E70BSR E80BMSR

NEW HOLLAND KOBELCO

	E70BSR	E80BMSR
NET FLYWHEEL POWER	42 kW - 56 hp	
MAX OPERATING WEIGHT	7835 kg (STD) 8650 kg (OFFSET)	8595 kg
BUCKET CAPACITY	0.23 - 0.35 m^3	

NEW HOLLAND CONSTRUCTION

BUILT AROUND YOU

RESEARCH & INNOVATION

TOP PERFORMANCE PACKED INTO A VERY COMPACT MACHINE

NEW "iNDr" (integrated Noise & Dust reduction) cooling system
NEW environmentally friendly turbocharged engine
NEW generation hydraulic pump
NEW wide operator compartment
NEW hydraulic circuit
NEW easy to transport narrow version (NLC)

- The E70BSR and E80BMSR (Medium Short Radius) represent an advanced example of Short Radius technology.
- They have been designed to satisfy customer needs, offering higher performance in terms of stability and productivity.
- These models feature the revolutionary iNDr system that dramatically reduces machine noise level.
- Also a narrow (NLC) version is now available for customers who want a more flexible, easy to transport machine.
- Customers appreciate all the SR features and benefits where space, easy transportation and noise are constrains on urban job sites and in construction.

BOOM SWING SYSTEM

A peculiar feature of E80B MSR is how the Boom "foot" is connected to the upperstructure.
Thanks to a pinned support actuated by an hydraulic cylinder, it can swing up to 80° to the right and 50° to the left. It means maximum flexibility and productivity as the operator can approach close to a wall, dig and dump in maximum comfort without having to swing the upperstructure.

E70BSR and E80BMSR are products of the global alliance between New Holland and KOBELCO

INCREDIBLY QUIET
EFFECTIVE DUST PROTECTION
REMARKABLY EASY MAINTENANCE

iNDr Integrated Noise & Dust Reduction Cooling System

"ULTIMATE" LOW NOISE LEVEL 95dB(A)

New Holland is proud to introduce also on E70BSR and E80BMSR, the unique, innovative and patented **iNDr (integrated Noise & Dust reduction)** Cooling System, with the engine compartment placed inside a single duct that connects the air intake and the exhaust outlet which are offset. The design itself, together with the correct positioning the insulation material inside the duct, minimise the engine noise.

A SIMPLE SOLUTION GRANTS MANY ADVANTAGES

iNDr is a highly environmentally friendly solution which maximises operator comfort and allows work in urban areas with minimum disturbance to the public.
Furthermore the ultra cleaned air provided by **iNDr** contributes to perfect fuel combustion.

OPERATOR SAFETY & COMFORT

NEW EVO CAB EVOLUTION IN COMFORT AND SAFETY

A new wider cab, the most spacious in its class, which features almost the same dimensions of a conventional excavator cab. The 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 hand side, where they are easy to find and reach.
The new, more powerful and effective automatic air-conditioning system is 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 six silicon liquid filled viscous dampers, minimises vibrations.
The new, reinforced structure of the cab complies to ROPS and FOPS standards.

INSTRUMENT LAYOUT

In-cab switches and controls have been moved to the right-hand side in an easy to reach and more ergonomic position, thus improving operator comfort and convenience.

NEW MONITOR

The new Monitor features an enlarged Display Screen to further enhance visibility. Maintenance information and the self-diagnostic function provide an early warning. Any previous malfunction is also stored.

EASY MAINTENANCE & SERVICEABILITY

DESIGNED TO EFFECTIVELY CUT OPERATING COSTS

CLEAN AND ACCESSIBLE LAYOUT

The machine layout has been designed to make inspections, maintenance and servicing much easier and less time-consuming than in the previous model. The engine oil filter, the fuel filter and the water separator are remote mounted and easy to reach from ground level. Both the fuel filter 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 gives increased cooling efficiency for higher component reliabilty whilst being easier to check and clean.

VISUAL CHECKING & EASY CLEANING OF INDR FILTERS

The iNDr filters are located in front of the cooling components (radiator, hydraulic oil cooler and intercooler) now mounted in parallel for improved cooling efficiency.
The air goes directly from the intake duct through the iNDr stainless-steel filters which capture dust.
The cleaned air, going through the cooling components, reduces the risk of clogging and minimises the cleaning intervals of maintenance routine. If they appear dirty during the start up inspection, they are easy to remove without tools for cleaning from ground level.

Automatic Fuel Electrical Pump **is standard equipment to optimise service time and maximise operator comfort.**

E70BSR

SPECIFICATIONS

ENGINE STAGE IIIA

Net flywheel power (ECE R120) ..... 42 kW/56 hp
Rated rpm 2200
Make and model ..... ISUZU - AU-4LE2X
Type ..... Diesel 4-stroke, direct injection, turbo, aftercooler
Number of cylinders 4
Displacement ..... 2179 cm^3
Bore x Stroke ..... 85 x 96 mm
Maximum torque at 1600 rpm ..... 200 Nm
Electronic engine rpm control dial type.
Auto-idling selector returns engine to minimum rpm when all controls are in neutral position.
The engine complies with requirements set by European Directive 97/68/EC (2004/26/EC)

ELECTRICAL SYSTEM

Voltage ..... 24 V
Alternator ..... 30 Amp
Starter motor ..... 3.2 kW
Standard maintenance-free batteries 2
Capacity ..... 64 Ah

HYDRAULIC SYSTEM

Load sensing closed centre hydraulic system with pressure compensating and flow sharing valves for fast cycles and simultaneous movements.

