

YANWA DX230-LC

CRAWLER EXCAVATOR

TECHNICAL SPECIFICATIONS

ENGINE

MAKE	ISUZU
MODEL	4HK1
NUMBER OF CYLINDERS	6 Cylinder-5700cc
SUCTION TYPE	4-stroke diesel turbo
RATED POWER NET	180 hp (133 kW) @ 2000 rpm
MAX. TORQUE	(680 Nm)
PISTON DISPLACEMENT	317 in.3 (5.2 L)
BORE AND STROKE	4.5 in. x 4.9 in. (115 mm x 125 mm)
STARTER	24 V, 8.6 hp (6.0 kW)
BATTERY	2 x 12 V, 100 AH
ALTERNATOR	24 V, 100 A
AIR CLEANER	Three-Stage

HYDRAULICS

MAIN PUMPS	2 x 56 gpm (2 x 211 L/min)
PILOT PUMP (GEAR DESIGN)	8 gpm (30 L/min)

WORKING PRESSURE

BOOM/ARM/BUCKET (NORMAL MODE)	4700 psi (324 kg/cm ²)
BOOM/ARM/BUCKET (POWER BOOST)	5000 psi (343 kg/cm ²)
TRAVEL	4700 psi (324 kg/cm ²)
SWING	4000 psi (275 kg/cm ²)
PILOT	667 psi (46 kg/cm ²)

UNDERCARRIAGE

UPPER ROLLERS (EACH TRACK)	2
LOWER ROLLERS (EACH TRACK)	9
NUMBER OF SHOES (LINKS PER SIDE)	49

SWING MECHANISM

SWING SPEED	0 - 12.4 rpm
SWING TORQUE	60,757 lbf.-ft. (8400 kgf-m)

DRIVE SYSTEM

TRAVEL SPEED [LOW - HIGH]	3.1 - 5.4 km/h
TRACTION FORCE, MAX. (DRAWBAR PULL)	199,197 lbf.-ft. (27,540 kgf-m)
MAX. GRADE (LIMITED BY ENGINE LUB)	70% (35°)



GENERALITIES

MAKE	YANWA
MODEL	DX230-LC
AMOUNT	4 UNITS,
ORIGIN.	CHINA
YEAR OF PRODUCTION	2023
OPERATING WEIGHT	23626 KG
Bucket Capacity	1.05 cubic meters
CABIN	
Guy	Closed, soundproofed with A C
Seating	Adjustable to operator Includes seat belt
Seat belt	
Rear view mirrors	Includes rear view mirrors

ACCESSORIES

Anti- vandalism protection	Engine and Cabin Protection
Tools	Regulatory Tools Includes auxiliary hydraulic line for hammer
Auxiliary Hydraulic Line for hammer	
Monitoring system	Factory Installed Monitoring System

ENVIRONMENT

SOUND LEVEL (2000/14/EC)	102 dB(A)
CABIN SOUND LEVEL (ISO 6396)	70 dB(A)

REFILL CAPACITIES

FUEL TANK	105,67g(400Lt.)
DEF TANK	8.3 gal. (31.5 L)
COOLING SYSTEM (RADIATOR CAPACITY)	11 gal. (42 L)
ENGINE OIL (WITH FILLER)	5.3gal. (20 L)
SWING DRIVE	1.3 gal. (5 L)
FINAL DRIVE (EACH SIDE)	1.1 gal. (4 L)
HYDRAULIC SYSTEM	63.4 gal. (240 L)
HYDRAULIC TANK	35 gal. (131 L)

HYDRAULIC CYLINDERS

BOOM ¹ (2) BORE x ROD DIAMETER x STROKE	4.7 in. x 3.4 in. x 49 in. (120 mm x 85 mm x 1245 mm)
ARM ² (1) BORE x ROD DIAMETER x STROKE	5.3 in. x 3.7 in. x 60.5 in. (135 mm x 95 mm x 1538 mm)
BUCKET (STD); (1) BORE x ROD DIAMETER x STROKE	4.7 in. x 3.23 in. x 41.7 in. (120 mm x 84 mm x 1050 mm)

1 Cushion on Rod End
2 Cushion on Base End

The piston rods and cylinder bodies are made of high-strength steel. A shock-absorbing mechanism is fitted in all cylinders to ensure shock-free operation and extended piston life.

