

# **B100<sub>C</sub> B110<sub>C</sub> B115<sub>C</sub>**

**TIER 4i  
INSIDE**



|                          | <b>B100C</b>                    | <b>B110C</b>                    | <b>B115C</b>                    |
|--------------------------|---------------------------------|---------------------------------|---------------------------------|
| <b>BUCKET CAPACITY</b>   | UP TO 1.0 m <sup>3</sup> BUCKET | UP TO 1.2 m <sup>3</sup> BUCKET | UP TO 1.2 m <sup>3</sup> BUCKET |
| <b>ENGINE POWER</b>      | 97 HP                           | 110 HP                          | 110 HP                          |
| <b>MAX DIGGING DEPTH</b> | 5.8 m                           | 5.8 m                           | 5.6 m                           |



**BUILT AROUND YOU**

# AS LONG AS WE KEEP ON BUILDING, THERE

## 14% FUEL SAVING

Tier 4 Interim backhoe loader

## BEST IN CLASS PRODUCTIVITY

10% more power than  
competitive machines



# WE WILL ALWAYS BE A DREAM TO ACHIEVE

## WELCOME ON BOARD

Class-leading operator  
environment

## LOW COST OF OWNERSHIP

Fuel efficient  
Easy to maintain



# 14% FUEL SAVING



## LESS FUEL CONSUMPTION, LESS EMISSIONS

The engine is the heart of a backhoe loader: that's why we design and produce it ourselves. This allows us to calibrate it in order to give you the best performance and the lowest fuel consumption for your own application.

In addition, when you are not using the full power of the machine, the variable flow hydraulic pump only takes from the engine the energy it needs. This results in significant extra fuel saving and lower noise levels.

## CLEAN ENERGY AND QUIET OPERATION IN RESIDENTIAL AREAS

The C Series backhoe loaders comply with the extremely strict Tier 4 interim regulations, dramatically cutting emissions levels, with over 90% less Particulate Matter, or soot, and 50% less Nitrogen Oxide than the previous generation. External noise levels are exceptionally low and the New Holland CB90S silenced hydraulic hammers, specially designed for the backhoe loaders, further contribute to these machines' quiet operation. They are fitted with rubber pads to reduce ground damage. The low emissions and noise levels, together with the low ground damage, make the C Series backhoe loaders ideal for working in residential areas.





## DELIVERING THE PERFORMANCE OF CRAWLER EXCAVATOR

The typical "Banana boom" is designed like the arm of a large excavator. The in-line cylinders reduce effort, improve visibility and increase digging performance. Smoother moves allow for a faster positioning of the arm over the trench and increase the great stability of the machine. When digging, the load sensing hydraulic system combined with flow sharing valves provide smooth and accurate control, fast loading cycles and, when necessary, is ideal for delicate operations.



## LONG REACH ARM: BECAUSE YOU HAVE NO TIME TO LOOSE !

The long reach arm, half a meter longer than that of other backhoe loaders, means that you won't have to reposition the machine constantly.



# BEST IN CLASS PRODUCTIVITY



## JUST LIKE A WHEEL LOADER!

### EASY LOADING:

- All loading functions are on a single joystick
- Maximize bucket filling with the Powershift transmission and its kick down function at your finger tips
- Work faster with the superior loader breakout force
- Lift loads from 3.2 to 3.5 tons at 3.5 m dumping height
- Auto-Glide Ride automatically deactivates when you are loading.
- Work efficiently, keeping one hand on the steering wheel and the other on the loader joystick

### EASY ROADING:

- Optimise bucket retention with Auto-Glide Ride: no arm bounce when travelling, activates automatically at speeds over 5km/h
- Enjoy the superior comfort of the suspended seat
- Work efficiently and safely with the excellent all-round visibility provided by the wide glazed area

### GREAT ABILITY ON SOFT SOILS AND TOUGH TERRAINS:

- Excellent traction in the worst conditions with the 100% lockable differential, on the B100C and B110C and with the limited slip differential on the B115B
- Superior stability in the uneven ground of residential construction sites with the front axle that can oscillate up to 22 degrees from side to side
- Superior floatability with the 20" tyres available on the B100CTC and B110CTC

### EASY DUMPING:

- Maximise bucket retention with the bucket's mechanical self levelling on TC models
- Dump your load with ease on a truck with the curved loader arm on TC models
- Automatically return the bucket to dig after dumping simply by pushing the joystick forward and to the left

### SIMPLE LEVELLING

Just push the joystick forward to activate levelling.



