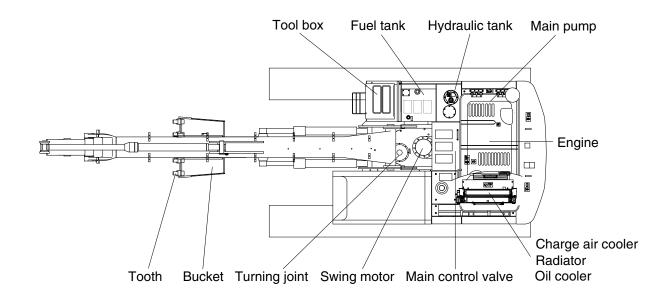
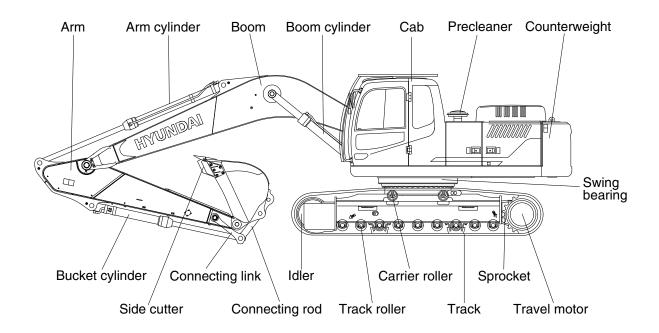
1. MAJOR COMPONENT

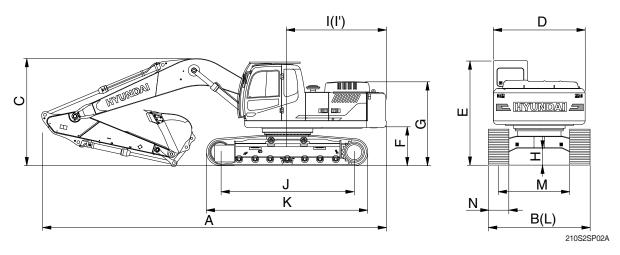




210S2SP01A

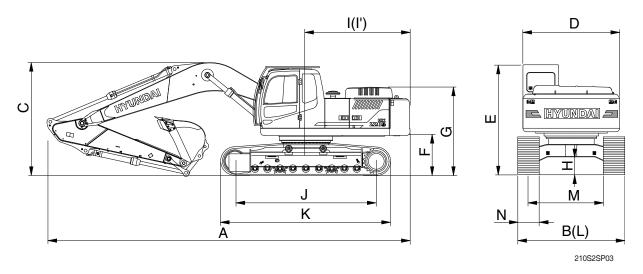
2. SPECIFICATIONS

1) HX210S, MONO BOOM



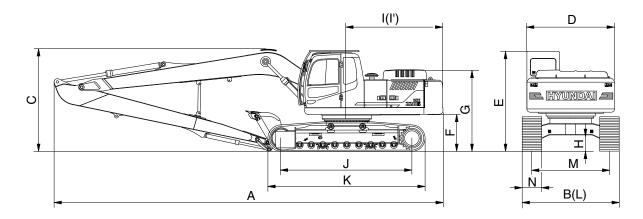
		Uı	nit		Specification				
Description		(ft :)	Boom		5.68 (18' 8")				
Description		m (ft-in)	Arm	2.92 (9' 7")	2.00 (6' 7")	2.40 (7' 10")			
		mm (in)	Shoe	600 (24)					
Operating weight		kg (lb)		20830 (45920)	20670 (45570)	20740 (45720)			
Bucket capacity (SAE heaped), stand	dard	m³ (yd³)	0.92 (1.20)	0.92 (1.20)	0.92 (1.20)			
Overall length	Α			9530 (31' 3")	9650 (31' 8")	9570 (31' 5")			
Overall width	В			2800 (9' 2")	2800 (9' 2")	2800 (9' 2")			
Overall height of boom	С			3030 (9' 11")	3200 (10' 6")	3110 (10' 2")			
Superstructure width	D			2700 (8' 10")	2700 (8' 10")	2700 (8' 10")			
Overall height of cab	Е			3000 (9' 10")	3000 (9' 10")	3000 (9' 10")			
Ground clearance of counterweight	F			1060 (3' 6")	1060 (3' 6")	1060 (3' 6")			
Overall height of engine hood	G			2380 (7' 10")	2380 (7' 10")	2380 (7' 10")			
Overall height of handrail	G'		(f4 :)	2970 (9' 9")	2970 (9' 9")	2970 (9' 9")			
Minimum ground clearance	Н	mm (ft-in)		470 (1' 7")	470 (1' 7")	470 (1' 7")			
Rear-end distance	I			2770 (9' 1")	2770 (9' 1")	2770 (9' 1")			
Rear-end swing radius	ľ			2845 (9' 4")	2845 (9' 4")	2845 (9' 4")			
Distance between tumblers	J			3360 (11' 0")	3360 (11' 0")	3360 (11' 0")			
Undercarriage length	K			4170 (13' 8")	4170 (13' 8")	4170 (13' 8")			
Undercarriage width	L			2800 (9' 2")	2800 (9' 2")	2800 (9' 2")			
Track gauge	М			2200 (7' 3")	2200 (7' 3")	2200 (7' 3")			
Track shoe width, standard	N			600 (2' 0")	600 (2' 0")	600 (2' 0")			
Travel speed (low/high)		km/hr	(mph)	3.5/5.7 (2.2/3.5)	3.5/5.7 (2.2/3.5)	3.5/5.7 (2.2/3.5)			
Swing speed		rp	m	12.2	12.2	12.2			
Gradeability		Degre	e (%)	35 (70)	35 (70)	35 (70)			
Ground pressure		kgf/cm	n² (psi)	0.48 (6.81)	0.48 (6.76)	0.48 (6.78)			
Max traction force		kg	(lb)	21100 (46517)	21100 (46517)	21100 (46517)			

