



NEW HOLLAND

W270C



W270C

BUCKET VOLUME	4.2 m ³ - 9.0 m ³
BUCKET CAPACITY	8,000 kg
OPERATING WEIGHT	24,600 kg
PEAK NET POWER	320 hp



W270C

THE CLEAN ENERGY LOADER

All our C Series wheel loaders are compliant with Tier 2 interim emissions standards: to the benefit of your health and the environment, we have reduced levels of particulate matter and of nitrogen oxides by 50%.

INCREASE YOUR INCOME

MORE PRODUCTIVE WITH 18% MORE THRUST IN 2ND SPEED

For applications such as gravel pits where 2nd speed is preferred for more grip during loading, the additional 18% penetration force will lift your productivity.

MORE PRODUCTIVE WITH MORE BUCKET RETENTION

The bucket roll back in the carry position was increased to 48° so that the material stays in your bucket during travelling.

MORE PRODUCTIVE WITH SHORTER DISTANCES

The faster lifting of the loader enables you to position the truck at just 10 m from the pick up point. The benefits of the shorter V-cycle are more productivity and less fuel consumption.

DECREASE YOUR EXPENSES

LESS FUEL WITH BETTER COMBUSTION

Combustion with fresh air only provides maximum efficiency, guaranteeing the best engine output delivering more power and using less fuel.



CHOOSE RELIABILITY

MORE ROBUST FOR EACH APPLICATION

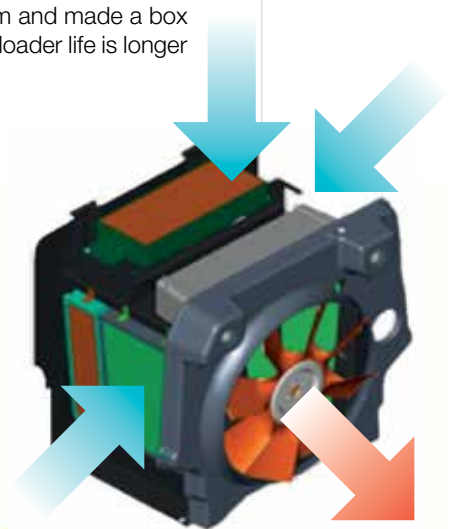
For the toughest jobs, reliability comes with a perfect control of the oil temperature in the axles.

- For flat hard soil such as asphalt where there is no grip issue and stress on the axle is less:
 - No overheating with open differential on front and rear axles
- For soft soil where higher grip control and higher resistance are needed:
 - Effective grip control with the differential lock on the front axle. It can be activated automatically or manually controlled with the left foot.
 - No overheating because the differential lock does not slip.
 - Higher resistance with heavy duty front and rear axles.

For even more reliability, we have invented the COOLING BOX that keeps constant the cooling fluids temperature.

LESS MAINTENANCE WITH THE COOLING BOX

On most of the wheel loaders, the radiators are overlapping, at New Holland we have taken them and made a box out of it. A better cooling makes longer the life of the oil by about 500 hours. With better oil wheel loader life is longer as well.



W270C

WELCOME ON BOARD

OUTSTANDING VISIBILITY

You'll feel more confident and work faster with the great all-round visibility. The low, curved rear hood shape, provides excellent visibility.

GREAT STORAGE SPACE

The overhead radio placement and ample storage space make the cab even more convenient for you.



KING SIZE ACCESS

Access to the cab is easy, safe and comfortable with 4 wide steps, 2 handles and extra wide door.

FEEL CONFIDENT WITH ROPS

All our wheel loaders' cabs are reinforced and protect the operator against roll over (ROPS certified).