## SUPERIOR POWER, GREAT CONTROL

100 or 110 hp: that is 10 hp more than our main competitors!

## SMOOTH CONTROL UNDER LOAD WITH POWERSHIFT

Available on all models, the Powershift transmission provides maximum operator comfort.

In “full automatic mode” the transmission will auto-shift either up or down the gears, depending on speed and load, improving cycle times and simplifying road travel.

The BI00C and BI10C are also available with the robust PowerShuttle transmission.

## MINIMUM DOWNTIME



- Hydraulic side shift (option):  
Fast and accurate positioning of the boom without damaging the ground
- Excellent lighting for night working
- 4 front and 4 rear working lights (on all models equipped with variable flow pump)

# WELCOME ON BOARD







## ALL CONTROLS AT YOUR FINGERTIPS

- Fully adjustable working position with outstanding visibility.
- Quiet working environment: cab interior 77 dB
- Easy cleaning
- Removable floor covering and flat cab floor make cleaning easier
- Storage room
- Cup holder
- Wider glove box

## ROOMY CAB WITH EASY ACCESS

- Simultaneous control
- All loader and bucket controls are located on the joystick
- Deluxe operator's seat
- Adjustable comfortable armrest
- Suspension seat with height pneumatically adjustable
- Unbeatable comfort on rough terrain and on the road
- Excellent ventilation
- Partial or full opening of both front and rear side windows
- Cab fan (option)
- Standard heater or air conditioning (option)

# LOW COST OF OWNERSHIP



## EXCEPTIONAL SAVINGS

If your New Holland machine is used for 800 h/year, we estimate that our new hydraulic system, including the Variable Displacement Pump, will result in average savings of up to 1000 €/year. The new engine and variable displacement pump can save up to 14% fuel compared to the previous gear pump models.



## VANDAL PROOF: PROTECT YOUR INVESTMENT ON SITE

- Secure hydraulic oil cap-breather
- Battery box is locked with a key
- Engine hood can be unlocked only from the cab
- An anti-theft device is available as option

## SMART DESIGN

- Driving light protection
- Rear driving lights have 2 positions:
- transport position: on the stabs
  - working position: on the cab, so that they are completely protected



## BEST IN CLASS ACCESSIBILITY

- The tilting engine hood provides excellent ground level access to the engine and service points.
  - Central service point location
- Daily check and fill points are accessible from ground level for time saving. On the machine's left side, just above the fuel tank, you can easily reach:
- the hydraulic pressure check points,
  - steering circuit,
  - pilot control,
- All grouped together for time and cost reduction whilst improving efficiency, durability and performance



## EASY DIAGNOSIS

Quick engine diagnosis is possible with the New Holland Electronic Service Tool

## NO SEPARATE BRAKE FLUID

Hydraulic oil is used as the brake fluid, so no need to use separate tank and no risk of using the wrong fluid



## PROTECTED BATTERY EASY TO REACH

The Battery is easily reached in the tool box located on the right side, underneath the cab. By removing one panel it is simple to access both the battery and the master switch.

