



| HORSEPOWER (TIER3) | 173 HP (129kW) |
|----------------------------|----------------|
| BASE OPERATING WEIGHT | 14.605 kg |
| MAXIMUM OPERATIONAL WEIGHT | 16.395 kg |



F140B

The global strength of New Holland is in the technology, efficiency, and high quality of its machines.

The local solutions that New Holland brings to the segments in which it operates consolidate the excellence of its brand in the world market of construction.

The FI40B motor grader

is a machine that stands out for its high technology and efficiency with high precision hydraulic controls, chassis articulation in front of the cab, Roll Away central blade with an involute profile, and intelligent electronic control transmission.

Its design is functional and modern.

The cab and rear hood have rounded lines and a cool style that combines harmony and stability, providing easy access to routine maintenance items.

The FI40B equipment

has an international quality standard that is recognised by the high productivity and assurance of New Holland's global strength.





POWERTRAIN

New Holland designed the power train of the F140B motor grader to overcome the harshest strains, because the activities of earthmoving require robust machines with high power and a high traction capacity. This set, perfectly integrated, offers great resistance, more durability, and especially a high working capacity.



The engine of the F140B is the FPT NEF 6.7 liters , which is recognised worldwide for its outstanding performance and ease of maintenance. This engine has proven efficiency and durability, TIER 3 certification and 40% fewer parts than other engines. Its hydraulic fan is maintenance-free of belts and produces less noise and greater efficiency. The pre-filter cyclonic system ensures less frequency in cleaning and a higher useful life of the motor filter. The Bosch Common Rail fuel injection and the dual fuel filter with an integrated water separator make up an efficient, simple, and durable injection system.



POWERSHIFT TRANSMISSION

The F140B motor grader has a Powershift type automatic transmission of electronic control, coupled to the engine through a torque converter system equipped with Lock-Up. The Lock-Up allows the locking of the torque converter, transforming the transmission into a Direct Drive system.

This way, the F140B motor grader combines the advantages of the torque converter, which is ideal for operations that require high traction forces such as cutting on hard surfaces and heavy ripping with the advantages of direct coupling, which is ideal for operations that require a constant speed and fixed control of displacement such as finishing operations and precision levelling. All of this is in a single equipment. The Lock-Up operation is performed by simply flipping a switch located on the side console.

The gearbox has two operation modes. The automatic mode applies the gear most appropriate to the activity that the machine is carrying out, taking into account the acceleration, travel speed, and effort. Therefore, the operator can concentrate more on his work without worrying about shifting gears.

The operator can change the transmission control to manual by flipping a switch on the side console in case he prefers it. In this case, the gear selection is done through a bump shifter without the use of channels for gear or direction. The operation is very simple and the machine follows the operator's commands.

"TRANSMISSION CONTROL UNIT" (TCU) ELECTRONIC PROCESSOR AT THE SERVICE OF PRECISION IN OPERATIONS.

The TCU electronic processor manages all of the information during the transmission operation with greater precision in all of the operation phases, providing to the set an optimised operation and ensuring increased productivity, useful life, and comfort to the operator.

The TCU ensures the equipment's integrity while avoiding wrong or abusive operations such as shifting gears and direction inversions at inappropriate speeds.

The transmission also has a failure diagnosis system that warns of any problems that are occurring with the set on the panel or by connecting a laptop. High durability with simplified mechanics and extremely easy maintenance, this transmission offers high reliability and unparalleled performance.



"GO HOME"

This device automatically detects failures that may limit or prevent the proper operation of the TCU. **Go Home** allows only one gear to be engaged in each direction and within the appropriate speed limit for that gear. This device is important because it allows the machine to be transported until the workshop, avoiding it from staying in an inadequate location.

AXLES

The F140B motor grader axles were made to ensure greater robustness and ability to transfer power to the ground. The front axle is made of a welded steel structure with highly resistant cast parts, offering a wide and constant ground clearance of 580 mm throughout its entire length due to its straight geometry. The lateral tilt of the wheels of 12° to the right or left and the oscillation of 15° degrees to each side allow the land irregularities to be followed.

The rear axle is made of cast iron and the tandem structure is made of a rectangular profile welded on to steel plates. Both were designed to withstand the harshest conditions and the rear shaft is equipped with Super Max Trac differential system, which limits slipping with torque transfer and automatic locking. The tandem oscillation is 20 degrees to each side.

