

ENGINE POWER	118 kW - 158 hp
MAX OPERATING WEIGHT	21 800 kg
BUCKET CAPACITY	0.51 - 1.30 m <sup>3</sup>







# ENDERSION JERSION JERS

### TOP EFFICIENCY FUEL CONSUMPTION (S - Mode) - 20% PRODUCTION (H - Mode) +8% BREAK - OUT FORCE **Bucket** 143 kN **Bucket with power boost** 157 kN **Dipper** 102 kN Dipper with power boost 112 kN DRAWBAR PULL 229 kN POWERFUL SWING AND TRAVEL **Travel torque** + 16% **Swing torque** + 10% **Swing speed** +11% **CONTINUOUS WORKING HOURS** + 30%

# RFORMANCE

### **NEW COMMON RAIL ENGINE**

This new generation HINO **Common Rai**l engine represents "state of the art" technology, designed to increase performance and production whilst reducing fuel consumption and pollution. The Common Rail system guarantees that fuel is injected in the cylinders at very high pressure, thus optimising its nebulization and its mix with an increased quantity of turbocharged and after cooled air. Moreover, the quantity of fuel introduced in the cylinders is electronically controlled so that the "right quantity" is injected at the "right moment" and combined with extra fresh air to provide peak efficiency output from the engine, whilst reducing fuel consumption and emissions of dangerous pollutants.

At the same time, noise is also considerably lowered.

A new, durable, efficient, comfortable and economic engine which contributes to a reduction in operating costs, thereby increasing your profit.



# 215BVERSION J ADVANC



### NEW HYDRAULIC SYSTEM

#### **EFFICIENCY AND CONTROLLABILITY**

o obtain a Hydraulic System which is much more efficient, controllable, fast and powerful, and which consumes less fuel than previously, New Holland engineers have been working not only on pumps but also on a completely redesigned and refined Control Valve adding a second arm spool, larger radius pipings with SAE flange ports, increased swing output torque and new working mode selection functions. Movements speed has been increased and machine controllability improved, especially on operations that require combined movements.

This outstanding characteristic is further enhanced by the new H.A.O.A. Control.

### H.A.O.A. (Hydrotronic Active Operation Aid)

ydrotronic Active Operation Aid is the most effective available combination of an extremely advanced electronic techology that provides a "just in time" comprehensive control of all machine functions, and a deeply refined and sophisticated hydraulic system.

H.A.O.A. continuously optimises hydraulic output according to operator and job demand, providing the best machine controllability, productivity, operator comfort and fuel savings.

ED HYDRAULIC SYSTEM

## A.E.P. - (Advanced Electronic Processor)

A.E.P. is a new Electronic Processor that interacts with the operator for selecting and monitoring all main working parameters, maintenance notifications, self diagnosis and operating data storage.

All this information is displayed in the new monitor, which features a larger back-lit, easier to read digital display and analogic gauges.

Simply select the requested working mode and A.E.P. pre-sets the hydraulic system to accomplish the job in the easiest and most productive way:

- S mode for normal working operations
- H mode when maximum power is required

Two additional modes are available for special applications and to operate tools like breakers and crushers:

 A mode adjusts the attachment circuit for tools which require two way flow.

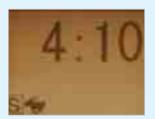
A dedicated switch on the dashboard, enables the operator to select two pumps oil flow

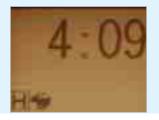
B mode for attachments featuring one way flow only

Both in A and B working modes the operator, by using the buttons on the monitor, may adjust the flow by 10 l/min steps and the pressure by 10 bars steps to perfectly match the parameters of the attachment being used.

In addition, the operator can save to memory 9 combinations of flow and pressure in both A and B working modes, for a a total of 18 combinations.







#### **D.O.C.** (Dipperstick Optimised Control)

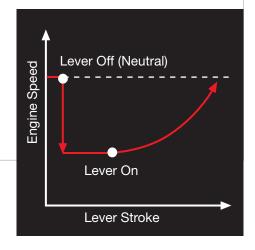
he newly redesigned Control Valve features a second spool dedicated to dipperstick operation. The movement "dipper out" is now achieved with a double flow, i.e., using the flow of the two pumps. The "dipper in" movement is even faster because of the double pump flow combined with the "Conflux", or recirculation of unused oil which is diverted from return to tank.

