



NEW HOLLAND

12D
EVO



RAW POWER	130 hp (97 kW) @ 2,350 rpm
MAXIMUM OPERATING WEIGHT	10.595 kg
DUMP BOX CAPACITY	1,91 a 2,3 m ³ (2,5 a 3,0 j ³)
STANDARD DUMP BOX CAPACITY	1,91 m ³ (2,5 j ³)

A Brand of CNH Industrial



12D EVO

12D EVO WHEEL LOADER – LOAD WITH GREATER COMFORT, SAFETY AND PRODUCTIVITY.

FLEETFORCE MONITORING SYSTEM:

Monitor your fleet and maximize your productivity.



NEW TRANSMISSION

The new Powershift transmission has been developed in order to make to make your business results even better, with greater power, traction and smoothness in the transmission.

CAB

With ROPS/FOPS Certification and air-conditioning, the new cab has been designed to provide greater safety and comfort for the operator.



AXLES

New ZF axles synonymous with operation robustness and efficiency.

MAINTENANCE

Maintenance of the 12D EVO is now much easier with the new hood opening.

12D EVO



New Holland is known across the world for technology innovations, efficiency and a high standard of quality of its equipment. Throughout the five continents, New Holland has demonstrated its global power in bringing local solutions to the sectors it serves, consolidating the brand's excellence in the worldwide construction marketplace.

Power, versatility and faster cycles are the registered trademarks of the 12D EVO – the new high performance and high productivity wheel loader with a high load capacity, easy and low cost maintenance, comfort and straightforward operation.



POWER TRAIN

ENGINE

The 12D EVO wheel loader comes equipped with the well established FPT engine, NEF6 TIER 3 model, turbocharged, with high performance and reliability, low cost and easy to maintain, in addition to outstanding infuel economy results due to the optimal relationship between power and weight, which provides excellent strength and high load capacity aligned to low fuel consumption.

NEW ZF TRANSMISSION

Pro that the entire engine power can be converted into maximum productivity, 12D EVO uses a Powershift transmission that allows smooth gear changes through a single gear selector. There are four forward gears and three reverse gears that can be manually selected or selected through the Auto system enabled on the front panel, according to the job to be performed, generating fuel savings and increased efficiency. Savings are also guaranteed through the declutch system, that once enabled when the pedal brake is actioned, disables the transmission traction automatically, making all the power created by the engine and used by the hydraulic system generate faster cycles with fuel economy.enerada por el motor y utilizada por el sistema hidráulico genere ciclos más rápidos con economía de combustible.

BRAKES

Safety in the most extreme conditions

The 12D EVO brake system, hydraulically served, is accurate, efficient, reliable, and provides complete safety in the most diverse operating conditions. With disc brakes bathed in oil, fully sealed and free of contamination, the 12D wheel loader is prepared to work in the most severe environments, such as sand ports or fertilization industries. To ensure safety, it features independent circuits for each axle with nitrogen accumulators, allowing the operator to brake the machine in case of engine stall.a eje con acumuladores de nitrógeno, lo que permite al operador frenar la máquina en caso de parada del motor.

A PACKAGE THAT COMBINES HIGH PERFORMANCE WITH LOW OPERATING COSTS



12D EVO

STEERING

Agility and safety in any situation

The hydraulic steering is hydraulically served and powered by one of the double pump gear sections of the hydraulic system. The counterweight with chamfered edges and 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 pump gear, a two-reel monoblock distributor (may optionally be equipped with three reels) and the lifting cylinders to the upper arm and the dump bucket sized to generate power and fast cycles in any digging or loading application. The entire assembly is operated by a single double-function lever, which makes the operation more comfortable and efficient.

Frontal equipment

The "Double Z" mechanism provides excellent visibility, as well as allowing for the use of curved arms that facilitate the even distribution of the load in the units with the carriers. To further increase productivity, 12D EVO counts on automatic arm elevation stoppage devices and leveling of the dumpcart, which facilitate loading operations.

MAINTENANCE

Simplicity and dependability invariably combined for low operational costs

The 12D EVO maintenance and routine inspections are even more simple, faster and easier to access. The new gull-wing style hood opening ensures easy access to the main maintenance and inspection points. Easy maintenance means higher availability for the customer.

