

WE190BPRO WE210BPRO



	WE190B PRO	WE210B PRO
ENGINE POWER	118 kW - 158 hp	129 kW- 173 hp
MAX OPERATING WEIGHT	18800 - 20250 kg	20500 - 21650 kg



BUILT AROUND YOU

PRO AS IN PROGRESS. SETTING NEW STANDARDS

**PROGRESS FOR HIGH
SPEED, POWER
AND STABILITY**

**BRAND NEW
CONTROLS FOR A
MULTI-FUNCTION
MASTER**



IN PRODUCTIVITY, VERSATILITY AND RELIABILITY.

**PROGRESS IN EASY
OPERATION AND
COMFORT**

**EASY SERVICEABILITY
FOR MAXIMUM
UPTIME AND
RELIABILITY**



THE MAIN COMPONENTS OF OUR W

1 UNDERCARRIAGE

The extremely rigid design of the undercarriage ensures a long life. The new heavy-duty ZF axles and transmission provide excellent traction and deliver a higher maximum travel speed of 35 kph, reducing travel time between jobsites.

2 UPPERCARRIAGE AND ARMS

The new design of the B Series PRO optimises weight distribution and delivers an outstanding lifting performance on wheels. All the main service points are grouped and easily accessible at ground level. The arm has been redesigned to provide exceptional breakout force, 5% higher than in previous models.



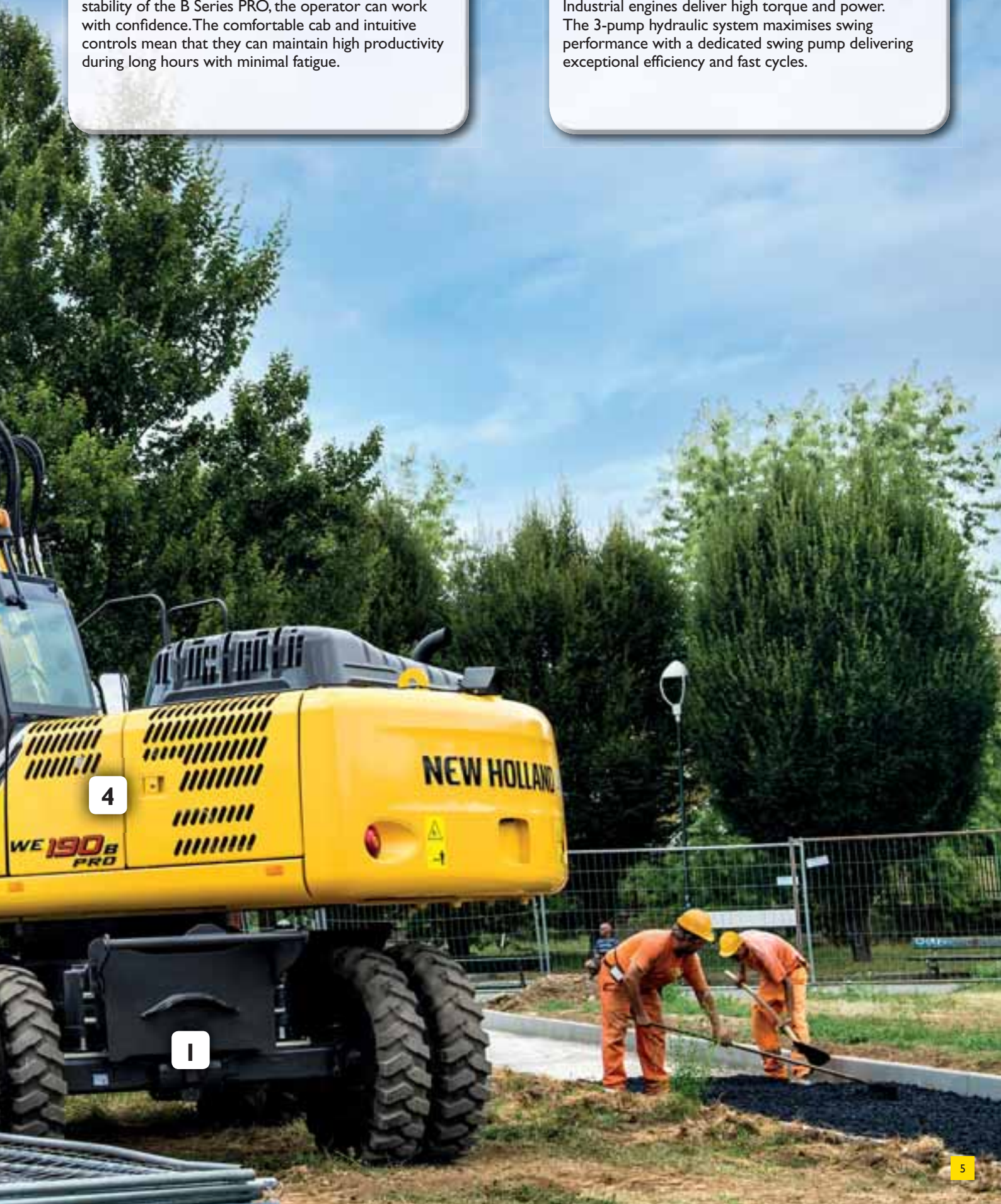
HEELED EXCAVATOR

3 CAB

With the ROPS and FOPS protection and exceptional stability of the B Series PRO, the operator can work with confidence. The comfortable cab and intuitive controls mean that they can maintain high productivity during long hours with minimal fatigue.

4 ENGINE & HYDRAULICS

The high performance, large displacement FPT Industrial engines deliver high torque and power. The 3-pump hydraulic system maximises swing performance with a dedicated swing pump delivering exceptional efficiency and fast cycles.