2) HX220S, MONO BOOM



		Uı	nit		Specification				
Description		/ft :\	Boom		5.68 (20' 6")				
Description		m (ft-in)	Arm	2.92 (9' 7")	2.00 (6' 7")	2.40 (7' 10")			
		mm (in)	Shoe	600 (24)					
Operating weight		kg (lb)		21260 (46870)	21100 (46520)	21160 (46650)			
Bucket capacity (SAE heaped), stand	dard	m³ (yd³)	0.92 (1.20)	0.92 (1.20)	0.92 (1.20)			
Overall length	Α			9530 (31' 3")	9650 (31' 8")	9570 (31' 5")			
Overall width	В			2990 (9' 10")	2990 (9' 10")	2990 (9' 10")			
Overall height of boom	С			3030 (9' 11")	3200 (10' 6")	3110 (10' 2")			
Superstructure width	D			2700 (8' 10")	2700 (8' 10")	2700 (8' 10")			
Overall height of cab	Е			3000 (9' 10")	3000 (9' 10")	3000 (9' 10")			
Ground clearance of counterweight	F			1060 (3' 6")	1060 (3' 6")	1060 (3' 6")			
Overall height of engine hood	G			2380 (7' 10")	2380 (7' 10")	2380 (7' 10")			
Overall height of handrail	G'		/ft :\	2970 (9' 9")	2970 (9' 9")	2970 (9' 9")			
Minimum ground clearance	Н	mm (ft-in)		470 (1' 7")	470 (1' 7")	470 (1' 7")			
Rear-end distance	I			2770 (9' 1")	2770 (9' 1")	2770 (9' 1")			
Rear-end swing radius	ľ			2845 (9' 4")	2845 (9' 4")	2845 (9' 4")			
Distance between tumblers	J			3650 (12' 0")	3650 (12' 0")	3650 (12' 0")			
Undercarriage length	K			4440 (14' 7")	4440 (14' 7")	4440 (14' 7")			
Undercarriage width	L			2990 (9' 10")	2990 (9' 10")	2990 (9' 10")			
Track gauge	М			2390 (7' 10")	2390 (7' 10")	2390 (7' 10")			
Track shoe width, standard	N			600 (2' 0")	600 (2' 0")	600 (2' 0")			
Travel speed (low/high)		km/hr	(mph)	3.5/5.7 (2.2/3.5)	3.5/5.7 (2.2/3.5)	3.5/5.7 (2.2/3.5)			
Swing speed		rp	m	12.2	12.2	12.2			
Gradeability		Degre	ee (%)	35 (70)	35 (70)	35 (70)			
Ground pressure		kgf/cm	n² (psi)	0.45 (6.45)	0.45 (6.41)	0.45 (6.42)			
Max traction force		kg	(lb)	21100 (46517)	21100 (46517)	21100 (46517)			

3) HX220S LR

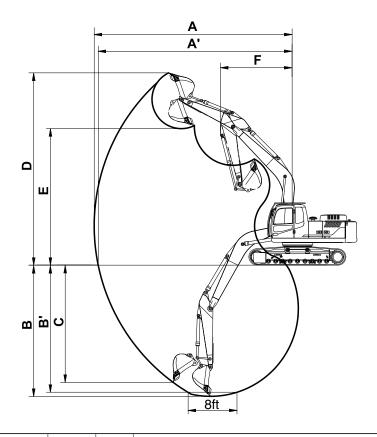


210S2SP10

		Unit		Specification
Description		(ft :)	Boom	8.2 (26' 11")
Description		m (ft-in)	Arm	6.30 (20' 8")
		mm (in)	Shoe	800 (32)
Operating weight		kg (lb)		24390 (53770)
Bucket capacity (SAE heaped), standard		m³ (yd³)		0.52 (0.68)
Overall length	Α			12030 (39' 6")
Overall width	В			3190 (10' 6")
Overall height of boom	С			3280 (10' 9")
Superstructure width	D			2700 (8' 10")
Overall height of cab	Е			3000 (9' 10")
Ground clearance of counterweight	F			1060 (3' 6")
Overall height of engine hood	G			2380 (7' 10")
Overall height of handrail	G'		.\	2970 (9' 9")
Minimum ground clearance	Н	mm (ft-ir	1)	470 (1' 7")
Rear-end distance	I			2770 (9' 1")
Rear-end swing radius	ľ			2845 (9' 4")
Distance between tumblers	J			3650 (12' 0")
Undercarriage length	K			4440 (14' 7")
Undercarriage width	L			3190 (10' 6")
Track gauge	М			2390 (7' 10")
Track shoe width, standard	N			800 (2'7")
Travel speed (low/high)		km/hr (mp	oh)	3.66/5.76
Swing speed	rpm		12.4	
Gradeability	Degree (9	%)	35 (70)	
Ground pressure	kgf/cm² (psi)		0.39 (5.55)	
Max traction force		kg (lb)		20832 (45930)

3. WORKING RANGE AND DIGGING FORCE

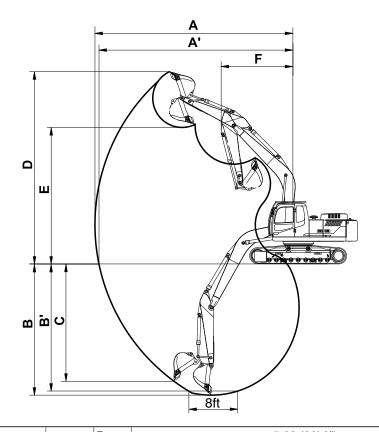
1) HX210S, MONO BOOM



210S2SP04A

Description	m (ft in)	Boom		5.68 (18' 8")		
Description	m (ft-in)	Arm	2.92 (9' 7")	2.00 (6' 7")	2.40 (7' 10")	
Max digging reach		Α	9,980 (32' 9")	9,140 (30' 0")	9,500 (31' 2")	
Max digging reach on ground		A'	9,820 (32' 3")	8,960 (29' 5")	9,330 (30' 7")	
Max digging depth		В	6,730 (22' 1")	5,820 (19' 1")	6,220 (20' 5")	
Max digging depth (8 ft level)	mm (ft-in)	B'	6,560 (21' 6")	5,580 (18' 4")	6,010 (19' 9")	
Max vertical wall digging depth]	С	6,280 (20' 7")	5,280 (17' 4")	5,720 (18' 9")	
Max digging height		D	9,600 (31' 6")	9,140 (30' 0")	9,340 (30' 8")	
Max dumping height		Е	6,780 (22' 3")	6,330 (20' 9")	6,520 (21' 5")	
Min swing radius		F	3,670 (12' 0")	3,750 (12' 4")	3,740 (12' 3")	
	kN		133.4	133.4	133.4	
	kgf	SAE	13600	13600	13600	
Puokot diagina force	lbf		29980	29980	29980	
Bucket digging force	kN		152.0	152.0	152.0	
	kgf	ISO	15500	15500	15500	
	lbf		34170	34170	34170	
	kN		102.0	144.2	119.6	
	kgf	SAE	10400	14700	12200	
Arm diaging force	lbf		22930	32410	26900	
Arm digging force	kN		106.9	151.0	125.5	
	kgf	ISO	10900	15400	12800	
	lbf		24030	33950	28220	

