



# NEW HOLLAND

## W270<sub>B</sub>



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

 **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 speed .....2100 rpm  
 Make and model .....CUMMINS QSM11-C  
 Type ...Diesel, 4 Stroke, electronic injection, turbocharged, aftercooled  
 Total displacement .....10.8 l  
 N° of cylinders .....6  
 Bore x stroke .....125 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

Voltage .....24 V  
 Batteries, in series .....2  
 - Total capacity .....160 Ah  
 - Type.....maintenance-free  
 Starter motor .....7.8 kW  
 Alternator capacity .....95 A



## TORQUE CONVERTER

Type.....ZF, single stage / single phase  
 Torque multiplication ratio .....2.99 : 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  
 1 .....8.0  
 2 .....13.2  
 3 .....25.8  
 4 .....37.4  
 Reverse speeds  
 1 .....8.0  
 2 .....14.1  
 3 .....25.8  
 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 travel .....480 mm

"Limited Slip" differentials.

Hermetically sealed final drives and wet disc brakes.



## BRAKES

**Service brakes**.....self-adjusting

Type .....wet 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 transmission output shaft.

Electrical control by means of switch in cab.



## TYRES

Type.....Tubeless

Radial .....26.5 R-25 XHA TL

26.5-25 GP-2B

26.5-25 XLDD2

750/65R25XLD



## HYDRAULIC SYSTEM

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

Pumps .....2 - variable displacement -axial pistons feeding the integrated implement and steering system

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

Max. working pressure .....248 bar

Control valve .....2 spool

3 spool

Control .....piloted dual lever

piloted, single lever

Double-acting hydraulic cylinders

Booms .....2

Bore x stroke .....165 x 870 mm

Bucket.....1

Bore x stroke .....180 x 745 mm

Operating time

Lift .....6.2 s

Lower empty.....3.0 s

Dump .....3.6 s

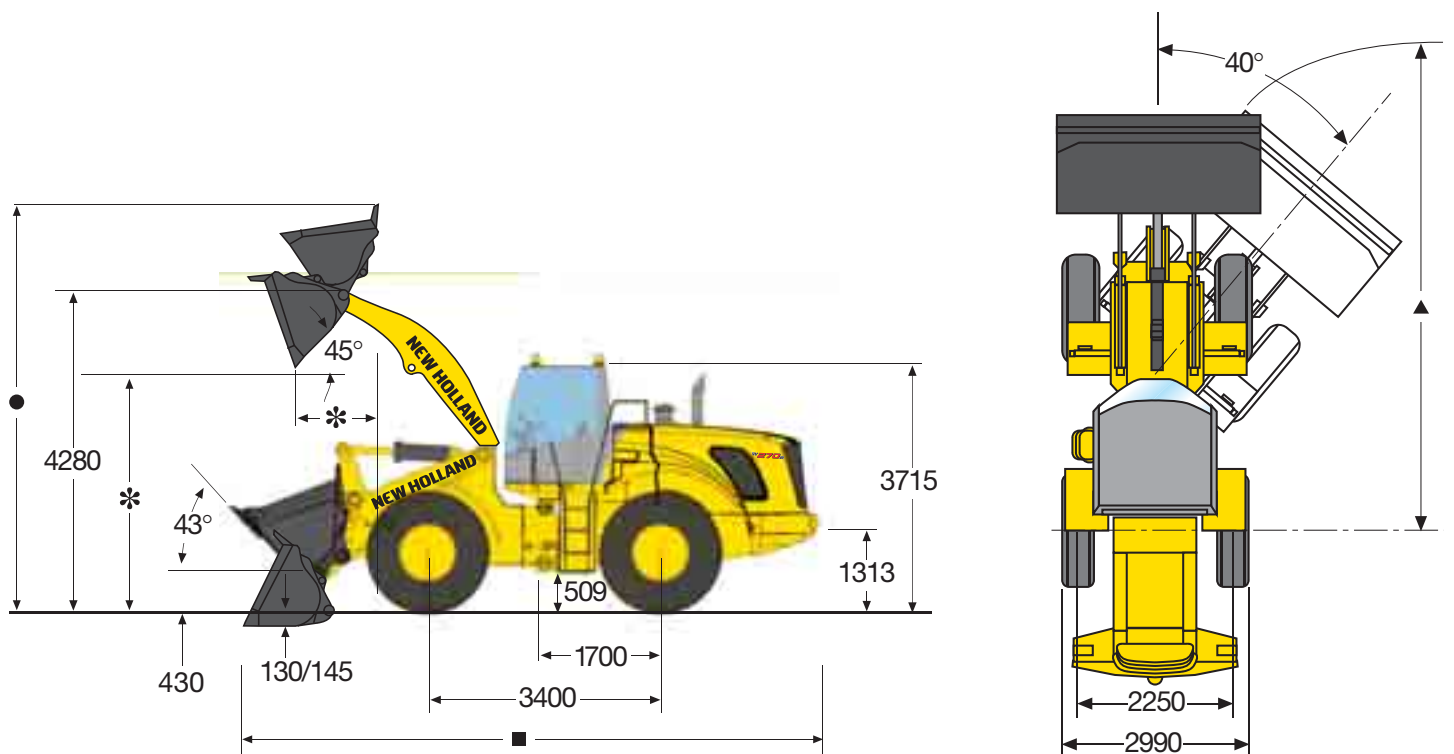
Hydraulic lines and connecting flanges are equipped with O-ring seals.

