NEW HOLLAND

NET FLYWHEEL POWER	41 kW - 55 hp
MAXIMUM OPERATING WEIGHT	8 300 kg
BUCKET CAPACITY	0.23 - 0.35 m^3

NEW HOLLAND CONSTRUCTION

BUILT AROUND YOU

E80MSR*

A MACHINE BUILT FOR TIGHT SPACE

The E80MSR combines a small rear swing radius with a swinging boom for full-powered performance in a compact size. With its spacious, comfortable cab, excellent forward and lateral visibility, low emissions, and enhanced safety features, this state-of-the-art machine puts it all together in one tight, streamlined package. Despite its small rear swing radius, the E80MSR delivers excellent stability with exceptional lifting power, as well as outstanding performance specifications, easy operability, and simplified maintenance.

RESPECT FOR THE ENVIRONMENT

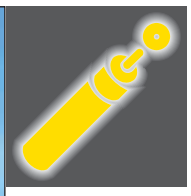
The E80MSR respects the European "reduced noise level" as per directive 2000/14/EC phase 2.

SMOOTHER DOZER OPERATIONS

With its larger, longer support struts, the dozer blade can be used for a wide variety of applications. For example, it can be used as an outrigger to give the machine added stability on slopes. For bricklaying and other pavement jobs, the longer arms enable it to be used like a dustpan to receive fragments and other debris swept into it by the bucket. Also, its departure angle of 30° helps to ensure smooth and easy travel.

* A product of the global alliance between CNH and KOBELCO

ADVANCED SMART HYDRAULIC SYSTEM (S.H.S.)



S.H.S. (Smart Hydraulic System)

For perfect controllability and simultaneity of all movements.
New generation **A.I. (Artificial Intelligence)** on-board computer.
A.P.S. (Automatic Priority System) device.
Computerized pumps delivery and main control valve actuation in relation to manipulators stroke and working pressure demand.
E.S.S.C. (Engine Speed Sensing Control device) for total installed hydraulic power exploitation.
High definition E.T.U. (EASY TO USE) multi-function monitor incorporating:
- Maintenance programme
- Self Diagnosis System
- Operating Data Storage

WORKING MODES

Three work modes are provided to match the job at hand:
H-heavy duty
S-standard
FC-precision jobs

A dial-type electric engine throttle ensures exact and consistent control.

ADVANCED ELECTRONIC MONITOR

The advanced Check & Safety monitor has two gauges and six display categories to provide instant verification of the machine's operating status at a glance.

FULL SIZE, COMFORTABLE CAB

The spacious cab combines the best aspects of functional layout and operator comfort. The sophisticated design minimizes noise and vibration. The cab is laid out with plenty of room to give the operator a comfortable working environment comparable to that of a full-sized machine.Viscous cab mounts cushion the cab from vibration, and the cab itself is tightly sealed to reduce noise.

"High Space" cab and perfect visibility in all directions thanks to the wide glass surface and transparent cab roof. Extremely low noise level and effective reduction of vibrations. All controls are within hand reach and in ergonomic position: more like a "living room" than a cab for maximum operator comfort.

Advanced climate control system maintains a comfortable and clean working environment

SPECIFICATIONS

ENGINE TIER-2

Net flywheel power (ISO 14396) .....41 kW/55 hp
Rated rpm 2100
Make and model.....ISUZU - 4JG1NABGA
Type .....Diesel 4-stroke, direct injection
Aspiration.....natural
Number of cylinders 4
Displacement .....3059 cm^3
Bore x Stroke.....95.4 x 107mm

Electronic engine rpm control dial type
Auto-idling selector returns engine to minimum rpm when all controls are in neutral position.
The engine conforms to 97/68/EC STAGE 2 Standards

ELECTRICAL SYSTEM

Voltage .....24 V
Alternator ..... 30 Amp
Starter motor ..... 3.2 kW
Standard maintenance-free batteries 2
Capacity.....136 Ah

HYDRAULIC SYSTEM

S.H.S. (Smart Hydraulic System) and **computerised hydraulic pump delivery** for perfect controllability and simultaneity of all movements.

