



# DX420LC TECHNICAL DATA





## GENERAL SPECIFICATIONS

ITEMS		UNIT	STANDARD
ENGINE	MODEL		Doosan DV11 Diesel, Tier III Certified
	NUMBER OF CYLINDERS		6
	RATED FLYWHEEL POWER (hp PER SAE J1995) GROSS	hp / rpm	293 / 1,800
		kW / rpm	218 / 1,800
	RATED FLYWHEEL POWER (hp PER SAE J1349) NET	hp / rpm	276 / 1800
		kW / rpm	206 / 1800
	MAXIMUM TORQUE (GROSS) (SAE J1995)	ft. lb. / rpm	1,012 / 1,300
		Nm / rpm	1,373 / 1,300
	PISTON DISPLACEMENT	in <sup>3</sup>	669
		cc	10,964
	BORE AND STROKE	in. x in.	5.0 X 5.6
mm x mm		128 X 142	
STARTER	V / kW	24 V, 7.0 kW	
BATTERIES	V / AH	2 X 12 V X 150 AH	
AIR CLEANER		Double element with auto dust evacuation.	
MAIN PUMPS – 2 VARIABLE DISPLACEMENT AXIAL PISTON PUMPS MAX FLOW	US gpm	2 x 83.2	
	L / min.	2 x 315	
PILOT PUMP (GEAR DESIGN)	MAXIMUM FLOW	US gpm	5.8
		L / min.	22
	RELIEF PRESSURE	psi	569
		bar	39
MAXIMUM SYSTEM PRESSURE	BOOM/ARM/BUCKET (NORMAL MODE)	psi	4,551
		bar	314
	BOOM/ARM/BUCKET (POWER MODE)	psi	4,978
		bar	343
	TRAVEL	psi	4,551
		bar	314
SWING	psi	3,840	
	bar	265	
UNDERCARRIAGE	UPPER ROLLERS		2 each track (STD. Shoes)
	LOWER ROLLERS		9 each track
	NUMBER OF SHOES (LINKS PER SIDE)		50 each track (Triple Grouser)
	TOTAL LENGTH OF TRACK	ft. in.	13' 11.3"
mm		4,250	
ENVIRONMENT	SOUND LEVEL (2000/14/EC)	dB(A)	103
	CABIN SOUND LEVEL (ISO 6396)	dB(A)	73
SWING MECHANISM	SWING SPEED	rpm	0 - 9.2
DRIVE SYSTEM	TRAVEL SPEED (FAST/SLOW)	mph	3.3/1.9
		km / hr	5.3/3.1
	DRAWBAR PULL	lb.	71,650
		kg	32,500
	MAXIMUM GRADE	%	70
	°	35	

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ITEMS		UNIT	STANDARD
REFILL CAPACITIES	FUEL TANK	US gal.	145.3
		L	550
	COOLING SYSTEM (RADIATOR CAPACITY)	qt.	42.3
		L	40
	ENGINE OIL	qt.	46.5
		L	44
	SWING DRIVE	qt.	6.3
		L	6
	FINAL DRIVE (EACH SIDE)	qt.	11.6
		L	11
	HYDRAULIC SYSTEM	US gal.	111
		L	420
	HYDRAULIC TANK	US gal.	70
		L	265

## WEIGHT

BOOM	22' (6.7 m)	
ARM	10' 8" (3.25 m)	
BUCKET	SAE 2.49 yd <sup>3</sup> (1.90 m <sup>3</sup> )	
SHOE WIDTH (TRIPLE GROUSER)	OPERATING WEIGHT	GROUND PRESSURE
23.6" (600 mm)	90,169 lb. (40,900 kg)	10.53 psi (0.73 bar)
29.5" (750 mm)	91,712 lb. (41,600 kg)	8.68 psi (0.60 bar)
31.5" (800 mm) STD.	92,374 lb. (41,900 kg)	8.11 psi (0.56 bar)
35.4" (900 mm)	93,476 lb. (42,400 kg)	7.11 psi (0.49 bar)

## HYDRAULIC CYLINDERS

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 extend piston life.

CYLINDERS	QUANTITY	BORE x ROD DIAMETER x STROKE
BOOM	2	6.5" x 4.5" x 4' 9.5" (165 x 115 x 1,460 mm)
ARM	1	7.1" x 4.7" x 5' 11.7" (180 x 120 x 1,820 mm)
BUCKET	1	6.3" x 4.3" x 4' 4" (160 x 110 x 1,320 mm)



## BUCKET

CAPACITY		WIDTH		WEIGHT	RECOMMENDATIONS		
SAE, HEAPED	CECE, HEAPED	WITHOUT SIDE CUTTERS	WITH SIDE CUTTERS		22' (6,700 mm) BOOM SIZE (ONE PIECE BOOM)		
					8' 6" (2,600 mm) ARM	10' 8" STD. (3,250 mm) ARM	13' (3,950 mm) ARM
1.88 yd <sup>3</sup> (1.44 m <sup>3</sup> )	1.69 yd <sup>3</sup> (1.29 m <sup>3</sup> )	46.9" (1,192 mm)	50.1" (1,273 mm)	3,241 lb. (1,470 kg)	A	A	A
2.20 yd <sup>3</sup> (1.68 m <sup>3</sup> )	1.96 yd <sup>3</sup> (1.50 m <sup>3</sup> )	53.1" (1,348 mm)	56.3" (1,429 mm)	3,483 lb. (1,580 kg)	A	A	B
2.49 yd <sup>3</sup> (1.90 m <sup>3</sup> )	2.22 yd <sup>3</sup> (1.70 m <sup>3</sup> )	57.7" (1,466 mm)	60.9" (1,547 mm)	3,770 lb. (1,710 kg)	A	B	B
2.83 yd <sup>3</sup> (2.16 m <sup>3</sup> )	2.51 yd <sup>3</sup> (1.92 m <sup>3</sup> )	65.5" (1,664 mm)	68.7" (1,745 mm)	4,034 lb. (1,830 kg)	B	B	C