BRAKES

The F140B has two circuits in its brake system, one for each tandem. The brakes are of the multiple discs, oil bath, autoadjustable type with a long usable life.

The servo assisted hydraulic service brakes have two nitrogen accumulators, one for each circuit. These accumulators allow the operator to still stop the machine in case there is some failure in the hydraulic system or the engine dies.

STEERING / ARTICULATION

Orbitrol type hydrostatic steering fed by a gear pump. The front wheel steering angle is of 42 degrees on both sides and the chassis articulation is 25 degrees to the right or left, providing a turning radius of 7250 mm. This reduced turning radius allows the operator to carry out jobs in confined areas with greater ease and perform operations in sharp turns in less time. An auxiliary handle on the steering wheel allows greater flexibility in performing manoeuvres.

HYDRAULIC SYSTEM

The hydraulic system is of the Load and Flow Sensing type (load sensitive). Therefore the pump only provides flow when the operator activates one of the control levers. When there is no hydraulic demand, the pump consumes a minimum power of the engine and the hydraulic system works more cooled, which reduces fuel consumption.

The F140.B grader is also equipped with a closed-centre hydraulic distributor with nine sections of circuits, situated in a protected location and below the operator platform. This way it is possible to assemble new accessories without the need to add hydraulic sections to the distributor.





ELECTRICAL SYSTEM

The electrical system is 24 volts and powered by two maintenance-free batteries of 12 volts each connected in series with a total capacity of 100 Ah and located in an easy access place.

The F140B has a set of lights in front, in the back, and on the blade providing perfect illumination of the workplace.

OPERATOR COMPARTMENT - CAB OPTIONS

Closed or open, the cabs are assembled on the rear chassis, which makes it easier for the operator to perform manoeuvres in reverse and check exactly how much the chassis is being articulated. This means total safety in the operations.

CLOSED CAB ROPS/FOPS

The closed cab is high and has 6.76 m² of area closed with glass. Its design with all the flat faces and a lower rear hood ensure greater visibility, enabling a better visual control for both rear jobs such as ripper as well as front jobs with a blade or scarifiers.

- safety glass
- general switch inside the compartment
- front windshield wiper with washer
- inside light
- an inside rear-view mirror and two outside ones
- provision for radio with speaker 12 volt power outlet
- · access from both sides
- inside ventilation system with deflectors on the ceiling for better cooling
- cupholders
- · adjustable steering column
- optional: air-conditioning, heater, rear windshield wiper and rear sunshade curtain



OPEN CAB ROPS/FOPS

This type of cab offers far more protection and comfort in comparison to the canopy since it protects the operator from the dust of the machines that are ahead and low volume rains.

- front and rear glasses
- front windshield wiper with washer
- fan
- an inside rear-view mirror and two outside ones
- inside light
- general switch inside the compartment
- · access from both sides
- · ceiling fan
- adjustable steering column



TOTAL COMFORT FOR THE OPERATOR

There are several items that the FI40B grader offers for the comfort of the operator: adjustable seat with arm and head rest and elastic suspension with regulation for the weight of the operator.

The steering console is fully adjustable to the working position for operators of any height. The steering wheel has an auxiliary handle that is optional for handling with one hand while the other hand takes care of the implement. Shorter levers allow you to control all the implements easily and productively

CONTROLS, MONITOR, AND PANEL

The ergonomics of the F140B grader positioned all the controls and buttons within the reach of the operator. The Electronic Data Monitor (EDM) monitors all of the vital functions of the equipment, enabling the operator to obtain reliable information on the operation of the machine.

The side panel has liquid crystal analogue displays that are easy to read such as the fuel level, temperatures, and motor oil and transmission pressures.





MORE OPTIONS FOR MORE VERSATILITY

The F140B grader offers a range of options to facilitate the job and increase productivity such as floating of the front and central blades, rear hook, reinforced blade corners, blade length, front push plate, spare wheel holder, and other items already known and accepted on the market.



CENTRAL BLADE WITH ROLL AWAY INVOLUTE PROFILE

The F140B central blade has a Roll Away involute profile, which causes the material to roll, makes the job easier and reduces stress on the machine, generating higher productivity and lower fuel consumption.

As standard equipment, the motor grader has the side displacement and tilt of the blade hydraulically activated, which are indispensable items in various types of work. The locking system of the saddle, which operates through a hydraulic cylinder controlled by a solenoid valve can be activated by a switch located on panel.

