

SHORT RADIUS HYDRAULIC EXCAVATORS CX75SR / CX135SR / CX225SR

CASE

CONSTRUCTION

CX75SR

ENGINE

Latest generation engine for "Low exhaust emissions" Tier 3
 Model _____ ISUZU AU-4LE2X
 Type _____ Water-cooled, 4-cycle diesel, 4-cylinder in line, direct injection,
 Turbocharger with air cooled intercooler
 Number of cylinders _____ 4
 Bore/Stroke _____ 85 x 96 mm
 Horsepower 80/1269/EEC _____ 54 hp (40 kW) @ 2000 rpm
 Maximum torque 80/1269/EEC _____ 210 Nm @ 1500 rpm

HYDRAULIC SYSTEM

Max output _____ 2 x 68 l/min @ 2000 rpm
 2 variable displacement axial piston pumps
 Attachment _____ 29.4 MPa
 Swing circuit _____ 22.6 MPa
 Travel _____ 29.4 MPa

SWING

Max upperstructure swing speed _____ 9.5 rpm

TRAVEL

Travel motor _____ Variable displacement axial piston motor
 Max travel speed _____ 5.1 km/h
 Low travel speed _____ 3.3 km/h
 Gradeability _____ 70% (35°)
 Drawbar pull _____ 59 kN

OPERATING WEIGHT

CX75SR WITH DOZER BLADE

*Operating weight (kg) with 75 kg
 operator, lubricants, full fuel tank,
 standard bucket*

MONOBOOM

	1.71 m	2.12 m
450 mm grouser shoes	7950 kg	7990 kg
600 mm grouser shoes	8100 kg	8150 kg

ELECTRICAL SYSTEM

Circuit _____ 24V
 Batteries _____ 12V 64Ah/5HR x 2
 Waterproof type connector _____
 Alternator _____ 50 Amp

UNDERCARRIAGE

Number of carriers rollers (each side) _____ 1
 Number of track rollers (each side) _____ 5
 Number of shoes each side _____ 39
 Type of shoe _____ Triple grouser shoe

CIRCUIT AND COMPONENT CAPACITIES

Fuel tank _____ 100 l
 Hydraulic system _____ 97.3 l
 Engine cooling system _____ 10.2 l

NOISE LEVEL

Exterior noise _____ 97dB(A) as per ISO6395

BUCKET SIZE AND CAPACITY

CAPACITY (l)	WIDTH (mm)	WEIGHT (kg)
110	370	136
170	480	161
220	600	178
280	730	204
340	865	227

SPECIFICATIONS

CX135SR

ENGINE

Latest generation engine for "Low exhaust emissions" Tier 3
 Model _____ ISUZU AJ-4JJ1X
 Type _____ Water-cooled, 4-cycle diesel, 4-cylinder in line, direct injection (electric control), Turbocharger with air cooled intercooler
 Number of cylinders _____ 4
 Bore/Stroke _____ 95.4 x 104.9 mm
 Horsepower 80/1269/EEC _____ 95 hp (70.9 kW) @ 2000 rpm
 Maximum torque 80/1269/EEC _____ 359 Nm @ 1600 rpm

HYDRAULIC SYSTEM

Max output _____ 2 x 117 l/min @ 2000 rpm
 2 variable displacement axial piston pumps with regulating system
 Attachment _____ 34.3 MPa
 Swing circuit _____ 28.0 MPa
 Travel _____ 34.3 MPa

SWING

Max upperstructure swing speed _____ 10.0 rpm

TRAVEL

Travel motor _____ Variable displacement axial piston motor
 Max travel speed _____ 5.0 km/h
 Low travel speed _____ 3.1 km/h
 Gradeability _____ 70% (35°)
 Drawbar pull _____ 114 kN

OPERATING WEIGHT*

(* operating weight (kg) with 75 kg operator, lubricants, full fuel tank, standard bucket