4



FAST, POWERFUL AND STABLE



UNDERCARRIAGE

The undercarriage is designed extremely rigid for a long lifetime. Four undercarriage structures are available to provide the best solution according to customer needs: rear blade, rear stabilizers, rear stabilizers and front blade, front and rear stabilizers. The standard width of the undercarriage is 2.55 m and can be optionally increased on the WE190B PRO to 2.75 m. The travel motor, the transmission and the hydraulic lines are well protected. The heavy-duty axles and higher ground clearance also contribute to the B Series PRO's reliability and durability. In addition the new heavy-duty ZF axles and transmission provide excellent traction and deliver a higher maximum travel speed of 35 kph, reducing travel time between jobsites.

NEW, SAFE AND RELIABLE DESIGN

The new design of the B Series PRO optimises weight distribution and minimises the offset of the undercarriage, resulting in exceptional stability and equally high lifting performance at the front and the rear. All these features combine to deliver an outstanding lifting performance on wheels. The arm, available in three lengths for each model, has been redesigned to improve the durability and to provide exceptional breakout force, 5% higher than in previous models.

BLADE

The blade with its parallel kinematics protects the surface when stabilizing the machine and the curved shape of the blade makes the material roll away from the machine when levelling, cleaning or dozing.



ENGINE AND HYDRAULICS: A PERFECT MATCH

The B Series PRO wheeled excavators run high performance in every working condition, thanks to:

- the large displacement FPT engines, that delivers high torque and power
- the new 3-pumps hydraulic system, that allows simultaneous and fast movements in every working conditions
- the electronic pump management system, that grants always the best match between engine and hydraulic power, minimizing the fuel consumption and the engine load.

In addition to this, the large displacement engine and the 3-pumps hydraulic system result in less wear, increasing the machine's reliability.

AUTOMATIC POWER BOOST

The automatic power boost kicks in when more power is needed, increasing pressure up to 370 bar.



SMOOTH AND ACCURATE CONTROLS



BRAND NEW CONTROLS FOR HIGH PRECISION

The electro-hydraulic system has been re-engineered and now relies on a single integrated CPU, with new software developed to maximise the machine's uptime and deliver clear diagnostics. The new system and software have successfully completed an extreme testing programme to optimise their performance and reliability.

PROPORTIONAL CONTROL AND NEW JOYSTICKS

The proportional controls and new low-effort joysticks with longer stroke further add to the excellent control characteristics of the B Series PRO in tasks requiring particularly high precision, such as levelling.

3-PUMPS SYSTEM

The 3-pumps hydraulic system with a dedicated pump for full independent swing operation enables the operator to carry out simultaneous movements under every load.



A MULTI-FUNCTION MASTER

The B Series PRO is a true multi-function master. The operator has a choice of working modes to match the requirements of their task. The **adjustable swing speed** enables them to adjust power and brake force according to the operation. For special applications, the swing brake mode is easily permanently engaged with a dedicated switch. When the highest precision is needed, the operator can activate the **levelling mode** on the left joystick.

ATTACHMENT MANAGEMENT

Managing the attachment's flow and pressure is very easy and up to 12 settings can be memorised for later use. With the attachment management system, proportional control and wide variety of possible configurations, the B Series PRO is designed to work with every type of -attachment, offering exceptional versatility.

WELCOME ON BOARD



EASY TO USE

The entire cab layout and control design have been developed with the operator in mind, to make the machine's operation intuitive and comfortable. The new dashboard with LCD monitor and screen dedicated to the rear view camera puts the operator in full control of the machine's status. The rational layout of the controls makes it very easy to operate the machine. For example, all travel controls - road mode, creep speed, gear shifting, axle lock - are grouped on a switch pad placed on the steering column. The slider function for the blade and stabilizers is on the right joysticks, together with the travel direction control. The working and simplified swing brake modes are easy to select.



COMFORTABLE

The spacious cab with pneumatic heated seat and large glazed areas offers an extremely comfortable workstation with excellent all round visibility, further enhanced by the rear view camera.

With an automatic air conditioning system a comfortable operating climate inside of the cab is ensured, contributing to the operator's well being every day. A radio with USB connection and bluetooth is included in the cab as well.

GREAT RELIABILITY AND EASY MAIN

The easy serviceability, added to the particular care that has gone into the durability of key components, from the heavy-duty axles to bucket linkages and the new design features such as the electro hydraulic controls and the 3-pumps hydraulic system, contribute to the exceptional reliability and durability of the B Series PRO wheeled excavators.

LOW MAINTENANCE BUSHINGS

The new **low maintenance bushings** result in longer greasing intervals (500 hours) and less downtime for the machine. Additional external bushings made of anti-wear steel provide extra protection to the arm and bucket's long-life internal bushing. When the radial surface becomes worn, these bushings are easy to change, increasing pin and bushing durability while reducing operating costs.



TENANCE



SAFE OBJECT HANDLING

New Holland Wheeled Excavators can be equipped with all the safety devices required by European Standards EN 474-5: 1996 for object handling operations. The optional Object Handling Kit (safety valves on dipper, loading hook and overload warning system) is available, for maximum operator confidence.



PROGRESS IN SAFETY

The reinforced structure of the cab complies with ROPS and FOPS standards. Together with the optional front guard it contributes to providing a safe working environment for the operator.

ROPS certified cab - ISO 12117-2
FOPS protection - ISO 10262 level 2



SERVICE POINTS AT GROUND LEVEL

All the main service points are grouped and easily accessible at ground level, so that daily maintenance operations can be completed quickly and efficiently.

RADIATOR LAYOUT

The side-by-side radiator layout results in an extremely reliable cooling performance and makes it easier to clean them. A front net keeps dust away from the radiators, lengthening the interval between cleanings.