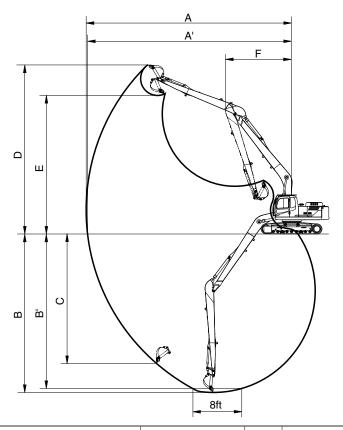
2) HX220S, MONO BOOM



210S2SP04A

Description	m (ft in)	Boom		5.68 (20' 6")	
Description	m (ft-in)	Arm	2.92 (9' 7")	2.00 (6' 7")	2.40 (7' 10")
Max digging reach		Α	9,980 (32' 9")	9,140 (30' 0")	9,500 (31' 2")
Max digging reach on ground		A'	9,820 (32' 3")	8,960 (29' 5")	9,330 (30' 7")
Max digging depth		В	6,730 (22' 1")	5,820 (19' 1")	6,220 (20' 5")
Max digging depth (8 ft level)	mm (ft-in)	B'	6,560 (21' 6")	5,580 (18' 4")	6,010 (19' 9")
Max vertical wall digging depth]	С	6,280 (20' 7")	5,280 (17' 4")	5,720 (18' 9")
Max digging height		D	9,600 (31' 6")	9,140 (30' 0")	9,340 (30' 8")
Max dumping height		Е	6,780 (22' 3")	6,330 (20' 9")	6,520 (21' 5")
Min swing radius		F	3,670 (12' 0")	3,750 (12' 4")	3,740 (12' 3")
	kN		133.4	133.4	133.4
	kgf	SAE	13600	13600	13600
Puokot diagina force	lbf		29980	29980	29980
Bucket digging force	kN		152.0	152.0	152.0
	kgf	ISO	15500	15500	15500
	lbf		34170	34170	34170
	kN		102.0	144.2	119.6
	kgf	SAE	10400	14700	12200
Arm diaging force	lbf		22930	32410	26900
Arm digging force	kN		106.9	151.0	125.5
	kgf	ISO	10900	15400	12800
	lbf		24030	33950	28220

3) HX220S LR



210S2SP11

Doggription	m (ft-in)	Boom	8.2 (26' 11")
Description	111 (11-111)	Arm	6.30 (20' 8")
Max digging reach		Α	15220 (49' 11")
Max digging reach on ground		A'	15120 (49' 7")
Max digging depth		В	11760 (38' 7")
Max digging depth (8 ft level)	mm (ft in)	B'	11650 (38' 3")
Max vertical wall digging depth	mm (ft-in)	С	9610 (31' 6")
Max digging height		D	12550 (41' 2")
Max dumping height		E	10280 (33' 9")
Min swing radius		F	4870 (16' 0")
	kN		72.6
	kgf	SAE	7400
Puelot diaging force	lbf		16310
Bucket digging force	kN		83.4
	kgf	ISO	8500
	lbf		18740
	kN		49.0
	kgf	SAE	5000
Aven diaging force	lbf		11020
Arm digging force	kN		50.0
	kgf	ISO	5100
	lbf		11240

4. WEIGHT

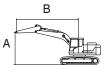
Item	HX2	210S	HX2	20S		
item	kg	lb	kg	lb		
Upperstructure assembly	8950	19730	+			
Main frame weld assembly	2600	5730	+	_		
Engine assembly	437	963	+	=		
Main pump assembly	120	265	+	=		
Main control valve assembly	200	440	+	_		
Swing motor assembly	190	420	+	=		
Hydraulic oil tank assembly	240	530	+	=		
Fuel tank assembly	195	430	+	_		
Counterweight	3600	7940	+	=		
Cab assembly	310	680	+	=		
Lower chassis assembly	8060	17770	8700	19180		
Track frame weld assembly	2545	5611	2720	6000		
Swing bearing	290	639	+	_		
Travel motor assembly	305	670	+	_		
Turning joint	55	120	+	_		
Track recoil spring	140	309	+	_		
Idler	151	333	+	=		
Carrier roller	21	46	+	_		
Track roller	48	106	+			
Track-chain assembly (600 mm standard triple grouser shoe)	1353	2983	1356	2989		
Front attachment assembly (5.68 m boom, 2.92 m arm, 0.87 m³ SAE heaped bucket)	4030	8880	+	_		
5.68 m boom assembly	1520	3350	+	_		
2.92 m arm assembly	750	1650	÷	_		
0.92 m³ SAE heaped bucket	heaped bucket 765 1690					
Boom cylinder assembly	180	400	←			
Arm cylinder assembly	290	640	+	_		
Bucket cylinder assembly	175	390	+	_		
Bucket control link assembly	170	370	+	_		

5. LIFTING CAPACITIES

Model	Туре	Boom	Arm	Counterweight Shoe		Wheel	Do	zer	Outr	gger
HX210S	MONO	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HX2105	воом	5680	2000	3600	600	-	-	-	-	-

· Rating over-front

· 🖶 : Rating over-side or 360 degree



					Lift-point	radius (B)				At	max. rea	ch
Lift-po	int	3.0 m	(9.8 ft)	4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)	Сар	acity	Reach
height (A)				ŀ		ŀ		·		U	#	m (ft)
7.5 m	kg									*5710	*5710	5.00
(24.6 ft)	lb									*12590	*12590	(16.4)
6.0 m	kg					*5450	4330			*5520	3920	6.35
(19.7 ft)	lb					*12020	9550			*12170	8640	(20.8)
4.5 m	kg			*6890	6510	*5800	4200			4900	3170	7.14
(14.8 ft)	lb			*15190	14350	*12790	9260			10800	6990	(23.4)
3.0 m	kg			*8680	5970	6260	3990	4440	2860	4400	2830	7.55
(9.8 ft)	lb			*19140	13160	13800	8800	9790	6310	9700	6240	(24.8)
1.5 m	kg					6040	3790	4360	2780	4240	2710	7.64
(4.9 ft)	lb					13320	8360	9610	6130	9350	5970	(25.1)
0.0 m	kg			9190	5450	5910	3670			4370	2770	7.43
(0.0 ft)	lb			20260	12020	13030	8090			9630	6110	(24.4)
-1.5 m	kg			9210	5460	5900	3660			4880	3080	6.88
(-4.9 ft)	lb			20300	12040	13010	8070			10760	6790	(22.6)
-3.0 m	kg	*12380	10760	*9130	5600					6190	3880	5.90
(-9.8 ft)	lb	*27290	23720	*20130	12350					13650	8550	(19.4)

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.

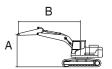
The difference between the weight of a work tool attachment must be subtracted.