# BI00C/BI00C TC

## SPECIFICATIONS BI00C



### ENGINE

Engine Power ..... 97 hp @ 2200 rpm  
Maximum torque ..... 453 Nm @ 1400 rpm  
Type ..... 3.4 litre FPT Industrial engine turbocharged,  
common rail injection

18" tires 2-wheel steer  
1.0 m<sup>3</sup> bucket  
Powershuttle Transmission (standard)  
Pilot / Mechanical Control

CO<sub>2</sub> emissions ..... 890 g/kWh  
NO<sub>x</sub> emissions ..... 3.03  
HC emissions ..... 0.004  
CO emissions ..... 0.05  
PM emissions ..... 0.01  
NO<sub>x</sub> + NMHC emissions ..... 3.034



### ELECTRICAL SYSTEM

Battery ..... 12V 95Ah, 900 A (SAE) - 120 A



### HYDRAULIC SYSTEM

Type of pump ..... gear or variable displacement pump  
Maximum flow ..... 156 or 6 to 165 l/min @ 2200 rpm  
Maximum pressure level ..... 205 bars



### OPERATING WEIGHT

With standard backhoe and 6-in-1 bucket ..... 8120 kg  
With Extendible Backhoe and 6-in-1 bucket ..... 8350 kg



### AXLES

Front axle with +/- 11° oscillation ..... Standard  
Rear axle ..... 100% lockable



### TYRES

Tires can be multipurpose, hard soil specific or soft soil specific  
Tires ..... 18" front with 26" or 28" rear

#### Turning radius

Front tyres 12.5/80-18, wheel not braked, 4WD engaged  
- at ext. edge of front tires ..... 4300 mm  
- at bucket corner ..... 5600 mm



### BRAKES

Power Brake with 2472 cm<sup>2</sup> friction area



### CAPACITIES

Fuel tank ..... 145 l  
Cooling system ..... 24 l



### NOISE AND VIBRATION

Internal (dB(A)) ..... 77  
External (dB(A)) ..... 102  
Upper limbs 2,5 m/s<sup>2</sup> ..... 2.5  
Abdomen 0,5 m/s<sup>2</sup> ..... 0.5

## SPECIFICATIONS BI00C TC



### ENGINE

Engine Power ..... 97 hp @ 2200 rpm  
Maximum torque ..... 453 Nm @ 1400 rpm  
Type ..... 3.4 litre FPT Industrial engine turbocharged,  
common rail injection

20" or 18" tires 2-wheel steer  
1.2 m<sup>3</sup> bucket or 1.0 m<sup>3</sup> bucket  
Powershift / Powershuttle Transmission  
Pilot / Mechanical Control

CO<sub>2</sub> emissions ..... 890 g/kWh  
NO<sub>x</sub> emissions ..... 3.03  
HC emissions ..... 0.004  
CO emissions ..... 0.05  
PM emissions ..... 0.01  
NO<sub>x</sub> + NMHC emissions ..... 3.034



### ELECTRICAL SYSTEM

Battery ..... 12V 95Ah, 900 A (SAE) - 120 A



### HYDRAULIC SYSTEM

Type of pump ..... Variable Displacement  
Maximum flow ..... 6 to 165 l/min @ 2200 rpm  
Maximum pressure level ..... 205 bars



### OPERATING WEIGHT

With standard backhoe and 6-in-1 bucket ..... 8270 kg  
With Extendible Backhoe and 6-in-1 bucket ..... 8500 kg



### AXLES

Front axle with +/- 11° oscillation ..... Standard  
Rear axle ..... 100% lockable



### TYRES

Tires can be multipurpose, hard soil specific or soft soil specific  
Tires ..... 18" front with 26" or 28" rear or 20" front with 30" rear

#### Turning radius

Front tyres 12.5/80-18, wheel not braked, 4WD engaged  
- at ext. edge of front tires ..... 4300 mm  
- at bucket corner ..... 5600 mm



### BRAKES

Power Brake with 2472 cm<sup>2</sup> friction area



### CAPACITIES

Fuel tank ..... 145 l  
Cooling system ..... 24 l



### NOISE AND VIBRATION

Internal (dB(A)) ..... 77  
External (dB(A)) ..... 102  
Upper limbs 2,5 m/s<sup>2</sup> ..... 2.5  
Abdomen 0,5 m/s<sup>2</sup> ..... 0.5

