



NEW HOLLAND

W12D



POWER ISO 14396	130 hp (97 kW) @ 2.350 rpm
NET POWER (ISO 14396)	127 hp (95 kW) @ 2.350 rpm
MAXIMUM OPERATING WEIGHT	10.595 kg
BUCKET CAPACITY	1.91 to 2.3 m ³ (2.5 to 3.0 J ³)
STANDARD BUCKET CAPACITY	1.91 m ³ (2.5 J ³)

A Brand of CNH Industrial



W12D

W12D LOADER. A MORE COMFORTABLE, SAFE AND PRODUCTIVE LOAD.

FLEETFORCE MONITORING SYSTEM:

Monitor your fleet and maximize your productivity.



TRANSMISSION

Powershift transmission designed to make your business results even better, with more gear power, traction and smoothness.

CABIN

With ROPS/FOPS certification and air conditioning, the new cabin is designed to offer more safety and comfort to the operator.



SHAFTS

ZF shafts, synonymous with robustness and efficiency for your operation.

MAINTENANCE

The maintenance of the W12D is much easier due to the opening of the hood.

W12D



A New Holland is recognized worldwide for its technological innovations, efficiency and high quality standards of equipment. On five continents, New Holland demonstrates its global strength by bringing local solutions to the segments in which it operates, consolidating its brand excellence in the global construction market.

Power, versatility and fast cycles are the hallmarks of W12D, the new high performance and productivity loader with high load capacity, easy operation and maintenance, comfort and low cost.



POWERTRAIN

ENGINE

The W12D loader is equipped with the renowned FPT engine, model NEF6 TIER 3, turbocharged, with high performance and reliability, low cost and ease of maintenance, as well as excellent results in fuel economy due to the ideal ratio between weight and power, which provides excellent strength and high load capacity, aligned with low fuel consumption.

ZF TRANSMISSION

For all engine power to be converted to maximum productivity, the W12D uses a Powershift transmission, which allows smooth gear shifting via a single gear selector. There are four forward gears and three reverse gears that can be selected manually or by the Auto system, enabled on the front panel – according to the work to be done –, generating fuel economy and more efficiency. Economy is also guaranteed by the Declutch System which, once enabled, when the brake pedal is activated, automatically disables the transmission drive, making all the power generated by the engine and used by the hydraulic system to generate faster cycles with fuel economy.

BRAKES

Safety in the most extreme conditions.

The W12D brake system, hydraulically servo-assisted braking system, is precise, efficient, reliable and offers total safety in the most diverse operating conditions. With disc brakes bathed in oil, fully sealed and free from contamination, the W12D loader is prepared to work in the harshest environments, such as sand ports or fertilizer industries. To ensure safety, it has independent circuits for each shaft, with nitrogen accumulators that allow the operator to brake the machine in case of engine stop.

A SET THAT COMBINES
HIGH PERFORMANCE WITH
LOW OPERATING COST.



W12D

STEERING

Agility and safety in any situation.

The steering is hydraulically servo-assisted and powered by one of the dual gear pump sections of the hydraulic system. The counterweight with beveled ends and the reduced turning radius facilitate operations in restricted spaces.



HYDRAULIC SYSTEM

Power and agility in any application.

The hydraulic system is composed of a high-efficiency dual gear pump, a two reel monoblock manifold (which can optionally be equipped with three reels) and arm lift and tipping cylinders of the bucket, sized to generate power and fast cycles in any excavation or loading application. All the assembly is operated by means of the joystick, which makes the operation easier, more efficient and precise, in addition to providing a high level of comfort to the operator.

Front equipment.

The "Double Z" cinematics provide excellent visibility, as well as allowing the use of curved arms that facilitate the uniform distribution of the load in the conveyor units. To further increase productivity, the W12D features automatic arm lift stop and bucket leveling devices that make loading works easier.



MAINTENANCE

Simplicity and reliability, together with a low operating cost.

The routine maintenance and inspections have become even simpler, faster and easier to access on the W12D. The opening of the hood, seagull wing type, ensures easy access to the main maintenance and inspection points. Easy maintenance means greater availability for the customer.

The W12D also brings as a novelty all the lubrication points accessible at ground level, through remote outlets, as well as connections and quick couplings of pressure check.

NEW CABIN

More comfort and ease in operations.