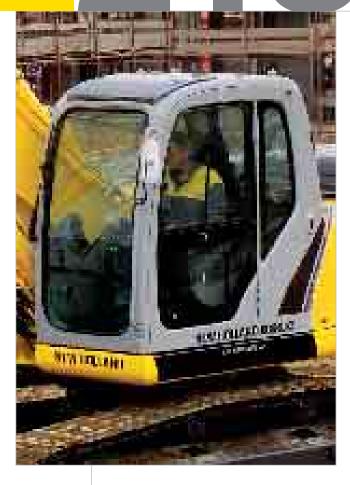
A perfect combination of speed, efficiency, precision and increased production.

#### **AUTO IDLING DEVICE**

ngine speed is automatically reduced when the joysticks are left in neutral, helping effectively to save fuel, to reduce noise and pollution and to increase engine lifespan.

When one or both joysticks are moved out of neutral the engine quickly returns to full speed.





## NEW CAB INTERIOR

he interior of the cab has been completely re-designed to maximise operator comfort and to enable optimum operator performance. All switches and controls are now ergonomically positioned on the right side, easy to find and to reach. The radio and the new, more powerful and effective automatic air-conditioning system are standard equipment, creating an agreeable working atmosphere regardless of external weather conditions. At the same time, new interior design and materials create an elegant feeling. Rigid cab construction, combined with silicon liquid filled viscous dumpers, minimises vibrations. Threaded holes, built into the cab structure, enable fast and easy attachment of optional FOPS structure and front guard, effectively contributing to operator safety.



#### **NEW A. E. P. MONITOR**

he newly designed A.E.P. Monitor, features analogical gauges which provide one sight advice, regardless of the operating environment. The digital Display Screen has been enlarged to further enhance visibility. Maintenance information is clearly displayed and the self-diagnostic function provides an early warning detection of malfunctions. Details of any previous breakdown or malfunction are also stored.

#### NEW ONE-HAND WINDSCREEN OPENING

ne-touch lock release simplifies opening and closing the front window, while a new mechanism makes it lighter.

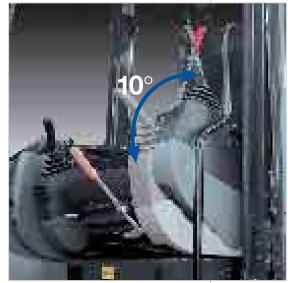


# R SAFETY AND COMFORT



#### **WIDER CAB ACCESS**

he left console which incorporates the safety lock lever, now lifts-up 10 degrees more than in the previous model. A greater angle assures a wider cab access: an easier entry and exit for enhanced operator comfort.





# NEW COMFORTABLE SEAT

ew comfortable contoured seat which can be adjusted in all directions and back and forth, together with or independently of side consoles.

The armrests, integrated on side consoles, can be lifted/lowered into four different positions and inclined, enabling the operator to set the correct position for maximum convenience and comfort.

# 215BVERSION J EASY MAIN

# DESIGNED TO EFFECTIVELY CUT OPERATING COSTS

#### **CLEAN AND ACCESSIBLE LAYOUT**

he new machine layout has been designed to make inspections, maintenance and servicing much easier and less time-consuming.

The engine oil filter, the fuel filters and the water separator are remote mounted and easy to reach from ground level. Both the fuel filters and the water separator, which removes contaminants and water, have an important function for engine performance and durability. Cooling components (radiator, hydraulic oil cooler and intercooler) are now mounted in parallel, which means increased cooling efficiency for higher component reliability whilst being easier to check and clean.



The engine oil filter, the large fuel filter (with built-in water separator) and the additional large water separator are remote mounted and easy to reach from ground level. Both the fuel filter and the water separator, which remove contaminants and water, have an important function forengine performance and durability.

Cooling components (radiator, hydraulic oil cooler, intercooler and air conditioner condenser) are now mounted in parallel, which means increased cooling efficiency for higher components reliability whilst being easier to check and clean.



he simplified layout of all vital components of the New Holland E215B under both the right and the left side panels makes maintenance much easier, less time consuming and less costly, and provides much better access for servicing. There is plenty of room in all compartments and most components are positioned in such a way to enable easy access from ground level. **An elegant and modern design added to state-of-the-art technology.** 

#### **FUSES**

he fuses are inside the cab, protected from dust and water as well as easy to reach and control.



