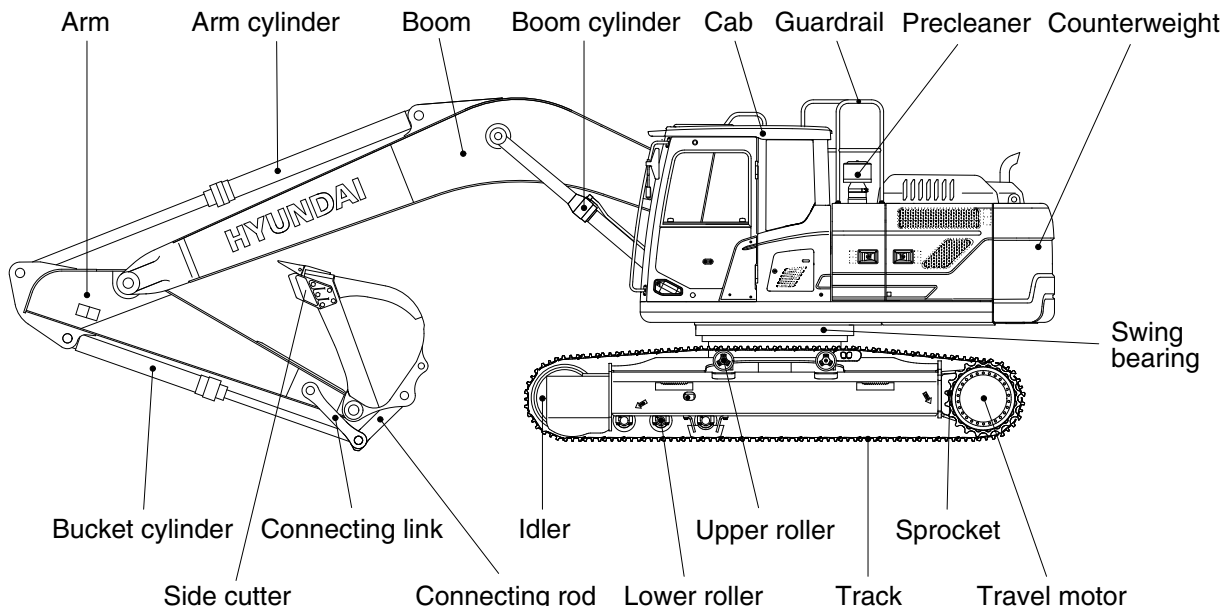
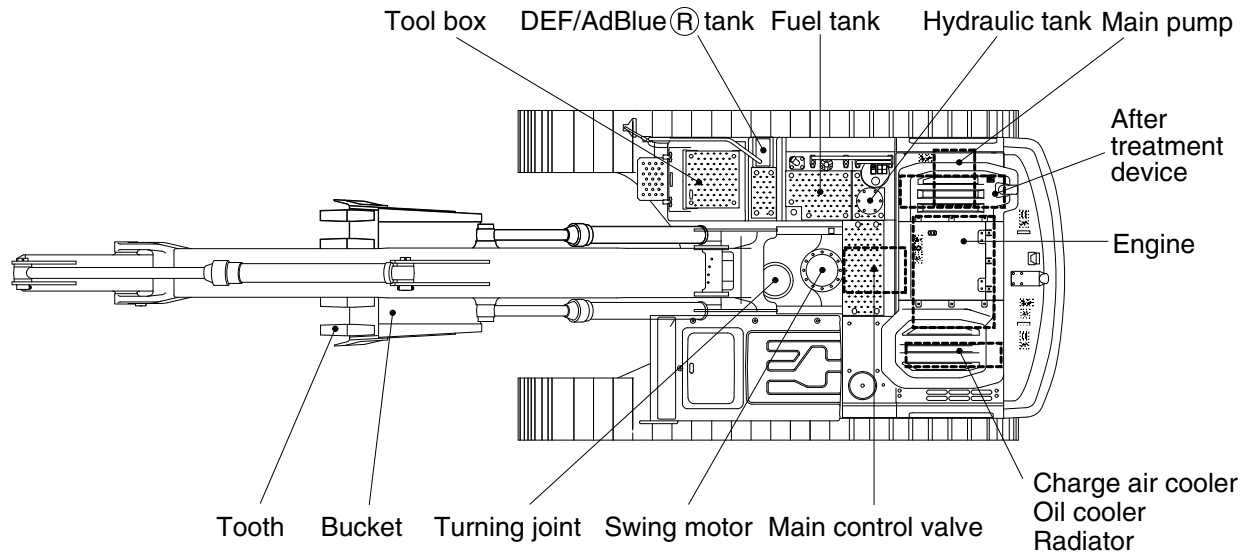


SPECIFICATIONS

(Machine Serial No. -#1079)

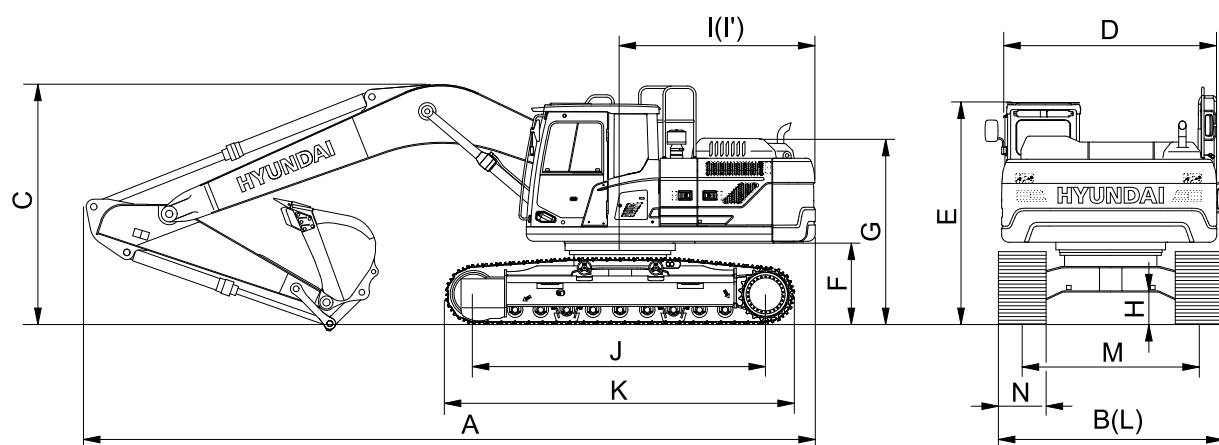
1. MAJOR COMPONENT



220A2SP01B

2. SPECIFICATIONS

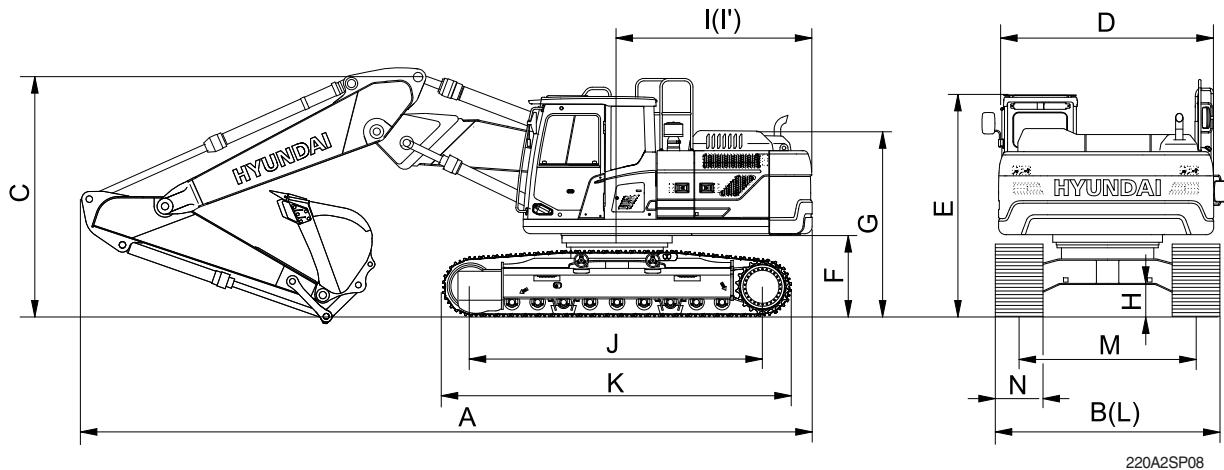
1) HX220A L, MONO BOOM



220A2SP02

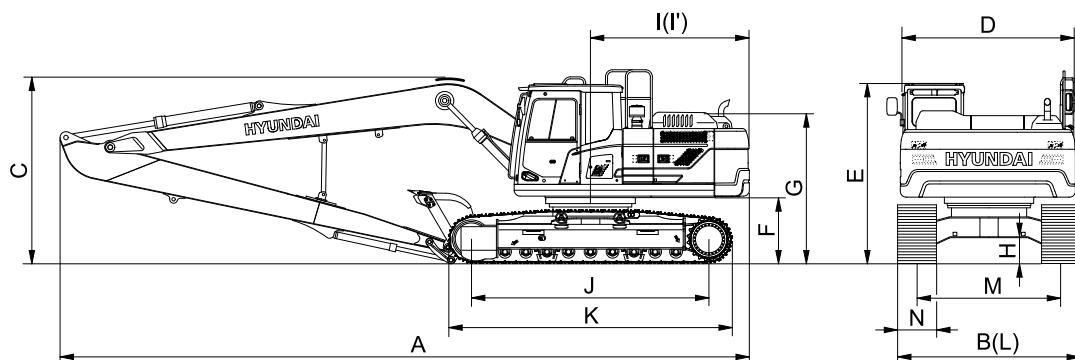
Description	Unit		Specification			
	m (ft-in)	Boom	5.68 (18' 8")			
		Arm	2.92 (9' 7")	2.00 (6' 7")	2.40 (7' 10")	3.90 (12' 10")
	mm (in)	Shoe	600 (24)			
Operating weight	kg (lb)		22280 (49120)	22130 (48790)	22190 (48920)	22510 (49630)
Bucket capacity (SAE heaped), standard	m ³ (yd ³)		0.92 (1.2)	0.92 (1.2)	0.92 (1.2)	0.92 (1.2)
Overall length	A	mm (ft-in)	9530 (31' 3")	9650 (31' 8")	9570 (31' 5")	9520 (31' 3")
Overall width	B		2990 (9' 10")	2990 (9' 10")	2990 (9' 10")	2990 (9' 10")
Overall height of boom	C		3030 (9' 11")	3200 (10' 6")	3110 (10' 2")	3480 (11' 5")
Superstructure width	D		2740 (9' 0")	2740 (9' 0")	2740 (9' 0")	2740 (9' 0")
Overall height of cab	E		3000 (9' 10")	3000 (9' 10")	3000 (9' 10")	3000 (9' 10")
Ground clearance of counterweight	F		1060 (3' 6")	1060 (3' 6")	1060 (3' 6")	1060 (3' 6")
Overall height of engine hood	G		2520 (8' 3")	2520 (8' 3")	2520 (8' 3")	2520 (8' 3")
Overall height of guardrail	G'		3210 (10' 6")	3210 (10' 6")	3210 (10' 6")	3210 (10' 6")
Minimum ground clearance	H		470 (1' 7")	470 (1' 7")	470 (1' 7")	470 (1' 7")
Rear-end distance	I		2770 (9' 1")	2770 (9' 1")	2770 (9' 1")	2770 (9' 1")
Rear-end swing radius	I'		2890 (9' 6")	2890 (9' 6")	2890 (9' 6")	2890 (9' 6")
Distance between tumblers	J		3650 (12' 0")	3650 (12' 0")	3650 (12' 0")	3650 (12' 0")
Undercarriage length	K		4404 (14' 5")	4404 (14' 5")	4404 (14' 5")	4404 (14' 5")
Undercarriage width	L		2990 (9' 10")	2990 (9' 10")	2990 (9' 10")	2990 (9' 10")
Track gauge	M		2390 (7' 10")	2390 (7' 10")	2390 (7' 10")	2390 (7' 10")
Track shoe width, standard	N		600 (24")	600 (24")	600 (24")	600 (24")
Travel speed (low/high)	km/hr (mph)		3.5/5.4 (2.2/3.4)	3.5/5.4 (2.2/3.4)	3.5/5.4 (2.2/3.4)	3.5/5.4 (2.2/3.4)
Swing speed	rpm		11.4	11.4	11.4	11.4
Gradeability	Degree (%)		35 (70)	35 (70)	35 (70)	35 (70)
Ground pressure	kgf/cm ² (psi)		0.48 (6.76)	0.47 (6.72)	0.47 (6.74)	0.48 (6.83)
Max traction force	kg (lb)		20830 (45922)	20830 (45922)	20830 (45922)	20830 (45922)