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

Model	Туре	Boom	Arm	Counterweight	Shoe	Wheel	Do	zer	Outri	gger
HX210S	MONO	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
ПЛ2105	воом	5680	2400	3600	600	-	-	-	-	-

· Rating over-front

· 🖶 : Rating over-side or 360 degree



				Lift-point	radius (B)				At	max. rea	ch
Lift-point	3.0 m	(9.8 ft)	4.5 m (14.8 ft)		6.0 m (6.0 m (19.7 ft)		24.6 ft)	Capa	acity	Reach
height (A)	U	#	·	#	ŀ	#	Ů		·		m (ft)
7.5 m kg									*5080	4920	5.58
(24.6 ft) lb									*11200	10850	(18.3)
6.0 m kg					*5000	4380			*4620	3500	6.82
(19.7 ft) lb					*11020	9660			*10190	7720	(22.4)
4.5 m kg			*6340	*6340	*5440	4240	4530	2930	4480	2890	7.55
(14.8 ft) lb			*13980	*13980	*11990	9350	9990	6460	9880	6370	(24.8)
3.0 m kg			*8140	6060	*6230	4010	4450	2860	4060	2600	7.94
(9.8 ft) lb			*17950	13360	*13730	8840	9810	6310	8950	5730	(26.1)
1.5 m kg			9390	5620	6040	3790	4340	2760	3920	2490	8.03
(4.9 ft) lb			20700	12390	13320	8360	9570	6080	8640	5490	(26.3)
0.0 m kg			9160	5420	5880	3650	4270	2690	4020	2540	7.83
(0.0 ft) lb			20190	11950	12960	8050	9410	5930	8860	5600	(25.7)
-1.5 m kg	*10830	10370	9130	5390	5840	3610			4430	2790	7.31
(-4.9 ft) lb	*23880	22860	20130	11880	12870	7960			9770	6150	(24.0)
-3.0 m kg	*13260	10570	9250	5500	5930	3680			5420	3400	6.40
(-9.8 ft) lb	*29230	23300	20390	12130	13070	8110			11950	7500	(21.0)
-4.5 m kg			*7160	5790					*6330	5180	4.89
(-14.8 ft) lb			*15790	12760					*13960	11420	(16.0)

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.

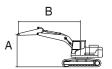
The difference between the weight of a work tool attachment must be subtracted.

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

Model	Туре	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX210S	MONO	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HAZ105	BOOM	5680	2920	3600	600	-	-	-	-	-

· Pating over-front

· 🖶 : Rating over-side or 360 degree



					L	ift-point	radius (B)				At	max. rea	ıch
Lift-poi	int	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)	Capa	acity	Reach
height ((A)	Ů	#	P	#	U	#	U	#	J	#	Ů	#	m (ft)
7.5 m	kg							*4450	4450			*3370	*3370	6.26
(24.6 ft)	lb							*9810	9810			*7430	*7430	(20.5)
6.0 m	kg							*4440	*4440			*3100	3080	7.38
(19.7 ft)	lb							*9790	*9790			*6830	6790	(24.2)
4.5 m	kg							*4960	4280	4570	2960	*3020	2590	8.07
(14.8 ft)	lb							*10930	9440	10080	6530	*6660	5710	(26.5)
3.0 m	kg					*7400	6190	*5790	4030	4450	2850	*3070	2340	8.43
(9.8 ft)	lb					*16310	13650	*12760	8880	9810	6280	*6770	5160	(27.7)
1.5 m	kg					*9130	5670	6050	3790	4320	2730	*3250	2240	8.51
(4.9 ft)	lb					*20130	12500	13340	8360	9520	6020	*7170	4940	(27.9)
0.0 m	kg			*5920	*5920	9140	5390	5850	3610	4220	2640	*3590	2280	8.32
(0.0 ft)	lb			*13050	*13050	20150	11880	12900	7960	9300	5820	*7910	5030	(27.3)
-1.5 m	kg	*6500	*6500	*10400	10130	9040	5300	5770	3530	4190	2610	3950	2470	7.84
(-4.9 ft)	lb	*14330	*14330	*22930	22330	19930	11680	12720	7780	9240	5750	8710	5450	(25.7)
-3.0 m	kg	*11120	*11120	*14170	10310	9110	5360	5800	3560			4680	2920	7.00
(-9.8 ft)	lb	*24520	*24520	*31240	22730	20080	11820	12790	7850			10320	6440	(23.0)
-4.5 m	kg			*11620	10680	*8190	5570					*6080	4080	5.65
(-14.8 ft)	lb			*25620	23550	*18060	12280					*13400	8990	(18.5)

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.

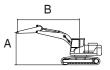
The difference between the weight of a work tool attachment must be subtracted.

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

Model	Туре	Boom	Arm	Counterweight	Shoe	Wheel	Do	zer	Outri	gger
HX220S	MONO	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
ΠΛΖΖUδ	BOOM	5680	2000	3600	600	-	-	-	-	-

· Rating over-front

· 🖶 : Rating over-side or 360 degree



					Lift-point	radius (B)				At	max. rea	ch
Lift-poi		3.0 m	(9.8 ft)	4.5 m (14.8 ft)	6.0 m (19.7 ft)	7.5 m (24.6 ft)	Сар	acity	Reach
height ((A)		#			Ů				U	#	m (ft)
7.5 m (24.6 ft)	kg lb									*5710 *12590	*5710 *12590	5.00 (16.4)
6.0 m (19.7 ft)	kg lb					*5450 *12020	4820 10630			*5520 *12170	4370 9630	6.35 (20.8)
4.5 m (14.8 ft)	kg lb			*6880 *15170	*6880 *15170	*5800 *12790	4690 10340			5520 12170	3550 7830	7.14 (23.4)
3.0 m (9.8 ft)	kg lb			*8680 *19140	6730 14840	*6530 *14400	4470 9850	5010 11050	3200 7050	4960 10930	3170 6990	7.55 (24.8)
1.5 m	kg			19140	14040	6860	4270	4930	3120	4800	3040	7.64
(4.9 ft) 0.0 m	lb kg			*10510	6190	15120 6730	9410	10870	6880	10580 4950	6700 3120	(25.1) 7.43
(0.0 ft) -1.5 m	lb kg			*23170 *10220	13650 6210	14840 6720	9150 4140			10910 5530	6880 3470	(24.4) 6.88
(-4.9 ft) -3.0 m	lb kg	*12380	*12380	*22530 *9130	13690 6350	14820	9130			12190 *6670	7650 4360	(22.6) 5.91
(-9.8 ft)	lb	*27290	*27290	*20130	14000					*14700	9610	(19.4)

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.

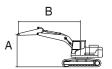
The difference between the weight of a work tool attachment must be subtracted.

