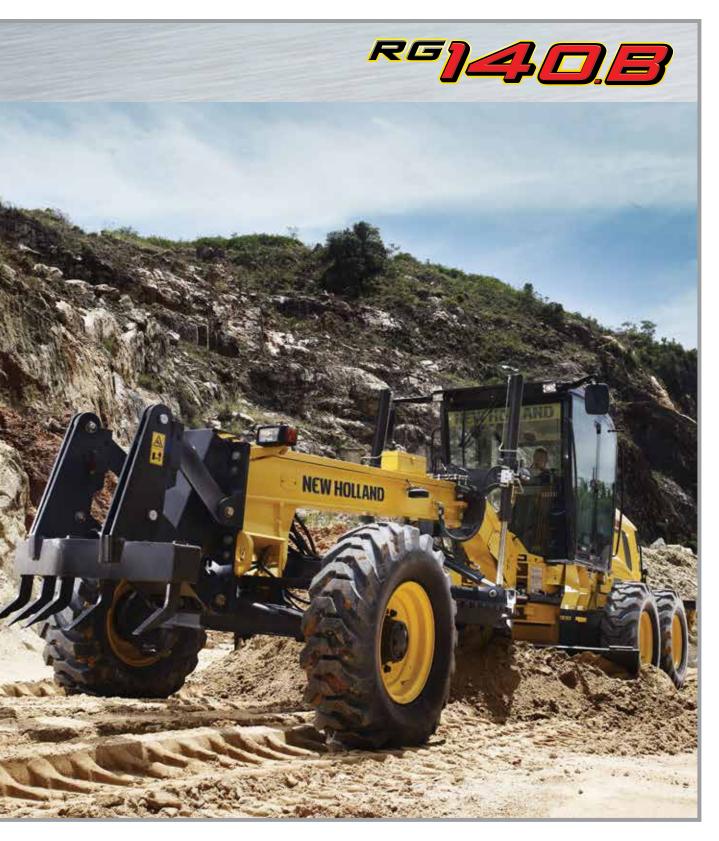
S NEW HOLLAND



NET HORSEPOWER (SAE J1349) 40 to 160 hp (104 to 118 kW)

BASIC OPERATING WEIGHT 14.605 kg

MAXIMUM OPERATING WEIGHT 16.395 kg



he strength of New Holland globally is in the high technology level, efficiency, and quality standards of their machines. The local solutions that New Holland introduces to the segments in which it operates consolidate the excellence of its brand in the global construction market.

he RG140.B grader is a machine whose high levels of technology and efficiency set it apart, with very accurate hydraulic controls, chassis articulation in front of the cab, 'roll-away' central blade with an involute curve, and electronically controlled smart transmission.

ts design is modern and functional. The cab and rear hood have rounded lines and a bold style that combine harmony and solidity, providing easy access for routine maintenance.

he RG140.B is a product that meets international quality standards, is acknowledged to be very productive, and has the global strength of New Holland behind it.



POWER

ew Holland has designed the RG140.B grader's power train to withstand the most severe strain, because earthmoving activities require machines that are sturdy and very powerful, and have a high tensile load capacity. This assembly is completely built-in, offers great resistance, increased durability and, especially, a large work capacity.

ew Holland offers a 6.7 L engine, with dual power band, Tier III pollutant emission certification, and intercooler. This engine performs better and costs less to run because of the accuracy of the electronic injection management system.

he high level of technology in electronic engines includes indicator lights for their diagnosis. These enable the operator or maintenance technician to detect faults by means of codes displayed on the panel, or by connecting a laptop to the on-board computer.