2) HX220A L, 2-PIECE BOOM



Description		Unit		Specification
		m (ft-in)	Boom	5.65 (18' 7")
			Arm	2.92 (9' 7")
		mm (in)	Shoe	600 (24)
Operating weight		kg (lb)		22990 (50680)
Bucket capacity (SAE heaped), standard		m ³ (yd ³)		0.92 (1.2)
Overall length	A	mm (ft-in)		9530 (31' 3")
Overall width	B			2990 (9' 10")
Overall height of boom	C			3030 (9' 11")
Superstructure width	D			2740 (9' 0")
Overall height of cab	E			3000 (9' 10")
Ground clearance of counterweight	F			1060 (3' 6")
Overall height of engine hood	G			2520 (8' 3")
Overall height of guardrail	G'			3210 (10' 6")
Minimum ground clearance	H			470 (1' 7")
Rear-end distance	I			2770 (9' 1")
Rear-end swing radius	I'			2890 (9' 6")
Distance between tumblers	J			3650 (12' 0")
Undercarriage length	K			4404 (14' 5")
Undercarriage width	L			2990 (9' 10")
Track gauge	M			2390 (7' 10")
Track shoe width, standard	N			600 (24")
Travel speed (low/high)		km/hr (mph)		3.5/5.4 (2.2/3.4)
Swing speed		rpm		11.2
Gradeability		Degree (%)		35 (70)
Ground pressure		kgf/cm ² (psi)		0.49 (6.98)
Max traction force		kg (lb)		20830 (45922)

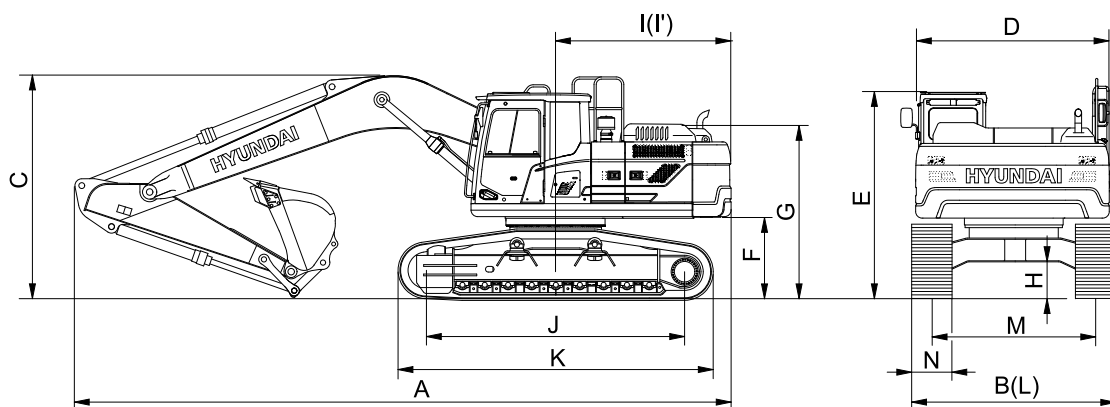
3) HX220A LR



220A2SP03

Description		Unit		Specification
		m (ft-in)	Boom	8.2 (26' 11")
			Arm	6.30 (20' 8")
		mm (in)	Shoe	800 (32)
Operating weight		kg (lb)		25420 (56040)
Bucket capacity (SAE heaped), standard		m ³ (yd ³)		0.92 (1.2)
Overall length	A	mm (ft-in)		12030 (39' 6")
Overall width	B			3190 (10' 6")
Overall height of boom	C			3280 (10' 9")
Superstructure width	D			2740 (9' 0")
Overall height of cab	E			3000 (9' 10")
Ground clearance of counterweight	F			1060 (3' 6")
Overall height of engine hood	G			2520 (8' 3")
Overall height of guardrail	G'			3210 (10' 6")
Minimum ground clearance	H			470 (1' 7")
Rear-end distance	I			2770 (9' 1")
Rear-end swing radius	I'			2890 (9' 6")
Distance between tumblers	J			3650 (12' 0")
Undercarriage length	K			4404 (14' 5")
Undercarriage width	L			3190 (10' 6")
Track gauge	M			2390 (7' 10")
Track shoe width, standard	N			800 (32")
Travel speed (low/high)		km/hr (mph)		3.5/5.4 (2.2/3.4)
Swing speed		rpm		11.4
Gradeability		Degree (%)		35 (70)
Ground pressure		kgf/cm ² (psi)		0.41 (5.79)
Max traction force		kg (lb)		20830 (45922)

4) HX220A HW, MONO BOOM

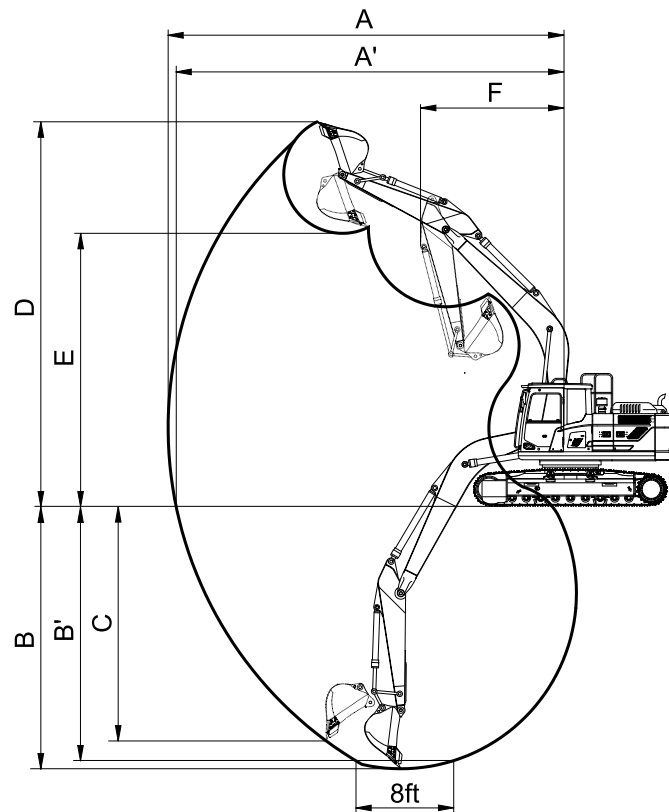


220A2SP04

Description		Unit		Specification			
		m (ft-in)	Boom	5.68 (20' 6")			
			Arm	2.92 (9' 7")	2.00 (6' 7")	2.40 (7' 10")	3.90 (12' 10")
		mm (in)	Shoe	600 (24)			
Operating weight		kg (lb)		24410 (53820)	24250 (53460)	24320 (53610)	24640 (54320)
Bucket capacity (SAE heaped), standard		m ³ (yd ³)		0.92 (1.2)	0.92 (1.2)	0.92 (1.2)	0.92 (1.2)
Overall length	A	mm (ft-in)		9470 (31' 1")	9650 (31' 8")	9550 (31' 4")	9560 (31' 4")
Overall width	B			3395 (11' 2")	3395 (11' 2")	3395 (11' 2")	3395 (11' 2")
Overall height of boom	C			3060 (10' 0")	3290 (10' 10")	3170 (10' 5")	3450 (11' 4")
Superstructure width	D			2740 (9' 0")	2740 (9' 0")	2740 (9' 0")	2740 (9' 0")
Overall height of cab	E			3200 (10' 6")	3200 (10' 6")	3200 (10' 6")	3200 (10' 6")
Ground clearance of counterweight	F			1260 (4' 2")	1260 (4' 2")	1260 (4' 2")	1260 (4' 2")
Overall height of engine hood	G			2720 (8' 11")	2720 (8' 11")	2720 (8' 11")	2720 (8' 11")
Overall height of guardrail	G'			3410 (11' 2")	3410 (11' 2")	3410 (11' 2")	3410 (11' 2")
Minimum ground clearance	H			660 (2' 2")	660 (2' 2")	660 (2' 2")	660 (2' 2")
Rear-end distance	I			2770 (9' 1")	2770 (9' 1")	2770 (9' 1")	2770 (9' 1")
Rear-end swing radius	I'			2890 (9' 6")	2890 (9' 6")	2890 (9' 6")	2890 (9' 6")
Distance between tumblers	J			3650 (12' 0")	3650 (12' 0")	3650 (12' 0")	3650 (12' 0")
Undercarriage length	K			4404 (14' 5")	4404 (14' 5")	4404 (14' 5")	4404 (14' 5")
Undercarriage width	L			3395 (11' 2")	3395 (11' 2")	3395 (11' 2")	3395 (11' 2")
Track gauge	M			2795 (9' 2")	2795 (9' 2")	2795 (9' 2")	2795 (9' 2")
Track shoe width, standard	N			600 (24")	600 (24")	600 (24")	600 (24")
Travel speed (low/high)		km/hr (mph)		2.9 (5.1)	2.9 (5.1)	2.9 (5.1)	2.9 (5.1)
Swing speed		rpm		11.4	11.4	11.4	11.4
Gradeability		Degree (%)		35 (70)	35 (70)	35 (70)	35 (70)
Ground pressure		kgf/cm ² (psi)		0.50 (7.15)	0.50 (7.11)	0.50 (7.13)	0.51 (7.22)
Max traction force		kg (lb)		22190 (48921)	22190 (48921)	22190 (48921)	22190 (48921)

3. WORKING RANGE AND DIGGING FORCE

1) HX220A L, MONO BOOM

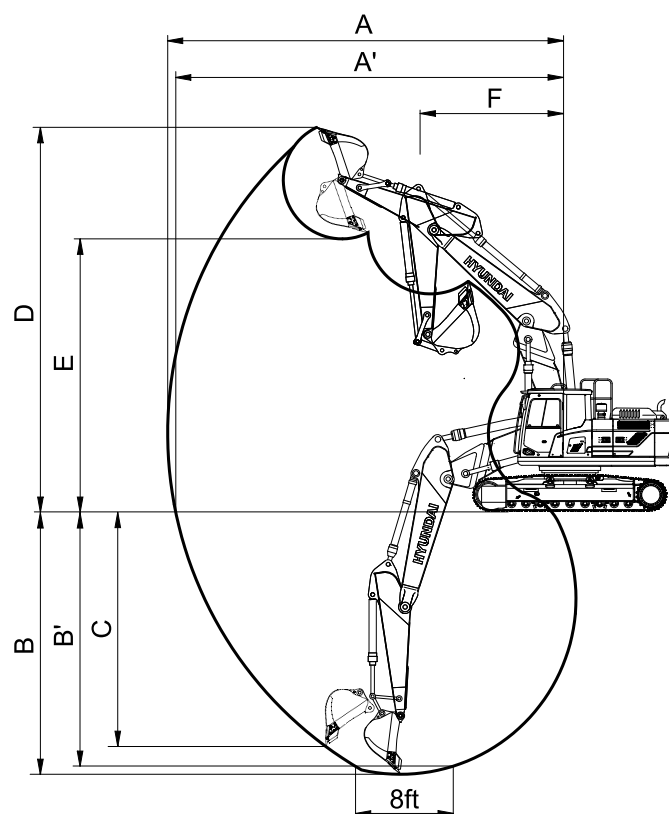


220A2SP05

Description	m (ft-in)	Boom	5.68 (18' 8")			
		Arm	2.92 (9' 7")	2.00 (6' 7")	2.40 (7' 10")	3.90 (12' 10")
Max digging reach	mm (ft-in)	A	9980 (32' 9")	9140 (30' 0")	9500 (31' 2")	10910 (35' 10")
Max digging reach on ground		A'	9820 (32' 3")	8960 (29' 5")	9330 (30' 7")	10770 (35' 4")
Max digging depth		B	6730 (22' 1")	5820 (19' 1")	6220 (20' 5")	7720 (25' 4")
Max digging depth (8 ft level)		B'	6560 (21' 6")	5580 (18' 4")	6010 (19' 9")	7580 (24' 10")
Max vertical wall digging depth		C	6280 (20' 7")	5280 (17' 4")	5720 (18' 9")	7240 (23' 9")
Max digging height		D	9600 (31' 6")	9140 (30' 0")	9340 (30' 8")	10110 (33' 2")
Max dumping height		E	6780 (22' 3")	6330 (20' 9")	6520 (21' 5")	7290 (23' 11")
Min swing radius		F	3670 (12' 0")	3750 (12' 4")	3740 (12' 3")	3700 (12' 2")
Bucket digging force	kN	SAE	133.4 [144.8]	133.4 [144.8]	133.4 [144.8]	133.4 [144.8]
	kgf		13600 [14770]	13600 [14770]	13600 [14770]	13600 [14770]
	lbf		29980 [32560]	29980 [32560]	29980 [32560]	29980 [32560]
	kN	ISO	152.0 [165.0]	152.0 [165.0]	152.0 [165.0]	152.0 [165.0]
	kgf		15500 [16830]	15500 [16830]	15500 [16830]	15500 [16830]
	lbf		34170 [37100]	34170 [37100]	34170 [37100]	34170 [37100]
Arm digging force	kN	SAE	102.0 [110.7]	144.2 [156.5]	119.6 [129.9]	84.3 [91.6]
	kgf		10400 [11290]	14700 [15960]	12200 [13250]	8600 [9340]
	lbf		22930 [24890]	32410 [35190]	26900 [29210]	18960 [20590]
	kN	ISO	106.9 [116.0]	151.0 [164.0]	106.9 [116.0]	87.3 [94.7]
	kgf		10900 [11830]	15400 [16720]	10900 [11830]	8900 [9660]
	lbf		24030 [26080]	33950 [36860]	24030 [26080]	19620 [21300]