CENTRALISED LUBRICATION

There are centralized greasing points for the boom on the upper carriage, accessible from the ground in order to make the maintenance easier and more convenient for the operator.

WEI90B PRO

SPECIFICATIONS



ENGINE

Net flywheel power (ISO 14396/ECE R120) 118 kW / 158 hp
Rated 2000 rpm
Make and model CNH F4GE9684E*J607
Type Water-cooled, direct injection type diesel engine with intercooler turbo-charger
Displacement 6.7 l
Number of cylinders 6
Bore x stroke 104 x 132 mm
Maximum torque at 1200 rpm 670 Nm
Remote engine oil filter for easy replacement
Auto-Idling selector returns engine to minimum rpm when all controls are in neutral position
-25° C outside temperature start as standard equipment
The engine complies with 97/68/EC standards STAGE IIIA



ELECTRICAL SYSTEM

Voltage 24V
Batteries 2 x 12V
Battery rating (each) 100 Ah
Alternator 70 A
Starter motor 4 kW



TRANSMISSION

	km/h	km/h
Max travel speed (2 nd gear)	20	35
Field travel speed (1 st gear)	5	8
Min creep speed	2.5	2.5
Max drawbar pull.....	115 kN	

Power Shift multi-disc gearbox shiftable under load.
Automatic or manual gear shift control.
Travel mode automatically engaged by pressing accelerator pedal.
Optional: 2,75 m wide axles for higher stability when working unsupported; availability can be limited by local homologation.



HYDRAULIC SYSTEM

Primary pumps 3 variable displacement, axial piston
Total maximum flow 389 l/min (2 x 144 + 101)
Auxiliary low flow, optional (on/off) 22 l/min
Auxiliary medium flow, optional (proportional) 80 l/min
Implement/travel pressure 340 / 370 bar
PowerBoost 370 bar
Swing circuit pressure 360 / 390 bar
Pilot pump 45 bar
Boom cylinder mono 115 x 1170 mm
Boom cylinder 2-piece boom 115 x 1020 mm
Arm cylinder 125 x 1290 mm
Bucket cylinder 105 x 1025 mm
Positioning cylinder 155 x 745 mm
Cylinder end stroke damping.
Electrohydraulic servo-control.
Three-pump hydraulics with two main pumps and separate swing pump. 8 selectable power stages with permanent Power Boost in lift stages: Low idle, Lift 1, Lift 2, Eco 1, Eco 2, Eco 3, Heavy, Roadtravel
Levelling mode for smooth operation.

Adjustable swing acceleration (power) and deceleration (brake)
Automatic power increase in the drive mode.



SWING DRIVE

Swing speed 9 rpm
Swing torque 53 kNm
The swing function is operated by a hydraulic closed circuit coupled with a mechanical reducer integrating an automatic static brake. The hydrostatic swing brake is adjustable in 3 settings.



BRAKES

Service brakes: play free, oil bath multi disc type integrated in all four wheel hubs.
Work brake: acts on service brakes and locks front axle oscillation.
Parking brake: spring type mechanical acting on the transmission.
Emergency brake: double braking circuit and automatic parking and brake actuation with the engine shut down.



STEERING

Type ORBITROL with safety valve
Pump gear type
Steering cylinder double effect, integrated in axle



TYRES

Twin tyres 10.00-20, 11.00-20
Single tyres 18R 22.5, 600/40-22.5
Tyre availability can be limited by local homologation.



CAPACITIES

Engine oil 15 l
Cooling system 22 l
Fuel tank 274 l
Hydraulic system (incl. tank) 235 l for mono
250 l for triple articulation