- A. Suitable for materials with density of 3,370 lb./yd<sup>3</sup> (2,000 kg•m<sup>3</sup>) or less
- B. Suitable for materials with density of 2,700 lb./yd<sup>3</sup> (1,600 kg•m<sup>3</sup>) or less
- C. Suitable for materials with density of 1,850 lb./yd<sup>3</sup> (1,100 kg•m<sup>3</sup>) or less

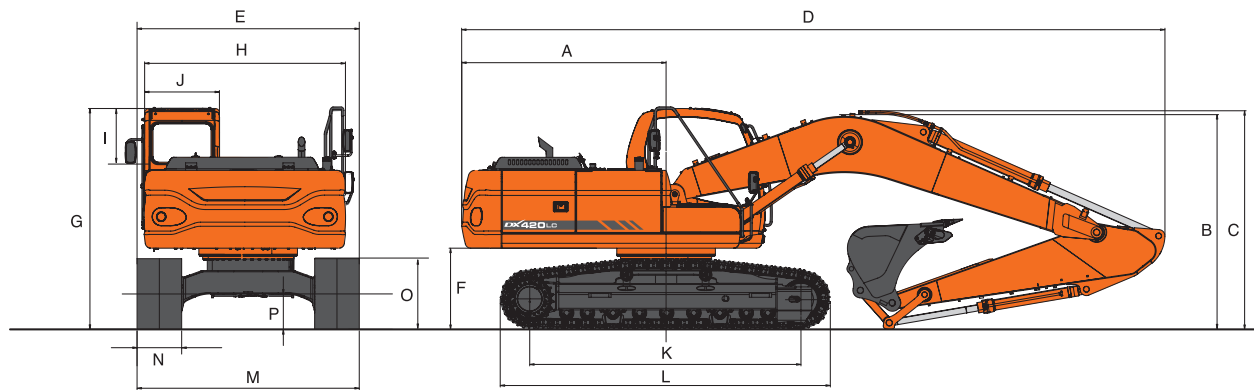
## DIGGING FORCE (ISO)

Bucket (PCSA)	1.88 yd <sup>3</sup> (1.44 m <sup>3</sup> )	2.20 yd <sup>3</sup> (1.68 m <sup>3</sup> )	2.49 yd <sup>3</sup> (1.90 m <sup>3</sup> )	2.83 yd <sup>3</sup> (2.16 m <sup>3</sup> )
Digging Force	54,234 lbf.	54,234 lbf.	54,234 lbf.	54,234 lbf.
	24,600 kgf.	24,600 kgf.	24,600 kgf.	24,600 kgf.
	241 kN	241 kN	241 kN	241 kN

Arm	8' 6" (2,600 mm)	10' 8" STD. (3,250 mm)	13' (3,950 mm)
Digging Force	49,163 lbf.	39,683 lbf.	34,172 lbf.
	22,300 kgf.	18,000 kgf.	15,500 kgf.
	219 kN	177 kN	152 kN