[] : Power boost

2) HX220A L, 2-PIECE BOOM

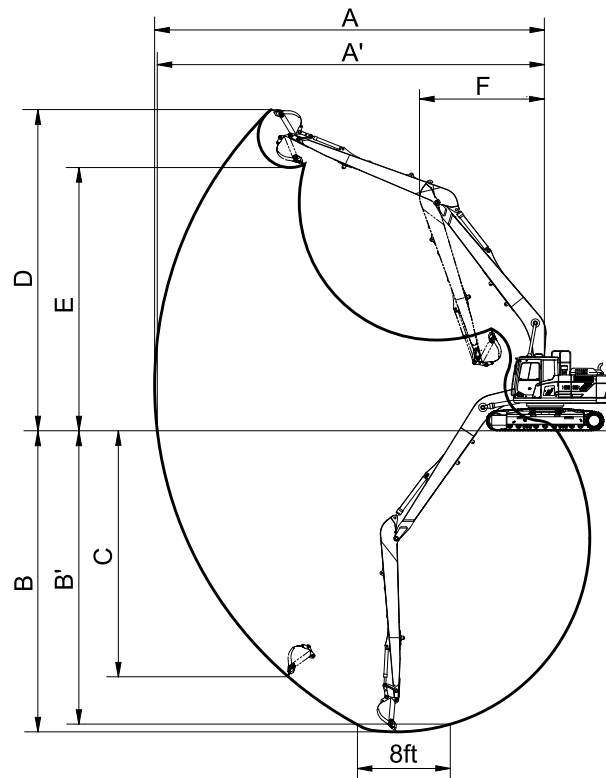


220A2SP10

Description	m (ft-in)	Boom	5.65 (18' 7")
		Arm	2.92 (9' 7")
Max digging reach	mm (ft-in)	A	10020 (32' 10")
Max digging reach on ground		A'	9860 (32' 4")
Max digging depth		B	6400 (21' 0")
Max digging depth (8 ft level)		B'	6290 (20' 8")
Max vertical wall digging depth		C	5560 (18' 3")
Max digging height		D	11090 (36' 5")
Max dumping height		E	8160 (26' 9")
Min swing radius		F	2530 (8' 4")
Bucket digging force	kN	SAE	133.4 [144.8]
	kgf		13600 [14770]
	lbf		29980 [32560]
	kN	ISO	152.0 [165.0]
	kgf		15500 [16830]
	lbf		34170 [37100]
Arm digging force	kN	SAE	102.0 [110.7]
	kgf		10400 [11290]
	lbf		22930 [24890]
	kN	ISO	106.9 [116.0]
	kgf		10900 [11830]
	lbf		24030 [26080]

[] : Power boost

3) HX220A LR

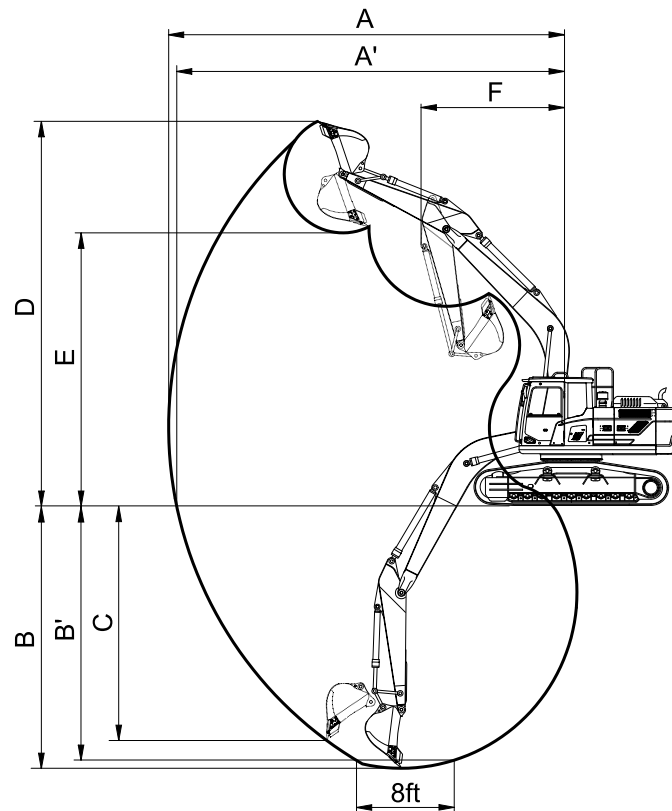


220A2SP06

Description	m (ft-in)	Boom	8.2 (26' 11")
		Arm	6.30 (20' 8")
Max digging reach	mm (ft-in)	A	15220 (49' 11")
Max digging reach on ground		A'	15120 (49' 7")
Max digging depth		B	11760 (38' 7")
Max digging depth (8 ft level)		B'	11650 (38' 3")
Max vertical wall digging depth		C	9610 (31' 6")
Max digging height		D	12550 (41' 2")
Max dumping height		E	10280 (33' 9")
Min swing radius		F	4870 (16' 0")
Bucket digging force	kN	SAE	72.7 [72.7]
	kgf		7410 [7410]
	lbf		16340 [16340]
	kN	ISO	85.0 [85.0]
	kgf		8670 [8670]
	lbf		19110 [19110]
Arm digging force	kN	SAE	48.9 [48.9]
	kgf		4990 [4990]
	lbf		11000 [11000]
	kN	ISO	49.9 [49.9]
	kgf		5090 [5090]
	lbf		11220 [11220]

[] : Power boost

4) HX220A HW



220A2SP07

Description	m (ft-in)	Boom	5.68 (20' 6")			
		Arm	2.92 (9' 7")	2.00 (6' 7")	2.40 (7' 10")	3.90 (12' 10")
Max digging reach	mm (ft-in)	A	9980 (32' 9")	9140 (30' 0")	9500 (31' 2")	10910 (35' 10")
Max digging reach on ground		A'	9820 (32' 3")	8920 (29' 3")	9290 (30' 6")	10730 (35' 2")
Max digging depth		B	6550 (21' 6")	5630 (18' 6")	6010 (19' 9")	7530 (24' 8")
Max digging depth (8 ft level)		B'	6380 (20' 11")	5390 (17' 8")	5820 (19' 1")	7390 (24' 3")
Max vertical wall digging depth		C	6100 (20' 0")	5090 (16' 8")	5630 (18' 6")	7050 (23' 2")
Max digging height		D	9780 (32' 1")	9330 (30' 7")	9530 (31' 3")	10300 (33' 10")
Max dumping height		E	6960 (22' 10")	6520 (21' 5")	6710 (22' 0")	7480 (24' 6")
Min swing radius		F	3670 (12' 0")	3750 (12' 4")	3740 (12' 3")	3700 (12' 2")
Bucket digging force	kN	SAE	133.4 [144.8]	133.4 [144.8]	133.4 [144.8]	133.4 [144.8]
	kgf		13600 [14770]	13600 [14770]	13600 [14770]	13600 [14770]
	lbf		29980 [32560]	29980 [32560]	29980 [32560]	29980 [32560]
	kN	ISO	152.0 [165.0]	152.0 [165.0]	152.0 [165.0]	152.0 [165.0]
	kgf		15500 [16830]	15500 [16830]	15500 [16830]	15500 [16830]
	lbf		34170 [37100]	34170 [37100]	34170 [37100]	34170 [37100]
Arm digging force	kN	SAE	102.0 [110.7]	144.2 [156.5]	119.6 [129.9]	84.3 [91.6]
	kgf		10400 [11290]	14700 [15960]	12200 [13250]	8600 [9340]
	lbf		22930 [24890]	32410 [35190]	26900 [29210]	18960 [20590]
	kN	ISO	106.9 [116.0]	151.0 [164.0]	106.9 [116.0]	87.3 [94.7]
	kgf		10900 [11830]	15400 [16720]	10900 [11830]	8900 [9660]
	lbf		24030 [26080]	33950 [36860]	24030 [26080]	19620 [21300]

[] : Power boost

4. WEIGHT

Item	HX220A L		HX220A LR		HX220A HW	
	kg	lb	kg	lb	kg	lb
Upperstructure assembly						
· Main frame weld assembly	1,890	4,170	1,890	4,170	1,930	4,260
· Engine assembly	583	1,285	583	1,285	583	1,285
· Aftertreatment assembly	74	162	74	162	74	162
· Main pump assembly	140	309	140	309	140	309
· Main control valve assembly	220	485	220	485	220	485
· Swing motor assembly	240	529	240	529	240	529
· Hydraulic oil tank WA	220	485	220	485	220	485
· Fuel tank WA	210	463	210	463	210	463
· Counterweight	3,800	8,380	5,300	11,680	3,800	8,380
· Cab assembly	490	1,080	490	1,080	490	1,080
Lower chassis assembly						
· Track frame weld assembly	2,530	5,580	2,530	5,580	3,605	7,950
· Swing bearing	280	620	280	620	299	660
· Travel motor assembly (2EA)	609	1,340	609	1,340	609	1,340
· Turning joint	57	130	57	130	57	130
· Sprocket (2EA)	112	247	112	247	103	227
· Track recoil spring (2EA)	279	615	279	615	326	719
· Idler (2EA)	301	664	301	664	301	664
· Upper roller (2EA)	93	205	93	205	177	390
· Lower roller (18EA)	797	1,757	797	1,757	797	1,757
· Track-chain assembly (600 mm triple grouser shoe) (2EA)	2,712	5,979	-	-	2,902	6,398
· Track-chain assembly (700 mm triple grouser shoe) (2EA)	3,184	7,020	-	-	3,184	7,020
· Track-chain assembly (800 mm triple grouser shoe) (2EA)	3,468	7,646	3,468	7,646	3,468	7,646
· Track-chain assembly (900 mm triple grouser shoe) (2EA)	3,750	8,267	-	-	3,750	8,267
· Track-chain assembly (700 mm double grouser shoe) (2EA)	3,458	7,624	-	-	3,458	7,624
Front attachment assembly						
· 5.68 m boom assembly	1,520	3,351	-	-	1,520	3,351
· 2.92 m arm assembly	760	1,676	-	-	760	1,676
· 0.92 m³ SAE heaped bucket	820	1,808	-	-	820	1,808
· 8.2 m boom assembly	-	-	2,110	4,652	-	-
· 6.3 m arm assembly	-	-	1,100	2,425	-	-
· 0.52 m³ SAE heaped bucket	-	-	470	1,036	-	-
· Boom cylinder assembly (2EA)	180	397	180	397	180	397
· Arm cylinder assembly	280	617	270	595	280	617
· Bucket cylinder assembly	170	375	100	220	170	375
· Bucket control linkage total	200	441	170	375	200	441

※ This information is different with operating and transportation weight because it is not including harness, pipe, oil, fuel so on.

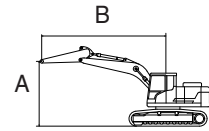
※ Refer to Transportation for actual weight information and Specifications for operating weight.