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

Model	Туре	Boom	Arm	Counterweight	Shoe	Wheel	Do	zer	Outri	gger
HX220S	MONO	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
ΠΛ2203	BOOM	5680	2400	3600	600	-	-	-	-	-

· Rating over-front

· 🖶 : Rating over-side or 360 degree



					Lift-point	radius (B)				At	max. rea	ch
Lift-poin	t	3.0 m	(9.8 ft)	4.5 m (14.8 ft)	6.0 m (19.7 ft)	7.5 m (24.6 ft)	Сар	acity	Reach
height (A	A)	U	#	·	#	·		Ů		U		m (ft)
	κg									*5080	*5080	5.58
(24.6 ft)	lb									*11200	*11200	(18.3)
6.0 m k	κg					*5000	4870			*4620	3910	6.81
(19.7 ft) I	lb					*11020	10740			*10190	8620	(22.4)
4.5 m k	κg			*6340	*6340	*5440	4720	*4990	3280	*4490	3240	7.55
(14.8 ft) I	lb			*13980	*13980	*11990	10410	*11000	7230	*9900	7140	(24.8)
3.0 m k	κg			*8130	6830	*6220	4490	5020	3200	*4580	2920	7.94
(9.8 ft) I	lb			*17920	15060	*13710	9900	11070	7050	*10100	6440	(26.1)
1.5 m k	κg			*9700	6370	6870	4260	4910	3100	4430	2810	8.03
(4.9 ft) I	lb			*21380	14040	15150	9390	10820	6830	9770	6190	(26.3)
0.0 m k	κg			*10400	6170	6710	4120	4840	3040	4550	2870	7.83
(0.0 ft)	lb			*22930	13600	14790	9080	10670	6700	10030	6330	(25.7)
-1.5 m k	κg	*10820	*10820	*10330	6140	6660	4080			5020	3140	7.31
(-4.9 ft) I	lb	*23850	*23850	*22770	13540	14680	8990			11070	6920	(24.0)
-3.0 m k	κg	*13260	12250	*9500	6250	6750	4160			6160	3830	6.41
(-9.8 ft) I	lb	*29230	27010	*20940	13780	14880	9170			13580	8440	(21.0)
-4.5 m k	κg			*7160	6550					*6330	5840	4.89
(-14.8 ft) I	lb			*15790	14440					*13960	12870	(16.0)

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.

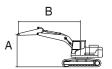
The difference between the weight of a work tool attachment must be subtracted.

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

Model	Туре	Boom	Arm	Counterweight	Shoe	Wheel	Do	zer	Outri	gger
HX220S	MONO	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
ΠΛΖΖ03	BOOM	5680	2920	3600	600	-	-	-	-	-

· Pating over-front

· 🖶 : Rating over-side or 360 degree



					L	ift-point	radius (B)				At	max. rea	ıch
Lift-poi	int	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)	Capa	acity	Reach
height ((A)	Ů	#	ŀ	#	U		Ů	‡	P	#	Ů	#	m (ft)
7.5 m	kg							*4450	*4450			*3370	*3370	6.26
(24.6 ft)	lb							*9810	*9810			*7430	*7430	(20.5)
6.0 m	kg							*4440	*4440			*3100	*3100	7.38
(19.7 ft)	lb							*9790	*9790			*6830	*6830	(24.2)
4.5 m	kg							*4950	4770	*4700	3310	*3020	2900	8.07
(14.8 ft)	lb							*10910	10520	*10360	7300	*6660	6390	(26.5)
3.0 m	kg					*7390	6960	*5790	4520	5030	3200	*3070	2640	8.43
(9.8 ft)	lb					*16290	15340	*12760	9960	11090	7050	*6770	5820	(27.7)
1.5 m	kg					*9130	6430	*6670	4270	4890	3080	*3250	2530	8.51
(4.9 ft)	lb					*20130	14180	*14700	9410	10780	6790	*7170	5580	(27.9)
0.0 m	kg			*5920	*5920	*10130	6130	6680	4090	4790	2990	*3590	2580	8.32
(0.0 ft)	lb			*13050	*13050	*22330	13510	14730	9020	10560	6590	*7910	5690	(27.3)
-1.5 m	kg	*6500	*6500	*10390	*10390	*10340	6050	6590	4010	4750	2950	*4200	2790	7.84
(-4.9 ft)	lb	*14330	*14330	*22910	*22910	*22800	13340	14530	8840	10470	6500	*9260	6150	(25.7)
-3.0 m	kg	*11110	*11110	*14180	11990	*9820	6110	6620	4040			5310	3300	7.01
(-9.8 ft)	lb	*24490	*24490	*31260	26430	*21650	13470	14590	8910			11710	7280	(23.0)
-4.5 m	kg			*11620	*11620	*8200	6330					*6080	4600	5.66
(-14.8 ft)	lb			*25620	*25620	*18080	13960					*13400	10140	(18.6)

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.

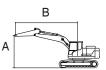
The difference between the weight of a work tool attachment must be subtracted.

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

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Do	zer	Outri	gger
HX220S	MONO	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
LR	BOOM	8200	6300	5300	800	-	-	-	-	-