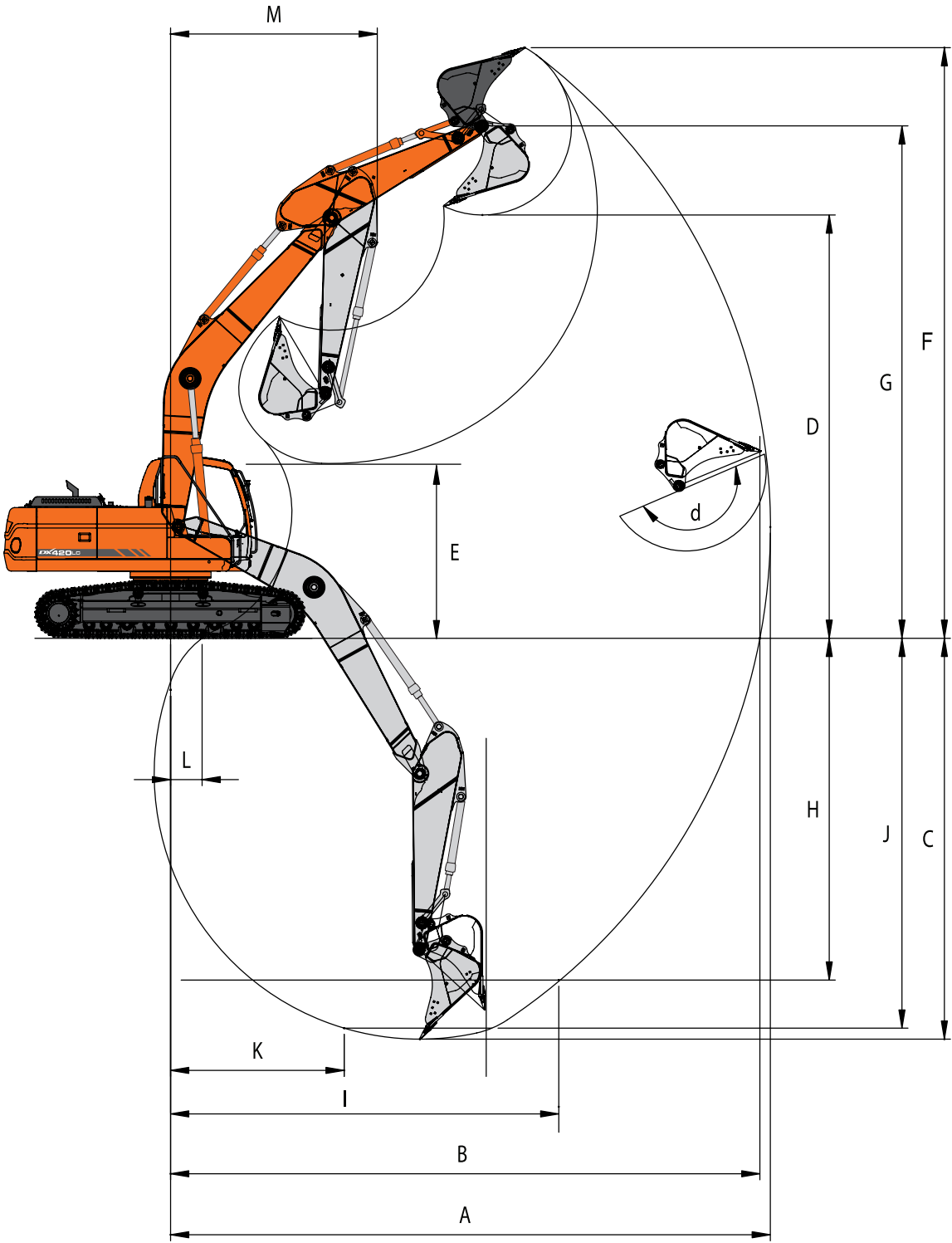
# DX420LC

## DIMENSIONS



BOOM TYPE		(ONE PIECE) 22' STD (6,700 mm)		
ARM TYPE		8' 6" (2,600 mm)	10' 8" STD. (3,250 mm)	13' (3,950 mm)
BUCKET TYPE (SAE)		2.83 yd <sup>3</sup> (2.16 m <sup>3</sup> )	2.49 yd <sup>3</sup> (1.90 m <sup>3</sup> )	1.88 yd <sup>3</sup> (1.44 m <sup>3</sup> )
TAIL SWING RADIUS	A	12' 0" (3,660 mm)	←	←
SHIPPING HEIGHT (BOOM)	B	11' 9" (3,580 mm)	11' (3,350 mm)	11' 1" (3,390 mm)
SHIPPING HEIGHT (HOSE)	C	12' 1" (3,680 mm)	11' 5" (3,480 mm)	11' 6" (3,500 mm)
SHIPPING LENGTH	D	38' 7" (11,770 mm)	38' 3" (11,660 mm)	←
SHIPPING WIDTH	E	11' 8" (3,550 mm)	←	←
C/WEIGHT CLEARANCE	F	4' 2" (1,265 mm)	←	←
HEIGHT OVER CABIN	G	10' 4" (3,154 mm)	←	←
HOUSE WIDTH	H	9' 10" (2,990 mm)	←	←
CABIN HEIGHT ABOVE HOUSE	I	2' 9" (845 mm)	←	←
CABIN WIDTH	J	3' 4" (1,010 mm)	←	←
TUMBLER DISTANCE	K	13' 11" (4,250 mm)	←	←
TRACK LENGTH	L	17' 1" (5,200 mm)	←	←
UNDERCARRIAGE WIDTH	M	11' 8" (3,550 mm)	←	←
SHOE WIDTH	N	31.5" (800 mm)	←	←
TRACK HEIGHT	O	3' 9" (1,140 mm)	←	←
CAR BODY CLEARANCE	P	1' 9" (540 mm)	←	←