5. LIFTING CAPACITIES

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX220A L	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5680	2000	3800	600	-	-	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
												m (ft)
7.5 m (24.6 ft)	kg lb									*5720 *12610	*5720 *12610	5.00 (16.4)
6.0 m (19.7 ft)	kg lb					*5460 *12040	5440 11990			*5530 *12190	4940 10890	6.35 (20.8)
4.5 m (14.8 ft)	kg lb			*6900 *15210	*6900 *15210	*5810 *12810	5310 11710			*5570 *12280	4040 8910	7.14 (23.4)
3.0 m (9.8 ft)	kg lb			*8690 *19160	7640 16840	*6540 *14420	5090 11220	5640 12430	3670 8090	5580 12300	3630 8000	7.55 (24.8)
1.5 m (4.9 ft)	kg lb					*7270 *16030	4880 10760	5550 12240	3590 7910	5400 11900	3500 7720	7.64 (25.1)
0.0 m (0.0 ft)	kg lb			*10520 *23190	7090 15630	7580 16710	4760 10490			5580 12300	3590 7910	7.43 (24.4)
-1.5 m (-4.9 ft)	kg lb			*10220 *22530	7100 15650	7560 16670	4750 10470			6230 13730	3980 8770	6.88 (22.6)
-3.0 m (-9.8 ft)	kg lb	*12370 *27270	*12370 *27270	*9130 *20130	7240 15960					*6670 *14700	4980 10980	5.90 (19.4)
-4.5 m (-14.8 ft)	kg lb											

Note 1. Lifting capacity are based on ISO 10567.

2. Lifting capacity of the HX series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.

3. The Lift-point is bucket pivot mounting pin on the arm (without bucket mass).

4. *Indicates load limited by hydraulic capacity.

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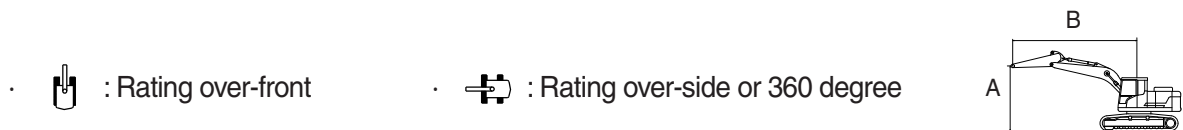
Lifting capacities will vary with different work tools, ground conditions and attachments.











The difference between the weight of a work tool attachment must be subtracted.

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▲ Failure to comply to the rated load can cause serious injury, death, or property damage. Make adjustments to the rated load as necessary for non-standard configurations.

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX220A L	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5680	2400	3800	600	-	-	-	-	-



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
												m (ft)
7.5 m (24.6 ft)	kg lb									*5080 *11200	*5080 *11200	5.58 (18.3)
6.0 m (19.7 ft)	kg lb					*5010 *11050	*5010 *11050			*4610 *10160	4430 9770	6.82 (22.4)
4.5 m (14.8 ft)	kg lb			*6350 *14000	*6350 *14000	*5450 *12020	5340 11770	*5000 *11020	3750 8270	*4490 *9900	3700 8160	7.55 (24.8)
3.0 m (9.8 ft)	kg lb			*8150 *17970	7740 17060	*6230 *13730	5110 11270	*5420 *11950	3670 8090	*4580 *10100	3360 7410	7.94 (26.1)
1.5 m (4.9 ft)	kg lb			*9710 *21410	7270 16030	*7030 *15500	4880 10760	5530 12190	3570 7870	*4860 *10710	3230 7120	8.03 (26.3)
0.0 m (0.0 ft)	kg lb			*10410 *22950	7060 15560	7550 16640	4730 10430	5460 12040	3500 7720	5140 11330	3310 7300	7.83 (25.7)
-1.5 m (-4.9 ft)	kg lb	*10830 *23880	*10830 *23880	*10330 *22770	7040 15520	7500 16530	4690 10340			5660 12480	3620 7980	7.31 (24.0)
-3.0 m (-9.8 ft)	kg lb	*13260 *29230	*13260 *29230	*9490 *20920	7140 15740	*6960 *15340	4770 10520			*6300 *13890	4390 9680	6.40 (21.0)
-4.5 m (-14.8 ft)	kg lb			*7150 *15760	*7150 *15760					*6320 *13930	*6320 *13930	4.89 (16.0)

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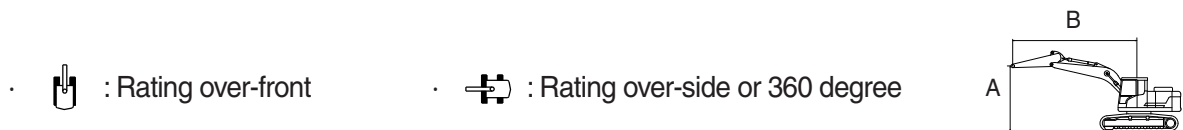
Lifting capacities will vary with different work tools, ground conditions and attachments.













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Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX220A L	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5680	2920	3800	600	-	-	-	-	-



Lift-point height (A)		Lift-point radius (B)										At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
														m (ft)
7.5 m (24.6 ft)	kg							*4460	*4460			*3370	*3370	6.26
	lb							*9830	*9830			*7430	*7430	(20.5)
6.0 m (19.7 ft)	kg							*4460	*4460			*3100	*3100	7.38
	lb							*9830	*9830			*6830	*6830	(24.2)
4.5 m (14.8 ft)	kg							*4970	*4970	*4710	3780	*3020	*3020	8.07
	lb							*10960	*10960	*10380	8330	*6660	*6660	(26.5)
3.0 m (9.8 ft)	kg					*7410	*7410	*5800	5140	*5070	3670	*3070	3050	8.43
	lb					*16340	*16340	*12790	11330	*11180	8090	*6770	6720	(27.7)
1.5 m (4.9 ft)	kg					*9140	7340	*6680	4890	*5520	3550	*3250	2940	8.51
	lb					*20150	16180	*14730	10780	*12170	7830	*7170	6480	(27.9)
0.0 m (0.0 ft)	kg			*5930	*5930	*10140	7040	*7330	4700	5410	3450	*3590	2990	8.32
	lb			*13070	*13070	*22350	15520	*16160	10360	11930	7610	*7910	6590	(27.3)
-1.5 m (-4.9 ft)	kg	*6500	*6500	*10400	*10400	*10350	6950	7440	4620	5380	3420	*4200	3230	7.84
	lb	*14330	*14330	*22930	*22930	*22820	15320	16400	10190	11860	7540	*9260	7120	(25.7)
-3.0 m (-9.8 ft)	kg	*11120	*11120	*14180	13660	*9820	7010	*7250	4650			*5420	3800	7.00
	lb	*24520	*24520	*31260	30120	*21650	15450	*15980	10250			*11950	8380	(23.0)
-4.5 m (-14.8 ft)	kg			*11610	*11610	*8190	7220					*6080	5250	5.65
	lb			*25600	*25600	*18060	15920					*13400	11570	(18.5)

Note 1. Lifting capacity are based on ISO 10567.

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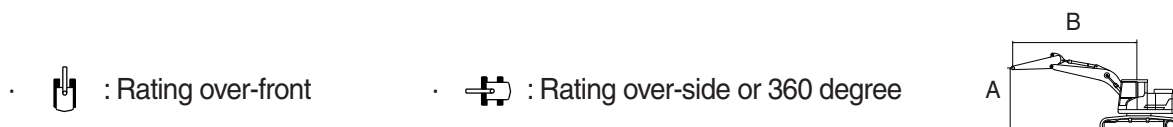
Lifting capacities will vary with different work tools, ground conditions and attachments.













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Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX220A L	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5680	2920	3800	800	-	-	-	-	-



Lift-point height (A)		Lift-point radius (B)										At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
														m (ft)
7.5 m (24.6 ft)	kg lb							*4460 *9830	*4460 *9830			*3370 *7430	*3370 *7430	6.26 (20.5)
6.0 m (19.7 ft)	kg lb							*4460 *9830	*4460 *9830			*3100 *6830	*3100 *6830	7.38 (24.2)
4.5 m (14.8 ft)	kg lb							*4970 *10960	*4970 *10960	*4710 *10380	3900 8600	*3020 *6660	*3020 *6660	8.07 (26.5)
3.0 m (9.8 ft)	kg lb					*7410 *16340	*7410 *16340	*5800 *12790	5300 11680	*5070 *11180	3790 8360	*3070 *6770	*3070 *6770	8.43 (27.7)
1.5 m (4.9 ft)	kg lb					*9140 *20150	7570 16690	*6680 *14730	5040 11110	*5520 *12170	3670 8090	*3250 *7170	3040 6700	8.51 (27.9)
0.0 m (0.0 ft)	kg lb			*5930 *13070	*5930 *13070	*10140 *22350	7270 16030	*7330 *16160	4860 10710	5600 12350	3570 7870	*3590 *7910	3090 6810	8.32 (27.3)
-1.5 m (-4.9 ft)	kg lb	*6500 *14330	*6500 *14330	*10400 *22930	*10400 *22930	*10350 *22820	7180 15830	*7590 *16730	4780 10540	5560 12260	3540 7800	*4200 *9260	3350 7390	7.84 (25.7)
-3.0 m (-9.8 ft)	kg lb	*11120 *24520	*11120 *24520	*14180 *31260	14090 31060	*9820 *21650	7240 15960	*7250 *15980	4810 10600			*5420 *11950	3940 8690	7.00 (23.0)
-4.5 m (-14.8 ft)	kg lb			*11610 *25600	*11610 *25600	*8190 *18060	7450 16420					*6080 *13400	5420 11950	5.65 (18.5)

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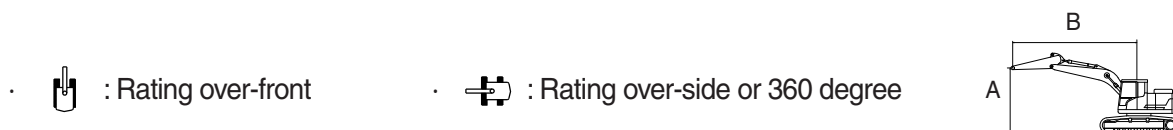
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Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX220A L	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5680	2920	4500	700	-	-	-	-	-



Lift-point height (A)		Lift-point radius (B)										At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
														m (ft)
7.5 m (24.6 ft)	kg							*4460	*4460			*3370	*3370	6.26
	lb							*9830	*9830			*7430	*7430	(20.5)
6.0 m (19.7 ft)	kg							*4460	*4460			*3100	*3100	7.38
	lb							*9830	*9830			*6830	*6830	(24.2)
4.5 m (14.8 ft)	kg							*4970	*4970	*4710	4190	*3020	*3020	8.07
	lb							*10960	*10960	*10380	9240	*6660	*6660	(26.5)
3.0 m (9.8 ft)	kg					*7410	*7410	*5800	5670	*5070	4080	*3070	*3070	8.43
	lb					*16340	*16340	*12790	12500	*11180	8990	*6770	*6770	(27.7)
1.5 m (4.9 ft)	kg					*9140	8120	*6680	5420	*5520	3950	*3250	*3250	8.51
	lb					*20150	17900	*14730	11950	*12170	8710	*7170	*7170	(27.9)
0.0 m (0.0 ft)	kg			*5930	*5930	*10140	7820	*7330	5240	*5860	3860	*3590	3350	8.32
	lb			*13070	*13070	*22350	17240	*16160	11550	*12920	8510	*7910	7390	(27.3)
-1.5 m (-4.9 ft)	kg	*6500	*6500	*10400	*10400	*10350	7730	*7590	5160	5910	3830	*4200	3620	7.84
	lb	*14330	*14330	*22930	*22930	*22820	17040	*16730	11380	13030	8440	*9260	7980	(25.7)
-3.0 m (-9.8 ft)	kg	*11120	*11120	*14180	*14180	*9820	7790	*7250	5180			*5420	4250	7.00
	lb	*24520	*24520	*31260	*31260	*21650	17170	*15980	11420			*11950	9370	(23.0)
-4.5 m (-14.8 ft)	kg			*11610	*11610	*8190	8000					*6080	5830	5.65
	lb			*25600	*25600	*18060	17640					*13400	12850	(18.5)