Operating mode selector:
H - heavy mode for high performance
S - standard mode for normal operations

Manual selector:
A - crusher mode
B - hammer mode

Main pump:
One variable displacement axial piston pump.
Pump automatically revert to zero delivery with controls in neutral
Maximum delivery ..... 132 l/min
Piloting circuit: gear type pump
Maximum delivery ..... 18 l/min
Maximum operating pressure:
Equipment/Travel ..... 29.4 MPa
Swing ..... 24.5 MPa
Blade ..... 27.5 MPa
Pilot circuit ..... 3.5 MPa

Hydraulic cylinders	Number	Bore	Stroke
Lift	1	110 mm	916 mm
Offset	1	100 mm	564 mm
Penetration	1	95 mm	833 mm
Bucket	1	80 mm	735 mm
Blade	1	120 mm	125 mm

TRANSMISSION

Type ..... hydrostatic, two-speed
Travel motors ..... 2, axial piston type, double displacement
Brakes ..... automatic discs type
Final drive ..... oil bath, planetary reduction
Gradeability (continuous) ..... 70% (35°)
Travel speeds
Low ..... from 0 to 2.8 km/h
High ..... from 0 to 5.3 km/h
Automatic DownShift device: to move travel motors to maximum displacement position with selector on "speed" when greater traction is required.
Drawbar pull ..... 72 kN

SWING

Swing motor ..... axial piston type
Swing brake ..... automatic discs type
Final drive ..... oil bath, planetary reduction
Swing Ring ..... oil bath type
Swing Speed ..... 12.7 rpm

CAB AND CONTROLS

EVO operator cab ..... evolution in comfort and safety compliant to ROPS (ISO 12117-2) and FOPS (ISO 10262 level II) standards
Automatic conditioning.
Controls ..... piloted
Two cross path pattern levers actuate all equipment movements and superstructure swing.
One lever for blade lower/lift.
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.
Heavy duty track chain with sealed bushings.

Rollers:	LC	NLC
Track rollers (each side)	5	5
Carrier rollers (each side)	1	1
Length of track on ground (mm)	2240	2240
Gauge (mm)	1870	1700
Shoes triple grousers (mm)	450 - 600	450
Rubber (mm)	450	450

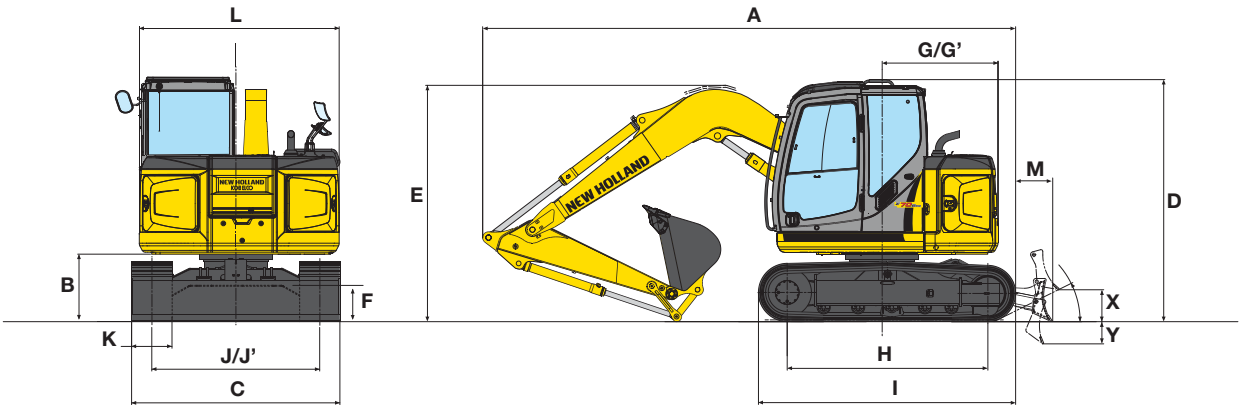
BLADE (STANDARD)

Redesigned dozer blade to improve reliability, durability and performance
Width x Height ..... 2320/2470 x 460 mm
Lift above ground ..... 355 mm
Digging depth ..... 250 mm

CAPACITIES

Engine	litres
Lube oil	11.0
Coolant	8.5
Fuel tank	120.0
Hydraulic system	90.0
Swing drive gear	1.5
Travel drive (each)	5.3

DIMENSIONS - OPERATING WEIGHT MONOBOOM



ARM	A	B	D	E	F	G/G'	H	I	J/J'	L	M
1710 mm	5830	730	2740	2630	360	1290/1300	2240	2860	1870/1700	2230	410
2130 mm	5970	730	2740	2960	360	1290/1300	2240	2860	1870/1700	2230	410

G'= Rear swing radius with additional (0.40 t) bolt-on counterweight (optional)
J = LC version gauge
J' = NLC version gauge

SHOES		STEEL - 3 GROUSERS		RUBBER
K - Shoe width	mm	450	600	450
C - maximum width**	mm	2320/2150	2470/2300	2320/2150
Operating weight with blade**	kg	7600/7545	7835/-	7510/7455
Ground pressure	bar	0.34	0.26	0.33
Blade width	mm	2320	2470 (*)	2320
Blade height	mm	460	460 (*)	460
Blade weight	kg	500	515 (*)	500
X - max lift	mm	355	355 (*)	355
Y - max dig.	mm	250	250 (*)	250