**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 <sup>3</sup>	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

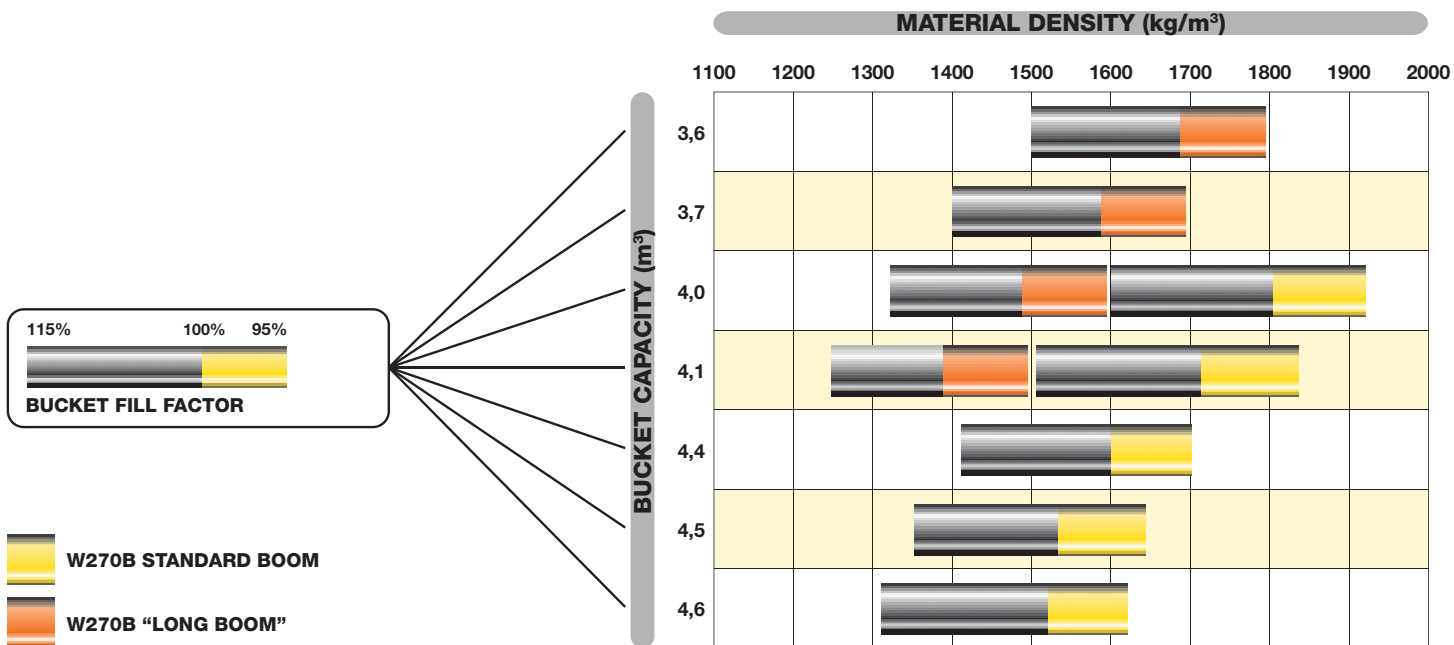
## PERFORMANCE “LONG BOOM”

### GENERAL PURPOSE

BUCKET TYPE		WITH CUTTING EDGE EXTENSION
Bucket capacity	m <sup>3</sup>	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	19600
0°		
40°	kg	16870
Operating weight	kg	22920



## BUCKET SELECTIONS





## STEERING

Type .....**Orbitrol**, hydraulically actuated with priority valve  
 Pump.....utilises one of the hydraulic pumps  
 Max. flow rate .....162 l/min  
 Max. working pressure .....248 bar  
 Cylinders .....2, double acting  
 Bore x stroke .....89 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
<b>TRANSMISSION</b>	
Hydraulic system .....	242
AXLES:front/rear.....	47/53



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Published by NEW HOLLAND KOBELCO CONSTRUCTION MACHINERY S.p.A.  
Printed in Italy - LEADER Firenze - Cod. 73301 342GB - Printed 02/08

Printed on recycled paper  
CoC-FSC 000010 CQ Mixed sources



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