



NEW HOLLAND

W270_B



MAXIMUM POWER	239 kW - 320 hp
OPERATING WEIGHT	23 170 kg
BUCKET CAPACITY	4.0 - 4.6 m ³

 **NEW HOLLAND**
CONSTRUCTION
BUILT AROUND YOU

W270B SPECIFICATIONS



ENGINE TIER 3A

Maximum power (ISO 14396/ECE R 120-SAE J 1995)239 kW/320 hp
 Net flywheel power (SAE J1349).....221 kW/296 hp
 Rated engine speed2100 rpm
 Make and modelCUMMINS QSM11-C
 Type ...Diesel, 4 Stroke, electronic injection, turbocharged, aftercooled
 Total displacement10.8 l
 N° of cylinders6
 Bore x stroke125 x 147 mm
 Maximum torque at 1000 rpm.....145 daNm
 Lubrication with gear pump.

The engine conforms to European requirements for "low exhaust emission" in accordance with directive 97/68/EC TIER 3A.



ENGINE MULTIPLE WORK MODES

This latest generation CUMMINS TIER 3A engine, electronically controlled, features **multiple work modes**. According to the type of application, the operator can select the following engine power modes:

- **Maximum power**239 kW/320 hp, for very tough conditions
- **Standard power**221 kW/296 hp, for normal loading conditions
- **Economy power**....179 kW/240 hp, for light load & carry applications
- **Automatic power mode:** to automatically match the power curve to the application.

Perfect electronic control to get the best performances in every type of job while contributing to reduce fuel consumption.



ELECTRICAL SYSTEM

Voltage24 V
 Batteries, in series2
 - Total capacity160 Ah
 - Type.....maintenance-free
 Starter motor7.8 kW
 Alternator capacity95 A



TORQUE CONVERTER

Type.....ZF, single stage / single phase
 Torque multiplication ratio2.99 : 1



TRANSMISSION

Type: ZF Power-Shift countershaft design with four forward and three reverse speeds.

Control: single lever electric "fingertip" type.

Forward speeds.....km/h
 18.0
 213.2
 325.8
 437.4
 Reverse speeds
 18.0
 214.1
 325.8
 with 26.5 x 25 L3 tyres

Safety device prevents engine starting in gear

Automatic Transmission Control (A.T.C.): allows the operator to dedicate attention to the work cycle.

The on-board computer automatically finds the right gear in relation to the type of work.

"**HOLD**" function to maintain selected speed with the machine operating on a slope.

"**KICK-DOWN**" function to shift from 2nd to 1st gear when high pushability is required.

"**DOWN-SHIFT**" function to select the most suitable speed with the machine on a slope. Low gears favour the use of the engine brake function and consequently reduce brake use.

Forward and reverse control switch.



AXLES

ZF rigid front axle, oscillating rear axle designed for heavy duty applications.

Rear axle oscillation.....24°

Rear wheel vertical travel480 mm

"Limited Slip" differentials.

Hermetically sealed final drives and wet disc brakes.



BRAKES

Service brakes.....self-adjusting

Typewet disc brakes on all four wheels

Servo-assisted hydraulic brake circuit.

Independent circuit for each axle.

Control pedal located to left of steering column.

Electrical transmission disengagement switch.

The brake circuit complies with the following international standards:

ISO 3450, CEE 71/320, SAE J1473

Parking brake: spring applied hydraulically released caliper disc brake on trasmission output shaft.

Electrical control by means of switch in cab.