: Rating over-front

· 🖶 : Rating over-side or 360 degree



									Lift	-point	radius	(B)								At m	ax. r	each
Lift-p		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)	Сар	acity	Reach
heigh	it (A)		#	ŀ	#	ŀ	#	ŀ	#	ŀ	#	ŀ	#	ŀ		ŀ	#	ŀ	#	ŀ	#	m (ft)
10.5m	kg													*1210	*1210					*900	*900	10.88
34.4ft	lb													*2670	*2670					*1980	*1980	(35.7)
9.0m	kg																			*850	*850	11.94
29.5ft	lb																			*1870	*1870	(39.2)
7.5m	kg													*1910	*1910	*1440	*1440			*820	*820	12.73
24.6ft	lb													*4210	*4210	*3170	*3170			*1810	*1810	(41.8)
6.0m	kg													*2030	*2030	*1810	*1810			*820	*820	13.31
19.7ft	lb													*4480	*4480	*3990	*3990			*1810	*1810	(43.7)
4.5m	kg											*2330	*2330	*2220	*2220	*2110	1900	*1080	*1080	*830	*830	13.70
14.8ft	lb											*5140	*5140	*4890	*4890	*4650	4190	*2380	*2380	*1830	*1830	(45.0)
3.0m	kg									*3030	*3030	*2680	*2680	*2450	2320	*2300	1820	*1370	*1370	*860	*860	13.92
9.8ft	lb									*6680	*6680	*5910	*5910	*5400	5110	*5070	4010	*3020	*3020	*1900	*1900	(45.7)
1.5m	kg			*2840	*2840	*6410	*6410	*4540	*4540	*3600	*3600	*3050	2800	*2700	2180	*2470	1730	*1520	1380	*910	*910	13.97
4.9ft	lb			*6260	*6260	*14130	*14130	*10010	*10010	*7940	*7940	*6720	6170	*5950	4810	*5450	3810	*3350	3040	*2010	*2010	(45.8)
0.0m	kg			*2450	*2450	*6310	*6310	*5340	4570	*4120	3380	*3400	2600	*2950	2060	*2640	1650	*1500	1330	*980	*980	13.85
0.0ft	lb			*5400	*5400	*13910	*13910	*11770	10080	*9080	7450	*7500	5730	*6500	4540	*5820	3640	*3310	2930	*2160	*2160	(45.5)
-1.5m	kg	*2020	*2020	*3010	*3010	*5640	*5640	*5920	4250	*4540	3160	*3710	2450	*3160	1950	2640	1580	*1200	*1200	*1080	*1080	13.57
-4.9ft	lb	*4450	*4450	*6640	*6640	*12430	*12430	*13050	9370	*10010	6970	*8180	5400	*6970	4300	5820	3480	*2650	*2650	*2380	*2380	(44.5)
-3.0m	kg	*2900	*2900	*3830	*3830	*6080	*6080	*6270	4080	*4830	3010	3910	2340	3140	1880	2600	1540			*1220	*1220	13.11
-9.8ft	lb	*6390	*6390	*8440	*8440	*13400	*13400	*13820	8990	*10650	6640	8620	5160	6920	4140	5730	3400			*2690	*2690	(43.0)
-4.5m	kg	*3820	*3820	*4830	*4830	*7050	6110	*6400	4020	*4970	2950	3850	2290	3110	1850	*2410	1530			*1420	*1420	12.45
-14.8ft	lb	*8420	*8420	*10650	*10650	*15540	13470	*14110	8860	*10960	6500	8490	5050	6860	4080	*5310	3370			*3130	*3130	(40.9)
-6.0m	kg	*4830	*4830	*6000	*6000	*8460	6210	*6300	4050	*4940	2950	3860	2300	3130	1860					*1750	1650	11.56
-19.7ft	lb	*10650	*10650	*13230	*13230	*18650	13690	*13890	8930	*10890	6500	8510	5070	6900	4100					*3860	3640	(37.9)
-7.5m	kg	*5980	*5980	*7440	*7440	*7880	6400	*5940	4160	*4690	3030	*3780	2370							*2330	1980	10.37
-24.6ft	lb	*13180	*13180	*16400	*16400	*17370	14110	*13100	9170	*10340	6680	*8330	5220							*5140	4370	(34.0)
-9.0m	kg			*9320	*9320	*6820	6700	*5210	4360	*4070	3200									*3240	2620	8.77
-29.5ft	lb			*20550	*20550	*15040	14770	*11490	9610	*8970	7050									*7140	5780	(28.8)

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

6. BUCKET SELECTION GUIDE

1) HX210S, 3600 KG COUNTERWEIGHT







Heavy duty (without side cutter)



Rock heavy duty



Long reach

	Сара	acity	Width			Re	MONO ecommendati	ion
Туре	SAE Heaped	CECE heaped	Without side cutter	Weight	Tooth		8 m (18' 8") Bo	
	m³ (yd³)	m³ (yd³)	mm (in)	kg (lb)	EA	2.10 m (6' 7") Arm	2.4 m (7' 10") Arm	2.92 m (9' 7") Arm
	0.92 (1.20)	0.80 (1.05)	1,082 (42.6')	725 (1,600)	5	•	•	
General bucket	1.10 (1.44)	0.96 (1.26)	1,320 (52.0")	830 (1,830)	5			A
	1.20 (1.57)	1.10 (1.44)	1,332 (52.4")	810 (1,790)	5		A	•
Heavy duty	0.90 (1.18)	0.80 (1.05)	1,082 (42.6")	830 (1,830)	5	•	0	
Rock	0.87 (1.14)	0.75 (0.98)	1,140 (44.9")	900 (1,980)	5	•	0	
heavy duty	1.20 (1.57)	1.00 (1.31)	1,410 (55.5")	1,030 (2,270)	5		A	X

	Applicable for materials with density of 2100 kg/m³ (3500	lb/yd³) or less
	Applicable for materials with density of 1800 kg/m 3 (3000	lb/yd³) or less
	Applicable for materials with density of 1500 kg/m³ (2500	lb/yd³) or less
	Applicable for materials with density of 1200 kg/m 3 (2000	lb/yd³) 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.

Machine Serial No.: -#4560, #4880-#4922 2) HX210S, 4200 KG COUNTERWEIGHT







Heavy duty (without side cutter)



Rock heavy duty



Long reach

	Can	acity	Width				MONO	
	Сар	acity	VVIGITI			Re	ecommendat	ion
Туре	SAE Heaped	CECE heaped	Without side cutter	Weight	Tooth	5.6	8 m (18' 8") Bo	oom
	m ³ (yd ³)	m³ (yd³)	mm (in)	kg (lb)	EA	2.10 m (6' 7") Arm	2.4 m (7' 10") Arm	2.92 m (9' 7") Arm
	0.92 (1.20)	(1.20) (1.05)		725 (1,600)	5	•	•	0
General bucket	1.10 (1.44)	0.96 (1.26)	1,320 (52.0")	830 (1,830)	5	•		
	1.20 (1.57)	1.10 (1.44)	1,332 (52.4")	810 (1,790)	5	•		A
Heavy duty	0.90 (1.18)	0.80 (1.05)	1,082 (42.6")	830 (1,830)	5	•	•	0
Rock	0.87 (1.14)	0.75 (0.98)	1,140 (44.9")	900 (1,980)	5	•	•	•
heavy duty	1.20 (1.57)	1.00 (1.31)	1,410 (55.5")	1,030 (2,270)	5			A

	Applicable for materials with density of 2100 kg/m 3 (3500	lb/yd³) or less
0	Applicable for materials with density of 1800 kg/m 3 (3000	lb/yd³) or less
	Applicable for materials with density of 1500 kg/m 3 (2500	lb/yd³) or less
	Applicable for materials with density of 1200 kg/m 3 (2000	lb/yd³) 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.