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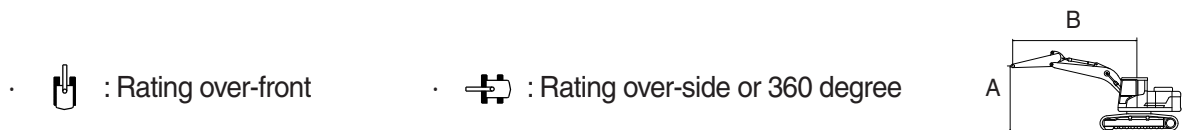
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Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX220A L	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5680	2920	5300	700	-	-	-	-	-



Lift-point height (A)		Lift-point radius (B)										At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
														m (ft)
7.5 m (24.6 ft)	kg							*4460	*4460			*3370	*3370	6.26
	lb							*9830	*9830			*7430	*7430	(20.5)
6.0 m (19.7 ft)	kg							*4460	*4460			*3100	*3100	7.38
	lb							*9830	*9830			*6830	*6830	(24.2)
4.5 m (14.8 ft)	kg							*4970	*4970	*4710	4550	*3020	*3020	8.07
	lb							*10960	*10960	*10380	10030	*6660	*6660	(26.5)
3.0 m (9.8 ft)	kg					*7410	*7410	*5800	*5800	*5070	4440	*3070	*3070	8.43
	lb					*16340	*16340	*12790	*12790	*11180	9790	*6770	*6770	(27.7)
1.5 m (4.9 ft)	kg					*9140	8820	*6680	5900	*5520	4320	*3250	*3250	8.51
	lb					*20150	19440	*14730	13010	*12170	9520	*7170	*7170	(27.9)
0.0 m (0.0 ft)	kg			*5930	*5930	*10140	8520	*7330	5710	*5860	4220	*3590	*3590	8.32
	lb			*13070	*13070	*22350	18780	*16160	12590	*12920	9300	*7910	*7910	(27.3)
-1.5 m (-4.9 ft)	kg	*6500	*6500	*10400	*10400	*10350	8430	*7590	5630	*5920	4190	*4200	3960	7.84
	lb	*14330	*14330	*22930	*22930	*22820	18580	*16730	12410	*13050	9240	*9260	8730	(25.7)
-3.0 m (-9.8 ft)	kg	*11120	*11120	*14180	*14180	*9820	8490	*7250	5660			*5420	4640	7.00
	lb	*24520	*24520	*31260	*31260	*21650	18720	*15980	12480			*11950	10230	(23.0)
-4.5 m (-14.8 ft)	kg			*11610	*11610	*8190	*8190					*6080	*6080	5.65
	lb			*25600	*25600	*18060	*18060					*13400	*13400	(18.5)

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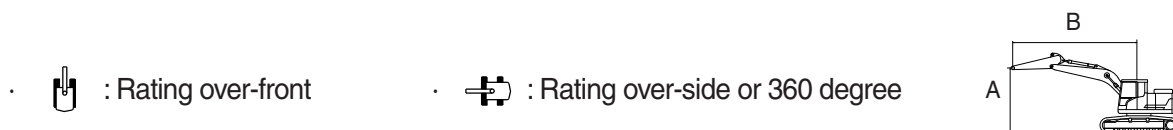
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Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX220A L	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5680	3900	3800	600	-	-	-	-	-



Lift-point height (A)		Lift-point radius (B)												At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		9.0 m (29.5 ft)		Capacity		Reach
																m (ft)
7.5 m (24.6 ft)	kg													*2330	*2330	7.49
	lb													*5140	*5140	(24.6)
6.0 m (19.7 ft)	kg									*3680	*3680			*2170	*2170	8.44
	lb									*8110	*8110			*4780	*4780	(27.7)
4.5 m (14.8 ft)	kg									*3920	3820	*2330	*2330	*2120	*2120	9.05
	lb									*8640	8420	*5140	*5140	*4670	*4670	(29.7)
3.0 m (9.8 ft)	kg					*5890	*5890	*4880	*4880	*4370	3680	*3530	2710	*2150	*2150	9.37
	lb					*12990	*12990	*10760	*10760	*9630	8110	*7780	5970	*4740	*4740	(30.7)
1.5 m (4.9 ft)	kg			*8630	*8630	*7850	7470	*5870	4900	*4920	3510	*4080	2630	*2250	*2250	9.45
	lb			*19030	*19030	*17310	16470	*12940	10800	*10850	7740	*8990	5800	*4960	*4960	(31.0)
0.0 m (0.0 ft)	kg			*7210	*7210	*9310	7000	*6730	4640	5330	3370	*3890	2570	*2440	*2440	9.28
	lb			*15900	*15900	*20530	15430	*14840	10230	11750	7430	*8580	5670	*5380	*5380	(30.4)
-1.5 m (-4.9 ft)	kg	*5430	*5430	*9370	*9370	*10030	6770	*7260	4480	5240	3280			*2780	2610	8.85
	lb	*11970	*11970	*20660	*20660	*22110	14930	*16010	9880	11550	7230			*6130	5750	(29.0)
-3.0 m (-9.8 ft)	kg	*8510	*8510	*13040	*13040	*10030	6730	7250	4440	5220	3270			*3380	2950	8.12
	lb	*18760	*18760	*28750	*28750	*22110	14840	15980	9790	11510	7210			*7450	6500	(26.6)
-4.5 m (-14.8 ft)	kg	*12380	*12380	*13530	13400	*9220	6840	*6720	4520					*4660	3700	6.99
	lb	*27290	*27290	*29830	29540	*20330	15080	*14820	9960					*10270	8160	(22.9)
-6.0 m (-19.7 ft)	kg			*10120	*10120	*6860	*6860							*5510	*5510	5.21
	lb			*22310	*22310	*15120	*15120							*12150	*12150	(17.1)

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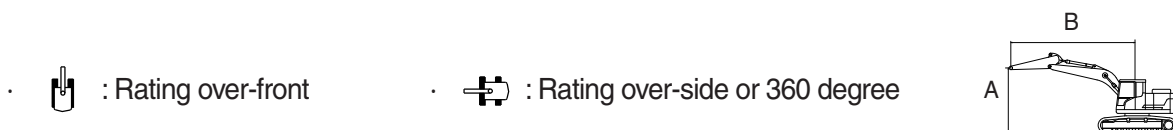
Lifting capacities will vary with different work tools, ground conditions and attachments.















The difference between the weight of a work tool attachment must be subtracted.

Consult with your local HD Hyundai Construction Equipment dealer regarding the lifting capacities for specific work tools and attachments.

▲ Failure to comply to the rated load can cause serious injury, death, or property damage. Make adjustments to the rated load as necessary for non-standard configurations.

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX220A L	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5680	3900	5300	700	-	-	-	-	-



Lift-point height (A)		Lift-point radius (B)												At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		9.0 m (29.5 ft)		Capacity		Reach
																m (ft)
7.5 m (24.6 ft)	kg lb													*2330 *5140	*2330 *5140	7.49 (24.6)
6.0 m (19.7 ft)	kg lb									*3680 *8110	*3680 *8110			*2170 *4780	*2170 *4780	8.44 (27.7)
4.5 m (14.8 ft)	kg lb									*3920 *8640	*3920 *8640	*2330 *5140	*2330 *5140	*2120 *4670	*2120 *4670	9.05 (29.7)
3.0 m (9.8 ft)	kg lb					*5890 *12990	*5890 *12990	*4880 *10760	*4880 *10760	*4370 *9630	*4370 *9630	*3530 *7780	3330 7340	*2150 *4740	*2150 *4740	9.37 (30.7)
1.5 m (4.9 ft)	kg lb			*8630 *19030	*8630 *19030	*7850 *17310	*7850 *17310	*5870 *12940	*5870 *12940	*4920 *10850	4280 9440	*4080 *8990	3250 7170	*2250 *4960	*2250 *4960	9.45 (31.0)
0.0 m (0.0 ft)	kg lb			*7210 *15900	*7210 *15900	*9310 *20530	8480 18700	*6730 *14840	5650 12460	*5410 *11930	4130 9110	*3890 *8580	3190 7030	*2440 *5380	*2440 *5380	9.28 (30.4)
-1.5 m (-4.9 ft)	kg lb	*5430 *11970	*5430 *11970	*9370 *20660	*9370 *20660	*10030 *22110	8250 18190	*7260 *16010	5490 12100	*5720 *12610	4040 8910			*2780 *6130	*2780 *6130	8.85 (29.0)
-3.0 m (-9.8 ft)	kg lb	*8510 *18760	*8510 *18760	*13040 *28750	*13040 *28750	*10030 *22110	8210 18100	*7340 *16180	5450 12020	*5660 *12480	4030 8880			*3380 *7450	*3380 *7450	8.12 (26.6)
-4.5 m (-14.8 ft)	kg lb	*12380 *27290	*12380 *27290	*13530 *29830	*13530 *29830	*9220 *20330	8320 18340	*6720 *14820	5530 12190					*4660 *10270	4540 10010	6.99 (22.9)
-6.0 m (-19.7 ft)	kg lb			*10120 *22310	*10120 *22310	*6860 *15120	*6860 *15120							*5510 *12150	*5510 *12150	5.21 (17.1)

Note 1. Lifting capacity are based on ISO 10567.

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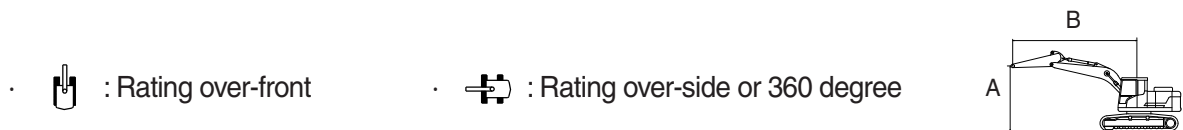
Lifting capacities will vary with different work tools, ground conditions and attachments.











The difference between the weight of a work tool attachment must be subtracted.

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Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX220A L	2-PIECE BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5650	2920	3800	600	-	-	-	-	-



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
												m (ft)
9.0 m (29.5 ft)	kg lb									*4550 *10030	*4550 *10030	4.46 (14.6)
7.5 m (24.6 ft)	kg lb			*6200 *13670	*6200 *13670	*5300 *11680	*5300 *11680			*3630 *8000	*3630 *8000	6.32 (20.7)
6.0 m (19.7 ft)	kg lb			*6430 *14180	*6430 *14180	*5760 *12700	5560 12260			*3300 *7280	*3300 *7280	7.43 (24.4)
4.5 m (14.8 ft)	kg lb	*10530 *23210	*10530 *23210	*8050 *17750	*8050 *17750	*6090 *13430	5370 11840	*4920 *10850	3730 8220	*3180 *7010	*3180 *7010	8.11 (26.6)
3.0 m (9.8 ft)	kg lb			*10100 *22270	7820 17240	*6730 *14840	5080 11200	*5130 *11310	3610 7960	*3200 *7050	2950 6500	8.47 (27.8)
1.5 m (4.9 ft)	kg lb			*11830 *26080	7210 15900	*7620 *16800	4800 10580	*5440 *11990	3470 7650	*3350 *7390	2840 6260	8.55 (28.1)
0.0 m (0.0 ft)	kg lb			11830 26080	6880 15170	7480 16490	4590 10120	5370 11840	3370 7430	*3640 *8020	2890 6370	8.36 (27.4)
-1.5 m (-4.9 ft)	kg lb	*11710 *25820	*11710 *25820	*10960 *24160	6790 14970	7380 16270	4510 9940	5340 11770	3340 7360	*4180 *9220	3140 6920	7.88 (25.9)
-3.0 m (-9.8 ft)	kg lb	*11250 *24800	*11250 *24800	*8920 *19670	6870 15150	*6680 *14730	4560 10050			*4770 *10520	3710 8180	7.05 (23.1)

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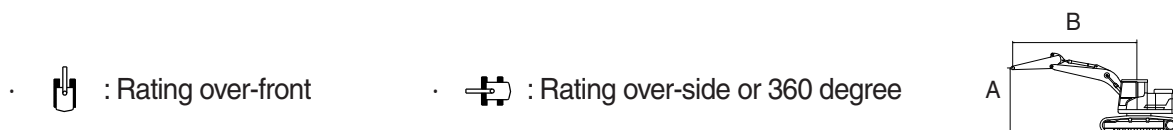
Lifting capacities will vary with different work tools, ground conditions and attachments.











