NEW HOLLAND

E 70 SR

NEW HOLLAND KOBELCO

NET FLYWHEEL POWER	41 kW - 55 hp
MAXIMUM OPERATING WEIGHT	8 050 kg
BUCKET CAPACITY	0.23 - 0.35 m^3

NEW HOLLAND CONSTRUCTION

BUILT AROUND YOU

E70SR*

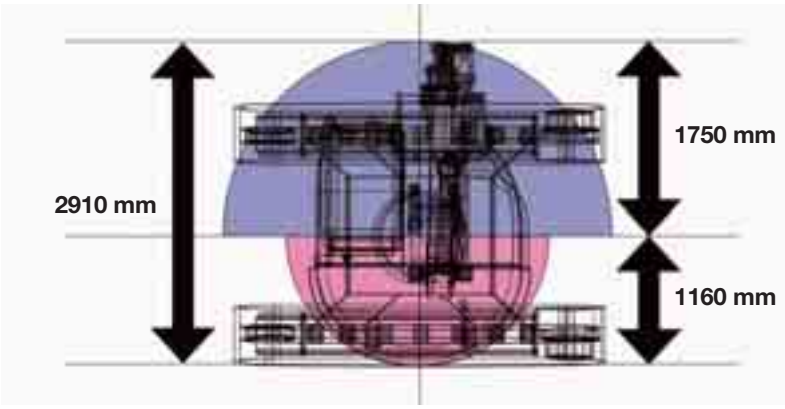
THE SR SERIES: THE STANDARD FOR OPERATION WITHIN A SHORT REAR SWING RADIUS

RESPECT FOR THE ENVIRONMENT

The E70SR respects the European "reduced noise level" as per directive 2000/14/EC phase 2.

Imagine a full-performance hydraulic excavator series with an ultra-short rear swing radius that allows the operator to focus on the job in front of him, even in narrow spaces. The NEW HOLLAND SR Series is designed with precisely that in mind, and has won the approval of operators on work sites throughout the world. SR Series machines offer all the benefits of short rear swing, but also do the same work as conventional models, providing optimal versatility. Carrying on the proud tradition of their predecessors, the E70SR machine represent a new standard in short rears-wing radius operation.

* A product of the global alliance between CNH and KOBELCO



A WORKING RADIUS LESS THAN 3 m

When swinging 180°, the E70SR needs less than three metres of operating space, making continuous digging, swinging, and loading operations possible on small worksites.

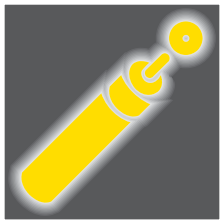
FULL-SIZED PERFORMANCE WITH A TINY REAR SWING RADIUS

RUGGED DESIGN FOR LONG LIFE

1 High-quality urethane paint resists wear
2 Steel-sheet cover is easy to repair
3 The floor of the upper body is a single steel plate for added strength
4 Tough, X-frame chassis can handle uneven terrain easily
5 Front idlers feature a thick shaft diameter for added strength
6 Front idler spring cover protects against soil
7 Three-piece crawler frames provide excellent rigidity
8 Modified shape of travel motor covers keeps out mud and gravel

E70SR

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



S.H.S.
(Smart Hydraulic System)

For perfect controllability and simultaneity of all movements.
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 (engine rpm/operating pressure etc.)

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 a perfect 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-SIZED, 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 with perfect visibility in all directions thanks to the wide glass area 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) .....41kW/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 A
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 .....22 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

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
450 - flat

BLADE (STANDARD)