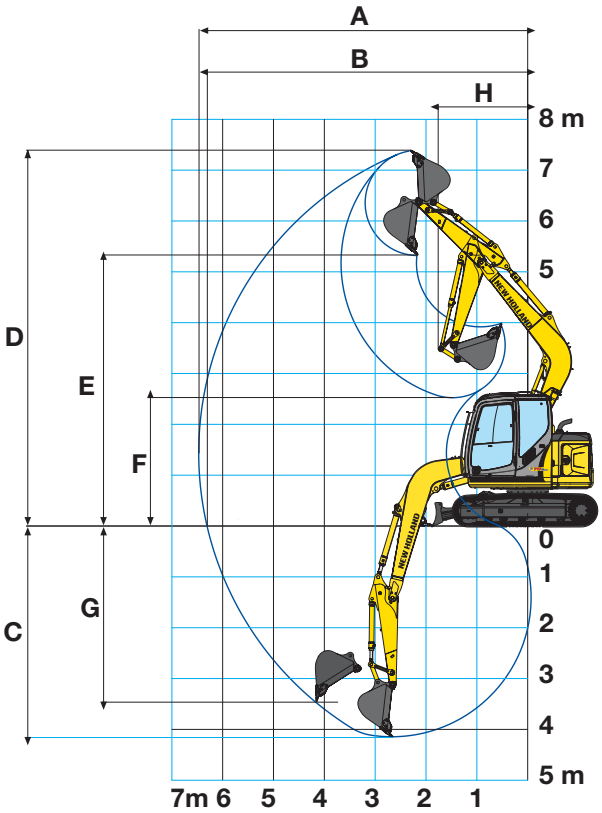
(*) not available for NLC version
** LC/NLC version

DIGGING PERFORMANCE

MONOBOOM - 3840 mm

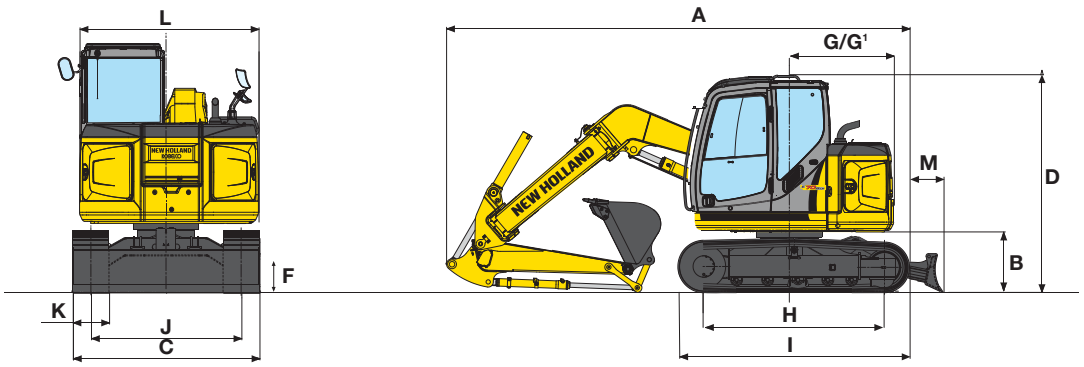
DIPPERSTICK		1710	2130
A	mm	6460	6850
B	mm	6300	6700
C	mm	4160	4580
D	mm	7390	7690
E	mm	5330	5630
F	mm	2530	2220
G	mm	3450	3860
H	mm	1760	2010

BREAKOUT FORCE			
Bucket	daN	5400	5400
Dipperstick	daN	4000	3550



E70BSR

DIMENSIONS - OPERATING WEIGHT
OFFSET BOOM

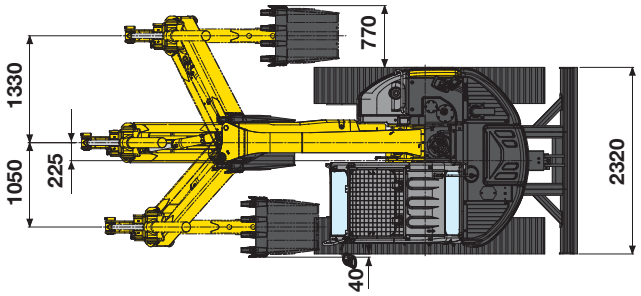


ARM	A	B	D	F	G/G'	H	I	J	L	M
1870 mm	5760	730	2760	360	1290/1300	2240	2860	1870	2230	410
2160 mm	6190	730	2760	360	1290/1300	2240	2860	1870	2230	410

G'= Rear swing radius with additional (0.40 t) bolt-on counterweight (optional)

K - Shoe width
C - maximum width**
Operating weight with blade**
Ground pressure
Blade width
Blade height
Blade weight
X - max lift
Y - max dig.

SHOES		STEEL - 3 GROUSERS		RUBBER
K - Shoe width	mm	450	600	450
C - maximum width	mm	2320	2470	2320
Operating weight with blade	kg	8420	8650	8330
Ground pressure	bar	0.37	0.29	0.37
Max blade width	mm	2320	2470	2320
Blade height	mm	460	460	460
Blade weight	kg	500	515	500
X - max lift	mm	500	500	500
Y - max dig.	mm	590	590	590