POWERSHIFT TRANSMISSION

he RG140.B grader has electronically-controlled automatic Powershift transmission, connected to the engine by a torque converter system that is equipped with Lock-Up. The Lock-Up enables torque converter locking, which transforms the transmission into a direct drive system.

his means that the RG140.B grader has all the benefits of the torque converter, which is ideal for operations that require high tractive force, such as cutting hard ground and heavy ripping, with the benefits of direct drive, which is ideal for operations that require constant speed and fixed movement control, such as finishing and precision leveling operations. All this in a single product.

he gearbox has two modes of operation. Automatic mode selects the most suitable gear for the activity that the machine is performing, taking into account acceleration, ground speed, and effort. This mode also automatically changes gear as these parameters change. This enables the operator to concentrate better on his work, without worrying about gear changes.

f the operator prefers, he can set the transmission control lever to manual mode using a switch on the side console. In this case, gears are selected by means of a "bump type" lever, without the use of grooves for gear or direction. It is very simple to operate and the machine obeys the operator's commands.

TRANSMISSION CONTROL UNIT (TCU)

ELECTRONIC PROCESSOR TO INCREASE OPERATION ACCURACY

he electronic TCU processor manages all information while the transmission is operating, with greater accuracy at all stages of operation. This optimizes the operation of the assembly and ensures greater productivity, service life, and operator comfort.

he TCU ensures the integrity of the equipment by preventing faulty and incorrect operations, such as the engagement of unsuitable gears or direction changes in inappropriate gears.

he transmission also has a fault diagnosis system that indicates on the panel or on a connected laptop any problems that occur with the assembly. Extremely durable, mechanically simple, and easy to maintain, this transmission offers great reliability and unmatched performance.

GO HOME

his device automatically detects any faults that could limit or prevent the correct operation of the TCU. The Go Home feature allows the engagement of just one gear in each direction and within the suitable speed limit for that gear. This device is important as it prevents the machine becoming stuck in an unsuitable place, enabling its transportation to the workshop.

AXLES

he RG140.B grader's axles have been built for sturdiness and maximum capacity for transferring power to the ground. The front axle is manufactured in a welded steel frame, with high resistance cast iron parts, offering a wide and constant free span of 580 mm along its whole length, due to its straightness. The 12° lateral tilt of the wheels to the right or the left, and the 15° oscillation to each side enable uneven ground to be monitored.

he rear axle is made of cast iron, and the tandem frame is constructed with a rectangular section welded to steel plates. Both have been designed to withstand the most severe strain. It is fitted with a Super Max Trac limited slip differential system, with torque transfer and automatic locking. The tandem oscillation is 20° on each side.



BRAKES

he RG140.B braking system has two circuits, one for each tandem. The brakes are multi-disk, in oil bath, self-adjusting, and have a long service life.

he foot brake is hydraulically servo-assisted and has two nitrogen accumulators, one for each circuit. These accumulators allow the operator to brake the machine if a fault occurs in the hydraulic system or if the diesel engine stops.

STEERING / ARTICULATION

Gear pump-powered, hydrostatic, orbitrol steering. The steering angle of the front wheels is 42° for both sides and the chassis pivot is 25° to the right or left, which gives a turning radius of 7250 mm.

his small turning radius enables the operator to work in restricted areas more easily and perform operations on winding bends in less time. An auxiliary handle on the steering wheel enables greater agility in maneuvers.



ELECTRICAL SYSTEM

he electrical system is 24 volt and powered by two maintenance-free batteries, of 12 volts each, connected in series, with a total capacity of 100 Ah and situated in an easily accessible place. The RG140.B has a set of front, rear, and blade lights that enable the perfect lighting of the workplace.



OPERATOR CAB

CAB OPTIONS

nclosed or open, the cab is mounted on the rear chassis. This makes it easier for the operator to perform maneuvers when reversing and check directly how much the chassis is articulated. This means complete safety when working.

ROPS/FOPS ENCLOSED CAB

he enclosed cab is high and has 6.76 m2 of glass area. Its design, with all the flat faces and the lowered rear hood, ensures greater visibility. This enables better visual monitoring of work at the rear, using the ripper, and at the front, using the blade or scarifier.

- safety glass
- general switch inside the cab
- front windshield wiper with washer
- internal light
- internal rear-view mirror and two side mirrors
- radio slot, with speaker
- 12 volt electrical socket
- access from both sides
- internal ventilation system with roof baffles for increased cooling
- cup holder
- adjustable steering column
- optional: air conditioning, heater, rear windshield wiper, and rear shade curtain



ROPS/FOPS OPEN CAB

his type of cab offers much more protection and comfort than the canopy, because it protects the operator from dust raised by machines in front, as well as small amounts of rain.