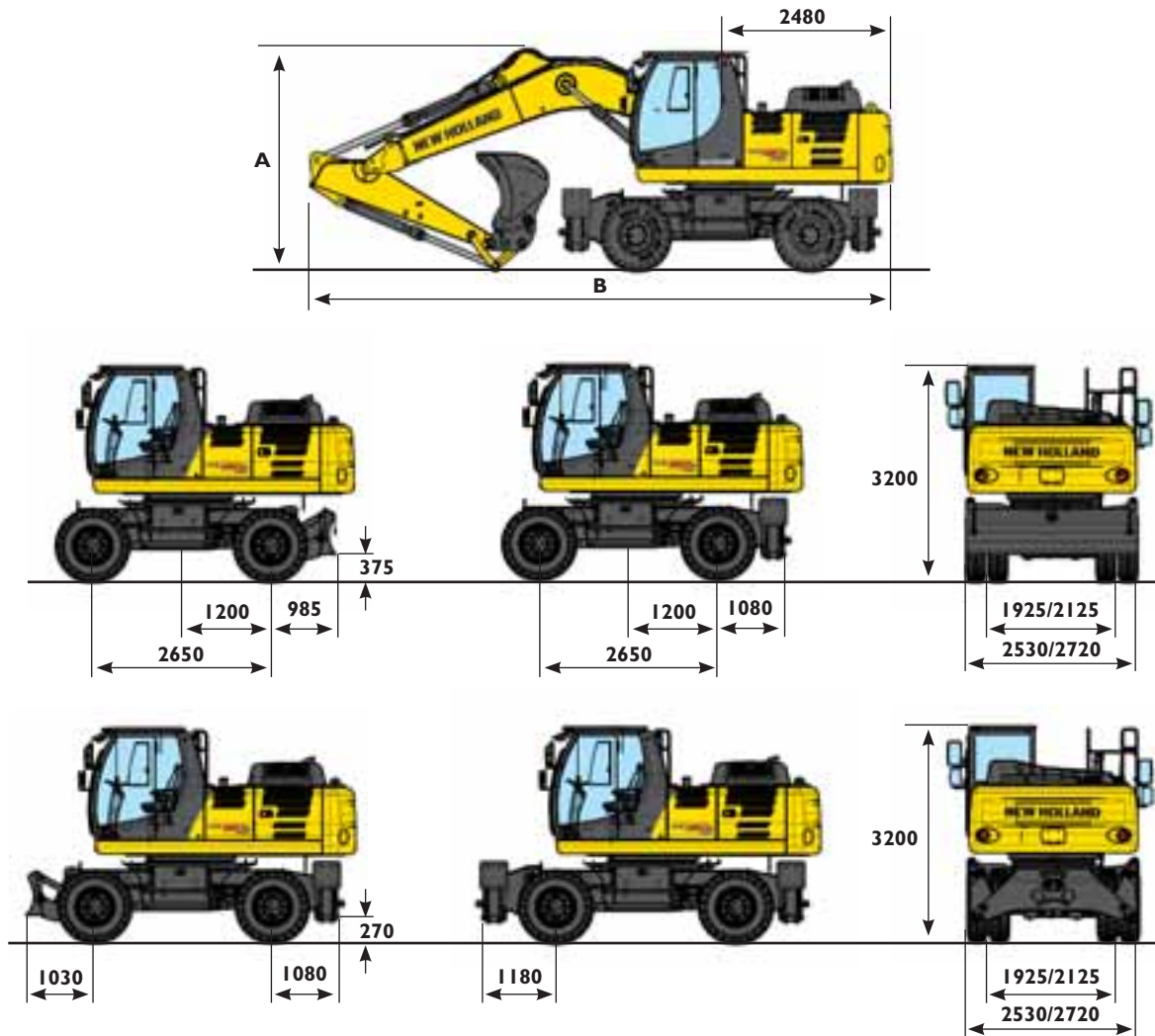


CAB AND CONTROLS

Sound suppressed cab with modern design, integrated ROPS and standard FOPS.
Rear View Camera with dedicated screen
Control panel with LCD monitor integrating error diagnosis function and analogical gauges for engine cooling temperature and fuel level.
Incline adjustable steering column.
Ergonomic design of armrests and foot pedals, armrest adjustable.
Operator's seat individually adjustable in height and inclination.
Tiltable left console. Standard pneumatic and heated seat.
Radio with Bluetooth.
Automatic air conditioning.

DIMENSIONS

equipped with twin tires 10.00 - 20



ARM		TRIPLE ARTICULATION 5.4 m			MONOBOOM 5.2 m		
		2200	2600	3100	2200	2600	3100
A	mm	2880	2830	3490	3120	3200	3800
B - with rear blade	mm	8920	8845	8835	8890	8810	8820
B - with rear stabilizers	mm	8920	8845	8835	8895	8810	8820

OPERATING WEIGHT

2.55 axle width include bucket 610 kg and quick coupler 250 kg (with 10.00-20)

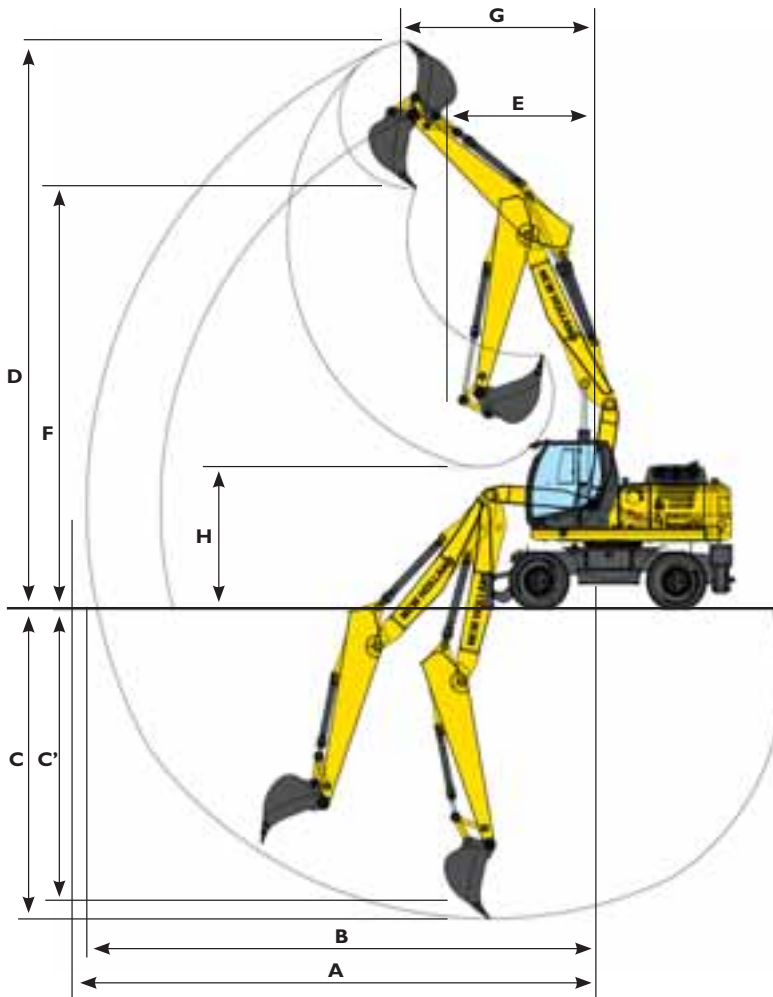
ARM		TRIPLE ARTICULATION			MONOBOOM		
		2200	2600	3100	2200	2600	3100
Rear blade	kg	18550	18600	18700	18150	18200	18300
Stabilizers	kg	18950	19000	19100	18550	18600	18700
Blade and stabilizers	kg	19500	19550	19650	19150	19200	19300
Stabilizers rear and front	kg	20000	20050	20150	19650	19700	19800