The 12D EVO also features all ground-level lubrication points via remote outlets as well as quick pressure check connections and couplings. Automatic arm lift stoppage devices and dumpcart leveling that facilitate loading operations.



NEW CAB

Greater comfort and ease of operation

ROPS/FOPS certification and equipped with air conditioning, the new 12D EVO offers a more comfortable cab with improved visibility to provide necessary safety during its operation. The instrument panel is easy to check with illuminated displays that are easy to read during night time operations with a fuel marker and engine shutdown. In addition to this, all of the devices are easy to read and all important information is grouped in front of the operator. The front windshield, which is now laminated, protects the operator.



TECHNICAL SPECIFICATIONS



ENGINE

Brand	FPT*
Model	NEF6 TIER 3
Type	Diesel, 4-stroke, direct injection
Vacuum	Turbocharged
Maximum horsepower	130 hp (97 kW)
Maximum net horsepower	128 hp (96 kW)
Nominal rotation	2.350 rpm
Number of cylinders	6
Bore and stroke	104 x 132 mm
Cubic capacity	6.700 cm ³
Maximum torque	443 Nm a 1.500 rpm
Injection pump	Delphi



ELECTRIC SYSTEM

Voltage	24 V
Batteries	2 – 12 V (each)
Battery capacity	65 Ah
Alternator	28 V y 70 A
Starter engine	4,0 kW



TORQUE CONVERTER

Type	Single-phase
Multiplication Factor	2.66:1



TRANSMISSION

Full Powershift, four counter-shaft forward gears and three reverse gears, completely reversible, hydraulically controlled. Automatic transmission release via the brake pedal, activated by a switch in the panel.

Displacement speeds

	Forward	Reversa
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	



AXLES

Hypoid type axles with ring gear and pinion.. Proportional torque differential with automatic traction control lock system. Rear axle with vertical oscillation and final planetary reduction.



BRAKES

Service: multi-disc oil-immersed four wheel, hydraulically assisted servo control system with independent circuit for each axle .

Safety: each brake system circuit is equipped with an accumulator of nitrogen, which maintains its efficiency, even with the engine off, or breakdown in the power supply system.

Park Brake: brake disc, spring-applied, hydraulically released, mounted on the output shaft of transmission, with mechanical drive.



RIMS AND TIRES

Rims	14 x 25" – 3 pcs
Tires without tubes	17,5 x 25 – 16 Ply, L3 17,5 x 25 – 12 Ply L2



HYDRAULIC SYSTEM

Pressurized tank with rounded edges, welded and chemically treated for full protection. Twin gear pump mounted in tandem, for supply of the main system and direction. MonoBloc distributor with two spools, equipped with a relief valve and built in check valve, with mechanical latch on the floating position.

Lift command and tilting through a single lever. Kick-out lift stop and automatic electromagnetic dumpcart leveling.

Gear	Pump
Total pump flow	140 L/min
Pressure relief	2.756 psi
Arm cylinders	2
Bore x stroke	115 x 725 mm
Dump cart cylinders	2
Bore x stroke	110 x 407 mm
Operating time (seg.)	
Raise load	6,6
Lower - with fluctuation (empty)	5,0
Unload	1,2
Total cycle time	12,8



STEERING

Hydraulic type	Orbitrol
Gear	Pump
Maximum pressure	2.756 psi
Cylinders	2
Diameter x stroke	80 x 302 mm



REFILL CAPACITIES

Coolant	25,0 L
Engine oil with filter	15,3 L
Fuel reservoir	140,0 L
Total of each axle	20,9 L
Transmission oil	21,0 L
Hydraulic oil reservoir	131 L
Hydraulic system – total	176 L