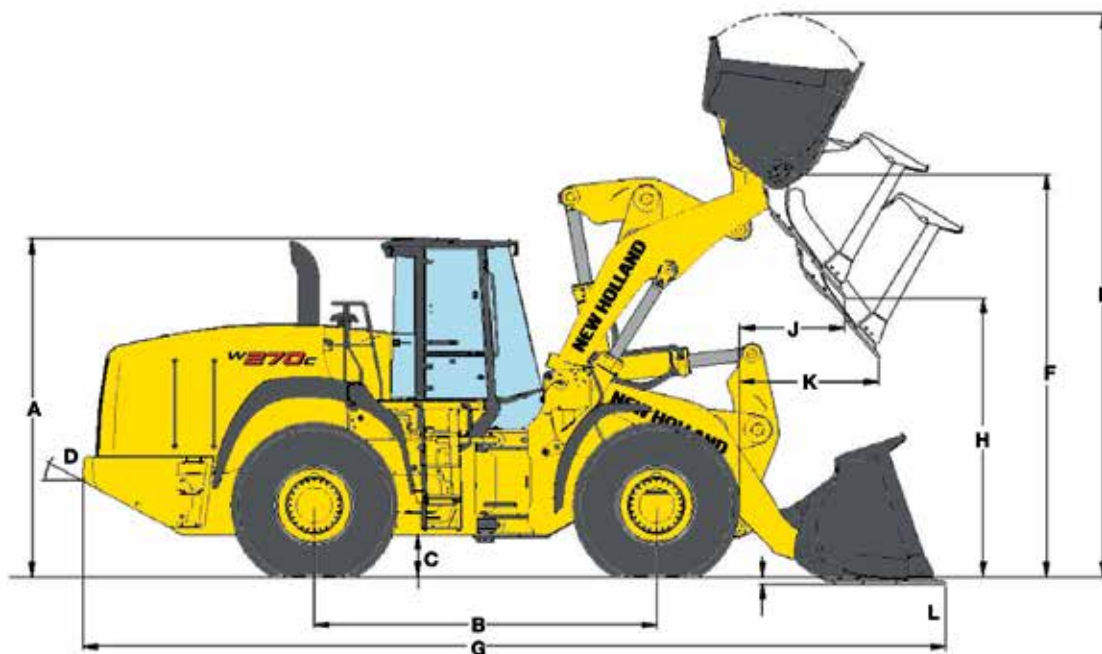
ALL CONTROLS AT YOUR FINGERTIP

The ergonomic positioning of the control panel under your right hand puts the controls at your fingertips, so you can focus on the job.



W270C

DIMENSIONS



DIMENSIONS	
A - Height to top of ROPS cab	3,573 mm
B - Wheelbase	3,550 mm
C - Ground clearance	509.4 mm
D - Angle of departure	34°
WIDTH	
Overall* w/o bucket	2,990 mm
Centerline tread	2,250 mm
Turning radius* - outside	6,370 mm
TURNING ANGLE	
From center	40°
Total angle	80°
Rear axle oscillation, total	24°

CYCLE TIME	
Raise w/rated bucket load	6.2 s
Dump w/rated bucket load	1.3 s
Lower (empty)	
Power down	2.8 s
Float down	2.6 s

* NOTE: Dimensions taken with 26.5R25 Michelin XHA2 tires.



SPECIFICATIONS



ENGINE TIER 2

Max Power Range

Gross @ Rated290 hp (216 kW) @ 2100 rpm
 Peak Gross.320 hp (239 kW) @ 1800 rpm
 Net @ Rated262 hp (195 kW) @ 2100 rpm
 Peak Net296 hp (221 kW) @ 1800 rpm

NOTE: Gross horsepower and torque per SAE J1995
 Net horsepower and torque per SAE J1349

Torque

Gross1479 N-m @ 1200 rpm
 Net1435 N-m @ 1200 rpm
 Torque rise50%
 MakeNew Holland/FPT
 ModelF2CFE614C Tier 2 certified

Type4-stroke, turbocharged
 Cylinders6-cylinder in-line
 Bore/Stroke177 x 135 mm
 Displacement8.7 l
 Fuel injectionDirect injection (electronic)
 Fuel filterReplaceable, full flow spin-on cartridge
 Fuel pumpBosch CP 3.3
 Gradeability35° fore /aft & side to side
 Air filter2-element dry-type w/warning restriction indicator
 Rear-mount cooling module External independent mounted (non-stacked)
 coolers

Fan - Hydraulic driven

Style9 blade puller
 Diameter876 mm
 Water pumpIntegral

Engine oil

PumpDeep sump plate cooler with pressurized under-piston nozzles

Pump operating angles

Side-to-side35°
 Fore and aft35°
 Oil filtrationReplaceable, full flow, spin-on cartridge