# NANCE & SERVICEABILITY



#### **CENTRALISED GREASING**

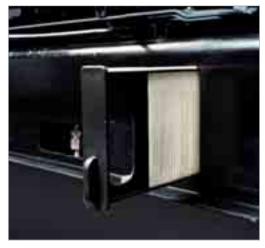
aintenance procedures are also improved thanks to new grouped and centralised greasing points, which allow all boom wear points to be easily greased from ground level, after every 500 hours-long lasting intervals! On request, the E215B can be equipped with an "Automatic Centralised Greasing System" to supply all wear points of the machine with the right quantity of grease at the right time. A winning tool to simultaneously reduce maintenance procedures and costs while improving machine reliability and durability.



#### **INSIDE CAB MAINTENANCE**

- Detachable two-piece floormat with handles for easy removal. A floor drain is located under the mat to facilitate
- inside cab cleaning.
- Airconditioning filter, positioned under the seat, can be easily removed without tools and from ground

for easy cleaning.



#### **LONG LIFE** HYDRAULIC OIL

he long-life hydraulic oil used by New Holland features excellent anti-emulsion characteristics as well as an optimised mix of anti-wear and anti-oxidants additives that boost the service life to 5,000 hours, reducing the number of oil changes necessary and resulting in an impressive reduction in operation costs and a higher respect for the environment.

# SPECIFICATIONS =



Flywheel power (ISO 14396/ECE R120)	.118 kW/158 hp
Governed rpm	2000
Make and model	HINO J05E
Typediesel 4-stroke, direct injection, turbocharged	d and intercooler
Displacement	5.1 l
Number of cylinders	4
Bore x stroke	112 x 130 mm
Maximum torque at 1600 rpm	572 Nm

Remote engine oil filter for easy replacement

Electronic engine rpm control, dial type

**Auto-Idling selector** returns engine to minimum rpm when all controls are in neutral position



#### **ELECTRICAL SYSTEM**

Voltage	24 V
Alternator	50 A
Starter motor	5 kW
Standard maintenance-free batteries	2
Capacity	96 Ah



#### **HYDRAULIC SYSTEM**

**Higher capacity pumps**, to supply higher flow at lower rpm; **Redesigned Main Control Valve**, with added 2nd dipper spool and new Fail Safe Functions;

Bigger radius piping with SAE flange ports:

**H.A.O.A.** (Hydrotronic Active Operation Aid) to get the best hydraulic output according to operator/ application demand;

**E.S.S.C.** (Engine Speed Sensing Control) device, for total installed hydraulic power exploitation;

**D.O.C.** (Dipper Optimised Control) thanks to the 2nd dedicated spool in the Control Valve and to the Conflux system;

**C.P.B.** (Continuous Power Boost) to allow the operator to use extra power when and how long it is needed;

**A.E.P.** (Advanced Electronic Processor) interacting with the operator for selecting and monitoring main working parameters, maintenance programmes, self diagnosis and operating data storage thanks to the new monitor with a larger digital display and analogical gauges;

#### Two working modes:

- S = for normal digging operation;
- H = when maximum power is required;

#### Two Attachments modes:

- $\mathbf{A}$  = for attachments which require double pump flow;
- B = for attachments, such as breaker, featuring one way flow only.

Standard double pump flow device and Diverter Valve automatically actuated while selecting A;

**Pipe pressure discharge push button** to facilitate tooling changeover without piping oil leakage;

**Super Fine hydraulic filter (8 micron)** to grant perfect oil filtration, contributing to increase oil change interval

Main pumps:

 Maximum operating pressure:

Equipment/travel	34.3 MPa
Swing	29.0 MPa
_	37.8 MPa
Hydraulic cylinders	double effect
- Lift (2) - bore x stroke	120 x 1355 mm
- Penetration (1) - bore x stroke .	135 x 1560 mm
* *	120 x 1080 mm



#### **TRANSMISSION**

Type	hydrostatic, two-speed
Travel motors	2, axial pistons type, double displacement
Brakes	automatic discs type
Final drive	oil bath, planetary reduction
Gradeability (continuous)	70% (35°)
Travel speeds:	
low	from 0 to 3.6 km/h
high	from 0 to 6.0 km/h
Drawbar pull	229 kN

**Automatic Downshift device:** to move travel motors to maximum displacement position with selector on "speed" position when greater traction is required.