2.75 axle width include bucket 610 kg and quick coupler 250 kg (with 11.00-20)

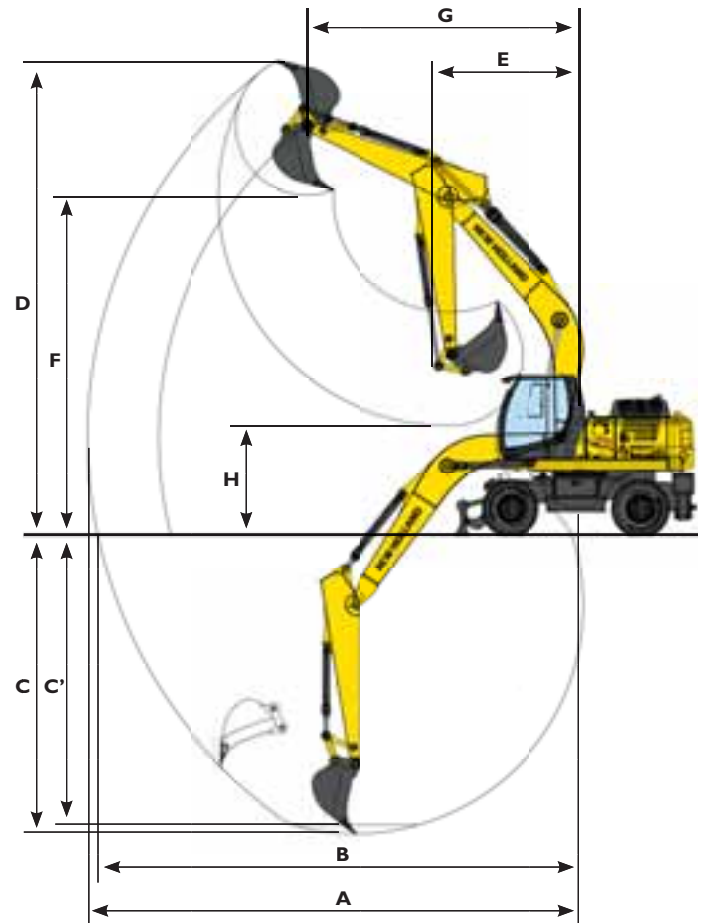
ARM		TRIPLE ARTICULATION			MONOBOOM		
		2200	2600	3100	2200	2600	3100
Rear blade	kg	18650	18700	18800	18250	18300	18400
Stabilizers	kg	19050	19100	19200	18650	18700	18800
Blade and stabilizers	kg	19650	19700	19800	19250	19300	19400
Stabilizers rear and front	kg	20100	20150	20250	19750	19800	19900

DIGGING PERFORMANCE

TRIPLE ARTICULATION



MONOBOOM



ARM		TRIPLE ARTICULATION			MONOBOOM			
		2200	2600	3100	2200	2600	3100	
A	Max. digging reach	mm	9000	9400	9900	8900	9300	9800
B	Max. digging reach at ground level	mm	8800	9200	9700	8700	9100	9600
C	Max. digging depth	mm	4900	5300	5800	4900	5300	5800
C'	Max. depth of cut for 8° level bottom	mm	4800	5200	5700	4700	5100	5700
D	Max. digging height	mm	10100	10300	10800	9200	9300	9600
E	Min. front swing radius	mm	3050	2800	2900	3400	3300	3300
F	Max. loading height	mm	7400	7600	8000	6500	6600	7000
G	Front swing radius at max height	mm	2900	3200	3500	4400	4800	5200
H	Max. loading height (arm retracted)	mm	3700	3100	2600	3100	2700	2200

BREAKOUT FORCE - ISO

ARM		2200	2600	3100
Bucket	daN	12000	12000	12000
Dipperstick	daN	10300	8800	7700

WE210B PRO

SPECIFICATIONS

ENGINE

Net flywheel power (ISO 14396/ECE R120) 129 kW / 173 hp
 Rated 2000 rpm
 Make and model F4GE9684G J666
 Type Water-cooled, 6 cylinder direct injection
 type diesel engine with intercooler turbo-charger
 Displacement 6.728 l
 Number of cylinders 6
 Bore x stroke 104 x 132 mm
 Maximum torque at 1200 rpm 745 Nm
Remote engine oil filter for easy replacement
Auto-idling selector returns engine to minimum rpm when all
 controls are in neutral position
-25° C outside temperature start as standard equipment
 The engine complies with 97/68/EC standards STAGE IIIA

ELECTRICAL SYSTEM

Voltage 24V
 Batteries 2 x 12V
 Battery rating (each) 100 Ah
 Alternator 70 A
 Starter motor 4 kW

TRANSMISSION

	km/h	km/h
Max travel speed	20	35
Field travel speed	5	9
Min creep speed	2.9	2.9
Max drawbar pull.....	121 kN	

Power Shift multi-disc gearbox shiftable under load.
 Automatic or manual gear shift control.
 Travel mode automatically engaged by pressing accelerator pedal.
 Optional: 2,75 m wide axles for higher stability when working
 unsupported; availability can be limited by local homologation.