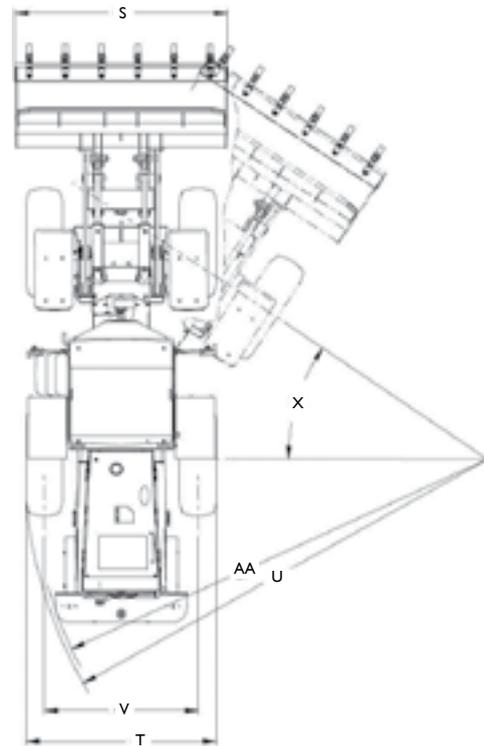
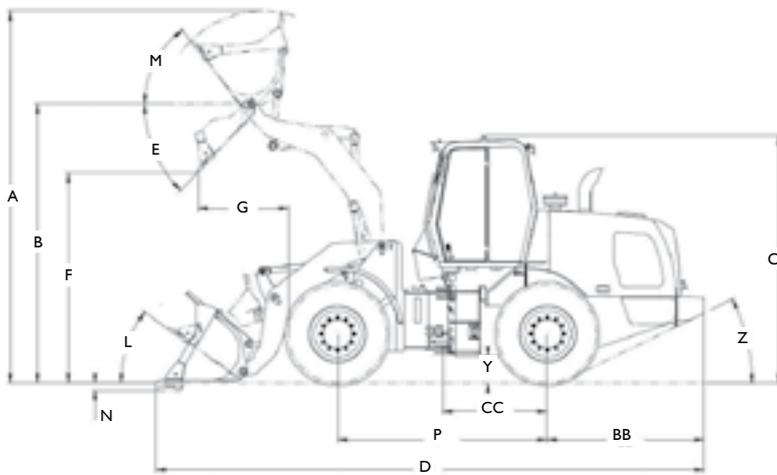
PERFORMANCE

Heaped dumpcart capacity – Standard	1,91 m ³ (2,5 yd ³)
Breakout force	8.071 kg
Tipping load (ISO)	
- Straight	8.857 kg
- Maximum articulation (35°)	*8.070 kg
Operating load	4.144 kg
Operating weight	10.515 kg

*Unit equipped with 17.5x25-12 tires, L2 tarps, counterweight of 533 kg, cab and operator 80 kg.

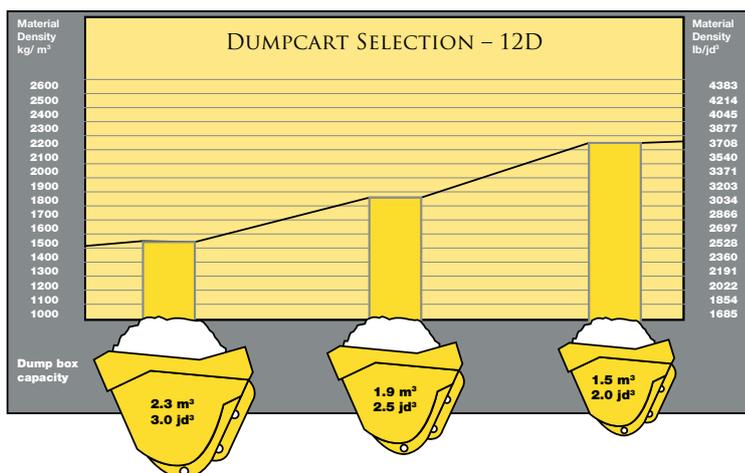
12D EVO

DIMENSIONS



Unit equipped with 17.5 x 25-12 tires, L2 tarps, enclosed cab with air-conditioning, counterweight 533 kg and 1.9m³ dumpcart without teeth.
All units are in mm.