- front and rear windshields
- front windshield wiper with washer
- fan
- internal rear-view mirror and two side mirrors
- internal light
- general switch inside the cab
- access from both sides
- ceiling fan
- adjustable steering column



TOTAL OPERATOR COMFORT

he RG140.B grader offers several items for operator comfort: adjustable seat with armrest and headrest, and elastic suspension that can be adjusted to the operator's weight.

he steering console can be fully adjusted to the working position of operators of any stature. The steering wheel has an optional auxiliary handle for steering with just one hand, while the other hand controls the implement. Levers with shorter strokes make controlling all implements easier and more productive.

CONTROLS, MONITOR, AND PANEL

he RG140.B grader has been ergonomically designed, with all the controls and buttons positioned within the operator's reach. The electronic data monitor (EDM) monitors all of the equipment's vital functions, and provides the operator with reliable information on how the machine is running.

he side panel has easy-to-read analog LCD screens, displaying the fuel level, and the engine and transmission oil temperature and pressure.



ACCESSORIES

MORE OPTIONS FOR MORE VERSATILITY

he RG140.B grader offers a series of options to make work easier and increase productivity: front and central blade float, rear hook, reinforced blade corners, blade extension, front push plate, spare wheel bracket, and other items that are already well-known and established on the market.

ROLL-AWAY CENTRAL BLADE WITH INVOLUTE CURVE

he RG140.B's central blade has an involute curve that causes material to roll away, making work easier and reducing the effort required by the machine. This increases productivity and reduces fuel consumption.

As standard equipment, the grader has hydraulically-activated articulation blade movement and tilt, which are indispensable for various types of work. The support lock system, which is operated by a hydraulic cylinder controlled by a solenoid valve, can be activated using a switch located on the panel.



he blade is made of highly abrasion-resistant steel, and its teeth and corners are made of boron steel, which has a longer service life. The blade circle is supported on guides with replaceable phenolic resin inserts, which dispense lubrication. Its outer teeth prevent damage to the swivel pinion when poor maintenance has led to the machine being operated with the play set inappropriately. The blade can swivel unrestricted through 360°, which provides many more work alternatives.

REAR RIPPER

he RG140.B grader has a parallelogram rear, which makes it better at breaking up hard, compacted soils.

INTERCHANGEABLE __ FRONT BLADE

his blade, with a parallelogram mechanism, is fully interchangeable with the front scarifier, which ensures that the machine is versatile in terms of applications.





SIMPLIFIED MAINTENANCE

he RG140.B's new tilting hood gives ample access for routine maintenance, such as checking the oil level and replacing the oil and air filters. It is easy to check the hydraulic oil level through the sight glass. The filler neck for the fuel reservoir is easy to access, enabling filling from the ground.

ADVICE, TECHNICAL GUIDANCE, AND CUSTOMER SERVICE PARTNERSHIP

ew Holland has a department dedicated to guidance and technical advice for its network of customers: the Customer Support Department. It offers its dealers all the support and training necessary to provide every owner of a New Holland machine with a high quality service.

ully computerized and interlinked with the network of dealers, the Customer Support Department provides real-time technical data, service bulletins, and machine warranty processing. This streamlines and ensures the accuracy of all commercial relationships with the network of dealers and their customers.

Before launching a product on the market, New Holland's engineers and technicians enter the field to train and give guidance to the entire team providing technical assistance for their dealers.

The product is only made available for sale after this stage.