HYDRAULIC SYSTEM

2 x Primary pumps 3 variable displacement, axial piston
 Total maximum flow 512 l/min (2 x 203 + 106)
 Auxiliary low flow, optional (on/off) 22 l/min
 Auxiliary medium flow, optional (proportional) 80 l/min
 Implement/travel pressure 340 / 370 bar
 PowerBoost 370 bar
 Swing circuit pressure 360 / 390 bar
 Pilot pump 45 bar
 Boom cylinder mono 120 x 1290 mm
 Boom cylinder 2-piece boom 120 x 990 mm
 Arm cylinder 135 x 1560 mm
 Bucket cylinder 120 x 1080 mm
 Positioning cylinder 170 x 640 mm
 Cylinder end stroke damping.
 Electrohydraulic servo-control.
 Three-pump hydraulics with two main pumps and separate swing
 pump. 8 selectable power stages with permanent Power Boost in lift
 stages: Low idle, Lift 1, Lift 2, Eco 1, Eco 2, Eco 3, Heavy, Roadtravel
 Levelling mode for smooth operation.

Adjustable swing acceleration (power) and deceleration (brake)
 Automatic power increase in the drive mode.

SWING DRIVE

Swing speed 9 rpm
 Swing torque 58 kNm
 The swing function is operated by a hydraulic closed circuit coupled
 with a mechanical reducer integrating an automatic static brake. The
 hydrostatic swing brake is adjustable in 3 settings.

BRAKES

Service brakes: Play free, oil bath multi disc type integrated operating at
 75 bar.
 Work brake: Acts on service brakes and locks front axle oscillation.
 Parking brake: Spring type mechanical action on the transmission in all
 four wheel hubs
 Emergency brake: Double braking circuit and automatic parking and
 brake actuation with the engine shut down

STEERING

Type ORBITROL with safety valve
 Pump gear type
 Steering cylinder double effect, integrated in axle

TYRES

Twin tyres 10.00-20/11.00-20
 Single tyres 18 -22.5/600-40-22.5/620-40-22.5
 Tyre availability can be limited by local homologation.

CAPACITIES

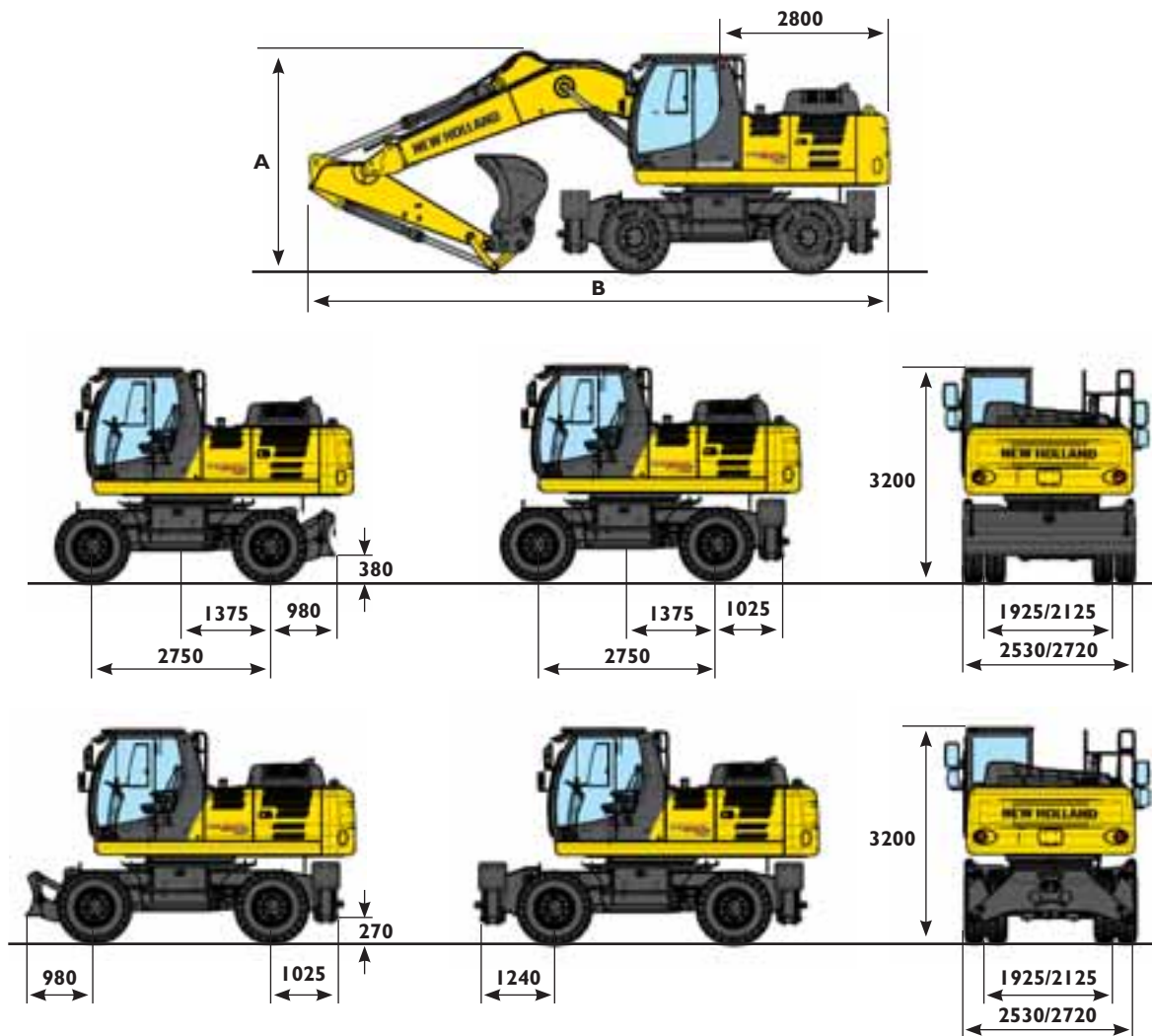
Engine oil 8/15 l
 Cooling system 1 l
 Fuel tank 296 l
 Hydraulic system (incl. tank) 270 l for mono
 290 l for triple articulation

CAB AND CONTROLS

Sound suppressed cab with modern design, integrated ROPS and
 standard FOPS.
 Rear View Camera with dedicated screen
 Control panel with LCD monitor integrating error diagnosis function
 and analogical gauges for engine cooling temperature and fuel level.
 Incline adjustable steering column.
 Ergonomic design of armrests and foot pedals, armrest adjustable.
 Operator's seat individually adjustable in height and inclination.
 Tiltable left console. Standard pneumatic and heated seat.
 Radio with Bluetooth.
 Automatic air conditioning.