A	Maximum Height "spillguard" dumpcart	4.751 mm	M	Closing and of rollback dumpcart	55°
AA	Turning Radius with counterweight	5.543 mm	N	Distance from the dumpcart to the ground	75 mm (with blade); 78 mm (with teeth)
B	Maximum Height pivot pin dumpcart	3.520 mm	P	Distance between axle centers	2.669 mm
BB	Distance from the center of the rear axle when to the counterweight	1.990 mm	S	Bucket Width	2.489 mm / 2.976 mm (2.3m ³)
C	Height to the top of the cab	3.176 mm	T	Machine width without dumpcart	2.344 mm
CC	Machine Articulation Distance to the center of the rear axle	1.334,5mm	U	Minimum tire turning radius	5.606 mm
D	Maximum length	6.969 mm (with blade); 7.086 mm (with teeth)	V	Width between center tread tires	1.864 mm
E	Dumpcart opening angle	44°	X	Machine articulation angle	33,5°
F	Maximum unloading height	2.633 mm (with blade); 2.551 mm (with teeth)	Y	Height from the bottom of the chassis to the ground	355 mm
G	Distance from the tip of dumpcart to the front tire	1.053 mm (with blade); 1.132 mm (with teeth)	Z	Rear output angle	26°
L	Máximo Rollback con cuchara al suelo	48°			



1 Determine the density of the material to be handled using the density table of materials below.

2 Locate the density in the column to the side (American system or Metric).

3 Follow the density along its horizontal line to find what dumpcarts can be used for that density of material.

MATERIAL	DENSITY	MATERIAL	DENSITY	MATERIAL	DENSIDAD	MATERIAL	DENSITY
Calcium Carbonate	1.250 kg/m ³	Carbón		Limestone		Arena	
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 sandstone	1.930 kg/m ³	Wet, 1/2" 2"	1.840 kg/m ³
Dry	1.480 kg/m ³	Crushed granite	1.660 kg/m ³	Dry, 1/2" 2"	1.690 kg/m ³	With gravel, dry	1.720 kg/m ³
Wet	1.660 kg/m ³	Shale	1.250 kg/m ³	Wet, 1/2" 2"	2.020 kg/m ³	With gravel, wet	2.020 kg/m ³
With gravel, dry	1.420 kg/m ³	Scrap pieces	1.750 kg/m ³	Crushed Limestone	1.540 kg/m ³	Sandstone	1.250 kg/m ³
With gravel, wet	1.540 kg/m ³					Crushed rock	1.600 kg/m ³

EQUIPMENT SERIES

- Reverse alarm
- Adjustable anatomical vinyl seat
- Batteries (2 x 12 V) 65 Ah
- Horn
- Dumpcart 1.91 m³ (2.5 j³) with teeth
- Safety belt
- Rear counterweight with traction hook
- Automatic transmission release via the brake pedal
- Differentials with automatic traction control locking
- Hydraulic steering
- Anti-vandalism device for batteries, fuel and hydraulic oil
- Air filter with safety element, pre-filter, and restriction indicator
- Electro-hydraulic drive parking brake
- Multi-disc 4-wheel brakes bathed in oil, hydraulically servo-assisted
- Brake lights
- Front and rear driving lights
- Lighting on the instrument panel
- Precipitation lights: Brake pressure, charging the batteries, oil pressure, transmission, park brake, restriction of the air filter, steering lights
- Panel: Analog instruments: Hour meter, transmission oil temperature, engine oil pressure and coolant temperature of the engine, fuel marker.
- Sealed frontal equipment pins

- Tires 17.5x25, 16 ply, L3, 3 piece rim
- Hydraulic oil radiator
- Muffler
- Emergency brake system, with nitrogen accumulators
- Hydraulic system with two functions, lift stop (kick-out) and electromagnetic dumpcart leveler
- Reinforced articulation system, with bearing
- Safety latch on the pivot frame
- New ROPS/FOPS cabin with air conditioning
- Centralized lubrication
- Displays to verify the hydraulic oil level
- Steering wheel with handle
- 2 front and 2 rear lights
- Automatic transmission system
- Exterior rear-view mirrors

EQUIPMENT OPTIONAL

- Open cab with ROPS/FOPS certification
- Dumpcart 2.3 m³ (3.0 j³), with teeth
- 3-function hydraulic control
- FleetForce Telemetry System – Basic Plan
- Fire extinguisher
- Spare wheel

- 17.5x25 -12 ply L2, with single rim

FERTILIZER VERSION

- Alternator with protection filter.
- Engine with special varnish protection.
- Radiator and condenser manufactured in aluminum with ECOAT surface protection.
- Hose terminals and other bichromated components with varnish surface protection.
- Structures (chassis and arms) and thin plates without sharp edges.
- Zinc phosphate and iron, primer and finishing application.