ROBUST CONSTRUCTION

The blade is built of steel highly resistance to abrasion and has knives and boron steel corners, which has a longer useful life. The circle of the blade is supported on guides with replaceable phenolic resin inserts, which do not require lubrication. Its external teeth avoid damages to the rotating pinion in cases of operation with inadequate clearance adjustment due to maintenance failures. The blade can make a 360° turn without restrictions, which gives many more working alternatives.

REAR RIPPER

The F140B motor grader offers a rear ripper of the parallelogram type, which increases the breakdown of compacted hard soils.

INTERCHANGEABLE FRONT BLADE

This blade with parallelogram kinematics is fully interchangeable with the front scarifier, which ensures the machine's application versatility.

SIMPLIFIED MAINTENANCE

The new tipping hood of the F140B allows a wide access to the routine maintenances such as checking the oil level and the replacement of oil and air filters. The level of hydraulic oil by optical display is easy to read. The fuel reservoir nozzle is easily accessible, which allows the refuelling from the ground.

ASSISTANCE, TECHNICAL GUIDANCE, AND PARTNERSHIP AT THE CUSTOMER'S SERVICE

New Holland has an exclusive department to take care of the guidance and technical assistance of the network and its customers called the Customer Support Department. It offers to its dealers all the support and training needed so that they can provide quality services to each of the New Holland machine owners.

Fully computerised and interconnected with the network of dealers, the Department of Customer Support makes available in real-time technical data, service bulletins, and online processing of the machine warranty, which ensures quickness and accuracy in all business relationships with the network of dealers and their customers.

Before launching an equipment on the market, engineers and technicians of New Holland go to the field to train and guide the entire team of technical assistance of its dealers. Only after this step is the equipment made available for sale.

In addition, every time an equipment or part goes through some sort of change or evolution, the Department of Customer Support immediately passes on the knowledge to the technicians and mechanics of the dealers and, in many cases, even directly to customers, which keeps the whole team continually updated.





ENGINE

| Horsepower at 2,200 rpm: |
|---|
| Gross (SAE J1995, Gross) |
| Low Curve |
| High Curve173 hp (129kW)*2 |
| Net (SAE J1349) |
| Low Curve140 hp (104 kW)*I |
| High Curve163 hp (119kW)*2 |
| Make FPT |
| ModelF4HE9684LTIER3 |
| CompliantEPA |
| TIER3 Certified |
| Number of cylinders6 (in line) |
| Bore x stroke (mm)104 X 132 |
| Displacement (litres) 5.9 6.7 |
| Maximum rotation (rpm) |
| Maximum torque at 1,500 rpm: |
| Gross (SAE J1995, Gross) |
| Low Curve |
| High Curve758 Nm*2 |
| Net (SAE J1349) |
| Low Curve 591 Nm*1 |
| High Curve |
| FanHydraulic |
| Type Diesel, 4 stroke, direct injection, turbocharged |

Notes: *I Gears 1st, 2nd F e 1st,2nd R
*2 Gears 3rd, 4th, 5th, 6th F e 3rd R



OPERATING WEIGHT (Kg)

Machine with a full fuel tank, operator, equipped with a closed cab ROPS / FOPS.

| Weight: basic machine | 14,605 |
|-----------------------|--------|
| Front axle | 4.496 |
| Rear axle | |
| Maximum weight | 16,395 |
| Front axle | |
| Rear axle | |



ELECTRICAL SYSTEM

| Voltage (V) | 24 |
|--------------------------------------|-----|
| Amount of batteries | |
| Total capacity of the batteries (Ah) | 100 |
| Alternator | |



TRASMISSION

Powershift Type with torque converter equipped with Lockup. Electronic control with 6 speed forward and 3 speeds in reverse. Protection against direction changes, over speeding and downshifting. Electronic Monitoring of failures and auxiliary system of moving in case of failure (Go Home).

| | Gear | Speed (km/h) |
|------------------------|---------|--------------|
| | Forward | Reverse |
| st | 4.4 | 4.6 |
| 2 nd | 6.8 | 11 |
| 3 rd | 10.5 | 25.7 |
| 4 th | 16.2 | |
| 5 th | 24.4 | |
| 6 th | 37.6 | |