# BI10CTC/BI15CTC

## SPECIFICATIONS BI10CTC



### ENGINE

Engine Power ..... 110 hp @ 2200 rpm  
 Maximum torque ..... 460 Nm @ 1400 rpm  
 Type ..... 3.4 litre FPT Industrial engine turbocharged,  
 common rail injection

20" or 18" tires 2-wheel steer  
 1.2 m<sup>3</sup> bucket or 1.0 m<sup>3</sup> bucket  
 Powershift / Powershuttle Transmission  
 Pilot / Mechanical Control

CO<sub>2</sub> emissions ..... 890 g/kWh  
 NO<sub>x</sub> emissions ..... 3.03  
 HC emissions ..... 0.004  
 CO emissions ..... 0.05  
 PM emissions ..... 0.01  
 NO<sub>x</sub> + NMHC emissions ..... 3.034



### ELECTRICAL SYSTEM

Battery ..... 12V 95Ah, 900 A (SAE) - 120 A



### HYDRAULIC SYSTEM

Type of pump ..... Variable Displacement  
 Maximum flow ..... 6 to 165 l/min @ 2200 rpm  
 Maximum pressure level ..... 205 bars



### OPERATING WEIGHT

With standard backhoe and 6-in-1 bucket ..... 8270 kg  
 With Extendible Backhoe and 6-in-1 bucket ..... 8500 kg



### AXLES

Front axle with +/- 11° oscillation ..... Standard  
 Rear axle ..... 100% lockable



### TYRES

Tires can be multipurpose, hard soil specific or soft soil specific  
 Tires ..... 18" front with 26" or 28" rear or 20" front with 30" rear  
**Turning radius**

Front tyres 12.5/80-18, wheel not braked, 4WD engaged  
 - at ext. edge of front tires ..... 4300 mm  
 - at bucket corner ..... 5600 mm



### BRAKES

Power Brake with 2472 cm<sup>2</sup> friction area



### CAPACITIES

Fuel tank ..... 145 l  
 Cooling system ..... 24 l



### NOISE AND VIBRATION

Internal (dB(A)) ..... 77  
 External (dB(A)) ..... 103  
 Upper limbs 2,5 m/s<sup>2</sup> ..... 2.5  
 Abdomen 0,5 m/s<sup>2</sup> ..... 0.5

## SPECIFICATIONS BI15CTC



### ENGINE

Engine Power ..... 110 hp @ 2200 rpm  
 Maximum torque ..... 460 Nm @ 1400 rpm  
 Type ..... 3.4 litre FPT Industrial engine turbocharged,  
 common rail injection

4 equal-sized wheel steer  
 1.2 m<sup>3</sup> bucket  
 Powershift Transmission (standard)  
 Pilot / Mechanical Control

CO<sub>2</sub> emissions ..... 890 g/kWh  
 NO<sub>x</sub> emissions ..... 3.03  
 HC emissions ..... 0.004  
 CO emissions ..... 0.05  
 PM emissions ..... 0.01  
 NO<sub>x</sub> + NMHC emissions ..... 3.034



### ELECTRICAL SYSTEM

Battery ..... 12V 95Ah, 900 A (SAE) - 120 A



### HYDRAULIC SYSTEM

Type of pump ..... Variable Displacement  
 Maximum flow ..... 6 to 165 l/min @ 2200 rpm  
 Maximum pressure level ..... 205 bars



### OPERATING WEIGHT

With standard backhoe and 6-in-1 bucket ..... 8870 kg  
 With Extendible Backhoe and 6-in-1 bucket ..... 9100 kg



### AXLES

Front axle with +/- 11° oscillation ..... Standard  
 Rear axle ..... Limited Slip Differential (front and rear)



### TYRES

Tires can be multipurpose, hard soil specific or soft soil specific  
 Tires ..... 24" front with 24" or 28" front with 28" rear  
**Turning radius**

Front tyres 12.5/80-18, wheel not braked, 4WD engaged  
 - at ext. edge of front tires ..... 4300 mm  
 - at bucket corner ..... 5600 mm



