

CX D-SERIES

CX145D SR

SPECIFICATIONS

ENGINE

Model _____ ISUZU VD-4JJ1X
 Type _____ Water-cooled, 4-cycle diesel, 4-cylinder in line,
 High pressure common rail system (electric control),
 Turbocharger with air cooled intercooler, SRC system
 Exhaust gas treatment: _____ Stage V , CEGR, DOC + DPD + SCR
 Auto cleaning by temperature and pressure management
 Number of cylinders / Displacement (l) _____ 4 / 2.99
 Emissions level _____ Reg. Eu 2016/1628 Stage V
 Bore & stroke (mm) _____ 95.4 x 104.9

Rated flywheel horse power

SAE J1349, ISO 9249 (kW / hp) _____ 76.4 / 102 at 2000 min⁻¹

ISO 14396 (kW / hp) _____ 78.5 / 105 at 2000 min⁻¹

Maximum torque

SAE J 1349, ISO 9249 (Nm) _____ 349 at 1800 min⁻¹

ISO 14396 (Nm) _____ 356 at 1800 min⁻¹

HYDRAULIC SYSTEM

Main pumps _____ 2 variable displacement axial piston pumps
 with regulating system

Max. oil flow (l/min) _____ 2 x 129 at 2000 min⁻¹

Working circuit pressure

Boom/Arm/Bucket _____ 34.3 MPa – 36.3 MPa with auto power boost

Boom/Arm/Bucket (Offset version only) _____ 34.3 MPa

Swing circuit _____ 27.9 MPa

Travel circuit _____ 34.3 MPa

Offset circuit (Offset version only) _____ 31.4 MPa

Pilot pump _____ 1 gear pump

Max. oil flow (l/min) _____ 20

Working circuit pressure (MPa) _____ 3.9

Boom Cylinders

Bore (mm) _____ 105

Stroke (mm) _____ 1120

Arm Cylinder

Bore (mm) _____ 115

Stroke (mm) _____ 1108

Bucket Cylinder

Bore (mm) _____ 95

Stroke (mm) _____ 881

Boom Positioning Cylinder (2PB versions)

Bore (mm) _____ 140

Stroke (mm) _____ 840

Blade Operating Cylinder (dozer blade versions)

Pieces _____ 2

Bore (mm) _____ 115

Stroke (mm) _____ 250

Offset Operating Cylinder (Offset version)

Bore (mm) _____ 120

Stroke (mm) _____ 363

SWING

Swing Motor _____ Fixed displacement axial piston motor

Maximum swing speed (min⁻¹) _____ 12.5

Swing torque (kNm) _____ 37

ELECTRICAL SYSTEM

Voltage _____ 24 V

Alternator _____ 90 Amp

Starter _____ 24 V 4.0 kW

Battery _____ 2 X 12 V 72 Ah/5HR

UNDERCARRIAGE

High travel speed (km/h) _____ 5.6

Low travel speed (km/h) _____ 3.4

Drawbar pull (kN) _____ 116

Number of carrier rollers (each side) _____ 1 (with Blade);

2 (LC w/out blade)

Number of track rollers (each side) _____ 7

Number of shoes (each side) _____ 43 (with Blade);

46 (LC w/out blade)

Type of shoes _____ Triple grouser shoes

Grade ability _____ 70 % (35°)

CIRCUIT AND COMPONENT CAPACITIES

Fuel tank (l) _____ 200

Hydraulic system (l) _____ 158

Hydraulic reservoir (l) _____ 75

AdBlue tank (l) _____ 43

SOUND LEVEL

External guaranteed sound level

(EU Directive 2000/14/EC) _____ LwA 99 dB(A)

Operator cab sound pressure level (ISO 6396) _____ LpA 69 dB(A)

OPERATING WEIGHT

	Operating weight	Counterweight (kg)
LC	14500/14700*	3350/3550
Blade	14700/15400*	2850/3550
2 Piece Boom	15200	3350
2 PB w/Blade	15800	3350
Offset	15400	2850