ENGINE

Gross horsepower (hp) (SAE J1995) at 2200 rpm.	150/173 hp
Net horsepower (hp) (SAE J1349) at 2200 rpm.	
Brand	
Model	6.7L Tier III
Number of Cylinders	6 (em linha)
Bore and stroke (mm)	104 x 132
Engine displacement (liters).	
Maximum engine speed (rpm).	
Gross maximum torque (Nm) (SAE J1995)	659/ 758 @ 1.500 rpm
Net maximum torque (Nm) (SAE J1349)	591/678 @ 1.500 rpm
Fan	
Hydraulic Type Diesel, 4 stroke, d	lirect injection, turbocharged



OPERATING WEIGHT (KG)

Machine fully loaded, with operator, fitted with enclosed ROPS/FOPS cab.	
Weight: basic machine	5
Front Axle	3
Rear Axle	
Maximum weight	5
Front Axle	1
Rear Axle	í



ELECTRICAL SYSTEM

Voltage (V)	. 24
Number of batteries	. 12V
Total capacity of batteries (Ah)	100
Alternator	80 A
Starter / power Delco / 4.) kW



TRANSMISSION

Powershift, with torque converter, fitted with Lock-up. Electronic control with 6 forward and 3 reverse gears. Protection against direction reversal, excessive speed and reduction gears. Electronic monitoring of faults and an auxiliary motion system in the event of failure (Go Home).

	Gear Speed (km/h)	Velocidades (km/h)
	Forward	Ré
_1st	5,0	5,3
2nd	7,7	12,5
3srd	11,8	28,6
4th	18,2	
5th	27,2	
6th	41,5	



TANDEMS

Frame in weided rectangular section
Plate thickness (internal/external)
Oscillation (on each side)
Drive chain pitch angle
Spacing between tandem axles
Interchangeable shafts and gears, mounted on tapered roller bearings.



FRONT AXLE



Cast iron housing for harsh working conditions.
Heat-treated steel axles, mounted with tapered rollers.
Clearance from the ground
Differential Super Max Trac with automatic torque transfer



CHASSIS

Manufactured in an enclosed, welded housing.

Front

254 x 298 mm
153.3 kg/m
121 x 299 mm
78.3 kg/m



CIRCLE

Built from a single piece of T-section	
Outer diameter (mm)	1752
Rotation (continuous)	. 360°
Brackets (in phenolic resin, replaceable and adjustable)	4
Support area (cm ²)	2845
Hydraulic-driven slew reducer in oil bath.	



CENTRAL BLADE

Unique roll-away involute curve, with replaceable teeth and cutting edge. Hydraulically-operated side movement and angle control.

Available dimensions

length x height x width)
3962 x 671 x 22 (OPT)
4267 x 671 x 22 (OPT)
Maximum ground elevation444 mm
Maximum slope angle (both sides)
Blade tilt angle
5° backward Cutting depth711 mm
Blade lateral movement
_eft
Right
Maximum lateral range outside of the tires with circle movement and sup-
port turned into final position
Right
_eft:
Note 1: For blade reach with the machine articulated at 25°, add 684 mm to any dimension.

Note 2: Machines with tires and blades in STD configuration.



HYDRAULIC SYSTEM



IMPLEMENTS

Hydraulic pump Flow at 2200 rpm	191.5 L/min.
Maximum system pressure	214 kg/cm ²



STEERING

Type
Articulation
Articulation angle (right and left)
Number of cylinders
Turning radius (measured by outside of tires) 7,250 mm



BRAKES

Foot brake

Multi-disk in oil bath, located in 4 wheel hubs, self-adjusting, with two circuits (one for each side of the axle) and nitrogen accumulators, which allow the operator to brake the machine if the pressure drops in the brake hydraulic system or the diesel engine stops working.

origino otopo wortung.
Pump type
Pump flow at 2200 rpm
Maximum pressure
Braking area (4 wheels)

Parking brake

Independent, disk-type coupled to the transmission output shaft, which affects all four rear wheels, and a protective device that prevents the machine from moving with the parking brake applied.

Manually applied.