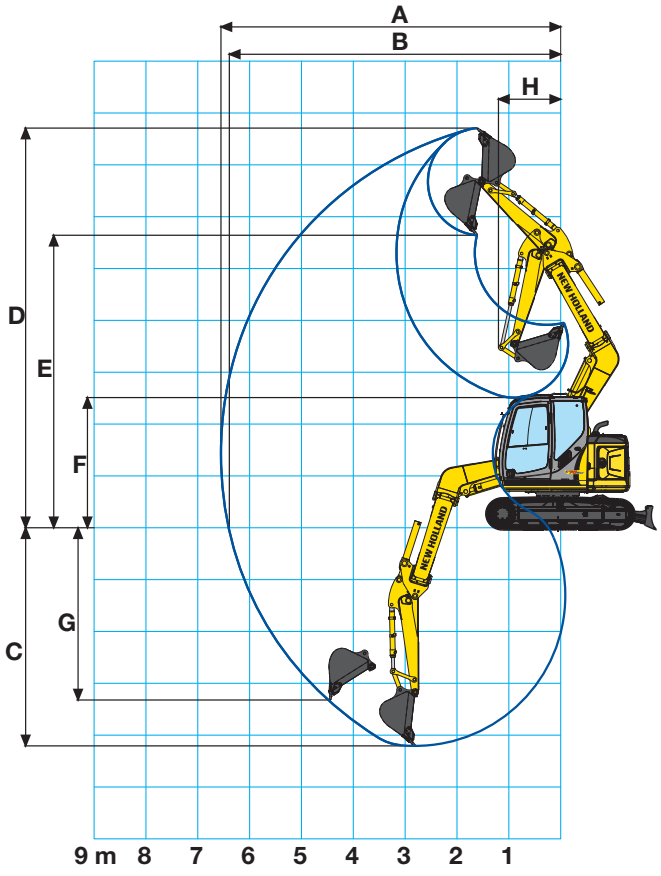


DIGGING PERFORMANCE*

DIPPERSTICK		1860	2160
A	mm	6550	6810
B	mm	6390	6660
C	mm	4210	4510
D	mm	7710	7910
E	mm	5640	5850
F	mm	2510	2220
G	mm	3320	3580
H	mm	1200	1280

BREAKOUT FORCE			
Bucket	daN	5380	5380
Dipperstick	daN	3990	3540

* At max. offset the above dimensions are reduced by average 350 mm on the left side and 650 mm on the right side.



LIFTING CAPACITY - MONOBOOM

All data intended with blade up

Values are expressed in tonnes

E70BSR-LC MONOBOOM - 1710 mm DIPPERSTICK

HEIGHT	RADIUS OF LOAD								
	1.5 m		3.0 m		4.5 m		AT MAX. REACH		REACH m
	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	
+6.0 m			1.7*	1.7*			1.5*	1.5*	3.15
+4.5 m			1.9*	1.9*	1.5*	1.3	1.3*	1.2	4.64
+3.0 m	4.7*	4.7*	2.5*	2.5*	1.5	1.2	1.1	0.9	5.34
+1.5 m			2.8	2.2	1.4	1.1	1.0	0.8	5.56
0 m			2.6	2.0	1.3	1.1	1.0	0.8	5.37
-1.5 m	4.1*	4.1*	2.5	2.0	1.3	1.0	1.2	1.0	4.70
-3.0 m	2.4*	2.4*	1.7*	1.7*			1.5*	1.5*	3.28

E70BSR-LC MONOBOOM - 2130 mm DIPPERSTICK

HEIGHT	RADIUS OF LOAD								
	1.5 m		3.0 m		4.5 m		AT MAX. REACH		REACH m
	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	
+6.0 m							1.3*	1.3*	3.82
+4.5 m					1.6*	1.3	1.2	1.0	5.12
+3.0 m			2.2*	2.2*	1.5	1.3	0.9	0.8	5.76
+1.5 m			2.8	2.3	1.4	1.2	0.8	0.7	5.96
0 m			2.5	2.0	1.3	1.1	0.8	0.7	5.78
-1.5 m	3.5*	3.5*	2.5	1.9	1.3	1.0	1.0	0.8	5.17
-3.0 m	3.4*	3.4*	2.1*	2.0			1.5*	1.3	3.93

E70BSR-LC MONOBOOM - 2130 mm DIPPER - HEAVIER CWT*

HEIGHT	RADIUS OF LOAD								
	1.5 m		3.0 m		4.5 m		AT MAX. REACH		REACH m
	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	
+6.0 m							1.3*	1.3*	3.82
+4.5 m					1.6*	1.5	1.2*	1.1	5.12
+3.0 m			2.2*	2.2*	1.7	1.4	1.0	0.9	5.76
+1.5 m			3.0*	2.4	1.5	1.3	0.9	0.8	5.96
0 m			2.8	2.2	1.4	1.2	0.9	0.8	5.78
-1.5 m	3.5*	3.5*	2.7	2.1	1.4	1.1	1.1	0.9	5.17
-3.0 m	3.4*	3.4*	2.1*	2.1*			1.5*	1.4	3.93

E70BSR-LC MONOBOOM - 2130 mm DIPPER - + 400 kg CWT**

HEIGHT	RADIUS OF LOAD								
	1.5 m		3.0 m		4.5 m		AT MAX. REACH		REACH m
	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	
+6.0 m							1.3*	1.3*	3.82
+4.5 m					1.6*	1.5	1.2*	1.2*	5.12
+3.0 m			2.2*	2.2*	1.7	1.5	1.1	0.9	5.76
+1.5 m			3.0*	2.6	1.6	1.3	1.0	0.8	5.96
0 m			2.9	2.3	1.5	1.2	1.0	0.8	5.78
-1.5 m	3.5*	3.5*	2.9	2.3	1.5	1.2	1.2	1.0	5.17
-3.0 m	3.4*	3.4*	2.1*	2.1*			1.5*	1.5*	3.93