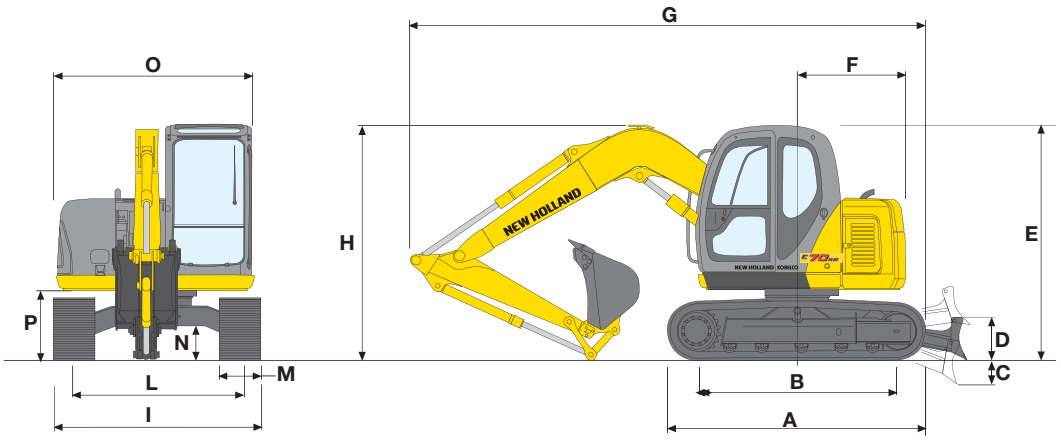
Width x Height .....2320 x 470 mm
Lift from ground.....360 mm
Lower to ground.....230 mm

CAPACITIES

	litres
Lube oil	10.0
Coolant	10.0
Fuel tank	85.0
Hydraulic system	78.0
Swing reduction	1.5
Travel reduction (each)	1.7

MONOBLOC BOOM AND BLADE

DIMENSIONS (mm) - OPERATING WEIGHT



A	B	C	D	E	F	G	H	I	L	M	N	O	P
2860	2240	230	360	2600	1160	5780*	2600	2320 (1)	1870	450	380	2170	750
								2470 (2)		600			

(1) 450 mm shoes - (2) 600 mm shoes
(*) Dimensions with 1650 mm dipperstick

Shoes		3-grouser steel		Rubber	Flat
M - Shoe width	mm	450	600	450	450
I - maximum width	mm	2320	2470	2320	2320
Operating weight	kg	6850	7050	6700	7000
Ground pressure	bar	0.31	0.23	0.30	0.32

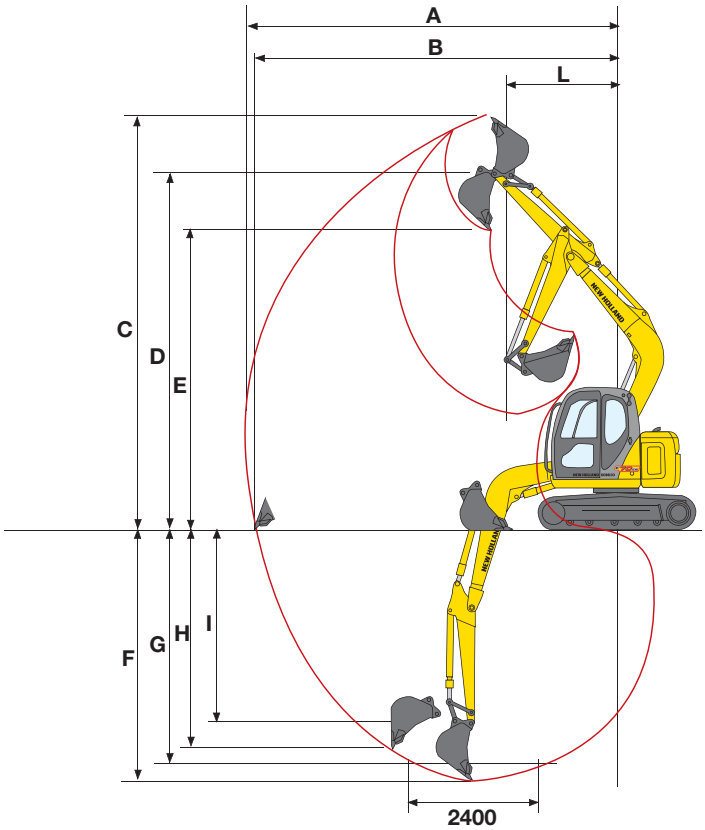
DIGGING PERFORMANCE

DIPPERSTICK	mm	1650	2070
A	mm	6310	6710
B	mm	6170	6570
C	mm	7180	7500
D	mm	6150	6465
E	mm	5120	5430
F	mm	4100	4520
G	mm	3740	4220
H	mm	3540	3970
I	mm	3060	3480
L	mm	1750	2090

