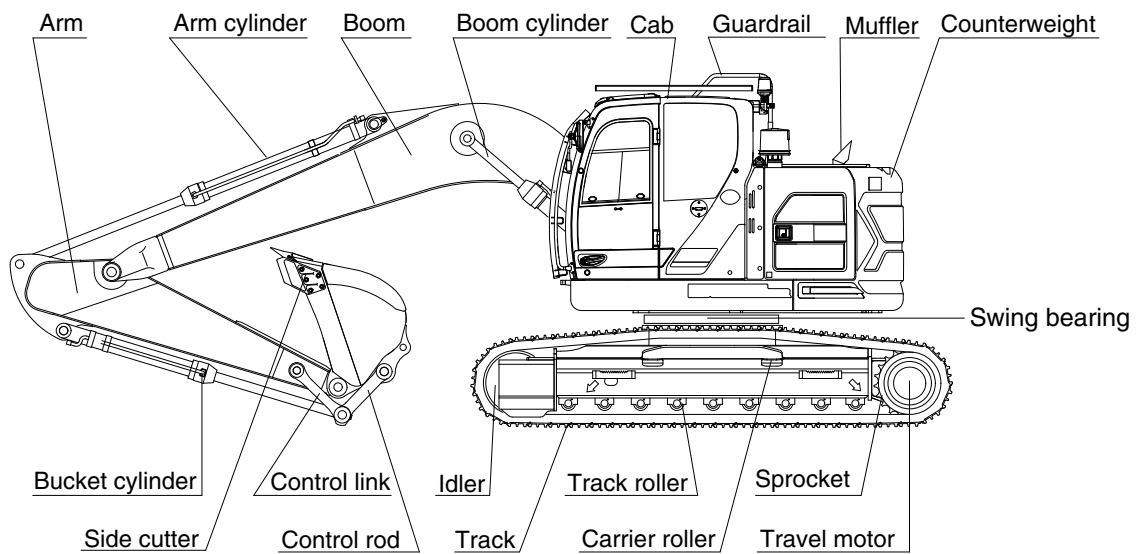
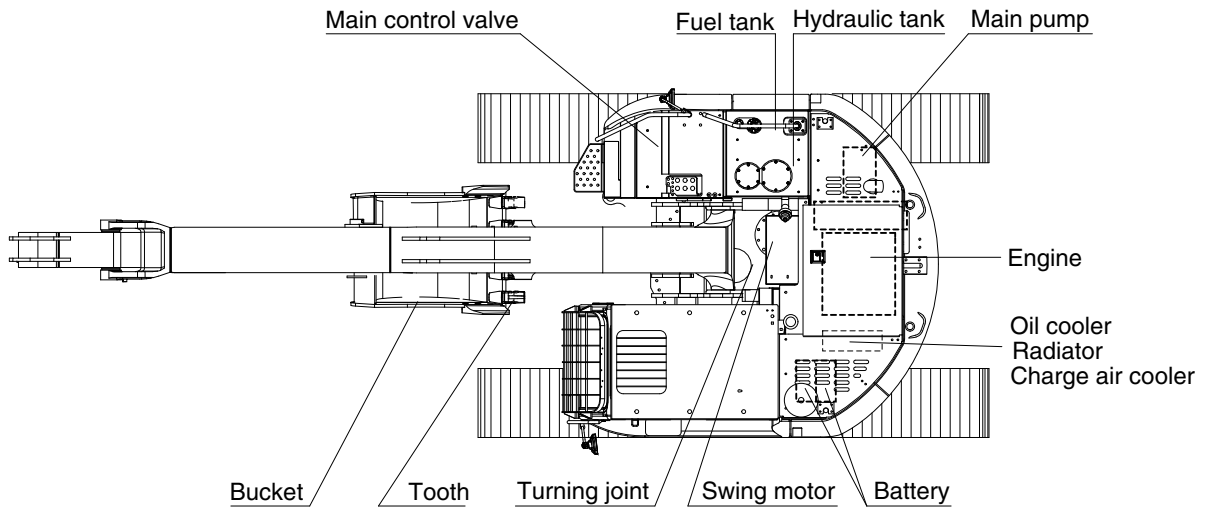