ROPS/FOPS certification and equipped with air conditioning, the new W12D brings an even more comfortable cabin with greater visibility, to provide the necessary safety during its operation. The instrument panel is easy to consult, with illuminated dials that allow perfect reading in night operations, with fuel marker and engine shutdown. In addition, all instruments are easy to read and important information is grouped in front of the operator. The front windshield, now laminated, protects the operator. New diffusers have been added to the cabin always aiming at climate efficiency and operator convenience. New loader control by means of a joystick, guarantee more precision, agility of operation and efficiency, in addition to the armrest that can be regulated according to the needs of each operator. The new air suspension seat allows for ergonomics and more comfort.



W12D

TECHNICAL FEATURES



ENGINE

Brand New Holland powered by FPT*
 Model NEF6 TIER 3
 Type Diesel, 4-stroke, direct injection
 Aspiration Turbocharged with Intercooler
 Maximum gross power 130 hp (97 kW)
 Maximum net power 127 hp (95 kW)
 Nominal rotation 2,350 rpm
 Number of cylinders 6
 Diameter and stroke 104 x 132 mm
 Cylinder Capacity 6,700 cm³
 Maximum torque 443 Nm@ 1,500 rpm
 Injection pump Delphi
 * The New Holland and FPT brands belong to the CNH Industrial Brasil LTDA group.



ELECTRICAL SYSTEM

Voltage 24 V
 Batteries 2 - 12 V (each)
 Battery Capacity 65 Ah
 Alternator 28 V e 70 A
 Starter 4.0 kW



TORQUE CONVERTER

Monophasic Type
 Multiplication factor 2,66:1



TRANSMISSION

Full Powershift, four-speed countershafts forward and three reverse, fully reversible, hydraulically controlled. Automatic transmission disengagement by means of the brake pedal, activated by a switch on the dashboard.

Travel speed

Forward Reverse

	Forward	Reverse
1st.	6.4 km/h	6.7 km/h
2nd.	11.6 km/h	12.2 km/h
3rd.	22.3 km/h	23.8 km/h
4th.	36.2 km/h	-



SHAFTS

Crowned and pinioned shafts, hypoid type. Proportional torque differential, with automatic anti-slip locking system. Rear shaft with vertical oscillation and planetary final reductions.



BRAKES

Service: Multidisc, bathed in oil on all four wheels, hydraulically servo-assisted control system, with independent circuit for each shaft.

Safety: each circuit of the brake system is equipped with a nitrogen accumulator that maintains its own efficiency even with the engine turned off or with a failure in the supply system.

Parking: disc brake, applied by springs, hydraulically released, mounted on the transmission output shaft, with mechanical drive.



RIMS AND TIRES

Rims 14 x 25"- 3 parts
 Cameless tires 17.5 x 25 - 16 linings, L3
 17.5 x 25 - 12 linings, L2



HYDRAULIC SYSTEM

Pressurized reservoir, with rounded edges, welded and chemically treated for full protection. Tandem mounted dual gear pump, for main system and steering power supply. Monoblock manifold of two reels, equipped with built-in relief and check valve, with mechanical built-in in the floating position.

Lifting and tilting command by means of a single lever. Automatic kick-out elevation stop e bucket leveling, electromagnetic type.

Gear pump
 Total pump flow 140 L/min
 Relief pressure 2,756 psi
 Arm cylinders 2
 Diameter x stroke 115 x 725 mm
 Bucket cylinders 2
 Diameter x stroke 110 x 407 mm
 Operating times (sec.)
 Lift loaded 6.6
 Lower - with fluctuation (empty) 5.0
 Unload 1.2
 Cycle time 12.8



STEERING

Hydraulic Type, orbitrol
 Gear pump
 Maximum pressure 2,756 psi
 Cylinders 2
 Diameter x stroke 80 x 302 mm



SUPPLY CAPACITIES

Coolant 25.0 L
 Engine oil with filter 15.3 L
 Fuel reservoir 220.0 L
 Total of each shaft 20.9 L
 Transmission oil 21.0 L
 Hydraulic oil reservoir 131 L
 Hydraulic system - total 176 L