TYRES

Type.....Tubeless

Radial26.5 R-25 XHA TL

26.5-25 GP-2B

26.5-25 XLDD2

750/65R25XLD



HYDRAULIC SYSTEM

Type.....load sensing circuit, closed centre

Pumps2 - variable displacement -axial pistons

feeding the integrated implement and steering system

Max. flow delivery.....324 l/min

Max. working pressure248 bar

Control valve2 spool

3 spool

Controlpiloted dual lever

piloted, single lever

Double-acting hydraulic cylinders

Booms2

Bore x stroke165 x 870 mm

Bucket.....1

Bore x stroke180 x 745 mm

Operating time

Lift6.2 s

Lower empty.....3.0 s

Dump3.6 s

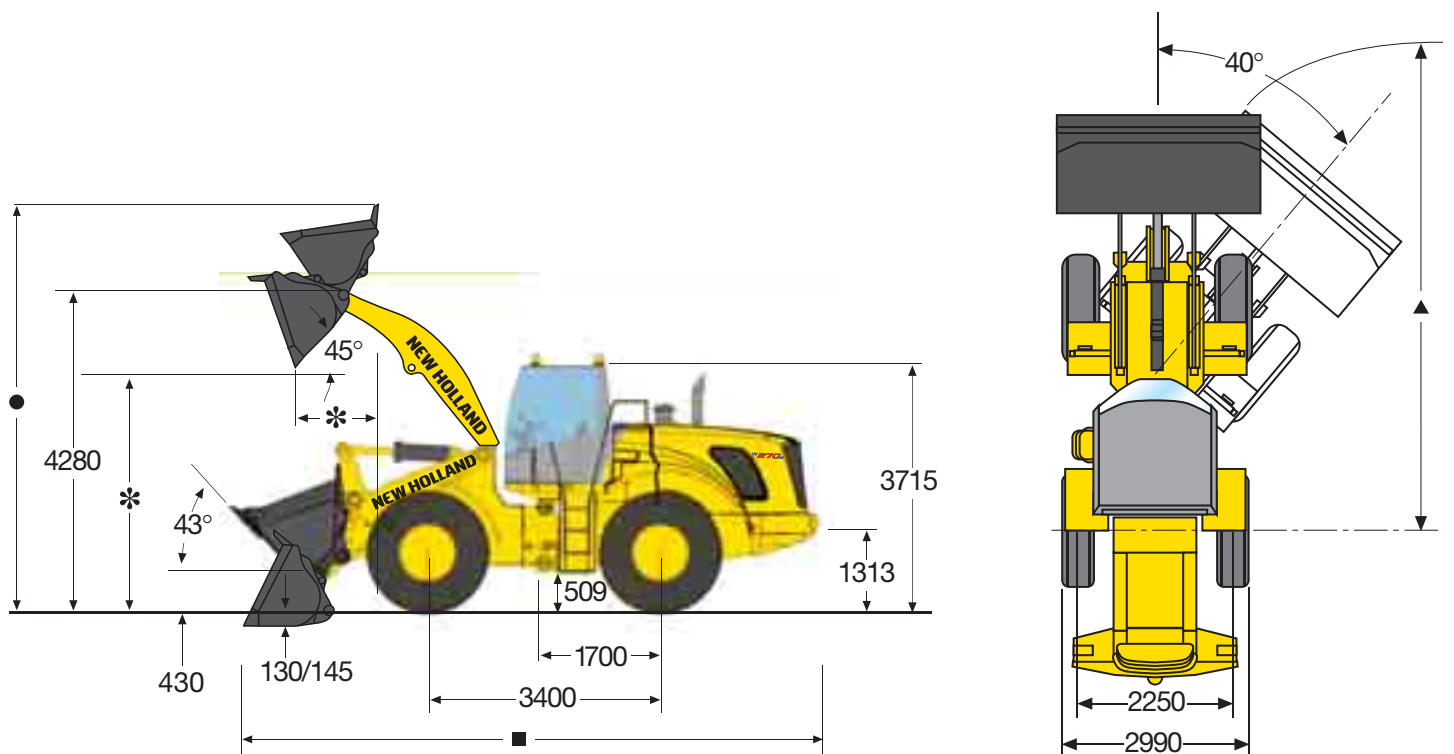
Hydraulic lines and connecting flanges are equipped with O-ring seals.

L.T.S. device

Load Travel Stabiliser. Invaluable for loading and transport on uneven terrain.

W270B

DIMENSIONS mm



PERFORMANCE

GENERAL PURPOSE

BUCKET TYPE		WITH TEETH AND SEGMENTS		WITH CUTTING EDGE EXTENSION		WITH TEETH	
Bucket capacity	m ³	4.1	4.5	4.1	4.6	4.0	4.4
Bucket weight	kg	2270	2400	2145	2270	2090	2220
Bucket width	mm	3045	3200	3020	3070	3045	3200
Dump height at 45° *	mm	3015	2970	3110	3070	3015	2970
Reach at 45° *	mm	1340	1365	1265	1285	1340	1365
Overall length (bucket on ground) ■	mm	8895	8955	8760	8815	8895	8955
Overall height (bucket raised) ●	mm	5833	5895	5833	5895	5833	5895
Turning radius ▲ (bucket at carry position)	m	6.8	6.9	6.8	6.8	6.8	6.9
Breakout force	daN	20600	19800	19700	19100	22700	21500
Static tipping load: 0°	kg	19350	19300	19450	19370	19500	19400
40°	kg	16760	16700	16870	16800	16900	16850
Max operating weight	kg	23470	23560	23370	23480	23280	23380

* At bucket cutting edge

TIPPING LOAD AND WEIGHT VARIATIONS		WEIGHT	TIPPING LOAD 0°	40°
26.5-25 L4	kg	+501	+48	+30
26.5-25 L5	kg	+695	+205	+169

Note: All performance data and specifications based on a unit with 26.5R25XHATL radial tyres, ROPS cab, full fuel and operator. All data is obtained in compliance with the latest applicable SAE Recommended Practices including J732c, J742b and ISO 6746/1, ISO 6746/2 and ISO 8313.