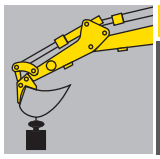
BREAKOUT FORCE:			
BUCKET	daN	5300	5300
DIPPERSTICK	daN	3920	3470

BUCKETS

SAE Capacity (m³)	Width (mm)	Teeth
0.23	600	4
0.30	750	4
0.35	850	5



LIFTING CAPACITY



REACH						
1.5 m		3.0 m		4.5 m	
FRONT	SIDE	FRONT	SIDE	FRONT	SIDE

MONOBLOC BOOM - 2070 mm DIPPERSTICK

HEIGHT						
+6.0 m			1650 *	1650 *		
+4.5 m					1480	1210
+3.0 m			2270 *	2270 *	1430	1160
+1.5 m			2650	2090	1340	1070
0			2410	1870	1250	980
-1.5 m	3550 *	3550 *	2340	1810	1210	950
-3.5 m	3640 *	3640 *	2270 *	1840		

Values to **ISO 10567** with 0.22 m³ bucket and 450 mm steel shoes and below 75% tiltability and 87% hydraulic power.
Data with an asterisk (*) are limited by hydraulic capacity.

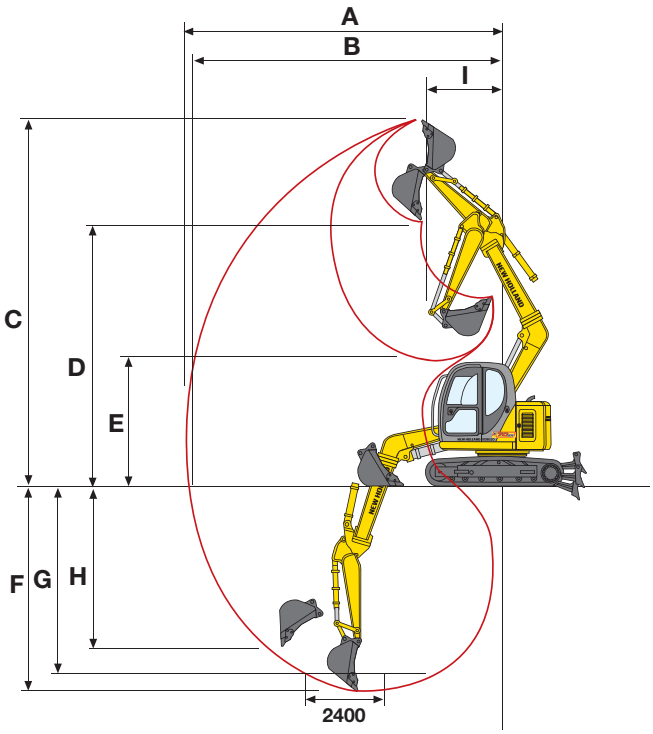
Data in kilos

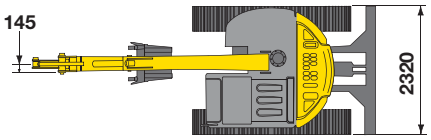
SIDE BOOM

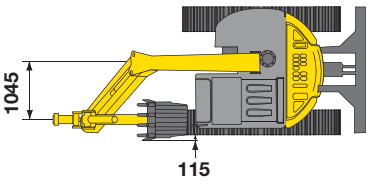
DIGGING PERFORMANCE

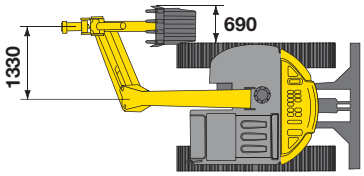
DIPPERSTICK	mm	1760		
Boom position		Left	Centre	Right
A	mm	6060	6440	5750
B	mm	5920	6300	5600
C	mm	7140	7480	6860
D	mm	5070	5410	4790
E	mm	2240	2570	1960
F	mm	3820	4190	3510
G	mm	3420	3800	3110
H	mm	2930	3280	2640
I	mm	1560	1410	2050

BREAKOUT FORCE:		
BUCKET	daN	5500
DIPPERSTICK	daN	3800









Operating weight (with blade and 600 mm steel shoes).....**8050 kg**

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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