E70BSR-LC MONOBOOM - 2130 mm DIPPER - HEAVIER CWT* + 400 kg CWT**

HEIGHT	RADIUS OF LOAD								
	1.5 m		3.0 m		4.5 m		AT MAX. REACH		REACH m
	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	
+6.0 m							1.3*	1.3*	3.82
+4.5 m					1.6*	1.5	1.2*	1.1	5.12
+3.0 m			2.2*	2.2*	1.7	1.4	1.0	0.9	5.76
+1.5 m			3.0*	2.4	1.5	1.3	0.9	0.8	5.96
0 m			2.8	2.2	1.4	1.2	0.9	0.8	5.78
-1.5 m	3.5*	3.5*	2.7	2.1	1.4	1.1	1.1	0.9	5.17
-3.0 m	3.4*	3.4*	2.1*	2.1*			1.5*	1.4	3.93

* HEAVIER Counterweight = + 260 kg (higher density material filled on)
** BOLT-ON Counterweight = + 400 kg

The table values refer to ISO 10567 for excavator equipped with bucket. The indicated load is no more than 87% of hydraulic system lift capacity or 75% of static tipping load. Values marked with an asterisk are limited by the hydraulic system.

E70BSR

LIFTING CAPACITY - MONOBOOM

All data intended with blade up

Values are expressed in tonnes

E70BSR-NLC MONOBOOM - 1710 mm DIPPER - HEAVIER CWT*

HEIGHT	RADIUS OF LOAD								
	1.5 m		3.0 m		4.5 m		AT MAX. REACH		REACH m
	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	
+6.0 m			1.7*	1.7*			1.5*	1.5*	3.15
+4.5 m			1.9*	1.9*	1.5*	1.2	1.3*	1.1	4.64
+3.0 m	4.7*	4.7*	2.5*	2.2	1.5	1.1	1.1	0.8	5.34
+1.5 m			2.7	1.9	1.4	1.0	1.0	0.7	5.56
0 m			2.5	1.7	1.3	0.9	1.0	0.7	5.37
-1.5 m	4.0*	4.0*	2.5	1.7	1.3	0.9	1.2	0.8	4.70
-3.0 m	2.5*	2.5*	1.7*	1.7*			1.5*	1.5*	3.28

E70BSR-NLC MONOBOOM - 2130 mm DIPPER - HEAVIER CWT*

HEIGHT	RADIUS OF LOAD								
	1.5 m		3.0 m		4.5 m		AT MAX. REACH		REACH m
	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	
+6.0 m							1.3*	1.3*	3.82
+4.5 m					1.6*	1.2	1.2	0.9	5.12
+3.0 m			2.2*	2.2*	1.5	1.1	0.9	0.7	5.76
+1.5 m			2.8	1.9	1.4	1.0	0.8	0.6	5.96
0 m			2.5	1.7	1.3	0.9	0.8	0.6	5.78
-1.5 m	3.5*	3.5*	2.5	1.6	1.2	0.8	1.0	0.7	5.17
-3.0 m	3.4*	3.4*	2.1*	1.7			1.5*	1.1	3.9

E70BSR-NLC MONOBOOM - 2130 mm DIPPER - HEAVIER CWT* + 400 kg CWT**

HEIGHT	RADIUS OF LOAD								
	1.5 m		3.0 m		4.5 m		AT MAX. REACH		REACH m
	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	
+6.0 m							1.3*	1.3*	3.82
+4.5 m					1.6*	1.4	1.2*	1.1	5.12
+3.0 m			2.2*	2.2*	1.7*	1.4	1.2*	0.9	5.76
+1.5 m			3.0*	2.4	1.7	1.3	1.1	0.8	5.96
0 m			3.2	2.2	1.6	1.2	1.1	0.8	5.78
-1.5 m	3.5*	3.5*	3.1	2.1	1.6	1.1	1.3	0.9	5.17
-3.0 m	3.4*	3.4*	2.2*	2.2*			1.5*	1.4	3.93

* HEAVIER Counterweight = + 260 kg (higher density material filled on)
** BOLT-ON Counterweight = + 400 kg

The table values refer to ISO 10567 for excavator equipped with bucket. The indicated load is no more than 87% of hydraulic system lift capacity or 75% of static tipping load. Values marked with an asterisk are limited by the hydraulic system.

LIFTING CAPACITY - OFFSET BOOM

All data intended with blade up

Values are expressed in tonnes

E70BSR-LC OFFSET BOOM - 1860 mm DIPPER - STD HEAVIER CWT*

HEIGHT	RADIUS OF LOAD								
	1.5 m		3.0 m		4.5 m		AT MAX. REACH		REACH m
	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	
+6.0 m			0.5*	0.5*			2.0*	2.0*	3.26
+4.5 m			0.5*	0.5*	1.7	1.4	1.5	1.3	4.71
+3.0 m			2.6*	2.4*	1.6	1.3	1.1	0.9	5.40
+1.5 m			2.8	2.2	1.4	1.1	0.9	0.7	5.62
0 m			2.5	1.9	1.3	1.0	0.9	0.7	5.43
-1.5 m			2.4	1.8	1.2	1.0	1.1	0.9	4.77
-3.0 m			1.5*	1.5*			1.3*	1.3*	3.38

E70BSR-LC OFFSET BOOM - 2160 mm DIPPER - STD HEAVIER CWT*

HEIGHT	RADIUS OF LOAD								
	1.5 m		3.0 m		4.5 m		AT MAX. REACH		REACH m
	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	
+6.0 m							1.7*	1.7*	3.70
+4.5 m					1.7	1.5	1.4	1.1	5.03
+3.0 m			1.8*	1.8*	1.6	1.3	1.0	0.8	5.68
+1.5 m			2.9	2.3	1.4	1.2	0.9	0.7	5.89
0 m			2.5	1.9	1.3	1.0	0.8	0.7	5.70
-1.5 m			2.4	1.8	1.2	0.9	1.0	0.8	5.08
-3.0 m			1.9*	1.9*			1.4	1.3	3.81