WHEELS (TIRES AND RIMS)

Rim 9" - one piece/Tire14x24 - 12L - G2-airless (STD)

Rim 10" - 3 piece/Tire14x24 - 12L - G2-airless

Rim 13" - one piece/Tire17.5x25 - 12L - L2 - airless

Rim 14" - 3 piece/Tire17.5x25 - 12L - L2 - airless

Rim 14" - 3 piece/Tire17.5x25 - 16L - L3 - airless

Rim 9" - one piece/Tire14x24 - 12L - L2 - RADIAL XGLA2

Rim 10" - 3 piece/Tire14x24 - 12L - L2 - RADIAL XGLA2

Rim 9" - one piece with valve

Rim 13" - one piece with valve

Rim 10" - 3 piece with valve

Rim 14" - 3 piece with valve

Rim 17" - 3 piece with valve



Fuel reservoir	l
Engine cooling system) l
Hydraulic system	
Total) l
Reservoir) l
Diesel engine oil with filter	ie
Differential) l
Tandem tank (each) 60) l
Circle slew reducer	3 6
Transmission with filter	l



Front scarifier

Parallelogram, front mounted
Maximum cutting width
Maximum penetration
Number of teeth
Spacing between teeth
5 teeth
11 teeth115 mm
Maximum distance from ground
Weight
Length of machine with scarifier 9

Rear ripper

Type	.Parallelogram, rear-mounted
Weight	625 kg
Number of teeth	
Maximum Penetration	
Maximum cutting width	
Length of machine with ripper retracted	



FRONT BLADE

Parallelogram, front-mounted, interchangeable with front scarifier. Dimensions

Width
Height953 mm
Elevation from ground
Ground penetration
Length of machine with blade retracted9423 mm
Weight

EQUIPMENT DARD

■ High open ROPS/FOPS cab containing

Vinyl seat with mechanical suspension

2" seat belt

Hand throttle

Foot throttle

General switch

Adjustable steering column

Access ladder on both sides

Front windshield wiper

Dome light

nternal rear-view mirror and side mirrors

2 volt socket (*)

(*) Only available with enclosed cabs

Enclosed cabs also have a cup holder and a radio slot with speakers. Deluxe enclosed cabs also have lower front wipers, a rear wiper, a coat hanger, and a rear curtain.

All ROPS/FOPS cabs are certified compliant with the SAE J1040 standard (ROPS) and the SAE J231 standard (FOPS).

Instruments

Hourmeter, tachometer and speedometer

Gear indicator and transmission fault diagnostic display

■ LED indicators on the central panel

Steering and warning

Full beam

Engine oil pressure

Transmission oil pressure

Brake accumulator charge pressure

Engine water temperature

Transmission oil temperature

Hydraulic oil temperature

Engine air filter clogged

Transmission filter clogged

Hydraulic filter clogged

Battery charge

Parking brake applied

Differential applied (for rear Dana axle only)

■Side panel gauges

Fuel gauge

Engine oil pressure gauge

Transmission oil pressure gauge

Engine water temperature gauge

Transmission oil temperature gauge

Drawbar / standard circle

50 A alternator

12V battery - 750 CCA

Axial piston hydraulic pump (hydraulic implements).

Hydraulic controls for lifting the blade, rotating the circle, moving the circle laterally, tilting the wheels, tilting and laterally moving the blade, articulating the chassis, and operating the front and rear accessories

Hydrostatic steering

EDM (electronic data monitor) for monitoring the machine's vital functions

Super Max Trac rear axle

Air filter with cyclonic dust ejector

Parking brake with warning light

Foot brake in oil bath

Cab-mounted work lights (2 rear) Headlights (2) with direction

Work lights on the central blade (2) Brake light

Direction indicators 12 foot blade Windshield wipers 5 position support

Transmission monitoring system

Basic toolbox

Hydraulic cylinder lockout valves

Rim 9" - one piece

Tires 14x24 12L - G2 - airless New Holland 6.7L Tier III engine

ΓΙΟΝΑ

■ Cab

Open ROPS cab

Low enclosed cab with fixed windshield Low enclosed cab with movable windshield High enclosed cab with fixed windshield High enclosed cab with movable windshield

Others

Heater for enclosed cab

Air conditioning for enclosed cab Soundproofing for enclosed cab Fire extinguisher