PERFORMANCE

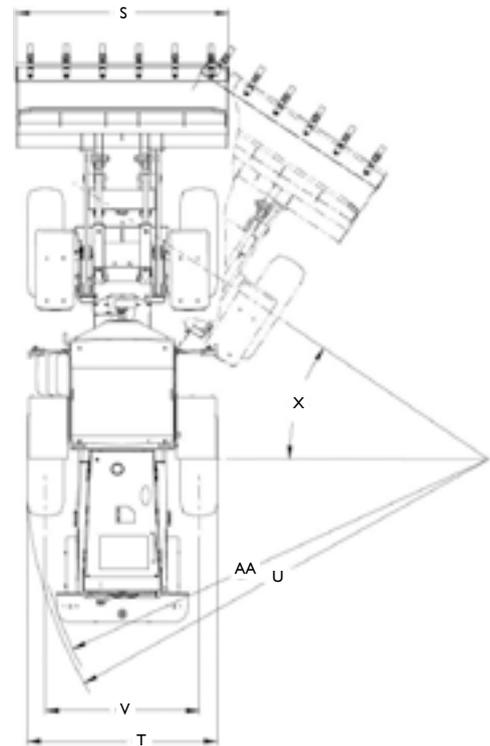
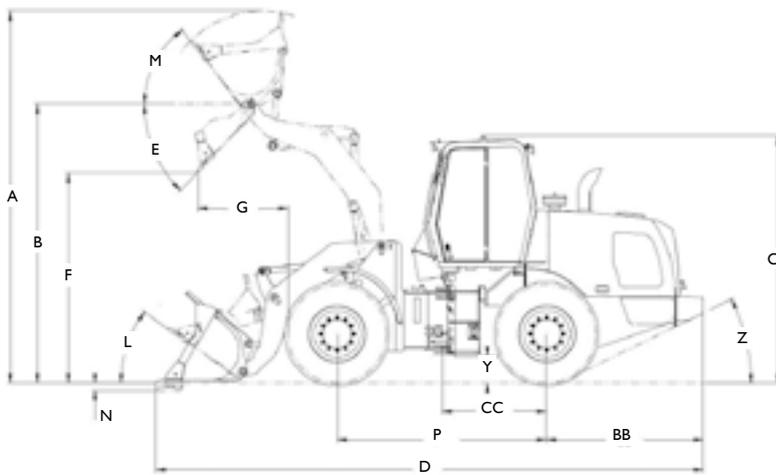
Crowned Bucket Capacity - Standard 1.91 m³ (2.5 yd³)
 Disaggregation power 8,071 kg

Tipping load (ISO)

- Straight 8,857 kg
 - Maximum articulation (33.5°) 8,070 kg
 Operating load 4,144 kg
 Operating weight 10,595 kg

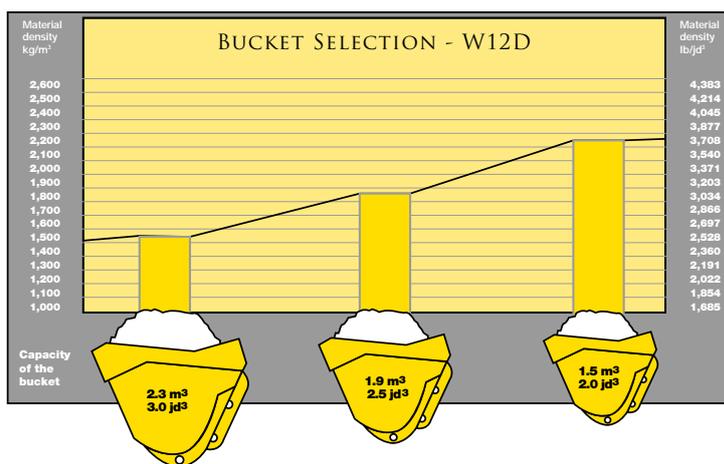
*Unit equipped with 17.5 x 25.12 tires, 12 linings, L2, 533 kg counterweight, 1.91 m³ bucket with teeth and 80 kg operator.

W12D DIMENSIONS



Vehicle equipped with 17.5 x 25 I6L L3 tires, closed cab, air-conditioned, 533 kg counterweight and 1.9 m³ bucket with teeth.