### BRAKES

Power Brake with 2472 cm<sup>2</sup> friction area



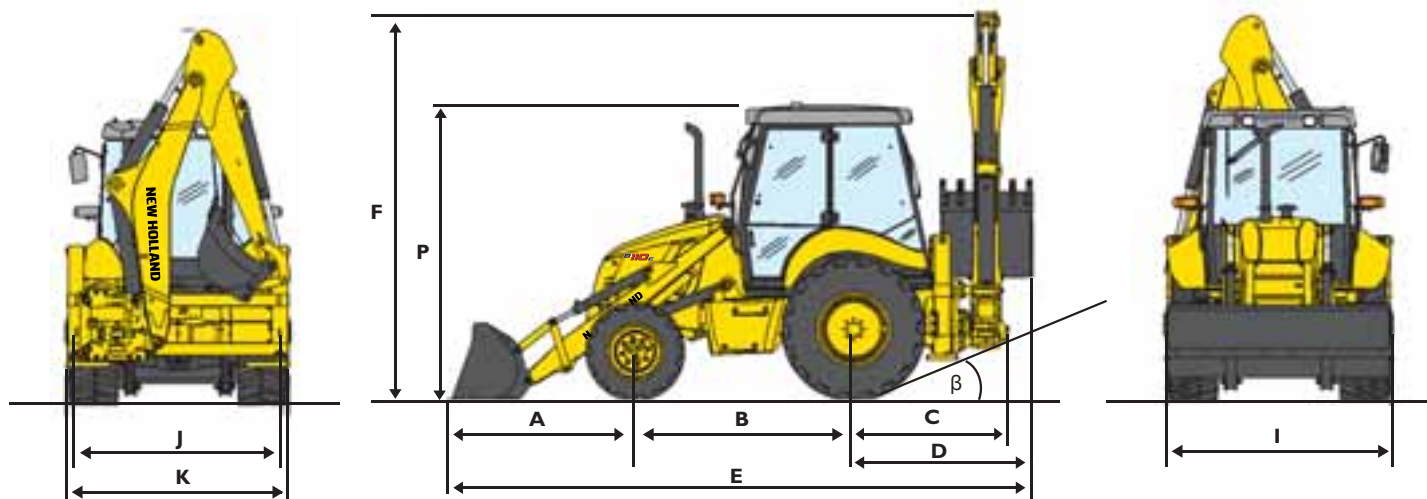
### CAPACITIES

Fuel tank ..... 124 l  
 Cooling system ..... 24 l



### NOISE AND VIBRATION

Internal (dB(A)) ..... 77  
 External (dB(A)) ..... 103  
 Upper limbs 2,5 m/s<sup>2</sup> ..... 2.5  
 Abdomen 0,5 m/s<sup>2</sup> ..... 0.5