*with heavy counterweight

BLADE DIMENSIONS AND RANGE

Blade dimensions

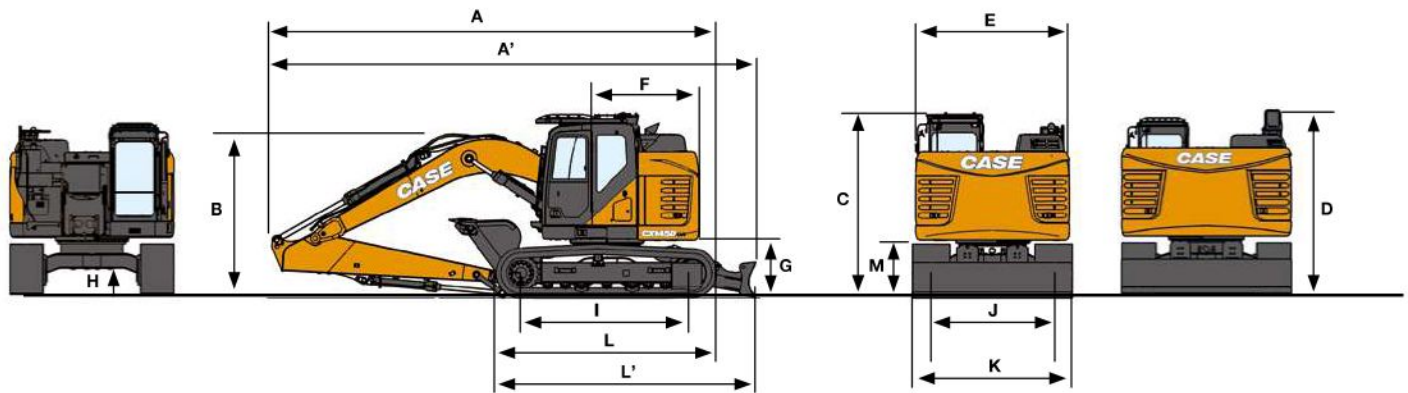
Blade (width x height) (mm) _____ 2490 / 2590 / 2690 x 570

Blade range up / down (mm) _____ 510/520

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GENERAL DIMENSIONS



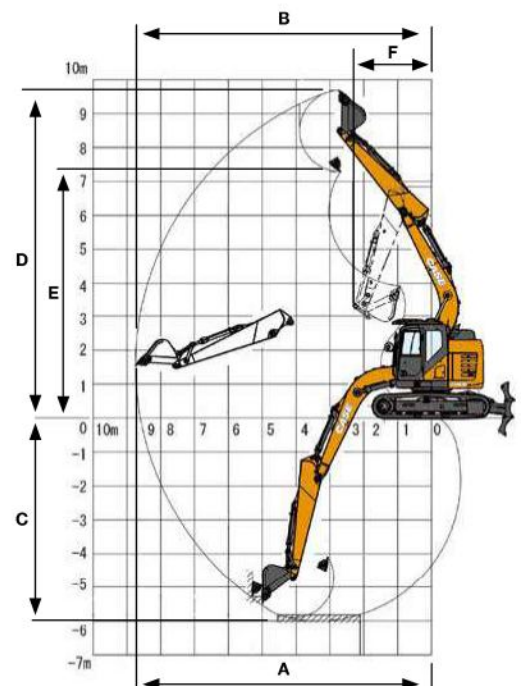
		CX145D SR LC			CX145D SR BLADE		
		Arm 2.5 m	Arm 3.00 m	Arm 2.10 m HD	Arm 2.5 m	Arm 3.00 m	Arm 2.10 m HD
A	Overall length (with attachment)	mm	7350	7340	7340	7220	7210
A'	Overall length (with attachment & blade)	mm	-	-	-	7880	7860
B	Overall height (to top of boom)	mm	2840	2680	2750	2840	2680
C	Cab height	mm	2920	2920	2920	2920	2920
D	Overall height (to top of guardrail)	mm	2940-2780 (folded handrail)	2940-2780 (folded handrail)	2940-2780 (folded handrail)	2940-2780 (folded handrail)	2940-2780 (folded handrail)
E	Upper structure overall width	mm	2490	2490	2490	2490	2490
F	Swing (rear end) radius STD count./heavy count.	mm	1490/1530	1490/1530	1490/1530	1490	1490
G	Clearance height under upper structure	mm	880	880	880	880	880
H	Minimum ground clearance	mm	420	420	420	425	425
I	Wheel base (Center to center of wheels)	mm	3040	3040	3040	2790	2790
L	Crawler overall length	mm	3760	3760	3760	3500	3500
L'	Crawler overall length (with blade)	mm	-	-	-	4160	4160
M	Crawler tracks height	mm	780	780	780	780	780
J	Track gauge	mm	1990	1990	1990	1990	1990
K	Undercarriage overall width (with 600 mm shoes)	mm	2590	2590	2590	2590	2590

PERFORMANCE DATA

CX145D SR LC / CX145D SR BLADE		Arm 2.5 m	Arm 3.00 m	Arm 2.10 m HD
Boom length	mm	4630	4630	4630
A	Maximum reach at GRP	mm	8140	8600
B	Max reach	mm	8290	8740
C	Max digging depth	mm	5510	6010
D	Max digging height	mm	9340	9690
E	Max dumping height	mm	6940	7290
F	Min swing radius	mm	1950	2330