A	Maximum "spillguard" bucket height	4,751 mm	M	Rollback bucket closing angle	55°
AA	Turning radius with counterweight	5,543 mm	N	Bucket ground clearance	75 mm (with blade); 78 mm (with teeth)
B	Maximum height of bucket pivot pin	3,520 mm	P	Distance between axle centers	2,669 mm
BB	Distance from center of rear axle to counterweight	1,990 mm	S	Bucket width	2,489 mm / 2,976 mm (2.3m ³)
C	Height to top of cab	3,176 mm	T	Machine width without bucket	2,344 mm
CC	Distance from machine linkage to center of rear axle	1,334.5 mm	U	Tire turning radius	5,606 mm
D	Maximum length	6,969 mm (with blade); 7,086 mm (with teeth)	V	Width between tire tread centers	1,864 mm
E	Bucket opening angle	44°	X	Machine articulation angle	33.5°
F	Maximum discharge height	2,633 mm (with blade); 2,551 mm (with teeth)	Y	Height from base of chassis to ground	355 mm
G	Distance from bucket tip to front tire	1,053 mm (with blade); 1,132 mm (with teeth)	Z	Rear departure angle	26°
L	Maximum Rollback with bucket to ground	48°			



- 1 Establish the density of the material to be handled using the material density table below.
- 2 Find the density in the column opposite (American or metric).
- 3 Track the density along your horizontal line to find which buckets can be used for that density of material.

Maximum density with standard counterweight 533 kg (1,174 lb)

MATERIAL	DENSITY	MATERIAL	DENSITY	MATERIAL	DENSITY	MATERIAL	DENSITY
Calcium carbonate	1,250 kg/m ³	Coal		Gravel		Sand	
Clay		Anthracite, crushed	1,100 kg/m ³	Dry	1,510 kg/m ³	Dry	1,420 kg/m ³
Natural	1,600 kg/m ³	Bituminous, crushed	830 kg/m ³	Gravel with		Dry, 1/2" to 2"	1,840 kg/m ³
Dry	1,480 kg/m ³	Crushed granite	1,660 kg/m ³	cobbled sand	1,930 kg/m ³	With gravel, dry	1,720 kg/m ³
Wet	1,660 kg/m ³	Shale	1,250 kg/m ³	Dry, 1/2" to 2"	1,690 kg/m ³	With gravel, wet	2,020 kg/m ³
With gravel, dry	1,420 kg/m ³	Slag in pieces	1,750 kg/m ³	Wet, 1/2" to 2"	2,020 kg/m ³	Sandstone in pieces	1,250 kg/m ³
With gravel, wet	1,540 kg/m ³			Crushed	1,540 kg/m ³	Crushed stone	1,600 kg/m ³

SERIES EQUIPMENT

- Reverse alarm
- Anatomical tissue seat with air suspension
- Batteries (2 x 12 V) 65 Ah
- Horn
- 1.91 m³ (2.5 j3) bucket with teeth
- Safety belt
- Rear counterweight with pull hook
- Automatic transmission disengagement by means of the brake pedal
- Differentials with automatic anti-slip locking
- Hydraulic steering
- Anti-vandalism devices for batteries, fuel and hydraulic oil
- Air filter with safety element, pre-filter and restriction indicator
- Electro-hydraulic triggering parking brake
- Multi-disc brakes in oil bath on all 4 wheels, hydraulically servo-assisted
- Brake lights
- Front and rear direction lights
- Dashboard lights
- Indicative lights: brake pressure, battery charge, transmission oil pressure, parking brake, air filter restriction and direction lights
- Analog dashboard: hour meter, transmission oil temperature, engine oil pressure and engine coolant temperature, fuel marker

- Front equipment pins sealed
- Tires 17.5 x 25, 16 linings, L3, with 3-piece rim
- Hydraulic oil radiator
- Silent
- Emergency brake system with nitrogen accumulators
- Hydraulic system with two functions, lift stop (kick-out) and bucket leveler and "kick-down" triggering on the gear selector lever
- Reinforced articulation system, with bearing
- Chassis joint safety lock
- ROPS/FOPS cabin with air conditioning
- Centralized lubrication
- Hydraulic oil level check displays
- Steering wheel with handle
- 2 front and 2 rear headlamps
- Automatic transmission system
- External rear-view mirrors
- Factory FleetForce Telemetry System
- Reversible propeller with manual switch trigger on the panel

OPTIONAL EQUIPMENT

- ROPS/FOPS certified open cabin
- 2.3 m³ (3.0yd³) bucket with teeth / blade
- 1.9 m³ (2.5yd³) bucket with blade
- 3-function hydraulic control
- Fire extinguisher

- Spare wheel
- Tire: 17.5 x 25, 12 linings, L2, with 1-piece rim

FERTILIZER VERSION

- Alternator with protective filter
- Engine with special varnish protection
- Aluminum-made radiators and capacitors with ECOAT surface protection
- Hose terminals and other bichromated components with surface varnish protection
- Structures (chassis and arms) and thin plates without sharp edges

- Zinc and iron phosphate application, primer and finishing
- Sensors, terminals, fuse box and electrical harnesses protected with special silicone
- Fully caulked cabin, free of cracks, with ECOAT application and greater thickness paint
- Cyclonic pre-filter with galvanized housing with special paint
- 2.3 m³ (3.0 yd³) bucket with teeth

FLEETFORCE™



FleetForce is the **New Holland** telemetry system that collects information about the performance of the machine and its location, making them available in a easy to use format. With the support of your dealer's expert, you will have more efficiency, low operating cost and higher profitability.