# WORKING RANGE



# DX420LC

BOOM TYPE		(ONE PIECE) 22' STD (6,700 mm)		
ARM TYPE		8' 6" (2,600 mm)	10' 8" STD. (3,250 mm)	13' (3,950 mm)
BUCKET TYPE (SAE)		2.83 yd <sup>3</sup> (2.16 m <sup>3</sup> )	2.49 yd <sup>3</sup> (1.90 m <sup>3</sup> )	1.88 yd <sup>3</sup> (1.44 m <sup>3</sup> )
MAX. DIGGING REACH	A	35' 8" (10,880 mm)	37' 9" (11,495 mm)	39' 11" (12,170 mm)
MAX. DIGGING REACH (GROUND)	B	35' (10,660 mm)	37' 1" (11,290 mm)	39' 4" (11,980 mm)
MAX. DIGGING DEPTH	C	23' 3" (7,080 mm)	25' 4" (7,730 mm)	27' 8" (8,430 mm)
MAX. LOADING HEIGHT	D	24' 6" (7,460 mm)	25' 7" (7,795 mm)	26' 11" (8,200 mm)
MIN. LOADING HEIGHT	E	12' 2" (3,700 mm)	10' 0" (3,050 mm)	7' 8" (2,340 mm)
MAX. DIGGING HEIGHT	F	34' 8" (10,560 mm)	35' 10" (10,920 mm)	37' 3" (11,350 mm)
MAX. BUCKET PIN HEIGHT	G	30' 2" (9,190 mm)	31' 3" (9,520 mm)	32' 7" (9,930 mm)
MAX. VERTICAL WALL DEPTH	H	12' (3,650 mm)	14' 3" (4,350 mm)	16' 10" (5,140 mm)
MAX. RADIUS VERTICAL	I	30' 1" (9,170 mm)	31' (9,440 mm)	31' 10" (9,700 mm)
MAX. DEPTH TO 8' LINE	J	22' 7" (6,880 mm)	24' 10" (7,570 mm)	27' 2" (8,290 mm)
MIN. RADIUS 8' LINE	K	11' 4" (3,460 mm)	11' 5" (3,490 mm)	11' 7" (3,530 mm)
MIN. DIGGING REACH	L	7' 10" (2,390 mm)	2' 8" (820 mm)	-8" (-200 mm)
MIN. SWING RADIUS	M	14' 4" (4,380 mm)	14' 4" (4,380 mm)	14' 7" (4,440 mm)
BUCKET ANGLE (deg)	d	183	183	183



## STANDARD EQUIPMENT

### ENGINE:

DOOSAN DV11; Turbo Charged Air to Air Intercooler  
Electronically Controlled Common Rail Direct Injected  
669 cu. in., 6 Cylinder  
293 SAE Net Flywheel Horsepower @ 1,800 rpm  
Auto Idle System  
Equipped with the Fuel Pre-filter with Water Separator  
& Built-in Priming Pump  
Radiator Reserve Tank  
Large Capacity Double Element Air Cleaner with  
Evacuator and Pre-cleaner  
Electronic Engine Speed Control  
Engine Overheat and Low Oil Pressure Prevention System

### HYDRAULIC SYSTEM:

Pilot Operated Control Valves, (9) Spools  
Main Pump:  
– Bent Axis Axial Piston Type Pressure Setting 4,978 psi  
Pilot Circuit: Gear Type Pump  
Swing Motor:  
– Axial Piston Type  
Swing Speed Control up to 9.2 rpm  
Spring Set, Hydraulic-released Brakes  
Travel Motor:  
– Axial Piston Type, Automatic 2-Speed Control  
Travel Speed (High/Low):  
– 3.3 mph / 1.9 mph  
In-Shoe Design, Oil Disc Parking Brake  
Cross Sensing Pump Control for Fuel Saving  
Two Operating Modes, Two Power Modes  
Button Control of Flow in Auxiliary Equipment Circuits  
Computer-aided Pump Power Control  
e-EPOS (Electronic Power Optimizing System) Controller  
Hydraulically Driven Fan, Reversible from Inside the Cab

### CAB:

ROPS Approved  
Steel, All Weather Sound Suppressed Type  
Fully Automatically Controlled Air Conditioner with Heat  
Multi-function Color LCD Monitor Panel

Cigarette Lighter with Ashtray  
Door Locks  
Front Windshield Wiper with Washer  
Radio:  
– AM/FM Stereo with Cassette  
– Remote Radio On/Off Switch, Control Volume,  
Channel Selection  
Switches:  
– Auxiliary Mode Switch  
– Engine Emergency Stop Switch  
– Work Light Switch  
– Travel Speed Selector Switch  
– Breaker, Power-up, Shear Switch  
Glass Antenna  
Safety Glass, Tinted  
Safety Lock Lever  
Seat:  
– Suspension with Seat Belt (2" wide)  
– Reclining, Height Adjustable  
– Adjustable Arm Rests  
– Sliding Control Console  
– Weight Adjustment Knob  
Skylight  
Pull-Up Type Front Window  
Removable Lower Front Window  
Sliding Side Windows  
Front Window Air Defroster  
Travel Pedals with Hand Levers  
Emergency Breakout Tool  
Lunch Box with Hot & Cool Air  
12V Power Socket  
Joystick Lever with 3 Switches  
Cup Holder  
Room Light  
Serial Communication Port for Laptop PC  
Interface (DMS, E-doctor)  
Viscous Cab Mounts



## **ELECTRICAL:**

Alternator:

- 50 Amp

Batteries:

- (2) 12 Volt, 150 Amp hrs 950 CCA ea.