CX135SR	2.39 m		2.85 m	
	500 mm grouser shoes	13440 kg	13520 kg	
600 mm grouser shoes	13600 kg	13680 kg		

ELECTRICAL SYSTEM

Circuit _____ 24V
 Batteries _____ 12V 72Ah/5HR x 2
 Waterproof type connector _____
 Alternator _____ 50 Amp

UNDERCARRIAGE

Number of carriers rollers (each side) _____ 1
 Number of track rollers (each side) _____ 6
 Number of shoes each side _____ 43
 Type of shoe _____ Triple grouser shoe

CIRCUIT AND COMPONENT CAPACITIES

Fuel tank _____ 165 l
 Hydraulic system _____ 130 l
 Engine cooling system _____ 14 l

NOISE LEVEL

Exterior noise _____ 99 dB(A) as per ISO6395

BUCKET SIZE AND CAPACITY

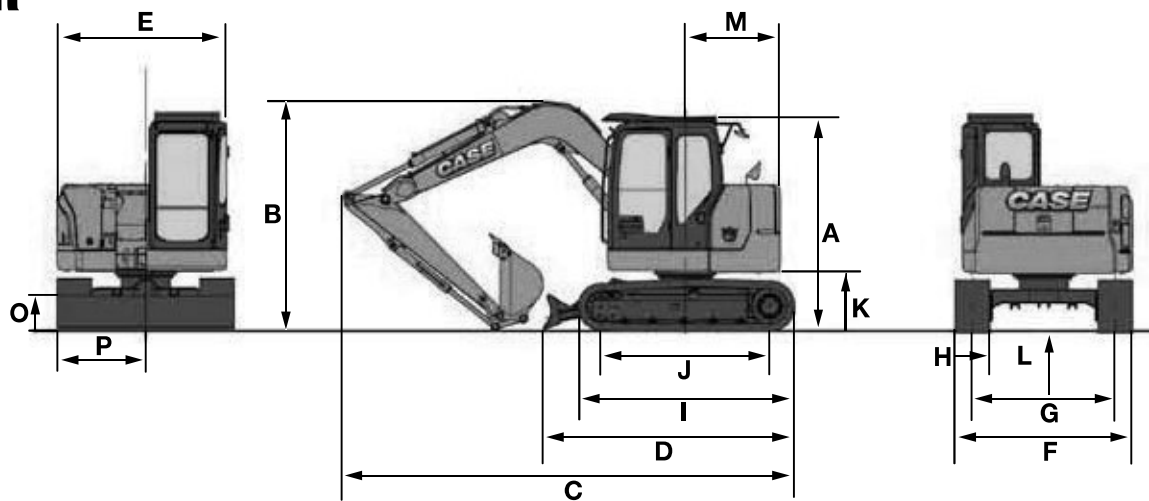
CAPACITY (l)	WIDTH (mm)	WEIGHT (kg)
500		

CX135SR WITH DOZER BLADE		2.39 m
500 mm grouser shoes		13440 kg
600 mm grouser shoes		13600 kg