Engine speeds (rpm)

Rated speed, full load2100
 Horsepower



DRIVETRAIN

Transmission

4F/3R Proportional w/Electronic Control Module torque sensing autoshift/
 manual shift and modulation
 GearsHelical cut

Torque converter

Stall ratio2.99:1
 DifferentialOpen on front and rear axles
 Rear axle oscillation24° total
 Front and rear axles
 Differential ratio4.11
 Planetary ratio6.00
 Final axle ratio24.67

Special application axles (optional)

Front axle equipped with locking differential
 Rear axle equipped with open differential
 PlanetariesOutboard
 4 speed transmission travel speeds (km/h w/26.5 x 25 XHAT tires)

	Forward	Reverse
1st	8.0	8.0
2nd	13.2	4.1
3rd	25.8	25.8
4th	37.4	-

NOTE: Travel speeds at full engine throttle.

Parking brakes

Spring-applied hydraulic release disc on transmission output shaft

Service brakes

Hydraulically actuated, maintenance-free, multiple wet disc w/accumulator to all four wheels

Brake surface area

Front hub (each)581 m²
 Rear hub (each)460 m²



OPERATING WEIGHT (kg)

Z-Bar

Unit equipped with ROPS cab with heater and A/C, standard counterweight,
 23.5R25 XHA2 tires, 4.0 m³ pin on w/bolt on edge, full fuel,
 79 kg operator24,399 kg

LONG REACH

Unit equipped with ROPS cab with heater and A/C, full counterweight, 26.5R25
 XHA2 tires, 4.0 m³ pin on w/bolt on edge, full fuel, 79 kg operator25,688 kg



ELECTRICAL SYSTEM

Voltage	24 Volts, negative ground
Alternator	.95 amp
Batteries	(2) 900 CCA 12-Volt



HYDRAULIC SYSTEM

Pump (steering/implement)

Closed center pressure/flow compensated

Variable displacement, load-sensing 352 l/min @ 2000 rpm

Loader control valve

Closed-center, sectional 2, 3 or 4-function with pilot control for lift, tilt and auxiliary hydraulics, electromagnetic detents in float, raise and rollback

Loader auxiliary steering

Hydraulic orbital center-pivot articulating w/on-demand oil flow

High pressure standby

Implement 25,165 kPa

Steering 24,097 kPa

Filtration

10-micron, full flow replaceable cartridges on return line, condition indicator light for filter



