going.

Low fuel consumption

Innovative fuel injection techniques and advanced combustion control, implemented in the New Holland engines, have resulted in a new balance between high engine performance and fuel consumption. The fuel efficient New Holland-Tier 3 engine at nominal rpm, have 4,7% less fuel consumption versus the old Tier 2 engine used on the previous Model TC56.

Reduced maintenance costs

Thanks to the easy access of all major components, routine maintenance and servicing is made fast and easy. Examples are the easy access to the engine area, the hinged rotary dust screen and the highly accessible greasing points, all reducing the daily maintenance intervention time.



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Top availability. Managed in partnership with New Holland dealers and New Holland Parts and Service teams, New Holland Top Service provides you with total support and up to date information, and is available to you 24/7 through the free phone* number **0800 64 111 111.** You can call the free phone* number at any time to seek advice on items such as the New Holland dealer network, requests for brochures, product specifications, product problems, and any other issues.

Top satisfaction. The New Holland Top Service team will track and chase every query to a satisfactory conclusion. Queries will only be closed after a final call to ensure you are fully satisfied with the solution. Feedback from these calls will be used in regular reviews to improve the process continuously.

Top speed. For product issues the New Holland Top Service team will work with your dealer and the New Holland Parts and Service organisations to quickly source any parts required and resolve any technical issue. To ensure parts reach you when you need them, New Holland dealers have the support of well established ordering and delivery systems, and can rely on a 24/7 service from our Parts Depots. To ensure a sustained high level of parts service, advanced product training sessions are regularly organised for dealer staff.

Top priority. During the harvest season, New Holland understands that any loss of productivity can be very expensive. For this reason **Top Service Privilege offers extra support** and is available for top of the range, high productivity equipment in warranty. The New Holland Top Service Manager can draw parts from any facility within the New Holland Parts and Manufacturing networks, including assembly lines, to guarantee a fast resolution. Using our priority logistics service, parts will be delivered rapidly to get your machine back to work as quickly as possible.

New Holland Top Service is designed to give you peace of mind and keep your business productive.

* Calls to the Top Service team are free from landlines in the United Kingdom and Republic of Ireland. UK-based mobile calls are also free, but Republic of Ireland mobile users should call **01 2421881** and this will be charged at your standard network rate.

NEW HOLLAND AGRICULTURE

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BEYOND THE PRODUCT.

Qualified Dealer Technicians give you the most professional technical support

A dealer technician certification programme helps ensure customers get the professional technical support they expect every time. To support this programme New Holland has created an online tool to train and develop the knowledge and skills of all technicians at New Holland dealerships. This online tool enables the technicians to build on the training received during workshops at New Holland's Training Centres and constantly update and develop their knowledge.

Service Plus – Long lasting confidence

Service Plus coverage from Covéa Fleet provides owners of New Holland agricultural machinery with additional cover on the expiry of the manufacturer's contractual warranty. Please ask your dealer for more details. Subject to status and availability.

Terms and conditions apply.

We understand your business, we tailor your finance to your needs

CNH Capital, the financial services company of New Holland, has thorough knowledge of the agricultural industry. Every customer is unique, with specific equipment and financial needs. That's why we extend customer service to include tailor-made financial packages. New Holland Dealers and CNH Capital specialists work together to offer you the most advanced agricultural equipment coupled with a flexible and innovative financing solution. With CNH Capital, you have the peace of mind that comes from dealing with a financing company that specialises in agriculture.

DIA

Dealer Installed Accessories

New Holland is a global brand, but recognises that different local conditions mean varying needs. A comprehensive range of approved accessories to optimise machine performance in all conditions can be supplied and fitted by your dealer.