#### **SWING**

Swing motor	axial piston type
Swing brake	
Final drive	31
Swing ring	7.1
Swing speed	



#### **CAB AND CONTROLS**

Transparent upper cab roof.

Standard automatic conditioning.

Controls ......piloted

Two cross path pattern levers actuate all equipment movements and superstructure swing.

Two pedals with hand levers control all track movements, counter-rotation included.

A safety lever completely neutralizes the piloting circuit



#### **UNDERCARRIAGE**

X-frame undercarriage design

Reinforced track chain with sealed bushings.

	E215BJ	E215BJ - LC
Track rollers (each side)	7	8
Carrier rollers (each side)	2	2
Length of track on ground (mm)	3370	3660
Gauge (mm)	2200	2390
Shoes (mm)	600-700	600-700
	800-900	800-900

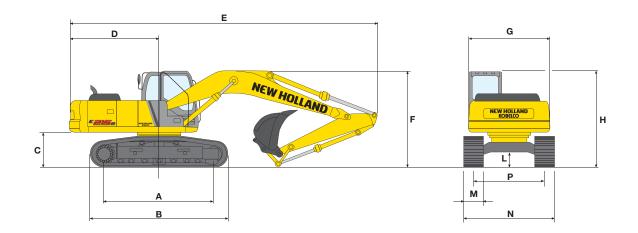


#### **CAPACITIES**

	litres
Lube oil	22
Coolant	22
Fuel tank	370
Hydraulic system	230

### **ONE-PIECE BOOM**

### **DIMENSIONS (mm) - OPERATING WEIGHT**



VERSIONS	Α	В	С	D	E	F	G	Н	L	Р
E215BJ	3370	4170	1060	2750	(1) 9530	(1) 3160	2710	3030	450	2200
E215BJ - LC	3660	4450	1060	2750	(1) 9530	(1) 3160	2710	3030	450	2390

(1) 2400 mm dipperstick

	E215BJ					E215B	J - LC		
M - Shoe width	mm	600	700	800	900	600	700	800	900
N - maximum width	mm	2800	2900	3000	3100	2990	3090	3190	3290
Operating weight	kg	20200	20600	20900	21300	20600	21100	21400	21800
Ground pressure	bar	0.45	0.40	0.35	0.32	0.43	0.38	0.33	0.30

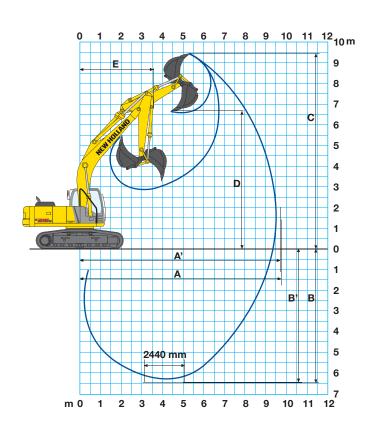
#### **DIGGING PERFORMANCE**

**ONE-PIECE BOOM = 5650 mm** 

DIPPERSTICK	mm	2400	2940	3500
Α	mm	9420	9900	10340
A'	mm	9240	9730	10170
В	mm	6160	6700	7260
B'	mm	5950	6520	7080
С	mm	9510	9720	9750
D	mm	6680	6910	6970
E	mm	3560	3540	3480

BREAKOUT FORCE				
Bucket	daN	15500	15500	15500
Dipperstick	daN	13150	10900	9000

WITH POWER BOOST ON				
Bucket	daN	16900	16900	16900
Dipperstick	daN	14250	11800	9800

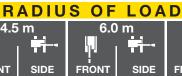


#### **VALUES ARE EXPRESSED IN TONNES**

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3.0	m
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; FRONT	SIDE