Starter:

- 24 Volt, 7.0 kW

Lights:

- Halogen Working Light (2) Machine (2) Boom

Electric Horn

Hour Meter

Alarm Buzzer for:

- Engine Oil Pressure
- Coolant Temperature

Electronic Monitor for:

- Engine Coolant Temperature Gauge
- Fuel Gauge
- Hydraulic Oil Temperature Gauge

Multi-function Display for:

- Engine rpm
- Battery Voltage
- Front and Rear Hydraulic Pump Pressure
- Hydraulic Oil Overheating Warning
- Fuel Shortage Warning
- Air Cleaner Clogging Warning
- Pilot Filter Clogging Warning
- Return Filter Clogging Warning
- Digital Clock
- Engine Check Warning Light
- Engine Oil Pressure Warning Light
- Charge Warning Light
- Preheat Indicator Light
- Coolant Temperature Warning Light
- Work Light Indicator Light

Operation Modes for:

- Power Mode Select Button
- Flow Rate Control
- Auto Idle Select Button
- 4 Display Selection Buttons
- Trenching Mode Select Button

## **UNDERCARRIAGE:**

Track Guards and Chains with Adjusters

Track Rollers:

- (2) Upper, (9) Lower Each Side

Triple Grouser Shoes:

- 50 Each Side; 800 mm Width

## **OTHER STANDARD EQUIPMENT:**

Joystick Pattern Change Valve

Counterweight:

- 17,640 lb. (8,000 kg)

Sealed Pins, Boom, Arm and Bucket Linkages

Swing Mechanism, Internal Gear and Pinion

Integrated Track Spring and Idler

Centralized Lube Points

Large Handrail

Punched Metal Anti-slip Plates

Ultra-hard Wear-resistant Disc at the Bucket Pivot

Engine Restart Prevention System

Self-Diagnostic System

Manuals, Parts and Operator's

GPS with 1 Year Subscription



## OPTIONAL EQUIPMENT

### HYDRAULIC KITS - FACTORY INSTALLED

- Boom Arm Lock Valve with Piping
- Double Acting Thumb Kit
- Single Acting Breaker Kit
- Double Acting Rotating Kit
- Auxiliary Hydraulic Kit Quick Clamp Piping
- Overload Warning (Boom Arm Lock Valve Required)

### ADDITIONAL OPTIONS - FACTORY INSTALLED

- CD Player
- Work Lights (2 Front Mounted on Cab)
- Work Lights (4 Front 2 Rear Mounted on Cab)
- Rotating Beacon (Mounted on Cab)
- 24V, 80A Alternator
- Swing Alarm
- Electric Fuel Supply Pump
- Rain Shield
- Falling Objects Guard Assembly Kit
- Lock Valve

### GEITH BUCKETS - DEALER INSTALLED

- 1.20 yd<sup>3</sup> 30" width Bucket
- 1.52 yd<sup>3</sup> 36" width Bucket
- 1.84 yd<sup>3</sup> 42" width Bucket
- 2.17 yd<sup>3</sup> 48" width Bucket
- 2.51 yd<sup>3</sup> 54" width Bucket
- 2.85 yd<sup>3</sup> 60" width Bucket
- 2.10 yd<sup>3</sup> 84" width Ditching Bucket
- 2.40 yd<sup>3</sup> 96" width Ditching Bucket

### GEITH COUPLERS - DEALER INSTALLED

- Hydraulic Quick Coupler

### HYDRAULIC KITS - DEALER INSTALLED

- Breaker Kit (B) Single Acting HKX
- Thumb Kit (T) Double Acting HKX Piping Ends at Boom Tip
- Breaker/Thumb Kit (BT) Single & Double Acting HKX

### ADDITIONAL OPTIONS - DEALER INSTALLED

- 3" Seat Belt
- Vandalism Covers

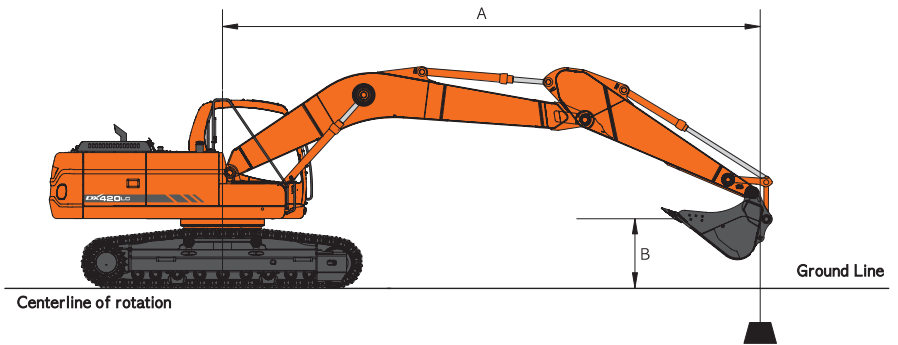
## NOTES

A large grid of graph paper for taking notes, consisting of 20 columns and 30 rows of small squares.



# LIFTING CAPACITY

**Boom: 22' (6,700 mm)**  
**Arm: 10'8" (3,250 mm)**  
**Bucket: 2.49 yd<sup>3</sup> (1.9 m<sup>3</sup>)**  
**Shoe: 31.5" (800 mm)**  
**Counterweight: 8.82 ton (8.0 metric ton)**



Feet Unit: 1,000 lb.