CYLINDERS

Lift cylinder

Bore diameter 177.8 mm

Rod diameter 114.3 mm

Stroke 780.6 mm

Dump cylinder

Bore diameter 203.2 mm

Rod diameter 127.0 mm

Stroke 581.9 mm



CAPACITIES

Fuel tank 473 l

Hydraulic system

Total 300 l

Reservoir 130 l

Transmission

Service w/fi liter 45.4 l

Front and rear axle

Front axle 51.1 l

Rear axle 51.1 l

Engine oil w/fi liter 30.3 l

Cooling system 56.8 l

PERFORMANCE DATA

W270C Z-Bar		3.6 m ³ BUCKET		4.2 m ³ BUCKET		4.4 m ³ FLAT BOTTOM BUCKET	
		w/bolt-on edge	w/ w/bolton teeth	w/bolt-on edge	w/ w/bolton teeth	w/bolt-on edge	w/ w/bolton teeth
	SAE bucket capacity - struck - m ³	3.11	2.96	3.63	3.49	3.80	3.65
	Heaped - m ³	3.63	3.49	4.20	4.06	4.40	4.23
	Bucket width - outside - mm	3,195	3,195	3,195	3,195	2,980	2,980
	Bucket weight - kg	2,160	2,143	2,286	2,268	2,480	2,321
E.	Operating height - fully raised w/spillguard - mm	5,676	5,676	5,800	5,800	5,942	5,942
F.	Hinge pin height - fully raised - mm	4,243	4,243	4,243	4,243	4,243	4,243
G.	Overall length - bucket level on ground - mm	8,774	8,955	8,892	9,073	8,979	9,133
	Dump angle - fully raised - grados	53	53	53	53	53	53
H.	Dump height - fully raised, 45° dump - mm	3,151	3,035	3,075	2,959	3,019	2,920
J.	Bucket reach - fully raised, 45° dump - mm	1,175	1,313	1,265	1,404	1,332	1,450
K.	Bucket reach - 2.13 m height, 45° dump - mm	1,828	1,918	1,887	1,974	1,930	2,001
	Operating load - SAE - kg	8,011	8,076	7,938	8,001	7,841	8,005
	Maximum material density - SAE - kg/ m ³	2,207	2,317	1,890	1,971	1,782	1,894
	Tipping load - SAE						
	Straight - kg	19,184	19,335	19,046	19,193	18,857	19,219
	40° turn - kg	16,021	16,151	15,876	16,002	15,682	16,018
	Lift capacity						
	Full height - mm	14,143	14,130	14,027	14,016	13,840	13,950
	Maximum reach - mm	20,221	20,253	20,094	20,126	19,010	20,082
	Ground - mm	23,898	24,156	23,413	23,659	23,000	23,479
	Breakout force w/tilt cylinder - kgf	22,616	24,406	23,413	21,922	19,092	20,963
	Maximum rollback						
	Ground - grados	45°	45°	45°	45°	45°	45°
	Carry position - grados	49°	49°	49°	49°	49°	49°
	@ Maximum reach - grados	69°	69°	69°	69°	69°	69°
	@ Full height - grados	65°	65°	65°	65°	65°	65°
L.	Dig depth - mm	126	126	126	126	126	126
	Maximum grading angle w/bucket - back dragging - grados	61	60	60	60	60	60
	Loader clearance circle - mm	14,117	14,213	14,179	14,278	14,031	14,117

W270C Z-Bar		3.6 m ³ BUCKET		4.2 m ³ BUCKET		4.4 m ³ FLAT BOTTOM BUCKET	
		w/bolt-on edge	w/ w/bolton teeth	w/bolt-on edge	w/ w/bolton teeth	w/bolt-on edge	w/ w/bolton teeth
E.	Operating height - fully raised w/spillguard - mm	6,258	6,258	6,382	6,382	6,523	6,524
F.	Hinge pin height - fully raised - mm	4,825	4,825	4,825	4,825	4,825	4,825
G.	Overall length - bucket level on ground - mm	9,274	9,455	9,393	9,574	9,498	9,651
	Dump angle - fully raised - grados	50	50	50	50	50	50
H.	Dump height - fully raised, 45° dump - mm	3,733	3,617	3,657	3,541	3,600	3,502
J.	Bucket reach - fully raised, 45° dump - mm	1,187	1,326	1,277	1,416	1,345	1,462
K.	Bucket reach - 2.13 m height, 45° dump - mm	2,294	2,391	2,357	2,451	2,403	2,481
	Operating load - SAE - kg	6,688	6,739	6,600	6,649	6,615	6,765
	Maximum material density - SAE - kg/ m ³	1,843	1,933	1,573	1,638	1,504	1,600
	Tipping load - SAE						
	Straight - kg	16,104	16,225	15,915	16,033	15,940	16,267
	40° turn - kg	13,377	13,479	13,199	13,299	13,229	13,530
	Lift capacity						
	Full height - mm	12,525	12,519	12,405	12,401	12,426	12,546
	Maximum reach - mm	17,216	17,255	17,805	17,123	17,164	17,357
	Ground - mm	18,990	19,175	18,597	18,771	18,447	18,888
	Breakout force w/tilt cylinder - kgf	22,835	24,643	20,654	22,135	19,282	21,170
	Maximum rollback						
	Ground - grados	42°	42°	42°	42°	42°	42°
	Carry position - grados	48°	48°	48°	48°	48°	48°
	@ Maximum reach - grados	67°	67°	67°	67°	67°	67°
	@ Full height - grados	66°	66°	66°	66°	66°	66°
L.	Dig depth - mm	129	129	129	129	129	129
	Maximum grading angle w/bucket - back dragging - grados	63°	62°	62°	62°	62°	62°
	Loader clearance circle - mm	14,613	14,726	14,687	14,801	14,553	14,653

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.

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