



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).....	195 kW/261 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

"Limited Slip" differentials.

Hermetically sealed final drives and wet disc brakes.



BRAKES

Service brakes.....self-adjusting

Type

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.....

Radial

26.5 R-25 XHA TL

26.5-25 GP-2B

26.5-25 XLDD2

750/65R25XLD



HYDRAULIC SYSTEM

Type.....

Pumps

Max. flow delivery.....

Max. working pressure

Control valve

3 spool

Control

3 spool

Control

Double-acting hydraulic cylinders

Booms

Bore x stroke

Bucket.....

Bore x stroke

Operating time

Lift

Lower empty.....

Dump

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.



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

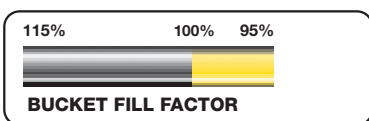
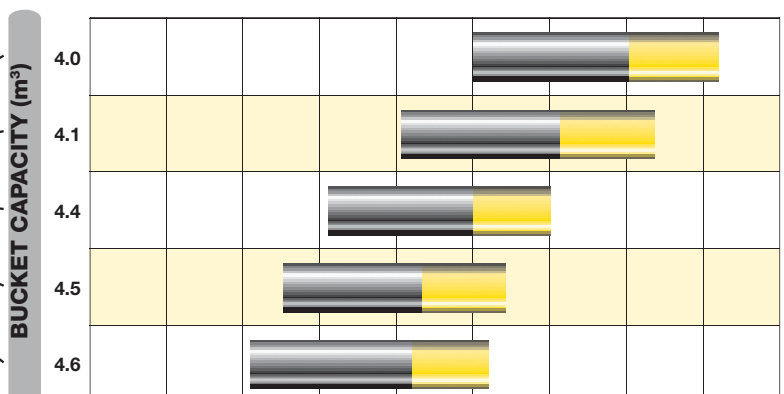
	Litres
Lube oil	37
Coolant	57
Fuel tank	394
TRANSMISSION	
Hydraulic system	242
AXLES:front/rear.....	47/53



BUCKET SELECTIONS

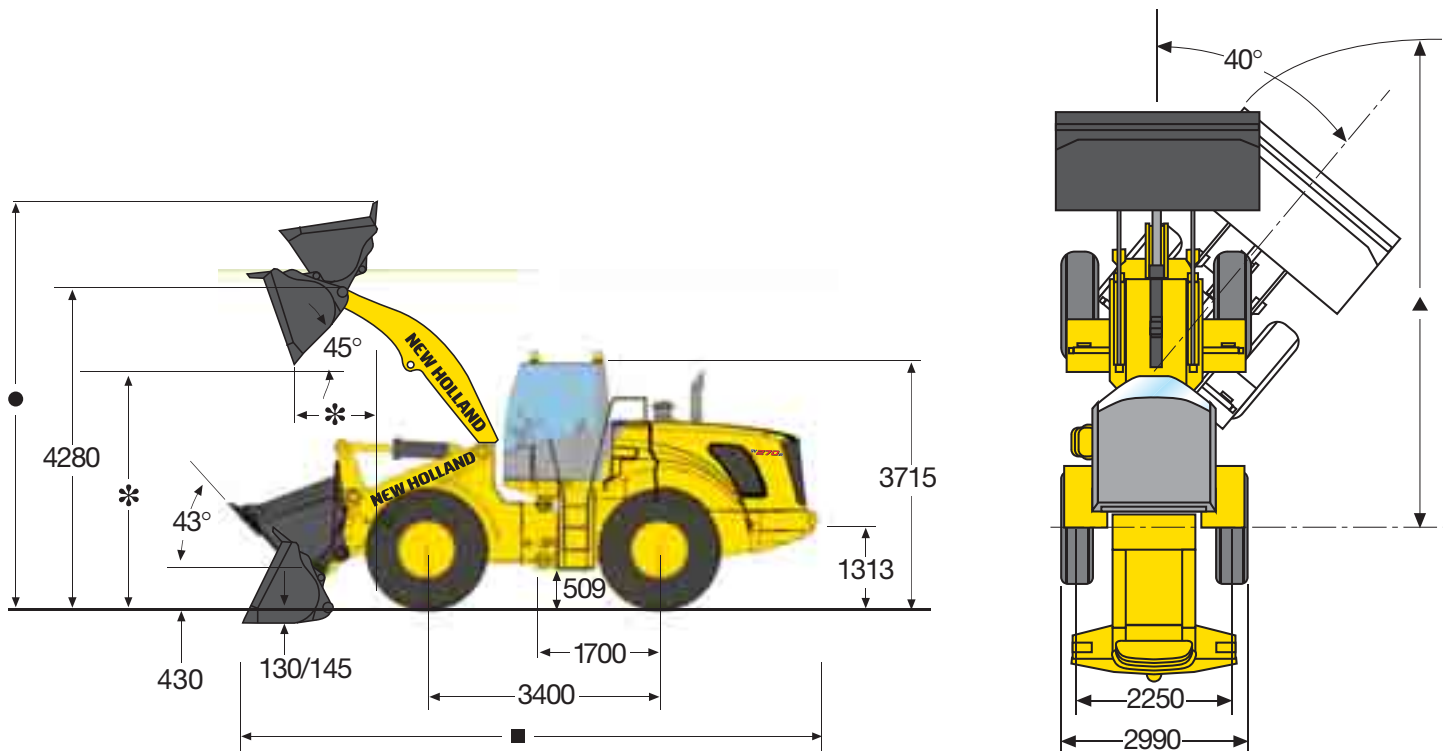
MATERIAL DENSITY (kg/m³)

1100 1200 1300 1400 1500 1600 1700 1800 1900 2000



W270B

DIMENSIONS mm



PERFORMANCE

BUCKET TYPE

GENERAL PURPOSE

		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.



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.



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