B (ft.) \ A (ft.)	5		10		15		20		25		30		MAX. REACH		A (ft)
25									16.13*	16.13*			14.34*	14.34*	26.56
20									16.77*	16.77*			14.29*	12.88	29.39
15							21.37*	21.37*	18.35*	16.84	16.64*	11.99	14.80*	11.12	31.14
10					35.04*	35.04*	25.22*	22.87	20.37*	15.86	17.60*	11.49	15.88*	10.14	32.02
5					41.04*	32.97	28.60*	21.24	22.27*	14.94	18.54*	10.98	16.64	9.73	32.09
0 (GROUND)			28.66*	28.66*	43.20*	31.54	30.59*	20.17	23.51*	14.27	18.22	10.61	16.97	9.85	31.36
-5	33.07*	33.07*	41.32*	41.32*	42.36*	31.18	30.83*	19.68	23.67*	13.92			18.29	10.6	29.76
-10	44.58*	44.58*	54.96*	54.96*	39.14*	31.44	29.12*	19.7	22.20*	13.95			19.64*	12.33	27.15
-15			45.10*	45.10*	33.09*	32.27	24.75*	20.24					20.22*	16.23	23.15
-20					22.09*	22.09*							19.41*	19.41*	16.82

Metric Unit: 1,000 kg

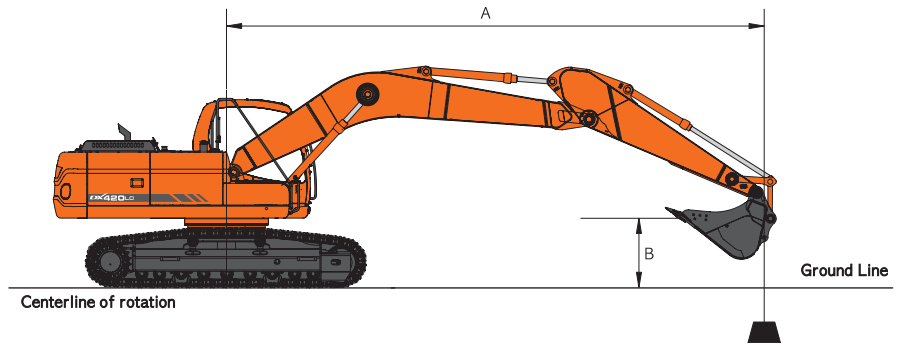
B (m) \ A (m)	2		3		4		5		6		7		8		9		MAX. REACH		A (m)
8																	6.56*	6.56*	7.82
7											7.47*	7.47*	7.33*	7.33*			6.46*	6.46*	8.49
6											7.88*	7.88*	7.52*	7.29	6.51*	5.78	6.49*	5.78	9.00
5								9.33*	9.33*	8.49*	8.49*	7.89*	7.1	7.50*	5.67	6.62*	5.22	9.37	
4			23.02*	23.02*	15.78*	15.78*	12.43*	12.43*	10.48*	10.48*	9.23*	8.65	8.37*	6.86	7.77*	5.52	6.87*	4.84	9.62
3					19.11*	19.11*	14.34*	14.16	11.68*	10.61	10.02*	8.27	8.89*	6.61	8.09*	5.36	7.23*	4.59	9.76
2					21.32*	18.83	15.97*	13.34	12.78*	10.09	10.76*	7.92	9.39*	6.36	8.41*	5.19	7.57	4.45	9.80
1					19.17*	18.14	17.08*	12.77	13.63*	9.67	11.37*	7.62	9.81*	6.15	8.60	5.05	7.56	4.41	9.73
0 (GROUND)			12.73*	12.73*	20.53*	17.85	17.61*	12.42	14.14*	9.37	11.77*	7.39	10.08*	5.99	8.48	4.94	7.70	4.47	9.56
-1	13.51*	13.51*	16.49*	16.49*	22.40*	17.77	17.64*	12.25	14.30*	9.2	11.93*	7.25	10.12*	5.88	8.41	4.88	8.03	4.65	9.27
-2	17.19*	17.19*	20.43*	20.43*	21.49*	17.82	17.21*	12.21	14.10*	9.13	11.78*	7.18	9.99*	5.84			8.61	4.99	8.86
-3	21.00*	21.00*	24.85*	24.85*	20.12*	17.98	16.33*	12.28	13.48*	9.16	11.27*	7.20	9.43*	5.88			8.90*	5.56	8.31
-4	25.24*	25.24*	22.62*	22.62*	18.20*	18.20*	14.93*	12.45	12.37*	9.29	10.25*	7.32					9.10*	6.50	7.58
-5	24.19*	24.19*	18.99*	18.99*	15.52*	15.52*	12.83*	12.75	10.53*	9.54							9.19*	8.24	6.61
-6					11.68*	11.68*	9.53*	9.53*									8.88*	8.88*	5.29

- LOAD POINT IS THE END OF THE ARM.
- CAPACITIES MARKED WITH AN ASTERISK (\*) ARE LIMITED BY HYDRAULIC CAPACITIES.
- LIFT CAPACITIES SHOWN DO NOT EXCEED 75% OF MINIMUM TIPPING LOADS OR 87% OF HYDRAULIC CAPACITIES.

: Rating Over Front  
 : Rating Over Side or 360 degree

# DX420LC

**Boom: 22' (6,700 mm)**  
**Arm: 8'6" (2,600 mm)**  
**Bucket: 2.83 yd<sup>3</sup> (2.16 m<sup>3</sup>)**  
**Shoe: 31.5" (800 mm)**  
**Counterweight: 8.82 ton (8.0 metric ton)**



Feet Unit: 1,000 lb.