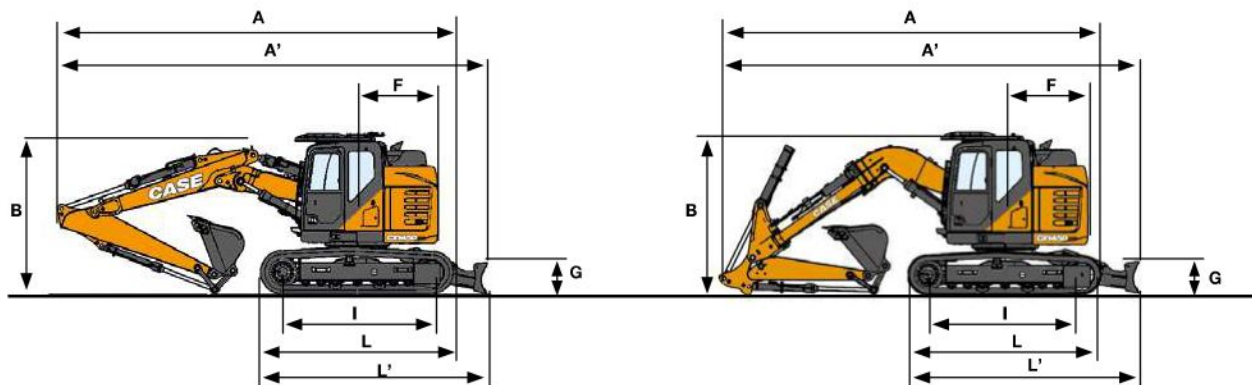
DIGGING FORCE (ISO 6015)

CX145D SR LC / CX145D SR BLADE		Arm 2.5 m	Arm 3.00 m	Arm 2.10 m HD
Arm digging force	kN	62	56	70
With auto power boost	kN	66	60	74
Bucket digging force	kN	90	90	90
With auto power boost	kN	95	95	95



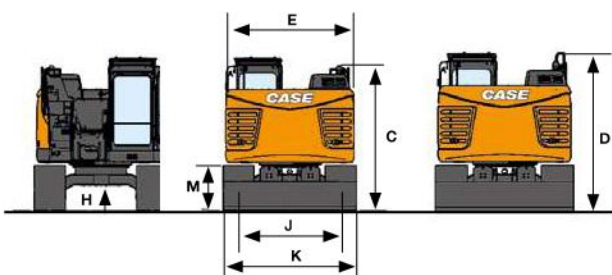
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CX145D SR 2-PB W/BLADE / OFFSET BOOM



DIGGING FORCE (ISO 6015)

		CX145D SR 2 PB - 2PB (W/BLADE)		CX145D SR OFFSET
		Arm 2.5 m	Arm 3.00 m	Arm 2.10 m
Arm digging force	kN	62	56	59.5
With auto power boost	kN	66	60	-
Bucket digging force	kN	90	90	89.3
With auto power boost	kN	95	95	-



		CX145D SR LC 2 PIECE BOOM		CX145D SR 2 PB (W/BLADE)		CX145D SR OFFSET
		Arm 2.5 m	Arm 3.00 m	Arm 2.5 m	Arm 3.00 m	Arm 2.10 m
A Overall length (with attachment)	mm	7460	7480	7330	7350	6910
A' Overall length (with attachment & blade)	mm	-	-	7990	8010	7570
B Overall height (to top of boom)	mm	2730	2750	2730	2750	2690
C Cab height	mm	2920	2920	2920	2920	2920
D Overall height (to top of tailpipe - folded guardrail)	mm	2780	2780	2780	2780	2780
E Upper structure overall width	mm	2490	2490	2490	2490	2490
F Swing (rear end) radius	mm	1490	1490	1490	1490	1490
G Clearance height under upper structure	mm	880	880	880	880	880
H Minimum ground clearance	mm	440	440	425	425	425
I Wheel base (Center to center of wheels)	mm	3040	3040	2790	2790	2790
L Crawler overall length	mm	3760	3760	3500	3500	3500
L' Crawler overall length (with blade)	mm	-	-	4160	4160	4160
M Crawler tracks height	mm	780	780	780	780	780
J Track gauge	mm	1990	1990	1990	1990	1990
K Undercarriage overall width (with 600 mm shoes)	mm	2590	2590	2590	2590	2590

PERFORMANCE DATA

		CX145D SR 2 PB - 2PB (W/BLADE)		CX145D SR OFFSET
		Arm 2.5 m	Arm 3.00 m	Arm 2.10 m
Boom length	mm	-	-	4500
1 st Boom length	mm	2460	2460	-
2 nd Boom length	mm	2390	2390	-
A Maximum reach at GRP	mm	8280	8760	7430
B Max reach	mm	8430	8890	7590
C Max digging depth	mm	5310	5810	4910
D Max digging height	mm	9470	9840	8630
E Max dumping height	mm	7080	7450	6250
F Min swing radius	mm	2110	2510	1490