W270B

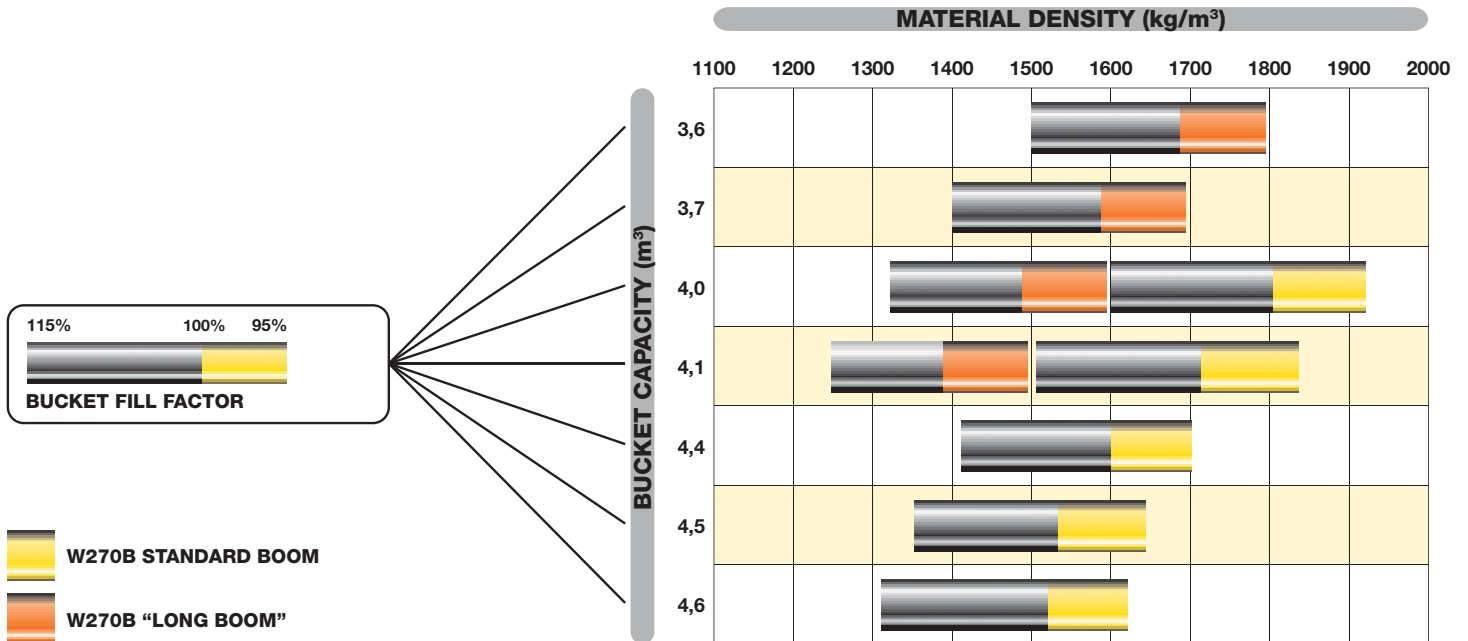
PERFORMANCE “LONG BOOM”

GENERAL PURPOSE

BUCKET TYPE		WITH CUTTING EDGE EXTENSION
Bucket capacity	m ³	4.1
Bucket weight	kg	2145
Bucket width	mm	3020
Dump height at 45°	mm	3110
Reach at 45° (at 2130 mm height)	mm	1900
Overall length (bucket on ground)	mm	8755
Overall height (bucket raised)	mm	5835
Turning radius (at bucket edge)	m	6.78
Breakout force	kg	20775
Static tipping load:	kg	
0°		19600
40°		16870
Operating weight	kg	22920



BUCKET SELECTIONS





STEERING

Type**Orbitrol**, hydraulically actuated with priority valve
 Pump.....utilises one of the hydraulic pumps
 Max. flow rate162 l/min
 Max. working pressure248 bar
 Cylinders2, double acting
 Bore x stroke89 x 477 mm
 Emergency steering circuit with electric engine activated by onboard computer.



CAB

ROPS/FOPS modular cab.

Excellent, all-round, visibility.

The ROPS/FOPS cab complies with the following standards:

ROPS - EN 13510

FOPS - EN ISO 3449



CAPACITIES

	Litres
Lube oil	37
Coolant	57
Fuel tank	394
TRANSMISSION	
Hydraulic system	242
AXLES:front/rear.....	47/53



NEW HOLLAND. THE POWER OF A GLOBAL BRAND

New Holland is a global brand with a key position in the Construction Equipment business. It supplies a **complete range of 13 product lines and 80 basic models** split into **Compact line** and **Heavy line**. It operates in all the main markets, such as **Europe, North and Latin America, Africa, Asia and Middle East** with the same technology and under the same logo and brand. It manufactures **durable, safe and productive** machines aimed at supporting customers in developing their own business. **Dealers are company partners**. They play an important role to support the brand in their territories through intense professional relationship with Customers. New Holland is reinforced by its **global alliance with Kobelco**: world leader in hydraulic excavator technology.



AT YOUR OWN DEALERSHIP

The information contained in this brochure is intended to be a 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.

Published by NEW HOLLAND KOBELCO CONSTRUCTION MACHINERY S.p.A.
Printed in Italy - LEADER Firenze - Cod. 73301 342GB - Printed 05/08

Printed on recycled paper
CoC-FSC 000010 CQ Mixed sources



ELEMENTAL
CHLORINE
FREE
GUARANTEED

FIAT
GROUP



www.newholland.com

BUILT AROUND YOU