7.5	m
lp.	<b>       </b>
FRONT	SIDE

MAX. REACH

#### E215BJ DIPPERSTICK 2400 mm

HEIGHT													
+7.5 m											4.2 *	4.2 *	5.7
+6.0 m							5.1 *	4.4			4.0 *	3.5	6.9
+4.5 m					6.6 *	6.6 *	5.6 *	4.3	4.5 *	2.9	4.0 *	3.8	7.6
+3.0 m					8.3 *	6.2	6.3 *	4.0	4.4	2.8	4.0	2.5	7.9
+1.5 m					9.6	5.7	6.1	3.8	4.3	2.7	3.8	2.4	8.0
0			6.9 *	6.9 *	9.3	5.5	5.9	3.6	4.2	2.6	3.9	2.4	7.8
-1.5 m	7.8 *	7.8 *	11.9 *	10.6	9.3	5.4	5.8	3.5			4.4	2.7	7.3
-3.0 m	12.5 *	12.5 *	12.3 *	10.8	8.9 *	5.5	5.9	3.6			5.4	3.3	6.4
-4.5 m			8.6 *	8.6 *	6.3 *	5.8					5.7 *	5.2	4.8
-6.0 m													

#### E215BJ DIPPERSTICK 2940 mm

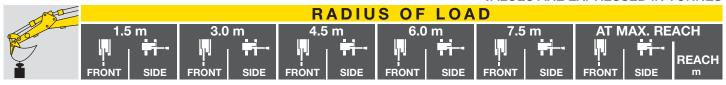
HEIGHT													
+7.5 m											2.9 *	2.9 *	6.3
+6.0 m							4.7 *	4.6			2.8 *	2.8 *	7.4
+4.5 m							5.2 *	4.4	4.6 *	2.9	2.8 *	2.6	8.1
+3.0 m			12.1 *	12.1 *	7.7 *	6.5	6.0 *	4.1	4.5	2.9	2.9 *	2.3	8.4
+1.5 m			6.7 *	6.7 *	9.3 *	5.9	6.2	3.9	4.4	2.7	3.2 *	2.2	8.5
0			7.7 *	7.7 *	9.5	5.6	6.0	3.6	4.2	2.6	3.6	2.2	8.3
-1.5 m	6.9 *	6.9 *	11.0 *	10.6	9.3	5.5	5.9	3.6	4.2	2.6	3.9	2.4	7.8
-3.0 m	10.5 *	10.5 *	13.6 *	10.7	9.4	5.5	5.9	3.6			4.7	2.9	7.0
-4.5 m			10.5 *	10.5 *	7.5 *	5.7					5.7 *	4.1	5.6
-6.0 m													

#### E215BJ DIPPERSTICK 3500 mm

HEIGHT													
+7.5 m											2.5 *	2.5 *	6.9
+6.0 m									3.3 *	3.0	2.4 *	2.4 *	7.9
+4.5 m							4.6 *	4.4	4.3 *	3.0	2.4 *	2.3	8.5
+3.0 m			10.0 *	10.0 *	6.8 *	6.6	5.4 *	4.1	4.5	2.8	2.5 *	2.0	8.9
+1.5 m			10.4 *	10.4 *	8.6 *	5.9	6.1	3.8	4.3	2.6	2.8 *	1.9	8.9
0	3.7 *	3.7 *	8.6 *	8.6 *	9.4	5.5	5.9	3.5	4.1	2.5	3.2 *	1.8	8.7
-1.5 m	6.4 *	6.4 *	10.7 *	10.2	9.1	5.3	5.7	3.4	4.0	2.4	3.5	2.1	8.3
-3.0 m	9.4 *	9.4 *	14.2 *	10.3	9.1	5.3	5.7	3.4			4.1	2.5	7.5
-4.5 m	12.9 *	12.9 *	11.8 *	10.6	8.2 *	5.4	5.8	3.5			5.5	3.3	6.2
-6.0 m											5.4 *	5.4 *	4.1