Machine Serial No.: -#4560, #4880-#4922 3) HX220S, 3600 KG COUNTERWEIGHT







Heavy duty (without side cutter)



Rock heavy duty



Long reach

	Con	ooit (Width			MONO		
	Сар	acity	VVIGITI			Recommendation		
Туре	SAE Heaped	CECE heaped	Without side cutter	Weight	Tooth	5.66	8 m (18' 8") Bo	oom
	m ³ (yd ³)	m³ (yd³)	mm (in)	kg (lb)	EA	2.10 m (6' 7')Arm	2.4 m (7' 10") Arm	2.92 m (9' 7") Arm
	0.92 (1.20)	0.80 (1.05)	1,082 (42.6')	725 (1,600)	5	•	•	0
General bucket	1.10 (1.44)	0.96 (1.26)	1,320 (52.0")	830 (1,830)	5	•	•	
	1.20 (1.57)	1.10 (1.44)	1,332 (52.4")	810 (1,790)	5	•		•
Heavy duty	0.90 (1.18)	0.80 (1.05)	1,082 (42.6")	830 (1,830)	5	•	•	0
Rock	0.87 (1.14)	0.75 (0.98)	1,140 (44.9")	900 (1,980)	5	•	•	0
heavy duty	1.20 (1.57)	1.00 (1.31)	1,410 (55.5")	1,030 (2,270)	5			•

	Applicable for materials with density of 2100 kg/m $^{\rm 3}$ (3500	lb/yd³) or less
0	Applicable for materials with density of 1800 $\mbox{kg/m}^{\mbox{\tiny 3}}$ (3000	lb/yd³) or less
	Applicable for materials with density of 1500 kg/m 3 (2500	lb/yd³) or less
	Applicable for materials with density of 1200 kg/m 3 (2000	lb/yd³) 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.

Machine Serial No.: -#4560, #4880-#4922 4) HX220S, 4200 KG COUNTERWEIGHT







Heavy duty (without side cutter)



Rock heavy duty



Long reach

	Сар	acity	Width			Re	MONO ecommendat	ion
Туре	SAE Heaped	CECE heaped	Without side cutter	Weight	Tooth	5.6	8 m (18' 8") Bo	oom
	m³ (yd³)	m³ (yd³)	mm (in)	kg (lb)	EA	2.10 m (6' 7") Arm	2.4 m (7' 10") Arm	2.92 m (9' 7") Arm
	0.92 (1.20)	0.80 (1.05)	1,082 (42.6')	725 (1,600)	5	•	•	•
General bucket	1.10 (1.44)	0.96 (1.26)	1,320 (52.0")	830 (1,830)	5	•	0	
	1.20 (1.57)	1.10 (1.44)	1,332 (52.4")	810 (1,790)	5	•	•	
Heavy duty	0.90 (1.18)	0.80 (1.05)	1,082 (42.6")	830 (1,830)	5	•	•	•
Rock	0.87 (1.14)	0.75 (0.98)	1,140 (44.9")	900 (1,980)	5	•	•	•
heavy duty	1.20 (1.57)	1.00 (1.31)	1,410 (55.5")	1,030 (2,270)	5	•		

	Applicable for materials with density of 2100 kg/m³ (3500	lb/yd³) or less
0	Applicable for materials with density of 1800 $\mbox{kg/m}^{\mbox{\tiny 3}}$ (3000	lb/yd³) 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.

Machine Serial No.: -#4560, #4880-#4922 5) HX220S, 5300 KG COUNTERWEIGHT







Heavy duty (without side cutter)



Rock heavy duty



Long reach

	Con	ooit.	Width				MONO		L/Reach
	Сар	acity	vviatri				Recommendation		
Туре	SAE Heaped	CECE heaped	Without side cutter	Weight	Tooth	5.68	3 m (18' 8") B	oom	8.2 m (26' 11") Boom
	m³ (yd³)	m³ (yd³)	mm (in)	kg (lb)	EA	2.10 m (6' 7") Arm	2.4 m (7' 10") Arm	2.92 m (9' 7") Arm	6.3 m (20' 8") Arm
	0.92 (1.20)	0.80 (1.05)	1,082 (42.6')	725 (1,600)	5	•	•	•	Х
General bucket	1.10 (1.44)	0.96 (1.26)	1,320 (52.0")	830 (1,830)	5	•	•	•	X
	1.20 (1.57)	1.10 (1.44)	1,332 (52.4")	810 (1,790)	5	•	•	•	X
Heavy duty	0.90 (1.18)	0.80 (1.05)	1,082 (42.6")	830 (1,830)	5	•	•	•	X
Rock	0.87 (1.14)	0.75 (0.98)	1,140 (44.9")	900 (1,980)	5	•	•	•	X
heavy duty	1.20 (1.57)	1.00 (1.31)	1,410 (55.5")	1,030 (2,270)	5	•	•	•	X
LR	0.52 (0.68)	0.45 (0.59)	935 (36.8")	460 (1,010)	5	Х	X	X	

	Applicable for materials with density of 2100 kg/m $^{\rm 3}$ (3500	lb/yd³) or less
0	Applicable for materials with density of 1800 kg/m 3 (3000	lb/yd³) or less
	Applicable for materials with density of 1500 kg/m 3 (2500	lb/yd³) or less
	Applicable for materials with density of 1200 kg/m 3 (2000	lb/yd³) 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.

7. UNDERCARRIAGE

1) TRACKS

X-leg type center frame is integrally welded with reinforced box-section track frames. The design includes dry tracks, lubricated rollers, idlers, sprockets, hydraulic track adjusters with shock absorbing springs, and assembled track-type tractor shoes with triple grousers.

2) TYPES OF SHOES

	Model Shapes		Triple grouser				
Model							
	Shoe width	mm (in)	600 (24)	-	-	800 (32)	
HX210S	Operating weight	kg (lb)	20830 (45920)	-	-	21380 (47140)	
HX2105	Ground pressure	kgf/cm² (psi)	0.48 (6.81)	-	-	0.42 (5.99)	
	Overall width	mm (ft-in)	2800 (9' 2")	-	-	3000 (9' 10")	
	Shoe width	mm (in)	600 (24)*	600 (24)	700 (28)	800 (32)	
HX220S	Operating weight	kg (lb)	21260 (46870)	21450 (47290)	21750 (47950)	22040 (48590)	
HAZZUS	Ground pressure	kgf/cm² (psi)	0.45 (6.45)	0.46 (6.51)	0.40 (5.56)	0.35 (5.02)	
	Overall width	mm (ft-in)	2990 (9' 10")	2800 (9' 2")	3090 (10' 2")	3190 (10' 6")	

^{★:8.5} T

3) NUMBER OF ROLLERS AND SHOES ON EACH SIDE

Ite	em	Quantity
Carrie	rollers	2 EA
Track rollars	HX210S	7 EA
Track rollers	HX220S	9 EA
Track shoes	HX210S	46 EA
	HX220S	49 EA

4) 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	А
700 mm triple grouser	Option	В
800 mm triple grouser	Option	С