SHORT RADIOUS HYDRAULIC EXCAVATORS

GENERAL DIMENSIONS

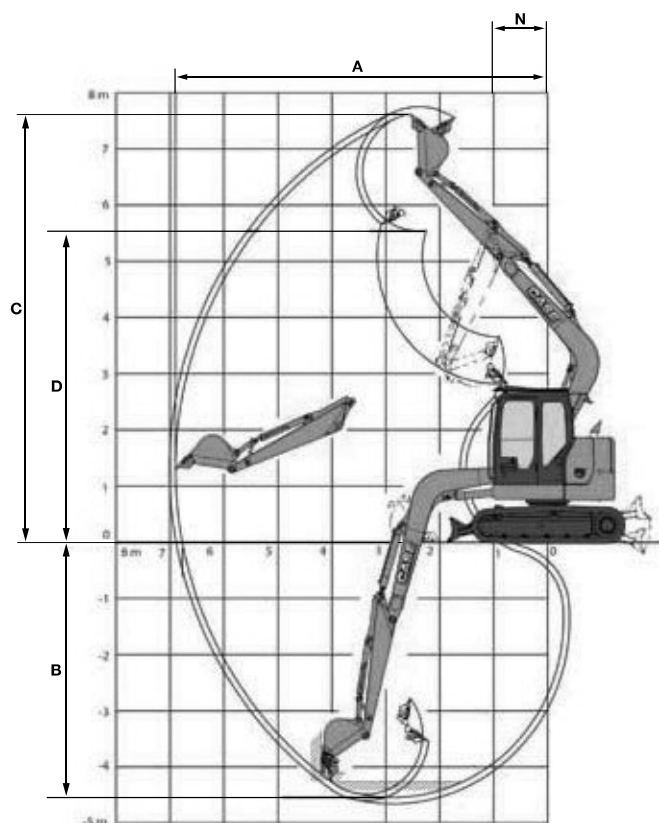
CX135SR



		Arm 2.40 m	Arm 2.85 m	Arm 2.40 m w/dozer blade	Arm 2.85 m w/dozer blade
A	Cab height	mm	2750	2750	2750
B	Overall height (with attachment)	mm	2750	2750	2750
C	Overall length (with attachment)	mm	7240	7230	7755
D	Overall length (without attachment)	mm	3510	3510	4020
E	Upperstructure overall width	mm	2415	2415	2415
F	Undercarriage overall width (600 mm shoes)	mm	2590	2590	2590
G	Track gauge	mm	1990	1990	1990
I	Crawler overall length	mm	3510	3510	3510
J	Wheel base	mm	2785	2785	2785
K	Clearance height under upperstructure	mm	880	880	880
L	Minimum ground clearance	mm	435	435	435
M	Swing (rear end) radius	mm	1480	1480	1480

		Arm 2.40 m	Arm 2.85 m
	Digging force	kN	63.9
	Breakout force	kN	89.7
A	Maximum reach	mm	8205
	Maximum reach at GRP	mm	8065
B	Max. digging depth	mm	5470
C	Max. digging height	mm	9305
D	Max. dumping height	mm	6905
	Boom length	mm	4730
	Bucket radius	mm	1200
	Bucket wrist action		178°

		Arm 2.40 m w/dozer blade	Arm 2.85 m w/dozer blade
	Digging force	kN	63.9
	Breakout force	kN	89.7
A	Maximum reach	mm	8205
	Maximum reach at GRP	mm	8065
B	Max. digging depth	mm	5470
C	Max. digging height	mm	9305
D	Max. dumping height	mm	6905
	Boom length	mm	4730
	Bucket radius	mm	1200
	Bucket wrist action		178°



CX135SR

With 3.87 m monoboam

Front Side	REACH												
	2.0 m		3.0 m		4.0 m		5.0 m		6.0 m		7.0 m		At max reach

Standard chassis, without dozer blade, dipper 2.40 m, 0.5 m³ (360 kg) bucket, 600 mm shoes, max reach 7.12 m

6.0 m					3140*	3140*	2440*	2440*					1910*	1910*	5.33
5.0 m					3520*	3520*	3200*	2790	1960*	1960*			1450*	1450*	6.19
4.0 m			4390*	4390*	4310*	3950	3860	2710	3820	1970			1450*	1450*	6.66
3.0 m	10150*	10150*	6700*	6000	5260*	3730	3730	2590	2750	1900			1480*	1450	6.96
2.0 m			8310*	5450	5170	3470	3580	2450	2670	1820	1970*	1390	1560*	1360	7.1
1.0 m			8110	5040	4920	3560	3450	2320	2580	1750	2020	1350	1700*	1320	7.1
0 m	3430*	3430*	7870	4850	4760	3110	3340	2230	2520	1690			1910*	1340	6.95
-1.0 m	5110*	5110*	7790	4780	4670	3030	3280	2170	2480	1650			2130	1410	6.95
-2.0 m	6980*	6980*	7800	4790	4650	3010	3260	2150	2480	1650			2370	1580	6.18
-3.0 m	8950*	8950*	6440*	4860	4690	3050	3290	2180					2870	1920	5.45
-4.0 m	6160*	6160*	5010*	5000	3880*	3150							3310*	2690	4.46