DIMENSIONS

equipped with twin tires 11.00 - 20



ARM		TRIPLE ARTICULATION 5.5 m			MONOBOOM 5.6 m		
		2100	2400	2940	2100	2400	2940
A	mm	2970	2985	3115	3345	3270	3230
B - with rear blade	mm	9385	9355	9360	9765	9730	9655
B - with rear stabilizers	mm	9385	9355	9360	9765	9730	9700

OPERATING WEIGHT

2.55 axle width include bucket 800 kg and quick coupler 250 kg (with 11.00-20)

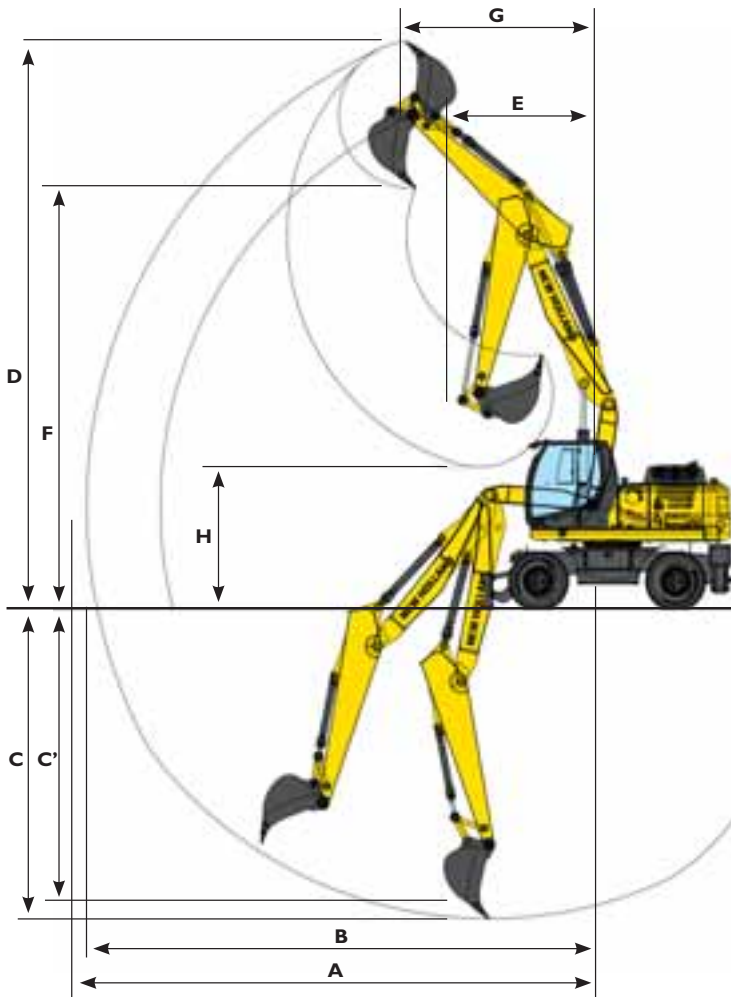
ARM		TRIPLE ARTICULATION			MONOBOOM		
		2100	2400	2940	2100	2400	2940
Rear blade	kg	20300	20300	20400	19950	19950	20050
Stabilizers	kg	20600	20600	20700	20350	20350	20450
Blade and stabilizers	kg	21200	21200	21300	20950	20950	21050
Stabilizers rear and front	kg	21450	21450	21550	21200	21200	21300

2.75 axle width include bucket 800 kg and quick coupler 250 kg (with 11.00-20)

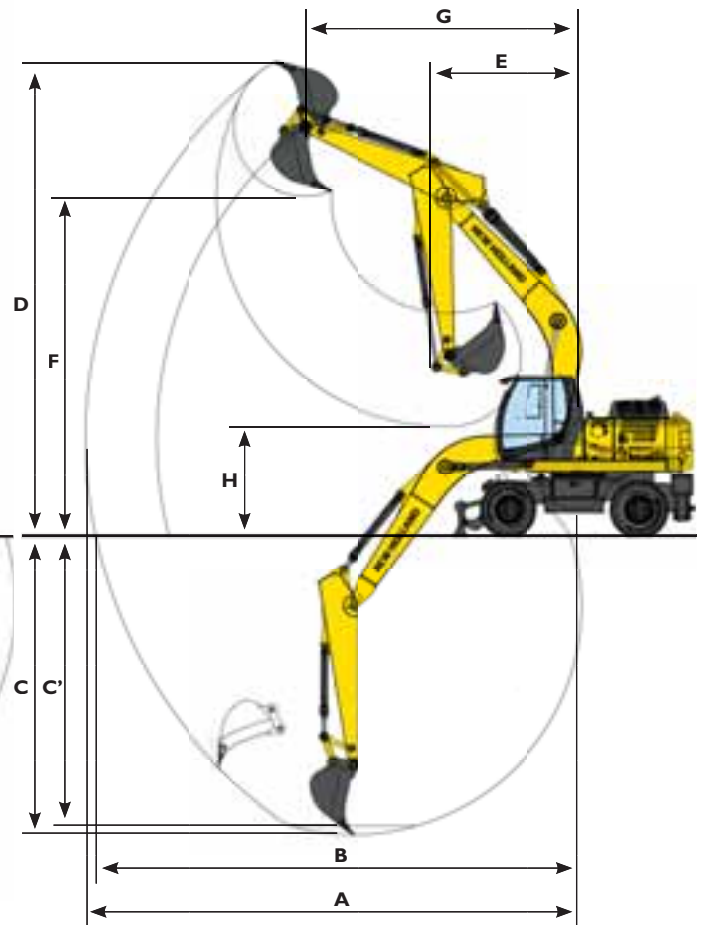
ARM		TRIPLE ARTICULATION			MONOBOOM		
		2100	2400	2940	2100	2400	2940
Rear blade	kg	20400	20400	20500	20050	20050	20150
Stabilizers	kg	20700	20700	20800	20450	20450	20550
Blade and stabilizers	kg	21300	21300	21400	21050	21050	21150
Stabilizers rear and front	kg	21550	21550	21650	21300	21300	21400