Models		TC5040	TC5050	TC5060	TC5070	TC5080
Grain header						
High Capacity grain header cutting width	(m)	3.66 - 4.57	3.66 - 4.57	3.66 - 5.18	3.66 - 6.03 (*)	3.66 - 6.03
Knife speed	(cuts/min.)	1150	1150	1150	1150	1150
Spare knife and spare bolted knife sections		●	●	●	●	●
Feeding auger with full-width retractable fingers		●	●	●	●	●
Reel diameter	(m)	1.07	1.07	1.07	1.07	1.07
Electro-hydraulic reel position adjustment		●	●	●	●	●
Instant tine angle adjustment		●	●	●	●	●
Fast coupler		○	○	○	○	○
Maize headers						
Number of rows:						
Rigid maize headers		–	–	5	5 / 6 (*)	5 / 6
Flip-up maize headers		–	–	–	–	6
Rotary dividers		–	–	○	○	○
Hydro-pneumatic header control system		●	●	●	–	–
Automatic header control systems						
Stubble height control		–	–	–	●	●
Compensation		–	–	–	●	●
Controlfloat™		–	–	–	○	○
Autofloat™		–	–	–	○	○
Straw elevator						
Number of chains		3	3	3	3	3
Header and elevator reverser		electrical	electrical	electrical	electrical	electrical
Lateral flotation		–	–	–	○	○
Cab						
Air-suspension seat		–	–	–	○	○
Instructor's seat		–	○	–	○	○
Air-conditioning		●	●	●	●	●
Heating		○	○	○	○	○
Remote controls for header, threshing and unloading engagement		–	○	–	○	○
Threshing drum						
Width	(m)	1.04	1.04	1.30	1.30	1.30
Diameter	(m)	0.607	0.607	0.607	0.607	0.607
Number of bars		8	8	8	8	8
Speed range	(rpm)	430 - 1070	430 - 1070	430 - 1070	417 - 1037	417 - 1037
Drum concave						
Area	(m^2)	0.62	0.62	0.79	0.79	0.79
Number of bars		14	14	14	14	14
Angle of wrap	(degrees)	111	111	111	111	111
Concave adjustment		manual	manual	manual	manual	manual
Beater						
Four paddle type		●	●	●	●	●
Rake surface concave area	(m^2)	0.318	0.318	0.396 / 0.290	0.396 / 0.290	0.396 / 0.290
Rotary Separator		–	–	○	○	○
Diameter	(m)	–	–	0.605	0.605	0.605
Speed	(rpm)	–	–	760 or 400	740 or 400	740 or 400
Concave area (including rake)	(m^2)	–	–	0.83	0.83	0.83
Straw walkers						
Number		4	4	5	5	5
Separation area (with Rot. Sep. / less Rot. Sep.)	(m^2)	4.00	4.00	4.36 / 5.00	4.36 / 5.00	4.36 / 5.00

Models		TC5040	TC5050	TC5060	TC5070	TC5080
Cleaning						
Upper / lower sieve area	(m^2)	1.74 / 1.36	1.74 / 1.36	2.19 / 1.71	2.19 / 1.71	2.19 / 1.71
Cleaning rake on grainpan	(m^2)	0.19	0.19	0.23	0.23	0.23
Total sieve area under wind control	(m^2)	3.27	3.27	4.12	4.12	4.12
Optional self-levelling cleaning system						
Automatically controlled - safety reset position		●	●	●	●	●
Pivotable dividers on grainpan		●	●	●	●	●
pivoting upper sieve section	(percent)	23	23	23	23	23
Cleaning fan						
Number of blades		6	6	6	6	6
Speed range	(rpm)	350 - 1000	350 - 1000	350 - 1000	340 - 970	340 - 970
Electrical speed adjustment from the cab		○	●	●	●	●
Return system						
Return system to drum		●	●	●	●	●
Grain elevator						
High capacity grain elevator with heavy duty chain & flaps		●	●	●	●	●
Graintank						
Capacity	(l)	4000	4000	5200	6000	6000
Unloading auger						
In-line unloading		●	●	●	●	●
Automatic full swing-out of unloading tube		●	●	●	●	●
Unloading speed	(l/s)	60	60	60	60	60
Grain sample inspection door		●	●	●	●	●
Graintank full warning device		●	●	●	●	●
Engine						
New Holland engine (**)		6,8 l	6,8 l	6,8 l	6,8 l	6,8 l
Mechanical governor / Common rail injection system		Mech.	Mech.	Mech.	Common rail	Common rail
Gross power ISO 14396 - ECE R120 at 2100rpm	[kW/hp(CV)]	125/170	125/170	125/170	152/207	177/240
Maximum power ISO 14396 - ECE R120 at 2000rpm	[kW/hp(CV)]	129/175	129/175	129/175	164/223	178/242
Air compressor kit		–	–	–	○	○
Fuel tank						
Capacity	(l)	300	300	300	400	400
Transmission						
Type		Mech.	Hydro.	Mech.	Hydro.	Hydro.
Gearbox		4	4	4	3 / 3 HD (*)	3
Maximum speed (Depending on local legislation)	(kph)	30	30	30	30	30
Residue Management						
Integrated straw chopper		○	○	○	○	○
Remote adjustable deflectors		–	–	○	○	○
Chaff spreader		–	–	○	○	○
Dimensions						
Minimum width (depending on the tyre size)	(mm)	2971/3315	2971/3315	3173	3173	3173 / 3352 / 3648
Maximum length without header, with chopper	(mm)	8135	8135	8135	8135	8135
Weight						
Full option version	(kg)	8100	8100	9600	9600	9600
Standard version less header and less straw chopper	(kg)	7600	7600	8520	8720	8720

(*) Only with Heavy Duty Drive fitted (**) Developped by CNH Engine Corporation

● Standard ○ Option – Not Available

AT YOUR OWN DEALER

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