Standard chassis, without dozer blade, monoboam, dipper 2.85 m, 0.37 m³ (340 kg) bucket, 600 mm shoes, max reach 7.47 m

6.0 m					2890*	2890*	2640*	2640*					1650*	1650*	4.95
5.0 m					3050*	3050*	2990*	2860	2460*	2060			1600*	1600*	6.59
4.0 m					3510*	3510*	3440*	2770	2870	2010	1690*	1490	1600*	1480	7.04
3.0 m	7180*	7180*	5660*	5660*	4790*	3830	3790	2640	2790	1930	2130	1460	1640*	1340	7.32
2.0 m			7570*	7570*	5270	3560	3630	2490	2690	1850	2080	1410	1730*	1250	7.45
1.0 m			8260	8260	4990	3310	3480	2350	2600	1760	2020	1360	1820	1210	7.45
0 m	3770*	3770*	7910	7910	4780	3130	3350	2240	2520	1690	1980	1310	1850	1220	7.31
-1.0 m	4990*	4990*	7760	7760	4660	3020	3270	2160	2470	1640	1950	1290	1940	1280	7.03
-2.0 m	6530*	6530*	7720	7720	4610	2970	3230	2120	2440	1610			2130	1410	6.58
-3.0 m	8460*	8460*	7630*	7630*	4620	2980	3230	2130					2510	1660	5.93
-4.0 m	7840*	7840*	6020*	6020*	4690*	3050							3310	2190	5.0
-5.0 m			3460*	3460*									2900*	2900*	3.57

CX225SR

Front Side	REACH														
	2.0 m		3.0 m		4.0 m		5.0 m		6.0 m		7.0 m		8.0 m		At max reach

LC chassis, monoboam, dipper 2.40 m, 1.0 m³ bucket, 600 mm shoes, max reach at 8.02 m

7.0 m							5160*	5160*						5100*	5100*	5.58
6.0 m					5730*	5730*	5360*	5360*	5100*	4750				3750*	3720	6.86
5.0 m			7780*	7780*	6570*	6570*	5830*	5830*	5350*	4650	5030*	3550		3770*	3220	7.38
4.0 m			10240*	10240*	7790*	7790*	6510*	6040	5730*	4490	5220*	3470		3870*	2900	7.73
3.0 m			10130*	10130*	9170*	8110	7280*	5740	6180*	4310	5480*	3360		4050*	2710	7.94
2.0 m			10320*	7610	7980*	5450	6610*	4140	5540	3250	4470*	2610		4330*	2600	8.02
1.0 m					10930*	7290	8460*	5230	6930	3990	5440	3160		440	2570	7.98
0 m			7140*	7140*	11010*	7130	8650*	5090	6810	3890	5360	3090		4550	2620	7.8
-1.0 m			9950*	9950*	10680*	7090	8540*	5020	6740	3830	5320	3050		4810	2770	7.49
-2.0 m	9660*	9660*	12470*	11760	10010*	7110	8120*	5010	6660*	3820	5340	3060		5310	3050	7.02
-3.0 m	13000*	13000*	10980*	10980*	8950*	7200	7310*	5070	5920*	3870				5410*	3560	6.37
-4.0 m	10690*	10690*	8890*	8890*	7350*	7350*	5930*	5210						5260*	4590	5.45
-5.0 m					4740*	4740*								4600*	4600*	4.11

* Hydraulic capacity 87%

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