## OVERALL DIMENSIONS

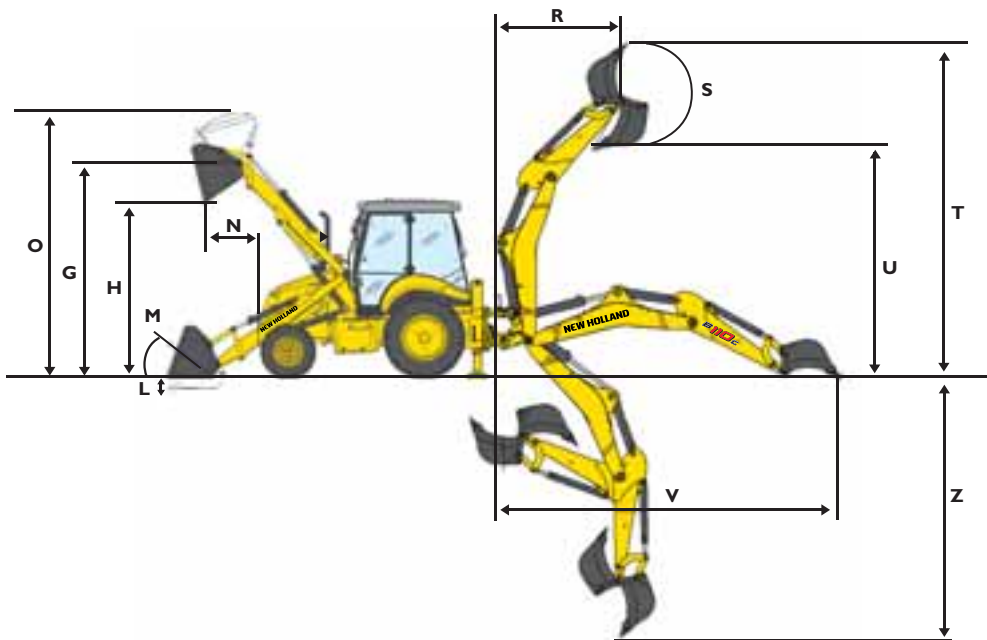
|   |    | <b>B 100C</b> |
|---|----|---------------|
| <b>A</b> - Ground distance over front axle                          | mm | 1870          |
| <b>B</b> - Wheelbase  | mm | 2175          |
| <b>C</b> - Pivot distance over rear axle                            | mm | 1320          |
| <b>D</b> - Max distance over rear axle (with 915 mm backhoe bucket) | mm | 1780          |
| <b>E</b> - Overall length   | mm | 5825          |
| <b>F</b> - Height to top of boom                                    | °  | 3875          |
| $\beta$ - Back ramp angle   | mm | 23            |
| <b>P</b> - Cab height   | mm | 2940          |
| <b>I</b> - Loader bucket width                                      | mm | 2250          |
| <b>J</b> - Stabiliser width   | mm | 2250          |
| <b>K</b> - Overall width  | mm | 2325          |

## LOADER SPECIFICATIONS

|   |     | <b>B 100C</b> |
|---|-----|---------------|
| Maximum loader breakout force                       | daN | 6900          |
| Lifting capacity to maximum height                  | kg  | 3550          |
| <b>L</b> - Digging depth                            | mm  | 75            |
| <b>M</b> - Bucket roll back angle on ground         | °   | 40            |
| <b>N</b> - Reach at full height                     | mm  | 785           |
| <b>O</b> - Maximum operating height                 | mm  | 4330          |
| <b>G</b> - Hinge pin height                         | mm  | 3500          |
| <b>H</b> - Maximum dump height under bucket at 45 ° | mm  | 2780          |

## BACKHOE SPECIFICATIONS

|  |     | <b>B 100C</b> |          |
|--|-----|---------------|----------|
|  |     | retracted     | extended |
| Bucket Breakout force                    | daN | 6400          |          |
| Dipper breakout force                    | daN | 4620          | 3200     |
| <b>R</b> - Digging reach at max height   | mm  | 2330          | 3190     |
| <b>S</b> - Bucket rotation               | °   | 204           | 204      |
| <b>T</b> - Digging height                | mm  | 5650          | 6305     |
| <b>U</b> - Dumping height                | mm  | 3930          | 4585     |
| <b>V</b> - Digging reach at ground level | mm  | 5870          | 6815     |
| <b>Z</b> - Digging depth                 | mm  | 4710          | 5750     |




| B100CTC   |  | B110CTC   |  | B115CTC |  |
|-----------|--|-----------|--|---------|--|
| 1870      |  | 1870      |  | 1965    |  |
| 2175      |  | 2175      |  | 2200    |  |
| 1320      |  | 1320      |  | 1325    |  |
| 1780      |  | 1780      |  | 1780    |  |
| 5825      |  | 5825      |  | 5945    |  |
| 3825      |  | 3825      |  | 3930    |  |
| 23        |  | 23        |  | 22      |  |
| 2940      |  | 2940      |  | 2960    |  |
| 2250/2400 |  | 2250/2400 |  | 2400    |  |
| 2250      |  | 2250      |  | 2250    |  |
| 2325      |  | 2325      |  | 2325    |  |