E70BSR-LC OFFSET BOOM - 2160 mm DIPPER - STD HEAVIER CWT* + 400 kg CWT**

HEIGHT	RADIUS OF LOAD								
	1.5 m		3.0 m		4.5 m		AT MAX. REACH		REACH m
	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	
+6.0 m							1.7*	1.7*	3.70
+4.5 m					1.8*	1.6	1.5*	1.3	5.03
+3.0 m			1.8*	1.8*	1.8	1.5	1.2	1.0	5.68
+1.5 m			3.3	2.6	1.7	1.3	1.0	0.8	5.89
0 m			2.9	2.3	1.5	1.2	1.0	0.8	5.70
-1.5 m			2.8	2.2	1.4	1.1	1.2	0.9	5.08
-3.0 m			1.9*	1.9*			1.4*	1.4*	3.81

* HEAVIER Counterweight = + 260 kg (higher density material filled on)
** BOLT-ON Counterweight = + 400 kg

The table values refer to ISO 10567 for excavator equipped with bucket. The indicated load is no more than 87% of hydraulic system lift capacity or 75% of static tipping load. Values marked with an asterisk are limited by the hydraulic system.

E80BMSR

SPECIFICATIONS

ENGINE STAGE IIIA

Net flywheel power (ECE R120) ..... 42 kW/56 hp
Rated rpm 2200
Make and model ..... ISUZU - AU-4LE2X
Type ..... Diesel 4-stroke, direct injection, turbo, aftercooler
Number of cylinders 4
Displacement ..... 2179 cm^3
Bore x Stroke ..... 85 x 96 mm
Maximum torque at 1600 rpm ..... 200 Nm
Electronic engine rpm control dial type.
Auto-idling selector returns engine to minimum rpm when all controls are in neutral position.
The engine complies with requirements set by European Directive 97/68/EC (2004/26/EC)

ELECTRICAL SYSTEM

Voltage ..... 24 V
Alternator ..... 30 Amp
Starter motor ..... 3.2 kW
Standard maintenance-free batteries 2
Capacity ..... 64 Ah

HYDRAULIC SYSTEM

Load sensing closed centre hydraulic system with pressure compensating and flow sharing valves for fast cycles and simultaneous movements.

Operating mode selector:
H - heavy mode for high performance
S - standard mode for normal operations

Manual selector:
A - crusher mode
B - hammer mode

Main pump:
One variable displacement axial piston pump.
Pump automatically revert to zero delivery with controls in neutral
Maximum delivery ..... 132 l/min
Piloting circuit: gear type pump
Maximum delivery ..... 18 l/min
Maximum operating pressure:
Equipment/Travel ..... 29.4 MPa
Swing ..... 24.5 MPa
Blade ..... 27.5 MPa
Pilot circuit ..... 3.5 MPa

Hydraulic cylinders	Number	Bore	Stroke
Lift	1	110 mm	916 mm
Penetration	1	95 mm	833 mm
Bucket	1	80 mm	735 mm
Swing boom	1	105 mm	594 mm
Blade	1	120 mm	125 mm

TRANSMISSION

Type ..... hydrostatic, two-speed
Travel motors ..... 2, axial piston type, double displacement
Brakes ..... automatic discs type
Final drive ..... oil bath, planetary reduction
Gradeability (continuous) ..... 70% (35°)
Travel speeds
Low ..... from 0 to 2.8 km/h
High ..... from 0 to 5.3 km/h
Automatic DownShift device: to move travel motors to maximum displacement position with selector on "speed" when greater traction is required.
Drawbar pull ..... 72 kN

SWING

Swing motor ..... axial piston type
Swing brake ..... automatic discs type
Final drive ..... oil bath, planetary reduction
Swing Ring ..... oil bath type
Swing Speed ..... 12.7 rpm

CAB AND CONTROLS

EVO operator cab ..... evolution in comfort and safety compliant to ROPS (ISO 12117-2) and FOPS (ISO 10262 level II) standards
Automatic conditioning.
Controls ..... piloted
Two cross path pattern levers actuate all equipment movements and superstructure swing.
One lever for blade lower/lift.
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.
Heavy duty track chain with sealed bushings.

Rollers:	LC	NLC
Track rollers (each side)	5	5
Carrier rollers (each side)	1	1
Length of track on ground (mm)	2240	2240
Gauge (mm)	1870	1700
Shoes triple grousers (mm)	450 - 600	450 - 600
Rubber (mm)	450	450

BLADE (STANDARD)

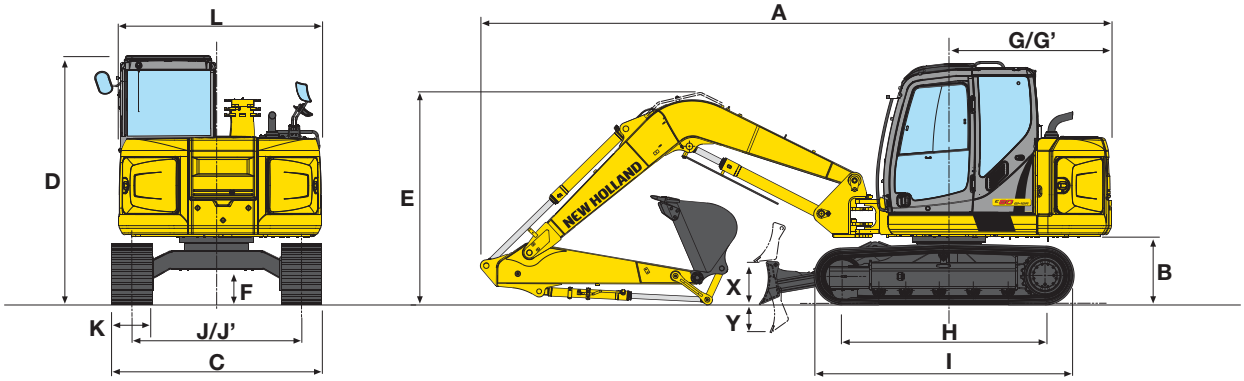
Redesigned dozer blade to improve reliability, durability and performance
Width x Height ..... 2320/2470 x 460 mm
Lift above ground ..... 355 mm
Digging depth ..... 250 mm