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Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX220A L	2-PIECE BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5650	2920	5300	600	-	-	-	-	-



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
												m (ft)
9.0 m (29.5 ft)	kg lb									*3940 *8690	*3940 *8690	4.46 (14.6)
7.5 m (24.6 ft)	kg lb			*6020 *13270	*6020 *13270	*4590 *10120	*4590 *10120			*3130 *6900	*3130 *6900	6.32 (20.7)
6.0 m (19.7 ft)	kg lb			*6170 *13600	*6170 *13600	*4950 *10910	*4950 *10910			*2830 *6240	*2830 *6240	7.43 (24.4)
4.5 m (14.8 ft)	kg lb	*9140 *20150	*9140 *20150	*6930 *15280	*6930 *15280	*5220 *11510	*5220 *11510	*4200 *9260	*4200 *9260	*2730 *6020	*2730 *6020	8.11 (26.6)
3.0 m (9.8 ft)	kg lb			*8690 *19160	*8690 *19160	*5770 *12720	*5770 *12720	*4380 *9660	4290 9460	*2750 *6060	*2750 *6060	8.47 (27.8)
1.5 m (4.9 ft)	kg lb			*10100 *22270	8540 18830	*6520 *14370	5700 12570	*4640 *10230	4160 9170	*2870 *6330	*2870 *6330	8.55 (28.1)
0.0 m (0.0 ft)	kg lb			*10150 *22380	8220 18120	*7260 *16010	5500 12130	*4890 *10780	4060 8950	*3130 *6900	*3130 *6900	8.36 (27.4)
-1.5 m (-4.9 ft)	kg lb	*10190 *22470	*10190 *22470	*9300 *20500	8130 17920	*6970 *15370	5420 11950	*5040 *11110	4030 8880	*3600 *7940	*3600 *7940	7.88 (25.9)
-3.0 m (-9.8 ft)	kg lb	*9460 *20860	*9460 *20860	*7530 *16600	*7530 *16600	*5620 *12390	5470 12060			*3990 *8800	*3990 *8800	7.05 (23.1)

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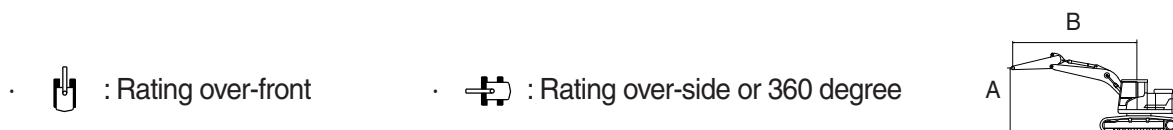
Lifting capacities will vary with different work tools, ground conditions and attachments.





















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Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX220A L	LONG REACH	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		8200	6300	5300	800	-	-	-	-	-



Lift-point height (A)		Lift-point radius (B)																		At max. reach			
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		9.0 m (29.5 ft)		10.5 m (34.4 ft)		12.0 m (39.4 ft)		13.5 m (44.3 ft)		Capacity		Reach	
																						m (ft)	
10.5m 34.4ft	kg lb													*1180 *2600	*1180 *2600						*870 *1920	*870 *1920	10.88 (35.7)
9.0m 29.5ft	kg lb																				*820 *1810	*820 *1810	11.94 (39.2)
7.5m 24.6ft	kg lb													*1870 *4120	*1870 *4120	*1410 *3110	*1410 *3110				*790 *1740	*790 *1740	12.74 (41.8)
6.0m 19.7ft	kg lb													*1990 *4390	*1990 *4390	*1780 *3920	*1780 *3920				*790 *1740	*790 *1740	13.31 (43.7)
4.5m 14.8ft	kg lb											*2290 *5050	*2290 *5050	*2170 *4780	*2170 *4780	*2080 *4590	*2080 *4590	*1050 *2310	*1050 *2310	*800 *1760	*800 *1760	13.70 (45.0)	
3.0m 9.8ft	kg lb									*2980 *6570	*2980 *6570	*2630 *5800	*2630 *5800	*2400 *5290	*2400 *5290	*2250 *4960	2000 4410	*1340 *2950	*1340 *2950	*830 *1830	*830 *1830	13.92 (45.7)	
1.5m 4.9ft	kg lb			*2800 *6170	*2800 *6170	*6330 *13960	*6330 *13960	*4470 *9850	*4470 *9850	*3530 *7780	*3530 *7780	*2990 *6590	*2990 *6590	*2640 *5820	2400 5290	*2410 *5310	1910 4210	*1490 *3280	*1490 *3280	*880 *1940	*880 *1940	13.97 (45.8)	
0.0m 0.0ft	kg lb			*2410 *5310	*2410 *5310	*6270 *13820	*6270 *13820	*5260 *11600	5020 11070	*4050 *8930	3710 8180	*3340 *7360	2870 6330	*2880 *6350	2270 5000	*2580 *5690	1830 4030	*1470 *3240	*1470 *3240	*950 *2090	*950 *2090	13.85 (45.4)	
-1.5m -4.9ft	kg lb	*1990 *4390	*1990 *4390	*2980 *6570	*2980 *6570	*5610 *12370	*5610 *12370	*5830 *12850	4690 10340	*4460 *9830	3480 7670	*3630 *8000	2710 5970	*3090 *6810	2160 4760	*2720 *6000	1760 3880	*1170 *2580	*1170 *2580	*1040 *2290	*1040 *2290	13.57 (44.5)	
-3.0m -9.8ft	kg lb	*2870 *6330	*2870 *6330	*3800 *8380	*3800 *8380	*6050 *13340	*6050 *13340	*6170 *13600	4510 9940	*4750 *10470	3330 7340	*3850 *8490	2600 5730	*3250 *7170	2090 4610	*2810 *6190	1710 3770			*1180 *2600	*1180 *2600	13.11 (43.0)	
-4.5m -14.8ft	kg lb	*3790 *8360	*3790 *8360	*4800 *10580	*4800 *10580	*7020 *15480	6750 14880	*6290 *13870	4450 9810	*4880 *10760	3270 7210	*3960 *8730	2540 5600	*3320 *7320	2050 4520	*2380 *5250	1700 3750			*1390 *3060	*1390 *3060	12.45 (40.9)	
-6.0m -19.7ft	kg lb	*4800 *10580	*4800 *10580	*5970 *13160	*5970 *13160	*8340 *18390	6840 15080	*6190 *13650	4470 9850	*4850 *10690	3270 7210	*3930 *8660	2550 5620	*3250 *7170	2070 4560					*1720 *3790	*1720 *3790	11.56 (37.9)	
-7.5m -24.6ft	kg lb	*5950 *13120	*5950 *13120	*7410 *16340	*7410 *16340	*7740 *17060	7040 15520	*5830 *12850	4590 10120	*4600 *10140	3350 7390	*3700 *8160	2620 5780							*2300 *5070	2190 4830	10.37 (34.0)	
-9.0m -29.5ft	kg lb			*9290 *20480	*9290 *20480	*6700 *14770	*6700 *14770	*5100 *11240	4790 10560	*3980 *8770	3520 7760									*3160 *6970	2880 6350	8.77 (28.8)	
-10.5m -34.4ft	kg lb																						

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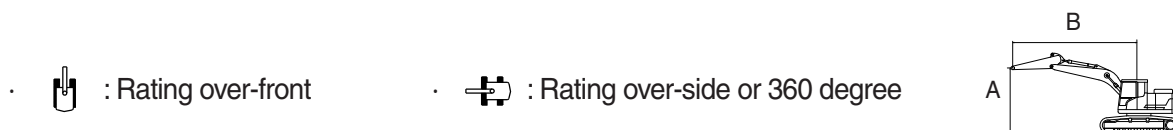
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Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX220A HW	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5680	2000	3800	600	-	-	-	-	-



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
												m (ft)
7.5 m (24.6 ft)	kg									*5670	*5670	5.23
	lb									*12500	*12500	(17.1)
6.0 m (19.7 ft)	kg					*5470	*5470			*5530	5060	6.48
	lb					*12060	*12060			*12190	11160	(21.3)
4.5 m (14.8 ft)	kg			*7120	*7120	*5900	5600			*5580	4220	7.21
	lb			*15700	*15700	*13010	12350			*12300	9300	(23.7)
3.0 m (9.8 ft)	kg			*8930	8030	*6650	5370	*5740	3900	*5720	3840	7.58
	lb			*19690	17700	*14660	11840	*12650	8600	*12610	8470	(24.9)
1.5 m (4.9 ft)	kg					*7340	5170	5910	3820	5760	3730	7.63
	lb					*16180	11400	13030	8420	12700	8220	(25.0)
0.0 m (0.0 ft)	kg			*10520	7550	*7710	5070			6010	3870	7.37
	lb			*23190	16640	*17000	11180			13250	8530	(24.2)
-1.5 m (-4.9 ft)	kg	*12400	*12400	*10130	7580	*7550	5070			*6470	4340	6.78
	lb	*27340	*27340	*22330	16710	*16640	11180			*14260	9570	(22.2)
-3.0 m (-9.8 ft)	kg	*12040	*12040	*8890	7730					*6690	5540	5.73
	lb	*26540	*26540	*19600	17040					*14750	12210	(18.8)
-4.5 m (-14.8 ft)	kg											
	lb											

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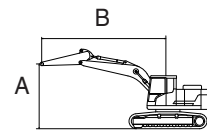
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Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX220A HW	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5680	2400	3800	600	-	-	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
												m (ft)
7.5 m (24.6 ft)	kg lb									*4990 *11000	*4990 *11000	5.79 (19.0)
6.0 m (19.7 ft)	kg lb					*5040 *11110	*5040 *11110			*4580 *10100	4560 10050	6.94 (22.8)
4.5 m (14.8 ft)	kg lb			*6570 *14480	*6570 *14480	*5540 *12210	*5540 *12210	*5190 *11440	3980 8770	*4490 *9900	3870 8530	7.62 (25.0)
3.0 m (9.8 ft)	kg lb			*8390 *18500	8120 17900	*6350 *14000	5390 11880	*5470 *12060	3900 8600	*4600 *10140	3550 7830	7.97 (26.1)
1.5 m (4.9 ft)	kg lb			*9850 *21720	7690 16950	*7120 *15700	5170 11400	*5830 *12850	3800 8380	*4920 *10850	3450 7610	8.02 (26.3)
0.0 m (0.0 ft)	kg lb			*10440 *23020	7510 16560	*7600 *16760	5040 11110	5820 12830	3730 8220	*5520 *12170	3560 7850	7.78 (25.5)
-1.5 m (-4.9 ft)	kg lb	*11820 *26060	*11820 *26060	*10270 *22640	7500 16530	*7600 *16760	5010 11050			*6070 *13380	3940 8690	7.22 (23.7)
-3.0 m (-9.8 ft)	kg lb	*12960 *28570	*12960 *28570	*9300 *20500	7620 16800	*6760 *14900	5110 11270			*6330 *13960	4860 10710	6.25 (20.5)
-4.5 m (-14.8 ft)	kg lb											

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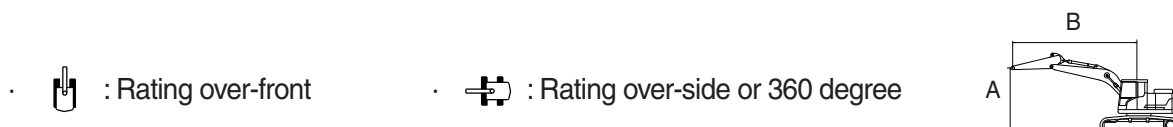
Lifting capacities will vary with different work tools, ground conditions and attachments.













The difference between the weight of a work tool attachment must be subtracted.

Consult with your local HD Hyundai Construction Equipment dealer regarding the lifting capacities for specific work tools and attachments.

▲ Failure to comply to the rated load can cause serious injury, death, or property damage. Make adjustments to the rated load as necessary for non-standard configurations.