TANDEMS

| Structure in a welded rectangular profile | |
|---|----------|
| Thickness of the plates (internal/external) | 19 mm |
| Oscillation (for each side) | 20° |
| Drive chain pitch | |
| Spacing between the axles of the tandem | 1,572 mm |
| Interchangeable gears and shafts, mounted on tapered re | oller |
| bearings. | |



FRONT AXLE

Structure in closed box with highly resistant welded steel plates, assembled with bearings.

| Wheel lean (to the right and left) | 15° |
|--|-----|
| Oscillation angle of the axle (each way) | |
| Ground clearance | |



REAR AXLE

Cast iron housing for harsh applications. Heat-treated steel axles, assembled with tapered roller bearings.

| Ground clearance. | | 374 mm |
|-------------------|-------------------------------------|-------------|
| Differential | Super Max Trac with automatic torqu | ue transfer |



CIRCLE



CENTRAL BLADE

Exclusive Roll Away involute profile, with replaceable knives and cutting edges. Control of side and angular shifting hydraulically operated.

Available dimensions

Cutting depth (ground penetration)

| (length x height x thickness) | $3,658 \times 622 \times 22 \text{ mm (STD)}$ |
|-------------------------------|---|
| , | $3,962 \times 671 \times 22 \text{ mm (OPC)}$ |
| | 4,267 x 671 x 22 mm (OPC) |
| Maximum lift above ground | 444 mm |

| Cutting depth (ground penetration) | |
|------------------------------------|--------|
| Blade side shift | |
| Left | 533 mm |
| Diaha | 404 mm |

Maximum side reach apart from the wheels with displacement of the circle and saddle turned to the last position

| Right | 1,912 mm |
|-------|----------|
| Left | 1,715 mm |

Note 1: For the blade to reach with the machine articulated at 25° 684 mm must be added to any dimension.

Note 2: Machines with tires and blades in the STD setting.

711 mm



HYDRAULIC SYSTEM

Controls fully hydraulic, and load sensing type. Closed centre circuits. Blade lift cylinders assembled on the saddle. Locking system of the saddle through a hydraulic cylinder controlled by a solenoid valve activated by a switch located on the side panel. Relief valves and retention for all commands.

Pump type _____Axial Piston



ATTACHMENTS

| Hydraulic pump flow at 2,200 rpm | n191,5 l/min |
|----------------------------------|--------------|
| Maximum pressure of the system | |



STEERING

| TypeHy | |
|--|-----|
| Steering angle (left and right) | |
| Supplementary steering integrated to the steering system | |
| Articulation | |
| Articulation angle (to the right and left) | 25° |
| Number of cylinders | |
| Turning radius (measured from the outside of the tires) | |



BRAKES

Service brakes

Multidisc, oil bathed, located on the 4 wheel hubs, auto-adjustable with two circuits (one for each side of the axle) and nitrogen accumulators that allow the operator to stop the machine in case of a pressure drop in the hydraulic system of the brake or the diesel engine dying.

| Pump type | Gears |
|-------------------------|----------|
| Pump flow at 2,200 rpm | 42 l/min |
| Maximum pressure | |
| Braking area (4 wheels) | |
| | |

Parking brakes

Independent, disk type coupled to the output shaft of the transmission, which operates on the four rear wheels and the protection device that prevents the movement of the machine with the parking brake applied. Manual operation.



WHEELS (TYRES AND RIMS)

| 9" Rim | I-piece/14x24 Tire - 12L - G2-tubeless (STD) |
|------------|--|
| 10" Rim | |
| 13" Rim | I-piece/17.5x25 Tire - 12L - L2 – tubeless |
| 14" Rim | 3-piece/17.5x25 Tire - 12L - L2 – tubeless |
| 14" Rim | 3-piece/17.5x25 Tire - 16L - L3 – tubeless |
| 9" Rim I- | piece/14x24 Tire - 12L - L2 - RADIAL XGLA2 |
| 10" Rim 3- | piece/14x24 Tire - 12L - L2 - RADIAL XGLA2 |
| 9" Rim | I-piece with valve |
| 13" Rim | I-piece with valve |
| 10" Rim | 3-piece with valve |
| 14" Rim | 3-piece with valve |



REFUELLING CAPACITIES

| Fuel reservoir | 3411 |
|-------------------------------------|------|
| Engine cooling system | 40 I |
| Hydraulic system | |
| Total | 1801 |
| Reservoir | 90 I |
| Diesel motor engine oil with filter | 18,5 |
| Differential /rear axle | 40 I |
| Tandem housing (each) | 60 I |
| Turning circle gear box | 2,8 |
| Transmission with filter | 211 |