NOTE: Where applicable, dimensions are in accordance with Society of Automotive Engineers (SAE) and ISO standards. Specifications and design are subject to change without notice. All dimensions are given for YANWA excavators equipped with standard tracks and the standard front as listed. Pictures of YANWA excavators may show other than standard equipment. All dimensions are shown in inches. Respective metric dimensions are enclosed by parentheses.

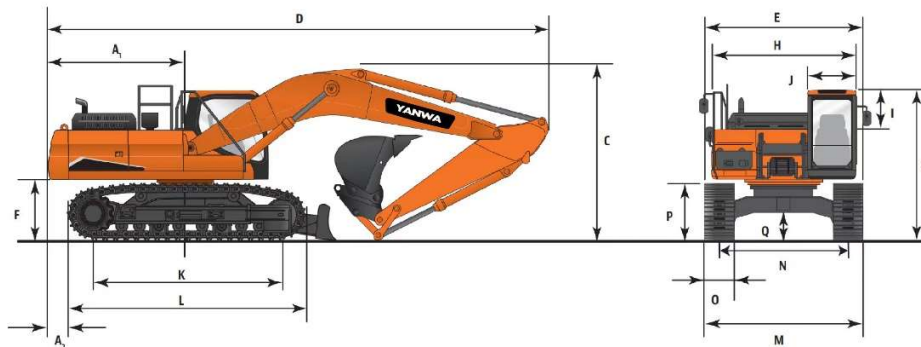
YANWA DX230-LC

DIMENSIONS

STANDARD ARM 31.5" (800 MM) TG SHOE (US20)

BOOM LENGTH		18.7' (5700 mm)
ARM LENGTH		9' 6" (2900 mm)
BUCKET TYPE (SAE)		1.2 yd ₃ (0.92 m ₃)
TRACK TYPE		FIXED
TAIL SWING RADIUS	A ₁	9.5' (2900 mm)
TAIL SWING OVERHANG (REAR)	A ₂	2' 3" (686 mm)
SHIPPING HEIGHT (HOSE)	C	10.1' (3100 mm)
SHIPPING LENGTH	D	31.5' (9600 mm)
SHIPPING WIDTH	E	10' 6" (3190 mm)
COUNTERWEIGHT CLEARANCE	F	3.65' (1120 mm)
CABIN HEIGHT	G	9.9' (3000 mm)
UPPER STRUCTURE WIDTH	H	8.9' (2710 mm)
CABIN HEIGHT ABOVE HOUSE	I	2.79' (850 mm)
CABIN WIDTH	J	3.18' (970 mm)
TUMBLER DISTANCE	K	12' (3720 mm)
OVERALL TRACK LENGTH	L	14.57' (4440 mm)
UNDERCARRIAGE WIDTH	M	9.8' (2990 mm)
TRACK GAUGE WIDTH	N	7.84' (2390 mm)
TRACK SHOE WIDTH	O	23.6" (600 mm)
TRACK HEIGHT	P	3.21' (980 mm)
CAR BODY CLEARANCE	Q	1.54' (470 mm)

*Without shoe grouser

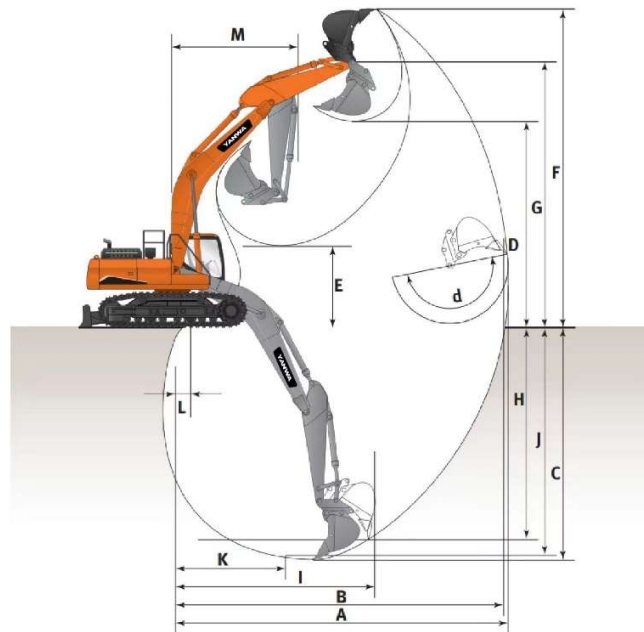


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WORKING RANGE

STANDARD ARM 31.5" (800 MM) TG SHOE (US20)