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX220A HW	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5680	2920	3800	600	-	-	-	-	-



Lift-point height (A)		Lift-point radius (B)										At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
														m (ft)
7.5 m (24.6 ft)	kg lb							*4490 *9900	*4490 *9900			*3320 *7320	*3320 *7320	6.44 (21.1)
6.0 m (19.7 ft)	kg lb							*4500 *9920	*4500 *9920			*3080 *6790	*3080 *6790	7.49 (24.6)
4.5 m (14.8 ft)	kg lb							*5070 *11180	*5070 *11180	*4750 *10470	4010 8840	*3020 *6660	*3020 *6660	8.13 (26.7)
3.0 m (9.8 ft)	kg lb					*7670 *16910	*7670 *16910	*5920 *13050	5420 11950	*5130 *11310	3900 8600	*3090 *6810	*3090 *6810	8.46 (27.7)
1.5 m (4.9 ft)	kg lb					*9330 *20570	7740 17060	*6780 *14950	5170 11400	*5570 *12280	3770 8310	*3290 *7250	3140 6920	8.50 (27.9)
0.0 m (0.0 ft)	kg lb			*6460 *14240	*6460 *14240	*10210 *22510	7480 16490	*7390 *16290	5000 11020	5770 12720	3680 8110	*3650 *8050	3220 7100	8.28 (27.2)
-1.5 m (-4.9 ft)	kg lb	*7100 *15650	*7100 *15650	*11080 *24430	*11080 *24430	*10330 *22770	7410 16340	*7580 *16710	4930 10870	5750 12680	3660 8070	*4320 *9520	3510 7740	7.75 (25.4)
-3.0 m (-9.8 ft)	kg lb	*11800 *26010	*11800 *26010	*13920 *30690	*13920 *30690	*9690 *21360	7480 16490	*7130 *15720	4980 10980			*5670 *12500	4190 9240	6.86 (22.5)
-4.5 m (-14.8 ft)	kg lb			*11110 *24490	*11110 *24490	*7820 *17240	7730 17040					*6090 *13430	5970 13160	5.42 (17.8)

Note 1. Lifting capacity are based on ISO 10567.

2. Lifting capacity of the HX series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.

3. The Lift-point is bucket pivot mounting pin on the arm (without bucket mass).

4. *Indicates load limited by hydraulic capacity.

※ Lifting capacities are based upon a standard machine conditions.

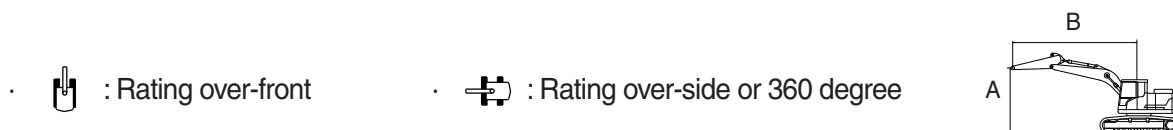
Lifting capacities will vary with different work tools, ground conditions and attachments.















The difference between the weight of a work tool attachment must be subtracted.

Consult with your local HD Hyundai Construction Equipment dealer regarding the lifting capacities for specific work tools and attachments.

▲ Failure to comply to the rated load can cause serious injury, death, or property damage. Make adjustments to the rated load as necessary for non-standard configurations.

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX220A HW	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5680	3900	3800	600	-	-	-	-	-



Lift-point height (A)		Lift-point radius (B)												At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		9.0 m (29.5 ft)		Capacity		Reach
																m (ft)
7.5 m (24.6 ft)	kg lb									*2760 *6080	*2760 *6080			*2300 *5070	*2300 *5070	7.64 (25.1)
6.0 m (19.7 ft)	kg lb									*3690 *8140	*3690 *8140			*2160 *4760	*2160 *4760	8.54 (28.0)
4.5 m (14.8 ft)	kg lb							*4100 *9040	*4100 *9040	*3970 *8750	*3970 *8750	*2560 *5640	*2560 *5640	*2120 *4670	*2120 *4670	9.11 (29.9)
3.0 m (9.8 ft)	kg lb			*9120 *20110	*9120 *20110	*6160 *13580	*6160 *13580	*5010 *11050	*5010 *11050	*4440 *9790	3890 8580	*3630 *8000	2900 6390	*2150 *4740	*2150 *4740	9.40 (30.8)
1.5 m (4.9 ft)	kg lb			*7910 *17440	*7910 *17440	*8080 *17810	7850 17310	*6000 *13230	5170 11400	*4990 *11000	3730 8220	*4110 *9060	2820 6220	*2270 *5000	*2270 *5000	9.44 (31.0)
0.0 m (0.0 ft)	kg lb			*7390 *16290	*7390 *16290	*9450 *20830	7410 16340	*6820 *15040	4920 10850	*5470 *12060	3590 7910	*3760 *8290	2750 6060	*2480 *5470	*2480 *5470	9.23 (30.3)
-1.5 m (-4.9 ft)	kg lb	*5820 *12830	*5820 *12830	*9770 *21540	*9770 *21540	*10070 *22200	7210 15900	*7300 *16090	4780 10540	5590 12320	3510 7740			*2840 *6260	2840 6260	8.77 (28.8)
-3.0 m (-9.8 ft)	kg lb	*8970 *19780	*8970 *19780	*13670 *30140	*13670 *30140	*9970 *21980	7190 15850	*7310 *16120	4750 10470	5600 12350	3510 7740			*3500 *7720	3240 7140	7.99 (26.2)
-4.5 m (-14.8 ft)	kg lb	*13000 *28660	*13000 *28660	*13200 *29100	*13200 *29100	*9020 *19890	7330 16160	*6540 *14420	4860 10710					*4940 *10890	4130 9110	6.80 (22.3)
-6.0 m (-19.7 ft)	kg lb					*6270 *13820	*6270 *13820									

Note 1. Lifting capacity are based on ISO 10567.

2. Lifting capacity of the HX series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.

3. The Lift-point is bucket pivot mounting pin on the arm (without bucket mass).

4. *Indicates load limited by hydraulic capacity.

※ Lifting capacities are based upon a standard machine conditions.

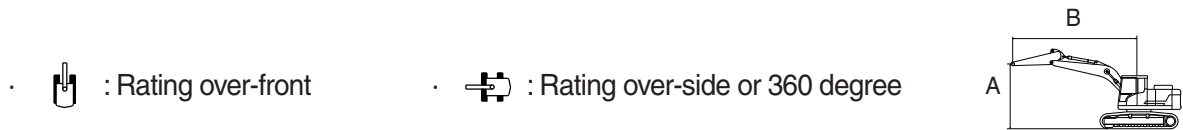
Lifting capacities will vary with different work tools, ground conditions and attachments.























The difference between the weight of a work tool attachment must be subtracted.

Consult with your local HD Hyundai Construction Equipment dealer regarding the lifting capacities for specific work tools and attachments.

▲ Failure to comply to the rated load can cause serious injury, death, or property damage. Make adjustments to the rated load as necessary for non-standard configurations.

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX220A HW	LONG REACH	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		8200	6300	5300	800	-	-	-	-	-



Lift-point height (A)		Lift-point radius (B)																		At max. reach				
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		9.0 m (29.5 ft)		10.5 m (34.4 ft)		12.0 m (39.4 ft)		13.5 m (44.3 ft)		Capacity		Reach		
																								m (ft)
10.5m 34.4ft	kg lb													*1280 *2820	*1280 *2820						*860 *1900	*860 *1900	11.04 (36.2)	
9.0m 29.5ft	kg lb																*880 *1940	*880 *1940				*810 *1790	*810 *1790	12.06 (39.6)
7.5m 24.6ft	kg lb													*1880 *4140	*1880 *4140	*1470 *3240	*1470 *3240				*790 *1740	*790 *1740	12.82 (42.1)	
6.0m 19.7ft	kg lb													*2010 *4430	*2010 *4430	*1820 *4010	*1820 *4010				*790 *1740	*790 *1740	13.38 (43.9)	
4.5m 14.8ft	kg lb												*2330 *5140	*2330 *5140	*2200 *4850	*2200 *4850	*2120 *4670	*2120 *4670	*1090 *2400	*1090 *2400	*800 *1760	*800 *1760	13.74 (45.1)	
3.0m 9.8ft	kg lb							*3680 *8110	*3680 *8110	*3050 *6720	*3050 *6720	*2670 *5890	*2670 *5890	*2430 *5360	*2430 *5360	*2270 *5000	2110 4650	*1360 *3000	*1360 *3000	*830 *1830	*830 *1830	13.93 (45.7)		
1.5m 4.9ft	kg lb			*2610 *5750	*2610 *5750	*6530 *14400	*6530 *14400	*4580 *10100	*4580 *10100	*3610 *7960	*3610 *7960	*3040 *6700	*3040 *6700	*2670 *5890	2530 5580	*2430 *5360	2020 4450	*1490 *3280	*1490 *3280	*880 *1940	*880 *1940	13.96 (45.8)		
0.0m 0.0ft	kg lb			*2460 *5420	*2460 *5420	*6060 *13360	*6060 *13360	*5350 *11790	5250 11570	*4110 *9060	3890 8580	*3380 *7450	3010 6640	*2910 *6420	2390 5270	*2600 *5730	1940 4280	*1450 *3200	*1450 *3200	*960 *2120	*960 *2120	13.83 (45.4)		
-1.5m -4.9ft	kg lb	*2110 *4650	*2110 *4650	*3080 *6790	*3080 *6790	*5620 *12390	*5620 *12390	*5890 *12990	4940 10890	*4510 *9940	3670 8090	*3670 *8090	2860 6310	*3120 *6880	2290 5050	*2730 *6020	1870 4120	*1100 *2430	*1100 *2430	*1060 *2340	*1060 *2340	13.52 (44.4)		
-3.0m -9.8ft	kg lb	*2990 *6590	*2990 *6590	*3930 *8660	*3930 *8660	*6160 *13580	*6160 *13580	*6200 *13670	4770 10520	*4770 *10520	3530 7780	*3870 *8530	2760 6080	*3260 *7190	2220 4890	*2820 *6220	1830 4030			*1210 *2670	*1210 *2670	13.03 (42.8)		
-4.5m -14.8ft	kg lb	*3920 *8640	*3920 *8640	*4940 *10890	*4940 *10890	*7180 *15830	7160 15790	*6290 *13870	4720 10410	*4890 *10780	3470 7650	*3970 *8750	2710 5970	*3320 *7320	2190 4830	*2210 *4870	1830 4030			*1430 *3150	*1430 *3150	12.35 (40.5)		
-6.0m -19.7ft	kg lb	*4950 *10910	*4950 *10910	*6150 *13560	*6150 *13560	*8280 *18250	7270 16030	*6160 *13580	4760 10490	*4830 *10650	3490 7690	*3920 *8640	2720 6000	*3230 *7120	2220 4890					*1780 *3920	*1780 *3920	11.42 (37.5)		
-7.5m -24.6ft	kg lb	*6110 *13470	*6110 *13470	*7630 *16820	*7630 *16820	*7630 *16820	7480 16490	*5760 *12700	4880 10760	*4540 *10010	3570 7870	*3640 *8020	2800 6170							*2410 *5310	2400 5290	10.19 (33.4)		
-9.0m -29.5ft	kg lb			*9180 *20240	*9180 *20240	*6510 *14350	*6510 *14350	*4960 *10930	*4960 *10930	*3850 *8490	3760 8290									*3190 *7030	*3190 *7030	8.51 (27.9)		
-10.5m -34.4ft	kg lb																							

Note 1. Lifting capacity are based on ISO 10567.

2. Lifting capacity of the HX series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.

3. The Lift-point is bucket pivot mounting pin on the arm (without bucket mass).

4. *Indicates load limited by hydraulic capacity.

※ Lifting capacities are based upon a standard machine conditions.

Lifting capacities will vary with different work tools, ground conditions and attachments.

The difference between the weight of a work tool attachment must be subtracted.

Consult with your local HD Hyundai Construction Equipment dealer regarding the lifting capacities for specific work tools and attachments.

▲ Failure to comply to the rated load can cause serious injury, death, or property damage. Make adjustments to the rated load as necessary for non-standard configurations.