* Table 2

Category	Applications	Precautions
А	Rocky ground, river beds, normal soil	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
В	Normal soil, soft ground	 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
С	Extremely soft ground (swampy ground)	 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
Model	HD Hyundai Construction Equipment 6BTAA-5.9 (HM5.9)
Туре	4-cycle, turbocharged, charge air cooled, mechanical 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 borexstroke	102×120 mm (4.02 "×4.72 ")
Piston displacement	5900 cc (360 cu in)
Compression ratio	17.3:1
Rated gross horse power (SAE J1995)	148 Hp at 2000rpm (110 kW at 2000 rpm)
Rated net horse power (SAE J1349)	145 Hp at 2000 rpm (108 kW at 2000 rpm)
Maximum torque at 1300 rpm	64 kgf · m (463 lbf · ft)
Engine oil quantity	14 ℓ (3.8 U.S. gal) : -#1289 20 ℓ (5.3 U.S. gal) : #1290-
Dry weight	437 kg (963 lb)
High idling speed	2250 + 50 rpm
Low idling speed	800 \pm 100 rpm
Rated fuel consumption	95 g/Hp · hr at 1200 rpm
Starting motor	Lucas 24V
Alternator	Lucas 24V-75A
Battery	2×12V×100Ah

2) MAIN PUMP

Item	Specification		
Туре	Variable displacement tandem axis piston pumps		
Capacity	2 × 117 cc/rev		
Maximum pressure	350 kgf/cm² (4978 psi)		
Rated oil flow	$2\times234~\ell$ /min (61.8 U.S. gpm/ 51.4 U.K. gpm)		
Rated speed	2000 rpm		

3) GEAR PUMP

Item	Specification		
Туре	Fixed displacement gear pump single stage		
Capacity	15 cc/rev		
Maximum pressure	40 kgf/cm² (568 psi)		
Rated oil flow	30 ℓ /min (7.9 U.S. gpm/6.7 U.K. gpm)		

4) MAIN CONTROL VALVE

Item	Specification		
Туре	9 spools mono-block		
Operating method	Hydraulic pilot system		
Main relief valve pressure	350 kgf/cm² (4978 psi)		
Overload relief valve pressure	400 kgf/cm² (5689 psi)		

5) SWING MOTOR

Item	Specification		
Туре	Two fixed displacement axial piston motor		
Capacity	142.8 cc/rev		
Relief pressure	265 kgf/cm² (3894 psi)		
Braking system	Automatic, spring applied hydraulic released		
Braking torque	63.3 kgf/cm² (470.8 lbf · ft)		
Brake release pressure	20.9~35.5 kgf/cm² (297~505 psi)		
Reduction gear type	2 - stage planetary		
Swing speed	12.2rpm		

6) TRAVEL MOTOR

Item	Specification		
Туре	Variable displacement axial piston motor		
Relief pressure	350 kgf/cm² (4978 psi)		
Reduction gear type	2-stage planetary		
Braking system	Automatic, spring applied hydraulic released		
Brake release pressure	13 kgf/cm² (182 psi)		
Braking torque	65.1 kgf · m (470 lbf · ft)		

7) REMOTE CONTROL VALVE

Item		Specification		
Туре		Pressure reducing type		
	Minimum	6.5 kgf/cm² (92 psi)		
Operating pressure	Maximum	26 kgf/cm² (370 psi)		
0: 1	Lever	61 mm (2.4 in)		
Single operation stroke	Pedal	123 mm (4.84 in)		

8) CYLINDER

Item		Specification		
Bore dia × Rod dia × Stroke		Ø120× Ø85× 1290 mm		
Boom cylinder	Cushion	Extend only		
Arm cylinder	Bore dia \times Rod dia \times Stroke	Ø140 × Ø100 × 1510 mm		
	Cushion	Extend and retract		
Bucket cylinder	Bore dia \times Rod dia \times Stroke	Ø120× Ø85× 1055 mm		
	Cushion	Extend only		

^{*} Discoloration of cylinder rod can occur when the friction reduction additive of lubrication oil spreads on the rod surface.

9) SHOE

Ite	Item		Ground pressure	Link quantity	Overall width	
Standard		600 mm (24")	600 mm (24") 0.48 kgf/cm² (6.81 psi)		2800 mm (9' 2")	
HX210S Option	Option	800 mm (32")	0.42 kgf/cm² (5.99 psi)	46	3000 mm (9' 10")	
HX220S	Standard	600 mm (24")	0.45 kgf/cm² (6.45 psi)	49	2990 mm (9' 10")	
	Option	600 mm (24")	0.46 kgf/cm² (6.51 psi)	49	2800 mm (9' 2")	
		700 mm (28")	0.40 kgf/cm² (5.56 psi)	49	3090 mm (10' 2")	
		800 mm (32")	0.35 kgf/cm² (5.02 psi)	49	3190 mm (10' 6")	

10) BUCKET

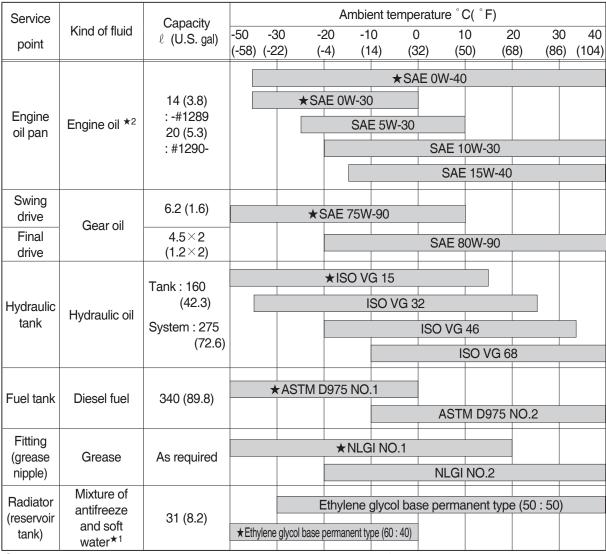
ltem -		Capacity		Tooth	Width	
		SAE heaped	CECE heaped	quantity	Without side cutter	With side cutter
HX210S	STD	0.92 m³ (1.20 yd³)	0.80 m³ (1.05 yd³)	5	1150 mm (45.3")	1270 mm (50.0")
HX220S	OPT	1.20 m³ (1.57 yd³)	1.00 m³ (1.31 yd³)	5	1400 mm (55.1")	1520 mm (59.8")
HAZZUS OPT	◆0.90 m³ (1.18 yd³)	0.80 m³ (1.05 yd³)	5	1090 mm (42.9")	_	

: Heavy duty bucket

^{*} 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.



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

★ : Cold region

Russia, CIS, Mongolia

*¹: Soft water

City water or distilled water

*2 : Meets or exceeds

API CI-4 grade

- * 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.
- * For HD Hyundai Construction Equipment genuine lubricating oils and grease for use in regions with extremely low temperatures, please contact HD Hyundai Construction Equipment dealers.