| B100CTC |  | B110CTC |  | B115CTC |  |
|---------|--|---------|--|---------|--|
| 6650    |  | 6650    |  | 7400    |  |
| 3195    |  | 3195    |  | 3550    |  |
| 125     |  | 125     |  | 155     |  |
| 46      |  | 46      |  | 45      |  |
| 813     |  | 813     |  | 825     |  |
| 4405    |  | 4405    |  | 4480    |  |
| 3460    |  | 3460    |  | 3490    |  |
| 2693    |  | 2693    |  | 2650    |  |

| B100CTC   |          | B110CTC   |          | B115CTC   |          |
|-----------|----------|-----------|----------|-----------|----------|
| retracted | extended | retracted | extended | retracted | extended |
| 6400      |          | 6400      |          | 6400      |          |
| 4620      | 3200     | 4620      | 3200     | 4620      | 3200     |
| 2330      | 3190     | 2330      | 3190     | 2315      | 3130     |
| 204       | 204      | 204       | 204      | 204       | 204      |
| 5650      | 6305     | 5650      | 6305     | 5815      | 6475     |
| 3930      | 4585     | 3930      | 4585     | 4090      | 4750     |
| 5860      | 6815     | 5860      | 6815     | 5850      | 6810     |
| 4710      | 5750     | 4710      | 5750     | 4565      | 5600     |

# ATTACHMENTS OFFERING

|  | Width   | Capacity  | Weight           | Hydraulics                          |                        |
|--|---|---|------------------|-------------------------------------|------------------------|
| <b>BUCKETS LOADER</b>  |   |   |                  |                                     |                        |
| <br>6 in l <br>4 in l | 2250 mm   | 1000 l  | 300 Kg           | Hydraulic line, double acting       | B100C<br>B110C - B115C |
|  | 2400 mm   | 1150 l  | 380 Kg           |                                     |                        |
| <b>BUCKETS BACKHOE</b>   |   |   |                  |                                     |                        |
|   | 305 mm  | 76 l  | 108 Kg           | Not required                        |                        |
|  | 460 mm  | 109 l   | 130 Kg           |                                     |                        |
|  | 610 mm  | 153 l   | 160 Kg           |                                     |                        |
|  | 760 mm  | 196 l   | 180 Kg           |                                     |                        |
|  | 915 mm  | 238 l   | 210 Kg           |                                     |                        |
| <b>DITCH CLEANING BUCKET</b>   |   |   |                  |                                     |                        |
|   | 1200 mm   | 240 mm  | 170 mm           | Not required                        |                        |
|  | 1500 mm   | 280 mm  | 190 mm           |                                     |                        |
| <b>V-TYPE BUCKET</b>   |   |   |                  |                                     |                        |
|    | 1000 mm (Sup.)  | 243 l   | 229 kg           | Not required                        |                        |
|  | 200 mm (Inf.)   | 150 l   | 160 kg           |                                     |                        |
| <b>HAMMER</b>  |   |   |                  |                                     |                        |
|   | <b>Model</b>  | <b>Tool dia.</b>  | <b>Weight</b>    | Hydraulic line, single acting valve |                        |
|  | CB65S<br>CB90S  | 63 mm<br>80 mm  | 315 Kg<br>360 Kg |                                     |                        |
| <b>SNOW BLADE</b>  |   |   |                  |                                     |                        |
|   | 2640 mm   | Specially designed for snow removal in tough conditions. Hydraulically powered with 30° angle to the right or left. Double acting valve is necessary. |                  |                                     |                        |
| <b>AUGERS</b>  |   |   |                  |                                     |                        |
|   | A complete range of augers from 150 to 1,050 mm diameter is available for each application: installation of telegraph poles, electricity pylons, signposts, pillars, tree and shrub planting. For more details contact your dealer. |   |                  |                                     |                        |

## AT YOUR OWN DEALERSHIP

The information contained in this brochure is intended to be a 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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