- Sensors, terminals, fuse box and electrical harnesses protected with special silicone.
- Cab fully caulked, free of gaps, with ECOAT application and thick paint.
- Cyclonic pre-filter with casing plated in special paint.
- 2.3 m³ (3.0 j³) dumpcart with teeth.

FLEETFORCE™

RUN YOUR FLEET



FleetForce is the **Hew Holland** telemetry system that collects information about the performance of the machine and its location, making it available in an easy to use format. With specialist support from your dealer, you will have more efficiency, lower operating costs and increased profitability.

FleetForce can be used in any Hew Holland machine or other brand, as well as in service vehicles and in any vehicle from your fleet.

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MANAGING YOUR FLEET ONLINE

MAXIMIZE YOUR FLEET'S PRODUCTIVITY:

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

- Identify the machines that are not being used and the machines that are being used too much.
- Compare the performance or the machine's tendency in fuel consumption throughout its course.
- Evaluate the machine's notifications to optimize your equipment usage.
- Configure the system in order to receive machine operation records scheduled maintenance warnings and safety warnings via email.

EFFECTIVE PLANNING:

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

GREATER PROFITABILITY:

- Your dealer can help you to increase your fleet's productivity by analyzing the machine's performance information, data relating to its downtime,

FEATURES OF THE PLAN	BÁSICO	AVANÇADO	SATÉLITE
FLEET MANAGEMENT			
Locate and perform the "ping" (test) of machines for project management			
Time reporting of the machine			
PLANNED MAINTENANCE			
Plan and prepare maintenance intervals			
SAFETY			
Electronic geographical fence (GeoFence): notifications about unplanned movements in real-time			
CurFew			
UTILIZATION ANALYSIS AND REPORT			
Reports on downtime, engine running, displacement time and use of the machine			
PERFORMANCE ANALYSIS			
Load data from the engine to compare machines and operations to identify operational tendencies			
FUEL INFORMATION AND REPORTS			
Consumption data to track the use of a machine or the entire fleet			
MECHANICAL OPERATING PARAMETERS			
Follow the operational characteristics of the machine: temperature, pressure, alerts for out of reach parameters and CAN-bus parameters for diagnostics and troubleshooting.			

SUBSCRIPTION PACKAGES

Available in three subscription packages, depending on the level of information:

- Basic subscription uses the key inputs from the ignition key contract, detection of movement and GPS tracking to ensure a range of information and reports.
- Advanced subscription adds custom control information and proprietary information not found in other telemetry systems, through our CAN-bus data.
- Connection subscription via satellite can be added to the basic and/or advanced subscription. Data update of your equipment via satellite connection can be every 4 hours and full reports every 24 hours.

Basic and Advanced packages provide a subscription of up to five years and the connection via satellite subscription is for one or two years, and you can purchase extensions for all your distributors via the Parts Department.

Find out more at your dealership.

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www.newholland.com



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AFTER-SALES OF THE NEW HOLLAND AUTHORIZED NETWORK – ENSURING HIGH PERFORMANCE AND PRODUCTIVITY

New Holland authorized network offers specialized services, strictly factory-trained professionals and original parts with quality assurance, in addition to full support in the purchase of your equipment and ease of financing.

New Holland after-sales service is at your disposal in order to guide you, and to provide the best options in the contracting of authorized services and in the acquisition of parts. With it, you ensure high performance and the best output from your machine, with all the security and the lowest cost-benefit ratio.

To gain full access to the productivity and advanced technology that only **New Holland** offers, rely on the **New Holland** authorized after-sales network.



AT YOUR DEALERSHIP:

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

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