CAPACITIES

Engine	litres
Lube oil	11.0
Coolant	8.5
Fuel tank	120.0
Hydraulic system	90.0
Swing drive gear	1.5
Travel drive (each)	5.3

E80BMSR

DIMENSIONS - OPERATING WEIGHT MONOBOOM AND BLADE



ARM	A	B	D	E	F	G/G'	H	I	J/J'	L
1870 mm	5830	730	2740	2630	360	1290/1300	2240	2860	1870/1700	2230
2130 mm	5970	730	2740	2960	360	1290/1300	2240	2860	1870/1700	2230

G'= Rear swing radius with additional (0.40 t) bolt-on counterweight (optional)
J = LC version gauge
J' = NLC version gauge

SHOES		STEEL - 3 GROUSERS		RUBBER
K - Shoe width	mm	450	600	450
C - maximum width**	mm	2320/2150	2470/2300	2320/2150
Operating weight with blade**	kg	8365/8310	8595/8540	8275/8220
Ground pressure	bar	0.37	0.28	0.37
Max Blade width	mm	2320	2470	2320
Blade height	mm	460	460	460
Blade weight	kg	500	515	500
X - max lift	mm	355	355	355
Y - max dig.	mm	250	250	250

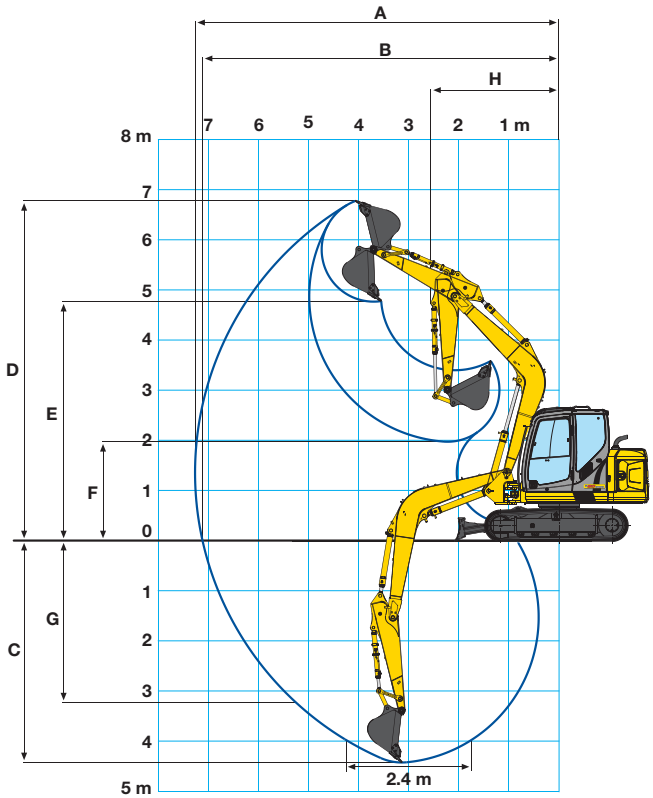
** LC/NLC version

DIGGING PERFORMANCE

MONOBOOM - 3670 mm

DIPPERSTICK		1870	2130
A	mm	7260	7640
B	mm	7110	7500
C	mm	4430	4700
D	mm	6780	7240
E	mm	4770	5190
F	mm	1970	1810
G	mm	3230	3810
H	mm	2560	3130

BREAKOUT FORCE			
Bucket	daN	5300	5300
Dipperstick	daN	3800	3550



E80BMSR

LIFTING CAPACITY - MONOBOOM

All data intended with blade up

Values are expressed in tonnes

E80BMSR-LC MONOBOOM - 1870 mm DIPPER - STD CWT

HEIGHT	RADIUS OF LOAD										
	1.5 m		3.0 m		4.5 m		6.0 m		AT MAX. REACH		REACH m
	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	
+4.5 m					1.6*	1.6*			1.2*	1.2*	5.3
+3.0 m					1.9	1.6	1.1	1.0	1.1	0.9	6.1
+1.5 m			3.3	2.7	1.7	1.5	1.1	0.9	1.0	0.8	6.4
0 m			3.1	2.5	1.6	1.3	1.0	0.9	1.0	0.8	6.2
-1.5 m	3.4*	3.4*	3.1	2.5	1.6	1.3			1.2	1.0	5.5
-3.0 m			3.1*	2.6					1.9	1.6	4.1

E80BMSR-LC MONOBOOM - 2130 mm DIPPER - STD CWT

HEIGHT	RADIUS OF LOAD										
	1.5 m		3.0 m		4.5 m		6.0 m		AT MAX. REACH		REACH m
	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	
+4.5 m									1.2*	1.1	5.8
+3.0 m					1.8*	1.6	1.1	1.0	1.0	0.8	6.5
+1.5 m			3.4	2.7	1.8	1.5	1.1	0.9	0.9	0.7	6.8
0 m			3.1	2.5	1.6	1.3	1.0	0.9	0.9	0.7	6.6
-1.5 m	2.8*	2.8*	3.0	2.4	1.6	1.3			1.0	0.8	6.0
-3.0 m	4.8*	4.8*	3.1	2.5	1.6	1.3			1.5	1.2	4.7