ACCESSORIES

Front scarifier

| i i one scarmer | |
|--------------------------------------|------------------------------|
| Front assembly of parallelogram type | |
| Maximum cutting width | 1.168 mm |
| Maximum penetration | 318 mm |
| Number of teeth | 5 or 11 |
| Spacing between teeth | |
| 5 teeth | |
| II teeth | 115 mm |
| Maximum elevation from soil | 527 mm |
| Weight | 570 kg (w/ 5 teeth) |
| Length of the machine with scarifier | 9,449 mm |
| Rear ripper | |
| Туре | Parallelogram, rear assembly |
| Weight | 985 kg |
| Number of teeth | 3 or 5 |
| Maximum penetration | 437 mm |
| | |

Length of the machine with retracted ripper9,550 mm



FRONT BLADE



HIGH OPEN CAB ROPS / FOPS CONTAINING

Vinyl seat with mechanical suspension

Safety seat-belt of 2"

Manual throttle

Foot accelerator

General switch

Adjustable steering column

Access stairs on both sides

Front windshield wiper

Ceiling light

Internal and external rear-view mirrors

12-volt plug-in (*)

The closed cabs also have cup holders and a provision for radio and speakers. The closed luxury cabs also have inside front wipers and rear wipers, hook to hang a jacket and rear curtain.

All of the ROPS / FOPS cabs are certified according to SAE J1040 (ROPS) and SAE J231 (FOPS) norms.

■ INSTRUMENTS

Hour meter, tachometer, and speedometer Indicator display of gears and diagnosis of transmission failures

■ INDICATOR LEDS ON THE CENTRAL PANEL

Direction and warning

High beam

Engine oil pressure

Transmission oil pressure

Load pressure of the brake accumulators

Engine water temperature

Transmission oil temperature

Hydraulic oil temperature

Engine air filter restriction

Transmission filter restriction

Hydraulic filter restriction

Battery charge

Parking brake applied

■ GAUGES ON THE SIDE PANEL

Fuel gauge

Engine oil pressure gauge

Transmission oil pressure gauge

Engine water temperature gauge

Transmission oil temperature gauge

Traction bar / Standard Circle

■ ELECTRICAL SYSTEM

80 A alternator

2 x 12V Batteries

Horn

Hydraulic gear pump (hydraulic attachment)

Hydraulic controls of blade elevation, turning circle, side displacement of the circle, wheel tilt, side displacement and tilt of the blade, chassis articulation and front and rear accessories

Hydrostatic steering

EDM (Electronic Data Monitor) for monitoring the vital

functions of the machine

Super Max Trac rear axle differential

Air filter with cyclonic dust ejector

Parking brake with warning light

Service brake in oil bath (auto-adjustable)

Work lights assembled on the cab (2 rear ones)

Front lights (2) with turn signal lights

Working lights on the central blade (2)

Brake light

Turn signal lights

12-foot blade

Windshield wipers

5-position saddle

Transmission monitoring system

Basic tool box

Lock valves of the hydraulic cylinders

9" Rim- I-piece

14x24 Tires 12L - G2 - tubeless

Motor FPT NEF 6.7 liters

^(*) Item available only in closed cabins

EQUIPMEDITIONAL

■ CAB

High closed cab without radio ROPS / FOPS Luxury high closed cab with radio ROPS / FOPS Luxury high closed cab without radio ROPS / FOPS Luxury low closed cab with radio ROPS / FOPS Luxury low closed cab without radio ROPS / FOPS

OTHERS

Ventilation box for closed cab Heater for closed cab Air-conditioner for closed cab Noise insulation for closed cab Fire extinguisher Inside windshield wipers Rear windshield wiper

DRAW BAR

Drawbar / Heavy Circle - Heavy Duty

■ FRONT ATTACHMENT

Front blade
Push plate
Front scarifier with 5 teeth
6 additional teeth of the front scarifier
Front traction hook
Front blade floatation electrovalve Slip shoe of the front blade: Front counterweight

■ BLADE 13' BLADE 14' BLADE

Extension of the front blade - I' Extension of the left blade - I'
Heavy Duty blade corner - additional

■ REAR ATTACHMENT

Light ripper with 5 teeth Rear traction hook 2 additional teeth
Support for machine lifting