Lower windshield wipers

Rear windshield wiper

Drawbar

Drawbar / Heavy duty circle

■ Rear axle

Electrohydraulic 100% differential lock

Tandem lock

Front implement

Front blade

Push plate

5 tooth front scarifier

6 additional teeth for front scarifier

Front tow hook

Front blade float electrovalve

Front blade slip shoe

Front counterweight

■ Blade

13' blade

14' blade

Right-hand blade extension - 1

Left-hand blade extension – 1'

Heavy duty blade corner - additional

Rear implement

Light 5 tooth rear ripper

Rear tow hook

Support for lifting the machine

■ Work lights

2 headlights on top of the cab

2 work lights behind the central blade

2 work lights for the front implement

Lock/float/anti-shock - central blade and circle

Central blade lift cylinder lockout valve Central

blade float electrovalve (incorporates the lockout valve)

Anti-shock electrovalve with 2 accumulators for the central blade

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

Seat / Seat belt

Vinyl seat with mechanical suspension - extra quality

Fabric seat with mechanical suspension

Fabric seat with pneumatic-mechanical suspension Seat belt - 3"

Other options

USA beacon

De luxe toolbox

Supported box with no tools, secured to rear chassis

Slow moving vehicle symbol

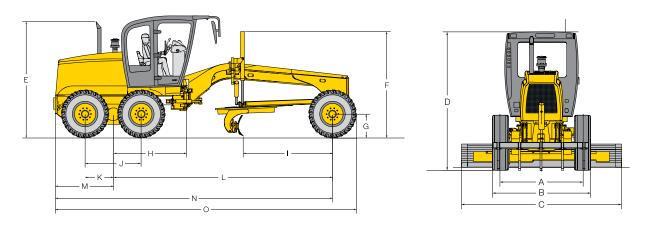
Electric tire pump

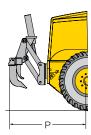
Spare tire bracket

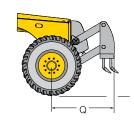
Axial piston hydraulic pump

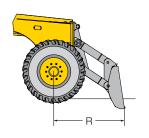
Note: The standard and optional equipment may vary, depending on where the machine is being sold. See your dealer for more information.

SPECIFICATIONS G 4 0 B









mm

Т	Track	2,106
В	Width on outside of tires	2,499
С	Blade width	3,658
D	Height to top of cab	
	High profile cab	3,340
	Low profile cab	3,140
Т	Height to top of blade lift cylinder	3,323
F	Height to top of blade lift cylinder	3.047
G	Tire static radius	610
Н	Distance between tandem axle and chassis articulation pin	1,958
1	Distance between front axle and blade	2,562
J	Distance between tandem axles	1,572
K	Distance between tandem axle and blade	786
L	Distance between axles	6,219
M	Distance between tandem axle and rear of equipment	1,649
N	Distance between front wheel axle and rear of equipment	7,868
0	Total Length	8,534
Р	Distance between rear tires and ripper	2,028
Q	Distance between front tires and scarifier	1,520
R	Distance between front tires and front blade	1,626
	Turning radius (outside of tires)*	7,250

 $^{^{\}star}$ Measurements based on the default configuration, with tire 14 x 24 - 12 ply.

PARTS AND SERVICE

The New Holland dealer network is, in itself, the best guarantee of continued productivity for the machines it delivers to its customers.

New Holland service technicians are fully equipped to resolve all maintenance and repair issues, with each and every service point providing the high standards they are obliged to observe under New Holland's stringent quality guidelines.

The New Holland global parts network ensures fast, reliable, replacement parts for less downtime, increased productivity and, of course, profitable operation for its customers.



AT YOUR OWN DEALERSHIP

The information contained in this brochure is intended to be of general nature only. The NEW HOLLAND KOBELCO CONSTRUCTION MACHINERY S.p.A. company may at any time and from time to time, for technical or other necessary reasons, modify any of the details or specifications of the product described in this brochure. Illustrations do not necessarily show products in standard conditions. The dimensions, weights and capacities shown herein, as well as any conversion data used, are approximate only and are subject to variations within normal manufacturing techniques.

NC-R14-IO1 - 09/2013

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