Operating mode selector: **H** - heavy duty
S - standard
FC - precision jobs

Main pumps:
Two variable delivery axial piston pumps
Pumps automatically revert to zero delivery with controls in neutral
Maximum delivery.....2 x 66 l/min
Piloting circuit gear type pump
Maximum delivery .....20 l/min

Maximum operating pressure:
Equipment.....300 bar
Swing .....250 bar
Travel.....300 bar
Pilot circuit.....35 bar

Hydraulic cylinders	Number	Bore	Stroke
Lift	1	110 mm	916 mm
Penetration	1	95 mm	813 mm
Bucket	1	80 mm	735 mm
Swing boom	1	105 mm	594 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 3.1 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.

SWING

Swing motor .....axial piston type
Swing brake .....automatic discs type
Final drive .....oil bath, planetary reduction
Swing Ring .....oil bath type
Swing Speed.....12.5 rpm

CAB AND CONTROLS

Transparent upper cab roof.
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 detachable “hand” levers control all track movements, counter-rotation included.
A safety lever completely neutralizes the piloting circuit.

UNDERCARRIAGE

HD track chain with sealed bushings.
Track rollers (each side) 5
Carrier rollers (each side) 1
Length of track on ground .....2240 mm
Gauge .....1870 mm
Shoes .....450-600 mm triple grouser
450 mm - rubber

BLADE (STANDARD)

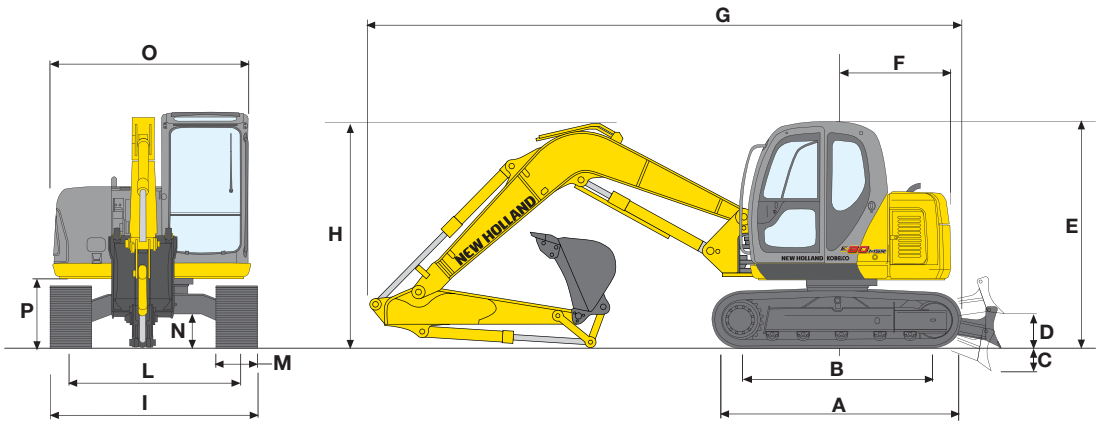
Width x Height.....2320 x 470 mm
Lift from ground.....545 mm
Lower from ground.....260 mm

CAPACITIES

	litres
Lube oil	10.0
Coolant	10.0
Fuel tank	100.0
Hydraulic system	117.0
Swing reduction	1.5
Travel reduction (each)	1.3

ONE - PIECE BOOM AND BLADE

DIMENSIONS (mm) - OPERATING WEIGHTS



A	B	C	D	E	F	G	H	I	L	M	N	O	P
2860	2240	260	545	2600	1650	6760*	2380	2320 (1)	1870	450	380	2170	750
								2470 (2)		600			

(1) 450 mm shoes - (2) 600 mm shoes
(*) Dimensions with 2070 mm Dipperstick

Shoes		3-grouser steel		Rubber
M - Shoe width	mm	450	600	450
I - maximum width	mm	2320	2470	2320
Operating weight	kg	8080	8300	8010
Ground pressure	bar	0.36	0.31	0.40