B (ft.) \ A (ft.)	10		15		20		25		MAX. REACH		A (ft)
25									18.59*	18.59*	23.22
20					20.67*	20.67*	18.38*	17.2	18.37*	15.5	26.41
15			31.14*	31.14*	23.68*	23.68*	19.99*	16.44	18.56*	13.08	28.36
10			38.74*	34.22	27.16*	22.15	21.71*	15.53	19.00*	11.81	29.32
5			42.88*	31.89	29.89*	20.73	23.21*	14.72	19.19	11.31	29.40
0 (GROUND)			42.92*	31.22	31.03*	19.93	23.92*	14.19	19.71	11.53	28.60
-5	47.64*	47.64*	40.61*	31.28	30.32*	19.71	23.34*	14.03	21.25*	12.63	26.83
-10	47.22*	47.22*	36.14*	31.85	27.49*	19.98			22.05*	15.3	23.89
-15	36.25*	36.25*	28.39*	28.39*					22.18*	22.18	19.24

Metric Unit: 1,000 kg

B (m) \ A (m)	2		3		4		5		6		7		8		MAX. REACH		A (m)
8															8.50*	8.50*	6.79
7											8.48*	8.48*			8.36*	8.1	7.53
6								9.53*	9.53*	8.81*	8.81*	8.36*	7.10	8.33*	6.94	8.10	
5			21.18*	21.18*	15.01*	15.01*	12.13*	12.13*	10.44*	10.44*	9.35*	8.77	8.63*	6.93	8.38*	6.17	8.51
4					18.47*	18.47*	13.93*	13.93*	11.51*	10.82	10.01*	8.42	9.02*	6.71	8.48*	5.67	8.79
3							15.67*	13.54	12.59*	10.27	10.70*	8.07	9.45*	6.48	8.63*	5.34	8.94
2							16.95*	12.86	13.49*	9.81	11.31*	7.75	9.84*	6.27	8.73	5.17	8.98
1					15.63*	15.63*	17.60*	12.46	14.09**	9.47	11.76*	7.50	10.13*	6.09	8.73	5.13	8.91
0 (GROUND)					20.36*	17.80	17.67*	12.26	14.34*	9.26	11.98*	7.33	10.22	5.97	8.94	5.23	8.72
-1			18.10*	18.10*	21.20*	17.86	17.29*	12.21	14.21*	9.17	11.91*	7.24	10.13*	5.92	9.43	5.5	8.40
-2	21.09*	21.09*	23.62*	23.62*	19.96*	18.00	16.50*	12.27	13.7*	9.18	11.50*	7.25			9.76*	6.01	7.94
-3	25.19*	25.19*	21.71*	21.71*	18.26*	18.24	15.25*	12.43	12.75*	9.28	10.63*	7.34			9.99*	6.88	7.32
-4			18.77*	18.77*	15.92*	15.92*	13.40*	12.70	11.15*	9.51					10.11*	8.47	6.48
-5			14.59*	14.59*	12.60*	12.60*	10.56*	10.56*							9.89*	9.89*	5.32

- LOAD POINT IS THE END OF THE ARM.
- CAPACITIES MARKED WITH AN ASTERISK (\*) ARE LIMITED BY HYDRAULIC CAPACITIES.
- LIFT CAPACITIES SHOWN DO NOT EXCEED 75% OF MINIMUM TIPPING LOADS OR 87% OF HYDRAULIC CAPACITIES.