BOOM LENGTH		18.7' (5700 mm)
ARM LENGTH		9' 6" (2900 mm)
BUCKET TYPE (SAE) PCSA	³	1.2 yds (0.92 m ³)
TRACK TYPE		FIXED
MAX. DIGGING REACH	A	32.5' (9910 mm)
MAX. DIGGING REACH (GROUND)	B	31.9' (9735 mm)
MAX. DIGGING DEPTH	C	21.7' (6625 mm)
MAX. LOADING HEIGHT	D	22.3' (6810 mm)
MIN. LOADING HEIGHT	E	8.2' (2500 mm)
MAX. DIGGING HEIGHT	F	31.7' (9660 mm)
MAX. BUCKET PIN HEIGHT	G	27.1' (8270 mm)
MAX. VERTICAL WALL DEPTH	H	19.8' (6045 mm)
MAX. RADIUS VERTICAL	I	21' 1" (6415 mm)
MAX. DEPTH TO 8' LINE	J	21' (6395 mm)
MIN. RADIUS 8' LINE	K	9.31' (2840 mm)
MIN. DIGGING REACH	L	1.9' (575 mm)
MIN. SWING RADIUS	M	11.7' (3570 mm)
BUCKET ANGLE (DEG)	d	177°
DIGGING FORCE, BUCKET (PCSA)		21828 lbf. (97.1kN)
DIGGING FORCE, ARM	ISO	30641 lbf. (136.3 kN)
OPERATING WEIGHT		52086 lb. (23626 kg)
GROUND PRESSURE		6.6 psi (46Kpa)



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BUCKET

	STANDARD ARM (US20)		LONG ARM (US30)	
BOOM	18' 8" (5700 mm)			
ARM	9' 6" (2900 mm)		11' 6" (3500 mm)	
SHOE SIZE	31.5" (800 mm)		35.4" (900 mm)	
TRACK TYPE	FIXED		FIXED	
MOUNT	PIN-ON	QUICK-COUPLER	PIN-ON	QUICK-COUPLER
COUNTERWEIGHT	10,780 lb. (4900 kg)		11,660 lb. (5300 kg)	

BUCKET TYPE	MODEL	CAPACITY ¹ YD ³ (M ³)	WIDTH IN. (MM)	WEIGHT LB. (KG)				
HEAVY-DUTY	HD22-024	0.55 (0.42)	24 (610)	1394 (632)	A	A	A	A
	HD22-030	0.74 (0.57)	30 (762)	1566 (710)	A	A	A	A
	HD22-036	0.94 (0.72)	36 (914)	1747 (792)	A	A	A	A
	HD22-042	1.14 (0.87)	42 (1067)	1893 (858)	A	A	A	A
	HD22-048	1.34 (1.02)	48 (1219)	2074 (940)	A	B	A	B
SEVERE-DUTY	SD22-024	0.55 (0.42)	24 (610)	1424 (645)	A	A	A	A
	SD22-030	0.74 (0.57)	30 (762)	1586 (719)	A	A	A	A
	SD22-036	0.94 (0.72)	36 (914)	1774 (804)	A	A	A	A
	SD22-042	1.14 (0.87)	42 (1067)	1919 (870)	A	A	A	A
	SD22-048	1.34 (1.02)	48 (1219)	2097 (951)	A	B	A	B
DITCHING	DC140-048	0.63 (0.48)	48 (1219)	820 (372)	A	A	A	A
	DC140-060	0.80 (0.61)	60 (1524)	985 (447)	A	A	A	A
	HDC140-060	1.38 (1.06)	60 (1524)	1620 (735)	A	A	A	B
	DC200-048	0.97 (0.74)	48 (1219)	1195 (542)	A	A	A	A
	DC200-060	1.22 (0.93)	60 (1524)	1395 (632)	A	A	A	A
	DC200-072	1.34 (1.02)	72 (1829)	1565 (709)	A	A	A	B
	HDC200-060	1.96 (1.50)	60 (1524)	2370 (1075)	C	C	C	C
HDC200-066	2.16 (1.65)	66 (1676)	2554 (1158)	C	X	C	X	