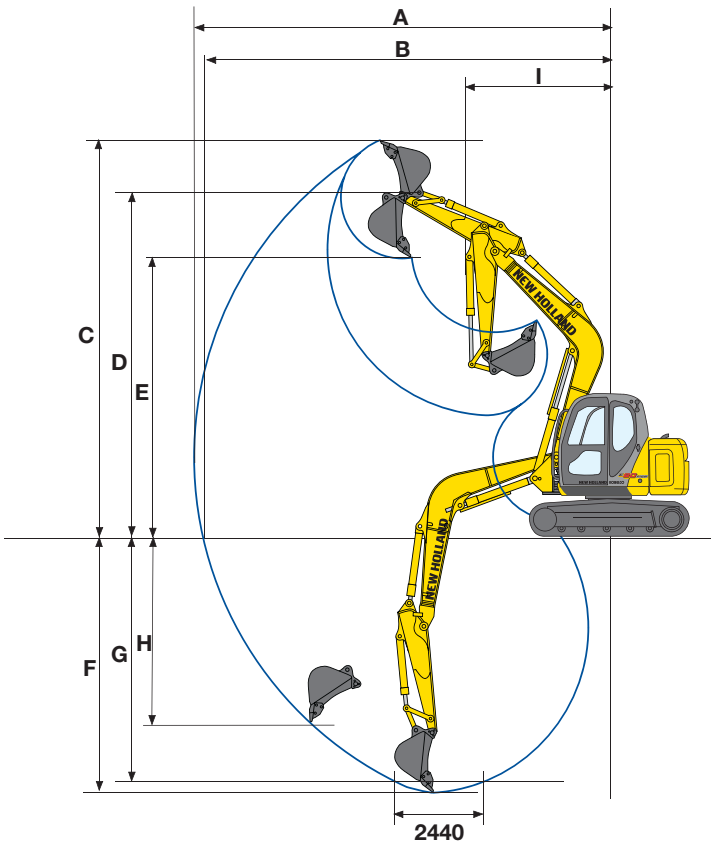
DIGGING PERFORMANCE

DIPPERSTICK	mm	1800	2070
A	mm	7170	7590
B	mm	7010	7440
C	mm	6790	7330
D	mm	5850	6310
E	mm	4780	5270
F	mm	4380	4660
G	mm	3070	3160
H	mm	3170	3890
I	mm	2520	3120

BREAKOUT FORCE:			
Bucket	daN	5300	5300
Dipperstick	daN	3800	3550

BUCKETS

SAE Capacity (m^3)	Width (mm)	Teeth
0.23	600	4
0.30	750	4
0.35	850	5



LIFTING CAPACITY

DATA IN Kg

ONE-PIECE BOOM - 1800 mm DIPPERSTICK

HEIGHT	REACH 1.5 m FRONT	REACH 1.5 m SIDE	REACH 3.0 m FRONT	REACH 3.0 m SIDE	REACH 4.5 m FRONT	REACH 4.5 m SIDE	REACH 6.0 m FRONT	REACH 6.0 m SIDE
+4.5 m					1640*	1560*		
+3.0 m					1670	1480	1000	880
+1.5 m			2870	2460	1530	1340	950	830
0 m			2680	2280	1420	1240	910	790
-1.5 m	3480*	3480*	2680	2280	1390	1200		
-3.0 m			2780	2370				

ONE-PIECE BOOM - 2070 mm DIPPERSTICK

HEIGHT	REACH 1.5 m FRONT	REACH 1.5 m SIDE	REACH 3.0 m FRONT	REACH 3.0 m SIDE	REACH 4.5 m FRONT	REACH 4.5 m SIDE	REACH 6.0 m FRONT	REACH 6.0 m SIDE
+4.5 m					1490*	1490*		
+3.0 m					1680	1490	1000	880
+1.5 m			2920	2510	1530	1340	950	830
0 m			2670	2270	1410	1230	900	780
-1.5 m	2760*	2760*	2640	2240	1360	1180		
-3.0 m	4720*	4720*	2720	2320	1400	1220		

Values to **ISO 10567** with 0.28m³ bucket and 450 mm steel shoes and below 75% tiltability and 87% hydraulic power.
Data with an asterisk (*) are limited by hydraulic capacity.

PARTS AND SERVICE

The New Holland dealer network is, in itself, the best guarantee of continued productivity for the machines it delivers to its customers. New Holland service technicians are fully equipped to resolve all maintenance and repair issues, with each and every service point providing the high standards they are obliged to observe under New Holland's stringent quality guidelines. The New Holland global parts network ensures fast, reliable, replacement parts for less downtime, increased productivity and, of course, profitable operation for its customers.

AT YOUR OWN DEALERSHIP

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