■ WORK LIGHTS

blade

- 2 front lights on the top part of the cab
- 2 front working lights on the central blade
- 2 working lights of the front attachment

■ LOCK/FLOATATION/ANTI-SHOCK - CENTRAL BLADE AND CIRCLE

Lock valve of the central blade lifting cylinder Central blade floatation electrovalve (incorporates the lock valve)

Anti-shock electrovalve with 2 accumulators for central

Anti-shock electrovalve with 3 accumulators for central blade and circle

■ SEAT / SAFETY SEAT BELT

Vinyl seat with mechanical suspension - extra quality Fabric seat with mechanical suspension Fabric seat with pneumatic mechanical suspension Safety seat-belt - 3"

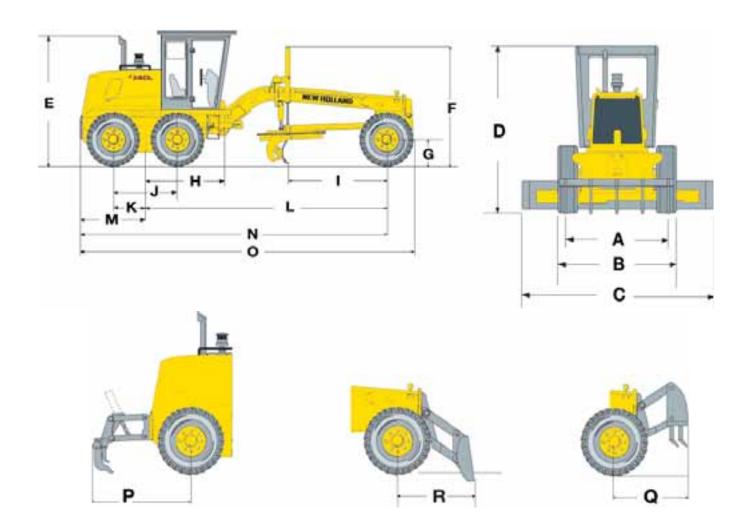
■ OTHER OPTIONS BEACON LIGHT LUXURY TOOL BOX

Box without tools with support, fixed on the previous chassis

Slow-moving symbol Electric pump to fill a tire Support for spare tire Hydraulic pump of axial pistons Reverse alarm

Note: The standard equipment and its options may vary depending on the selling location of the machine. Check your dealer for more information.

SPECIFICATIONS



| SP | ECIFICATIONS | | |
|----|---|----|-------|
| Α | Track | mm | 2.106 |
| В | Width on the outside of the tires | mm | 2.499 |
| С | Blade width | mm | 3.658 |
| D | Height until the top of the cab | | |
| | High profile cab | mm | 3.340 |
| | Low profile cab | mm | 3.140 |
| E | Height until the top of the escape tube | mm | 3.323 |
| F | Height to the top of the blade lift cylinder | mm | 3.047 |
| G | Tire static radius | mm | 610 |
| Н | Distance between the tandem axle to the chassis articulation pin | mm | 1.958 |
| 1 | Distance between the front axle and the blade | mm | 2.562 |
| J | Distance between the tandem axles | mm | 1.572 |
| K | Distance between the tandem axle and wheel | mm | 786 |
| L | Distance between axles | mm | 6.219 |
| M | Distance between the tandem axle and the rear of the equipment | mm | 1.649 |
| N | Distance between the front wheel axle and the rear of the equipment | mm | 7.868 |
| 0 | Overall length | mm | 8.534 |
| P | Distance between the rear tires and ripper | mm | 2.028 |
| Q | Distance between the front tires and scarifiers | mm | 1.520 |
| R | Distance between the front tires and front blade | mm | 1.626 |
| | Turning radius (outside of the tires)* | mm | 7.250 |

After Sales of New Holland's Authorised Network. HIGH PERFORMANCE AND PRODUCTIVITY WARRANTY



New Holland's Authorised Network offers specialised services, professionals rigorously trained by the factory and genuine parts with guaranteed quality and origin, in addition to full support in the purchase of your equipment and financing facility. New Holland's After-Sales service is available to guide you and present the best options for contracting authorised services and purchasing parts. With it, you can ensure high performance and the best performance of your machine with all the safety and lowest cost/benefit. To get full access to productivity and high technology that only New Holland offers, count on New Holland's After-Sales Network.

AT YOUR OWN DEALERSHIP

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