6. BUCKET SELECTION GUIDE

1) BUCKET SELECTION



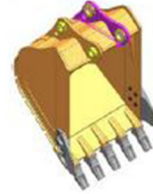
General bucket



Heavy duty
(without side cutter)



Rock heavy duty



Long reach

Type	Capacity		Width	Weight	Tooth	MONO				2-PIECE			L/Reach	
	SAE Heaped	CECE heaped	Without side cutter			Recommendation								8.2 m (26' 11") Boom 6.3 m (20' 8") Boom
						mm				(ft-in)				
						5.68 m (18' 8") Boom				5.65 m (18' 6") Boom				
m³ (yd³)	m³ (yd³)	mm (in)	kg (lb)	EA	2.0 m (6' 7") Arm	2.4 m (7' 10") Arm	2.92 m (9' 7") Arm	3.9 m (12' 10") Arm	2.0m (6' 7") Arm	2.4 m (7' 10") Arm	2.92 m (9' 7") Arm			
General bucket	0.80 (1.05)	0.70 (0.92)	1,070 (42.1")	770 (1,700)	5	●	●	●	◐	●	●	●	X	
	0.92 (1.20)	0.80 (1.05)	1,190 (46.9")	820 (1,810)	5	●	●	●	■	●	●	●	X	
	1.10 (1.44)	0.96 (1.26)	1,375 (54.1")	890 (1,960)	5	●	●	◐	▲	●	◐	■	X	
	1.20 (1.57)	1.05 (1.37)	1,390 (54.7")	920 (2,030)	5	●	◐	■	▲	◐	◐	■	X	
	1.34 (1.75)	1.17 (1.53)	1,525 (60.0")	990 (2,180)	6	◐	■	▲	X	◐	■	▲	X	
Heavy duty	0.90 (1.18)	0.79 (1.03)	1,210 (47.6")	880 (1,940)	5	●	●	●	■	●	●	●	X	
	1.05 (1.37)	0.92 (1.20)	1,355 (53.3")	940 (2,070)	5	●	●	◐	▲	●	●	◐	X	
Rock heavy duty	0.87 (1.14)	0.77 (1.01)	1,195 (47.0")	940 (2,070)	5	●	●	●	-	●	●	●	X	
	1.20 (1.57)	1.05 (1.37)	1,520 (59.8")	1,120 (2,470)	6	◐	◐	■	-	◐	■	■	X	
LR	0.52 (0.68)	0.45 (0.59)	945 (37.2")	460 (1,010)	5	X	X	X	X	X	X	X	◐	

●	Applicable for materials with density of 2100 kg/m ³ (3500 lb/yd ³) or less
◐	Applicable for materials with density of 1800 kg/m ³ (3000 lb/yd ³) or less
■	Applicable for materials with density of 1500 kg/m ³ (2500 lb/yd ³) or less
▲	Applicable for materials with density of 1200 kg/m ³ (2000 lb/yd ³) or less
X	Not recommended

※ These recommendations are for general conditions and average use.

Work tools and ground conditions have effects on machine performance.

Select an optimum combination according to the working conditions and the type of work that is being done.

Consult with your local HD Hyundai Construction Equipment dealer for information on selecting the correct boom—arm—bucket combination.

7. UNDERCARRIAGE

1) TYPES OF SHOES

Model	Description	Unit		Triple grouser								Double grouser	
	width	mm	(in)	600	(24)	700	(28)	800	(32)	900	(36)	700	(28)
HX220A L	Operating weight	kg	(lb)	22280	49120	22760	50180	23040	50790	23320	51410	23040	50790
	Ground pressure	kgf/cm ²	(psi)	0.48	6.76	0.42	5.92	0.37	5.25	0.33	4.72	0.42	5.99
	Overall width	mm	(ft-in)	2990	9'10"	3090	10'2"	3190	10'6"	3290	10'10"	3090	10'2"
	Link quantity	EA		49		49		49		49		49	
HX220A LR	Operating weight	kg	(lb)	-	-	-	-	25460	56130	-	-	-	-
	Ground pressure	kgf/cm ²	(psi)	-	-	-	-	0.41	5.8	-	-	-	-
	Overall width	mm	(ft-in)	-	-	-	-	3190	10'6"	-	-	-	-
	Link quantity	EA		-		-		49		-		-	
HX220A HW	Operating weight	kg	(lb)	23650	52140	24120	53180	24400	53790	24690	54430	24410	53810
	Ground pressure	kgf/cm ²	(psi)	0.5	7.18	0.44	6.28	0.39	5.55	0.35	5	0.45	6.35
	Overall width	mm	(ft-in)	3395	11'2"	3495	11'6"	3595	11'10"	3695	12'2"	3495	11'6"
	Link quantity	EA		49		49		49		49		49	

2) SELECTION OF TRACK SHOE

Suitable track shoes should be selected according to operating conditions.

Method of selecting shoes

Confirm the category from the list of applications in **table 2**, then use **table 1** to select the shoe. Wide shoes (categories B and C) have limitations on applications. Before using wide shoes, check the precautions, then investigate and study the operating conditions to confirm if these shoes are suitable.

Select the narrowest shoe possible to meet the required flotation and ground pressure. Application of wider shoes than recommendations will cause unexpected problem such as bending of shoes, crack of link, breakage of pin, loosening of shoe bolts and the other various problems.

Table 1

Track shoe	Specification	Category
600 mm triple grouser	Standard	A
700 mm triple grouser	Option	B
700 mm double grouser	Option	B
800 mm triple grouser	Option	C
800 mm triple grouser (long reach)	Standard	C
900 mm triple grouser	Option	C

Table 2

Category	Applications	Precautions
A	Rocky ground, river beds, normal soil	<ul style="list-style-type: none">· Travel at low speed on rough ground with large obstacles such as boulders or fallen trees or a wide range of general civil engineering work
B	Normal soil, soft ground	<ul style="list-style-type: none">· These shoes cannot be used on rough ground with large obstacles such as boulders or fallen trees· Travel at high speed only on flat ground· Travel slowly at low speed if it is impossible to avoid going over obstacles
C	Extremely soft ground (swampy ground)	<ul style="list-style-type: none">· Use the shoes only in the conditions that the machine sinks and it is impossible to use the shoes of category A or B· These shoes cannot be used on rough ground with large obstacles such as boulders or fallen trees· Travel at high speed only on flat ground· Travel slowly at low speed if it is impossible to avoid going over obstacles

8. SPECIFICATIONS FOR MAJOR COMPONENTS

1) ENGINE

Item	Specification
Maker / Model	CUMMINS / B6.7
Type	4-cycle, turbocharged, charge air cooled, electronic controlled diesel engine
Cooling method	Water cooled
Number of cylinders and arrangement	6 cylinders, in-line
Firing order	1-5-3-6-2-4
Combustion chamber type	Direct injection type
Cylinder bore × stroke	107 × 124 mm (4.21" × 4.88")
Displacement	6.7 ℓ (408 cu in)
Compression ratio	17.3 : 1
Gross power	173 Hp (129 kW) at 2200 rpm
Net power	170 Hp (127 kW) at 2200 rpm
Max. power	195 Hp (145 kW) at 2000 rpm
Peak Torque	881 N · m (650 lb · ft) at 1,300 rpm
Engine oil quantity	23.1 ℓ (6.1 U.S. gal)
Wet weight or Dry weight	583 kg (1,285 lb)
Starter motor	24 V-4.8 kW
Alternator	24 V-95 A

2) MAIN PUMP

Item	Specification
Type	Variable displacement tandem axis piston pumps
Capacity	2 × 130 cc/rev
Maximum pressure	350 kgf/cm ² (4980 psi) [380 kgf/cm ² (5400 psi)]
Rated oil flow	2 × 221 ℓ /min (58.4 U.S. gpm / 48.6 U.K. gpm)
Rated speed	1700 rpm

[] : Power boost

3) GEAR PUMP

Item	Specification
Type	Fixed displacement gear pump single stage
Capacity	10 cc/rev
Maximum pressure	40 kgf/cm ² (570 psi)
Rated oil flow	17 ℓ /min (4.5 U.S. gpm/3.7 U.K. gpm)

4) MAIN CONTROL VALVE

Item	Specification
Type	9 spools two-block
Operating method	Hydraulic pilot system
Main relief valve pressure	350 kgf/cm ² (4980 psi) [380 kgf/cm ² (5400 psi)] *1 350 kgf/cm ² (4980 psi) [Not applied power boost]
Port relief valve pressure	Boom 400 kgf/cm ² (5690 psi)
	Arm 400 kgf/cm ² (5690 psi), *1 300 kgf/cm ² (4270 psi)
	Bucket 400 kgf/cm ² (5690 psi), *1 280 kgf/cm ² (3980 psi)

[] : Power boost *1 : Long reach only

5) SWING MOTOR

Item	Specification
Type	Axial piston motor
Capacity	142.8 cc/rev
Relief pressure	290 kgf/cm ² (4125 psi)
Braking system	Automatic, spring applied hydraulic released
Braking torque	1183 kgf · m (8560 lbf · ft) over
Brake release pressure	20.9 kgf/cm ² (297 psi) over
Reduction gear type	2 - stage planetary

6) TRAVEL MOTOR

Item	Specification	
	HX220A L/LR	HX220A HW
Type	Variable displacement axial piston motor	
Capacity	171.2/108.5 cc/rev	182.4/105.4 cc/rev
Relief pressure	350 kgf/cm ² (4980 psi)	
Braking system	Automatic, spring applied hydraulic released	
Braking torque	3028 kgf · m (21900 lbf · ft)	3180 kgf · m (23000 lbf · ft)
Brake release pressure	13.5 kgf/cm ² (192 psi)	14.2 kgf/cm ² (202 psi)
Reduction gear type	2-stage planetary	

7) CYLINDER

Item		Specification
Boom cylinder	Bore dia × Stroke	Ø 120 × 1290 mm
	Cushion	Extend only
Arm cylinder	Bore dia × Stroke	Ø 140 × 1510 mm
	Cushion	Extend and retract
Arm cylinder (2-piece boom)	Bore dia × Stroke	Ø 140 × 1510 mm
	Cushion	Extend and retract
Adjust cylinder (2-piece boom)	Bore dia × Stroke	Ø 160 × 1060 mm
	Cushion	NA
Bucket cylinder	Bore dia × Stroke	Ø 120 × 1055 mm
	Cushion	Extend only
Bucket cylinder (Long reach)	Bore dia × Stroke	Ø 100 × 870 mm
	Cushion	Extend only

※ Discoloration of cylinder rod can occur when the friction reduction additive of lubrication oil spreads on the rod surface.

※ Discoloration does not cause any harmful effect on the cylinder performance.

9. RECOMMENDED OILS

HD Hyundai Construction Equipment genuine lubricating oils have been developed to offer the best performance and service life for your equipment. These oils have been tested according to the specifications of HD Hyundai Construction Equipment and, therefore, will meet the highest safety and quality requirements.

We recommend that you use only HD Hyundai Construction Equipment genuine lubricating oils and grease officially approved by HD Hyundai Construction Equipment.

Service point	Kind of fluid	Capacity ℓ (U.S. gal)	Ambient temperature °C (° F)								
			-50 (-58)	-30 (-22)	-20 (-4)	-10 (14)	0 (32)	10 (50)	20 (68)	30 (86)	40 (104)
Engine oil pan	Engine oil	23.1 (6.1)	★SAE 0W-40								
			SAE 5W-40								
			SAE 15W-40								
DEF/ AdBlue® tank	Mixture of urea and deionized water	48 (12.6)	ISO 22241, High-purity urea + deionized water (32.5:67.5)								
Swing drive	Gear oil	6.2 (1.6)	★SAE 75W-90								
Final drive		4.5 × 2 (1.2 × 2)	SAE 80W-90								
Hydraulic tank	Hydraulic oil	Tank 160 (42.3)	★ISO VG 15								
			ISO VG 32								
		System 275 (72.6)	ISO VG 46, HBHO VG 46★ ³								
			ISO VG 68								
Fuel tank	Diesel fuel★ ¹	400 (106)	★ASTM D975 NO.1								
			ASTM D975 NO.2								
Fitting (grease nipple)	Grease	As required	★NLGI NO.1								
			NLGI NO.2								
Radiator (reservoir tank)	Mixture of antifreeze and soft water★ ²	40 (10.6)	Ethylene glycol base permanent type (50 : 50)								
			★Ethylene glycol base permanent type (60 : 40)								

SAE : Society of Automotive Engineers

API : American Petroleum Institute

ISO : International Organization for Standardization

NLGI : National Lubricating Grease Institute

ASTM : American Society of Testing and Material

DEF : Diesel Exhaust Fluid, DEF compatible with AdBlue®

★ : Cold region (Russia, CIS, Mongolia)

★¹ : Ultra low sulfur diesel
- sulfur content ≤ 15 ppm

★² : Soft water
City water or distilled water

★³ : HD Hyundai Construction Equipment
Bio Hydraulic Oil

※ Using any lubricating oils other than HD Hyundai Construction Equipment genuine products may lead to a deterioration of performance and cause damage to major components.

※ Do not mix HD Hyundai Construction Equipment genuine oil with any other lubricating oil as it may result in damage to the systems of major components.

※ Do not use any engine oil other than that specified above, as it may clog the diesel particulate filter(DPF).

※ For HD Hyundai Construction Equipment genuine lubricating oils and grease for use in regions with extremely low temperatures, please contact your local HD Hyundai Construction Equipment dealer.