### LIFTING CAPACITY

#### **VALUES ARE EXPRESSED IN TONNES**



#### E215BJ - LC DIPPERSTICK 2400 mm

HEIGHT													
+7.5 m											4.2 *	4.2 *	5.7
+6.0 m							5.1 *	4.9			4.0 *	3.9	6.9
+4.5 m					6.6 *	6.6 *	5.6 *	4.7	4.5 *	3.2	4.0 *	3.2	7.6
+3.0 m					8.3 *	7.0	6.3 *	4.5	5.0	3.1	4.3 *	2.8	7.9
+1.5 m					9.7 *	6.5	6.9	4.2	4.9	3.0	4.4	2.7	8.0
0			6.9 *	6.9 *	10.3 *	6.2	6.7	4.0	4.8	2.9	4.5	2.7	7.8
-1.5 m	7.8 *	7.8 *	11.9 *	11.9 *	10.0 *	6.1	6.7	4.0			5.0	3.0	7.3
-3.0 m	12.5 *	12.5 *	12.3 *	12.3 *	8.9 *	6.2	6.5 *	4.0			5.9 *	3.7	6.4
-4.5 m			8.6 *	8.6 *	6.3 *	6.3 *					5.7 *	5.7 *	4.8
-6.0 m													

#### E215BJ - LC DIPPERSTICK 2940 mm

HEIGHT													
+7.5 m											2.9 *	2.9 *	6.3
+6.0 m							4.7 *	4.7 *			2.8 *	2.8 *	7.4
+4.5 m							5.2 *	4.8	4.6 *	3.3	2.8 *	2.8 *	8.1
+3.0 m			12.1 *	12.1 *	7.7 *	7.2	6.0 *	4.5	5.1	3.2	2.9 *	2.6	8.4
+1.5 m			6.7 *	6.7 *	9.3 *	6.6	6.8 *	4.3	4.9	3.0	3.2 *	2.5	8.5
0			7.7 *	7.7 *	10.2 *	6.3	6.8	4.1	4.8	2.9	3.7 *	2.7	8.3
-1.5 m	6.9 *	6.9 *	11.0 *	11.0 *	10.2 *	6.1	6.6	4.0	4.8	2.8	4.5	2.3	7.1
-3.0 m	10.5 *	10.5 *	13.6 *	12.4	9.5 *	6.2	6.7	4.0			5.3	3.3	7.0
-4.5 m			10.5 *	10.5 *	7.5 *	6.4					5.7 *	4.6	5.6
-6.0 m													

#### E215BJ - LC DIPPERSTICK 3500 mm

HEIGHT													
+7.5 m											2.5 *	2.5 *	6.9
+6.0 m									3.2 *	3.2 *	2.4 *	2.4 *	7.9
+4.5 m							4.6 *	4.6 *	4.3 *	3.3	2.4 *	2.4 *	8.5
+3.0 m			10.0 *	10.0 *	6.8 *	6.8 *	5.4 *	4.6	4.7 *	3.1	2.5 *	2.3	8.9
+1.5 m			10.4 *	10.4 *	8.6 *	6.6	6.3 *	4.3	4.9	3.0	2.8 *	2.2	8.9
0	3.7 *	3.7 *	8.6 *	8.6 *	9.7 *	6.2	6.7	4.0	4.7	2.8	3.2 *	2.2	8.7
-1.5 m	6.4 *	6.4 *	10.7 *	10.7 *	10.1 *	6.0	6.5	3.9	4.6	2.7	4.0 *	2.4	8.3
-3.0 m	9.4 *	9.4 *	14.2 *	12.0	9.6 *	6.0	6.5	3.8			4.7	2.8	7.5
-4.5 m	12.9 *	12.9 *	11.8 *	11.8 *	8.2 *	6.1	5.8 *	4.0			5.5 *	3.8	6.2
-6.0 m											5.4 *	5.4 *	4.1

### NEW HOLLAND. THE POWER OF A GLOBAL BRAND

New Holland is a global brand with a key position in the Construction Equipment business. It supplies a complete range of 13 product lines and 80 basic models split into Compact line and Heavy line. It operates in all the main markets, such as Europe, North and Latin America, Africa, Asia and Middle East with the same technology and under the same logo and brand. It manufactures durable, safe and productive machines aimed at supporting customers in developing their own business. Dealers are company partners. They play an important role to support the brand in their territories through intense professional relationship with Customers. New Holland is reinforced by its global alliance with Kobelco: world leader in hydraulic excavator technology.



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 manufactoring techniques.

Published by NEW HOLLAND KOBELCO CONSTRUCTION MACHINERY S.p.A. Printed in Italy - LEADER Firenze - Cod. 73301 421GB - Printed 02/08