¹ Capacity based on ISO 7451 and heaped with a 1:1 angle of repose

² Equipped with Bolt On Wear Shrouds

³ Equipped with Bolt On Teeth

⁴ Equipped with Bolt On Cutting Edge

⁵ These recommendations are given as a guide only and based on typical operation conditions

Maximum Suitable Material Density

A 3,370 lb./yd³ (2,000 kg/m³)



B 2,700 lb./yd³ (1,600 kg/m³)













C 1,850 lb./yd³ (1,100 kg/m³)

X Not Approved

YANWA DX230-LC

LIFTING CAPACITY

 Rating over front
 Rating over side or 360°

DX225LC-7X US20 BOOM: 18' 8" (5700 MM) ARM: 9' 6" (2900 MM) COUNTERWEIGHT: 10,800 LB. (4900 KG) 31.5" (800 MM) TG SHOES NO DOZER BUCKET: NONE UNIT: LB. (KG)													
A (ft. or m)	5' (1.5 m)		10' (3.0 m)		15' (4.5 m)		20' (6.0 m)		25' (7.5 m)		MAX. REACH		
													A
25' (7.5 m)							* 11,530 (* 5,241)	* 11,530 (* 5,241)			* 10,050 (* 4,568)	* 10,050 (* 4,568)	20.34' (6.20 m)
20' (6.0 m)							* 12,750 (* 5,795)	* 12,750 (* 5,795)			* 9,370 (* 4,259)	* 9,370 (* 4,259)	23.98' (7.31 m)
15' (4.5 m)							* 13,980 (* 6,355)	13,130 (5,968)	* 12,940 (* 5,882)	9,300 (4,227)	* 9,240 (* 4,200)	8,390 (3,814)	26.21' (7.99 m)
10' (3.0 m)					* 20,420 (* 9,282)	19,100 (8,682)	* 15,910 (* 7,232)	12,570 (5,714)	* 13,730 (* 6,241)	9,060 (4,118)	* 9,480 (* 4,309)	7,690 (3,495)	27.38' (8.35 m)
5' (1.5 m)					* 24,230 (* 11,014)	17,940 (8,155)	* 17,840 (* 8,109)	12,010 (5,459)	13,440 (6,109)	8,800 (4,000)	* 10,110 (* 4,595)	7,450 (3,386)	27.63' (8.42 m)
Ground Level			* 14,080 (* 6,400)	* 14,080 (* 6,400)	* 26,060 (* 11,845)	17,310 (7,868)	18,300 (8,318)	11,620 (5,282)	13,220 (6,009)	8,590 (3,905)	* 11,250 (* 5,114)	7,600 (3,455)	26.98' (8.22 m)
-5' (-1.5 m)	* 15,370 (* 6,986)	* 15,370 (* 6,986)	* 24,440 (* 11,109)	* 24,440 (* 11,109)	* 25,830 (* 11,741)	17,140 (7,791)	18,120 (8,236)	11,460 (5,209)	13,160 (5,982)	8,540 (3,882)	12,640 (5,745)	8,220 (3,736)	25.36' (7.73 m)
-10' (-3.0 m)	* 26,340 (* 11,973)	* 26,340 (* 11,973)	* 32,850 (* 14,932)	* 32,850 (* 14,932)	* 23,620 (* 9,910)	17,280 (7,855)	* 17,570 (* 7,986)	11,550 (5,250)			* 14,430 (* 6,559)	9,700 (4,409)	22.57' (6.88 m)
-15' (-4.5 m)			* 25,100 (* 11,409)	* 25,100 (* 11,409)	* 18,340 (* 8,260)	* 18,340 (* 8,260)					* 14,050 (* 6,386)	* 14,050 (* 6,386)	18.05' (5.50 m)

A Distance from center of rotation
B Height

NOTE: Lift Capacities are in compliance with SAE 1097 and ISO 10567. Machine in Lifting Mode with Power Boost turned on. Load point is the end of the arm. Rated loads shown do not exceed 75% of minimum tipping loads or 87% of hydraulic capacities. Rated loads marked with an asterisk (*) are limited by hydraulic capacities. The least stable position is over the side. The total mass of machine includes the mass of the boom, arm, counterweight, all operating fluids and 165 lb (75 kg) operator.