: Rating Over Front  
 : Rating Over Side or 360 degree



# LIFTING CAPACITY

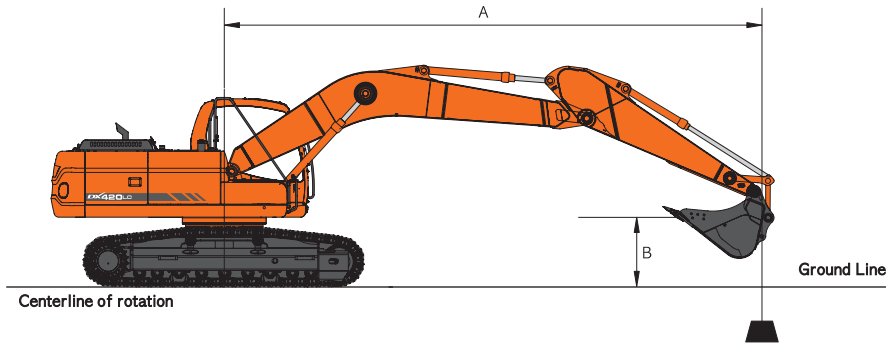
**Boom: 22' (6,700 mm)**

**Arm: 13' (3,950 mm)**

**Bucket: 1.88 yd<sup>3</sup> (1.44 m<sup>3</sup>)**

**Shoe: 35.43" (900 mm)**

**Counterweight: 8.82 ton (8.0 metric ton)**



**Metric**















B (m) \ A (m)	1		2		3		4		5		6		7	
9														
8														
7														
6														
5													7.76*	7.76*
4											9.55*	9.55*	8.55*	8.55*
3					20.85*	20.85*	16.87*	16.87*	13.05*	13.05*	10.84*	10.84*	9.42*	8.70
2					11.71*	11.71*	19.89*	19.89*	14.93*	14.08	12.08*	10.6	10.27*	8.31
1					11.44*	11.44*	21.86*	18.96	16.40*	13.36	13.13*	10.11	11.01*	7.96
0 (GROUND)			9.46*	9.46*	13.14*	13.14*	21.25*	18.38	17.33*	12.87	13.88*	9.73	11.57*	7.68
-1	11.56*	11.56*	12.29*	12.29*	15.55*	15.55*	22.56*	18.11	17.73*	12.58	14.29*	9.48	11.91*	7.49
-2	13.91*	13.91*	15.12*	15.12*	18.42*	18.42*	22.45*	18.03	17.65*	12.44	14.35*	9.34	11.98*	7.37
-3	16.47*	16.47*	18.12*	18.12*	21.75*	21.75*	21.47*	18.09	17.12*	12.42	14.03*	9.30	11.73*	7.33
-4	19.28*	19.28*	21.45*	21.45*	25.65*	25.65*	19.96*	18.28	16.10*	12.52	13.28*	9.36	11.08*	7.37
-5			25.28*	25.28*	22.52*	22.52*	17.81*	17.81*	14.50*	12.72	11.97*	9.51	9.86*	7.52
-6			24.12*	24.12*	18.33*	18.33*	14.75*	14.75*	12.07*	12.07*	9.80*	9.80*		
-7							10.26*	10.26*						

- LOAD POINT IS THE END OF THE ARM.
- CAPACITIES MARKED WITH AN ASTERISK (\*) ARE LIMITED BY HYDRAULIC CAPACITIES.
- LIFT CAPACITIES SHOWN DO NOT EXCEED 75% OF MINIMUM TIPPING LOADS OR 87% OF HYDRAULIC CAPACITIES.









# DX420LC



Feet

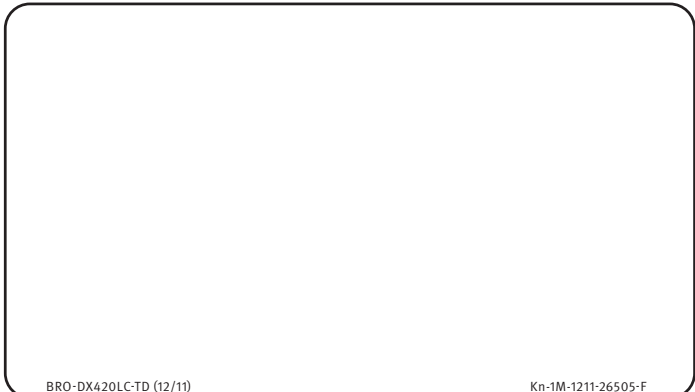
Unit: 1,000 lb.

B (ft.) \ A (ft.)	5		10		15		20		25		30		MAX. REACH		A (ft)	
																
30														11.49*	11.49*	25.50
25														10.84*	10.84*	29.29
20									15.29*	15.29*	14.84*	13.15	10.71*	10.71*	31.87	
15									17.03*	17.03*	15.64*	12.70	10.98*	10.17	33.50	
10			52.06*	52.06*	31.49*	31.49*	23.40*	23.40*	19.26*	16.68	16.83*	12.11	11.61*	9.36	34.31	
5			25.58*	25.58*	38.76*	34.71	27.30*	22.27	21.48*	15.65	18.05*	11.52	12.70*	8.99	34.38	
0 (GROUND)	19.71*	19.71*	29.55*	29.55*	42.65*	32.63	30.03*	20.95	23.16*	14.84	18.75	10.75	14.44*	9.05	33.69	
-5	28.74*	28.74*	37.97*	37.97*	43.29*	31.79	31.09*	20.21	23.89*	14.33	18.44		16.51	9.59	32.22	
-10	38.10*	38.10*	48.86*	48.86*	41.33*	31.74	30.32*	20.01	23.27*	14.18			18.15*	10.85	29.82	
-15	48.83*	48.83*	52.17*	52.17*	36.71*	32.27	27.30*	20.29	20.49*	14.45			18.88*	13.46	26.25	
-20			38.93*	38.93*	29.29*	28.29*	20.52*	20.52*					19.12*	19.12*	20.94	

Unit: 1,000 kg

8		9		10		MAX. REACH		A (m)
								
						5.17*	5.17*	7.90
6.57*	6.57*					4.96*	4.96*	8.68
6.63*	6.63*	5.94*	5.94*			4.87*	4.87*	9.29
6.90*	6.90*	6.76*	6.15			4.86*	4.86*	9.75
7.32*	7.32*	7.00*	6.01	5.40*	4.86	4.93*	4.76	10.10
7.85*	7.22	7.35*	5.83	6.68*	4.76	5.07*	4.45	10.33
8.44*	6.95	7.74*	5.65	7.22*	4.63	5.28*	4.24	10.46
9.02*	6.68	8.13*	5.46	7.46*	4.51	5.58*	4.11	10.50
9.55*	6.43	8.48*	5.28	7.46	4.39	6.00*	4.07	10.43
9.95*	6.23	8.73	5.14	7.36	4.30	6.55*	4.11	10.27
10.19*	6.08	8.61	5.04	7.30	4.24	7.29	4.24	10.00
10.20*	5.99	8.55	4.98			7.72	4.49	9.62
9.94*	5.97	8.40*	4.99			8.22*	4.89	9.12
9.26*	6.02					8.45*	5.55	8.46
						8.63*	6.65	7.61
						8.68*	8.68*	6.51
						8.24*	8.24*	4.94

 : Rating Over Front  
 : Rating Over Side or 360 degree



BRO-DX420LC-TD (12/11)

Kn-1M-1211-26505-F

For more information visit [www.doosanequipment.com](http://www.doosanequipment.com)



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