E80BMSR-LC MONOBOOM - 2130 mm DIPPER - HEAVIER CWT*

HEIGHT	RADIUS OF LOAD										
	1.5 m		3.0 m		4.5 m		6.0 m		AT MAX. REACH		REACH m
	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	
+4.5 m									1.2*	1.2	5.8
+3.0 m					1.8*	1.8	1.3	1.1	1.1	0.9	6.5
+1.5 m			3.7	3.0	1.9	1.6	1.2	1.0	1.0	0.8	6.8
0 m			3.4	2.7	1.8	1.5	1.1	1.0	1.0	0.8	6.6
-1.5 m	2.8*	2.8*	3.3	2.7	1.7	1.4			1.1	0.9	6.0
-3.0 m	4.7*	4.7*	3.4	2.8	1.8	1.5			1.6	1.4	4.7

E80BMSR-LC MONOBOOM - 2130 mm DIPPER + 400 kg BOLT-ON CWT

HEIGHT	RADIUS OF LOAD										
	1.5 m		3.0 m		4.5 m		6.0 m		AT MAX. REACH		REACH m
	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	
+4.5 m									1.2*	1.2*	5.8
+3.0 m					1.8*	1.8*	1.3	1.1	1.1	1.0	6.5
+1.5 m			3.8	3.1	2.0	1.7	1.3	1.1	1.0	0.9	6.8
0 m			3.4*	2.9	1.9	1.6	1.2	1.0	1.0	0.9	6.6
-1.5 m	2.8*	2.8*	3.5	2.8	1.8	1.5			1.2	1.0	6.0
-3.0 m	4.7*	4,7*	3.4*	2.9	1.9	1.6			1.7	1.5	4.7

* HEAVIER Counterweight = + 260 kg (higher density material filled on)

The table values refer to ISO 10567 for excavator equipped with bucket. The indicated load is no more than 87% of hydraulic system lift capacity or 75% of static tipping load. Values marked with an asterisk are limited by the hydraulic system.

LIFTING CAPACITY - MONOBOOM

All data intended with blade up

Values are expressed in tonnes

E80BMSR-NLC MONOBOOM - 1870 mm DIPPER - STD HEAVIER CWT*

HEIGHT	RADIUS OF LOAD										
	1.5 m		3.0 m		4.5 m		6.0 m		AT MAX. REACH		REACH m
	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	
+4.5 m					1.6*	1.6*			1.2*	1.2*	5.3
+3.0 m					1.9*	1.5	1.2	0.9	1.2*	0.9	6.1
+1.5 m			3.6	2.5	1.9	1.4	1.2	0.9	1.1	0.8	6.4
0 m			3.4	2.3	1.8	1.3	1.1	0.8	1.1	0.8	6.2
-1.5 m	3.4*	3.4*	3.4	2.3	1.7	1.3			1.3	0.9	5.5
-3.0 m			3.1*	2.4					2.1	1.5	4.1

E80BMSR-NLC MONOBOOM - 2130 mm DIPPER - STD HEAVIER CWT*

HEIGHT	RADIUS OF LOAD										
	1.5 m		3.0 m		4.5 m		6.0 m		AT MAX. REACH		REACH m
	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	
+4.5 m									1.2*	1,0	5.8
+3.0 m					1.8*	1.6	1.3	0.9	1.1	0.8	6.5
+1.5 m			3.7	2.6	1.9	1.4	1.2	0.9	1.0	0.7	6.8
0 m			3.4	2.3	1.8	1.3	1.1	0.8	1.0	0.7	6.6
-1.5 m	2.8*	2.8*	3.3	2.3	1.7	1.2			1.1	0.8	6.0
-3.0 m	4.7*	4.7*	3.4	2.4	1.7	1.3			1.6	1.2	4.7

E80BMSR-NLC MONOBOOM - 2130 mm DIPPER - STD HEAVIER CWT* + 400 kg BOLT-ON CWT

HEIGHT	RADIUS OF LOAD										
	1.5 m		3.0 m		4.5 m		6.0 m		AT MAX. REACH		REACH m
	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	
+4.5 m									1.2*	1.2*	5.8
+3.0 m					1.8*	1.8	1.4	1.1	1.2*	0.9	6.5
+1.5 m			4.1	3.0	2.2	1.6	1.4	1.0	1.1	0.8	6.8
0 m			3.4*	2.7	2.0	1.5	1.3	1.0	1.1	0.8	6.6
-1.5 m	2.8*	2.8*	3.8	2.7	2.0	1.4			1.3	1.0	6.0
-3.0 m	4.7*	4.7*	3.4*	2.7	2.0	1.5			1.8*	1.4	4.7

* HEAVIER Counterweight = + 260 kg (higher density material filled on)

The table values refer to ISO 10567 for excavator equipped with bucket. The indicated load is no more than 87% of hydraulic system lift capacity or 75% of static tipping load. Values marked with an asterisk are limited by the hydraulic system.

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Published by NEW HOLLAND KOBELCO CONSTRUCTION MACHINERY S.p.A
Printed in Italy - MediaCross Firenze - **Cod 30662GB - Printed 04/12**

Printed on recycled paper
CoC-FSC 000010 CQ Mixed sources

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