FleetForce can be used on any **New Holland** or **non-New Holland** machine, service vehicles and any vehicle in your fleet.

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YOUR ONLINE FLEET MANAGEMENT.

MAXIMIZING YOUR FLEET PRODUCTIVITY:

Provides performance and essential information about your machine. With it, you:

- Identify which machines are not being used and which are being heavily used.
- Compare the performance or trend of machines in terms of fuel consumption over journeys.
- Evaluate machine notifications to optimize the use of your equipment.
- Configure the system to receive machine operating logs, scheduled maintenance alerts, and safety alerts via email.

EFFECTIVE PLANNING:

- Fleet control from machine performance trends and operator efficiency.
- Pre-programmed to monitor up to 40 parameters – some of which can be customized – FleetForce can be configured to provide a simpler or more comprehensive analysis, according to your needs.

HIGHER PROFITABILITY:

- Your dealer can help you increase your fleet's productivity by analyzing machine information, whether it's data on idle time, machines that need maintenance and parts, or anything else to maximize service efficiency.

PLAN FEATURES	BASIC	ADVANCED	SATELLITE
FLEET MANAGEMENT			
Locate and “ping” (test) the machines for project management.			
Machine hours report.			
PLANNED MAINTENANCE			
Planning and preparing maintenance intervals.			
SECURITY			
Electronic Geographic Fence (GeoFence): notifications about unplanned movements in real time.			
Curfew.			
USAGE ANALYSIS AND REPORT			
Reports on idle time, engine started, displacement time and machine usage.			
PERFORMANCE ANALYSIS			
Uploading engine data to compare machines and operations to identify operating trends.			
FUEL INFORMATION AND REPORTS			
Consumption data to track the usage of a machine or the entire fleet.			
MECHANICAL OPERATING PARAMETERS			
Following up the operating characteristics of the machine: temperature, pressure, out of range parameter alerts and CAN-bus parameters for diagnostics and troubleshooting.			

SUBSCRIPTION PACKAGE:

Three subscription packages are available, depending on the level of detail in the information:

- The Basic Subscription uses essential inputs from ignition key contact, motion detection and GPS tracking to secure a range of information and reports.
- The Advanced Subscription adds customized control data and unique information not found in other telemetry systems via our CAN-bus data.
- The Satellite Connection Subscription can be added to the Basic and/or Advanced subscription. The update of your equipment data with Satellite Connection can be every 4 hours and complete reports, every 24 hours.

The Basic and Advanced packages offer a subscription of up to five years and the Satellite Connection subscription of one or two years. And you can buy extensions for all with your dealer through the Parts Department.

Learn more at your dealership.

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www.newholland.com

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AFTER SALES OF THE NEW HOLLAND AUTHORIZED NETWORK. GUARANTEE OF HIGH PERFORMANCE AND PRODUCTIVITY.

The **New Holland** Authorized Network offers specialized services, professionals rigorously trained by the factory and genuine parts with a guarantee of quality and provenance, besides full support for the purchase of your equipment and easy financing.

O **New Holland** After-Sales service is at your disposal to guide you and provide the best options for contracting authorized services and purchasing parts. With it, you guarantee the high performance and the best throughput of your machine, with all the security and with the lowest cost-benefit.

For full access to the productivity and high technology that only **New Holland** offers, rely on the **New Holland** Authorized After Sales Network.



AT YOUR DEALER:

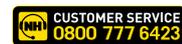
Dimensions, weights and capacities shown in this brochure, as well as any conversion used, are always approximate and are subject to variations considered normal within manufacturing tolerances. It is New Holland's policy to continuously improve its products, reserving the company the right to modify specifications and materials or introduce improvements at any time without prior notice or obligation of any kind. The illustrations do not necessarily show the product in standard condition.

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