DIGGING PERFORMANCE

TRIPLE ARTICULATION



MONOBOOM



ARM		TRIPLE ARTICULATION			MONOBOOM			
		2100	2400	2940	2100	2400	2940	
A	Max. digging reach	mm	9050	9330	9830	9300	9600	10080
B	Max. digging reach at ground level	mm	8830	9120	9640	9120	9390	9880
C	Max. digging depth	mm	4920	5230	5750	5010	5330	5870
C'	Max. depth of cut for 8° level bottom	mm	10120	10300	10660	10280	10420	10730
D	Max. digging height	mm	4810	5130	5660	4790	5130	5700
E	Min. front swing radius	mm	3370	3100	2800	3240	2940	2790
F	Max. loading height	mm	7190	7370	7740	7370	7510	7830
G	Front swing radius at max height	mm	3130	3420	3830	3430	3740	4190
H	Max. loading height (arm retracted)	mm	3720	3250	2610	3950	3520	2920

BREAKOUT FORCE - ISO

ARM		2100	2400	2940
Bucket	daN	15200	15200	15200
Dipperstick	daN	14800	12900	10900

STANDARD EQUIPMENT

- Latest generation FPT Stage III / Tier 3 diesel engine
- Direct injection with turbo charger and charge air cooling
- Air filter with safety cartridge
- Engine filters (oil, fuel and water separator) in remote position
- Auto-idling system
- Cold starting equipment (-25°C)
- Pump management system by power limit control
- Electrohydraulic servo control
- 3-pumps hydraulic system with two service pumps and separate swing pump
- Auto Power Boost system
- 8 selectable power stages with permanent Power Boost in lift stages
- Automatic power increase in road travel mode
- Automatic battery main switch (coupled to ignition key)
- Electronic immobiliser (PIN code)
- 12V electrical auxiliary supply in cab
- Swing hydrostatic braking
- Automatic / permanent swing brake modes
- Swing drive with low-wearing disc brake
- Adjustable swing acceleration (power) and deceleration (brake)
- Cab according ROPS ISO 12117-2: 2008
- FOPS Level 2
- Noise-insulated and viscous mounted cab
- Tinted safety glazing all around, full up and over windscreen
- Sun blinds, large roof window, transparent rain protection
- Automatic air conditioning
- Rear View Camera with dedicated screen
- Radio with Bluetooth
- Control panel with LCD monitor integrating error diagnosis function and analogical gauges for engine cooling temperature and fuel level
- Ergonomic design of arm rests and foot pedals
- Air suspension seat individually adjustable for height and incline
- Consoles adjustable for height and length
- Forward/Reverse shifting on right joystick
- Centralised and independent control of blade and stabilizers on right joystick
- 2 front headlights (cab mounted)
- Road travel lights (front and rear)
- Robust, shielded arc-welded, modular chassis in box section design
- Power Shift gear box with manual / automatic gear shifting
- Heavy duty axles with brakes for play-free work
- Hydrostatic travel braking
- Creeper speed
- Large toolbox under the step (right side)
- Encased ball bearing slew ring with long-life lubrication
- Manual / automatic axle locking system
- Electric diesel filling system
- Safety valves on boom cylinders
- Cylinders with end-stroke damping system
- Long interval greasing bushings (500 hours)
- Centralized greasing nipples on upperframe and boom
- 2 working lights on boom

OPTIONS

- Hydraulic circuit for hammer / shears
- Hydraulic circuit for grab rotation 22 l/min - ON/OFF control
- Hydraulic circuit for grab rotation 80 l/min - PROPORTIONAL Control
- Quick coupler provision on upperframe
- Mineral hydraulic oil
- Biodegradable hydraulic oil (Panolin)
- Front Guard Protective system FGPS
- 20 km/h speed
- 35 km/h speed
- Single or twin tyres
- Dozer blade with parallel guidance
- Heavy duty stabilizers with cylinder protection guards
- Transport holder for clamshell grab
- Blade cylinders protection guard
- One piece boom, triple articulation (2 piece boom)
- Arms: WE190B PRO: 2200 - 2600 - 3100 mm
WE210B PRO: 2100 - 2400 - 2940 mm
- Object handling kit with safety valve on arm cylinder, overloading warning device and load hook

Note: standard and optional equipment may vary by country. Consult your NEW HOLLAND dealer for specific details.

AT YOUR OWN DEALERSHIP

The information contained in this brochure is intended to be of general nature only. The NEW HOLLAND 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.

Published by NEW HOLLAND CONSTRUCTION MACHINERY S.p.A.
Printed in Italy - MediaCross Firenze - Cod 3070 IGB - Printed 09/13

Printed on recycled paper
CoC-FSC 000010 CQ Mixed sources



www.newholland.com