# SPECIFICATIONS

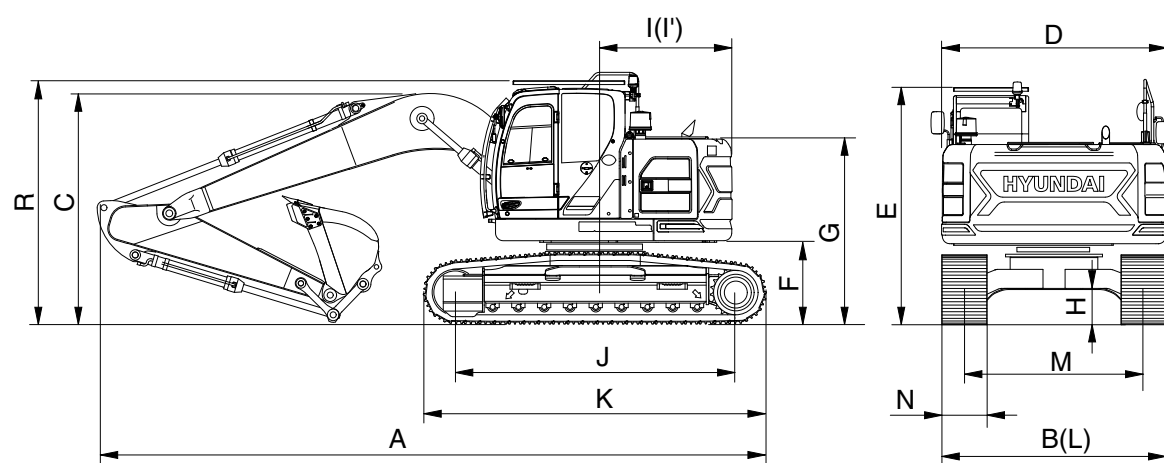
## 1. MAJOR COMPONENT



235SA2SP01

## 2. SPECIFICATIONS

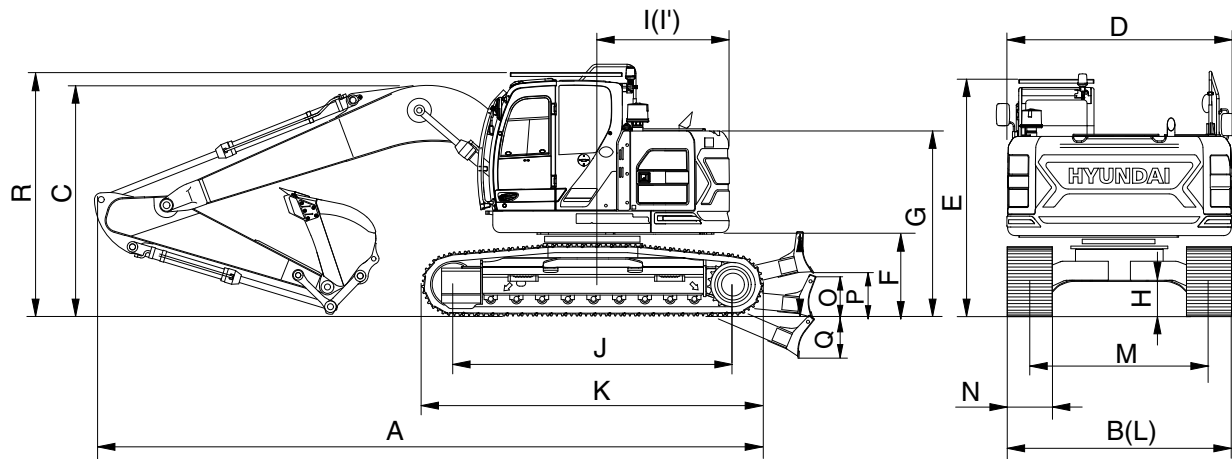
### 1) HX235LCRT3



235SA2SP02

Description		Unit		Specification		
		m (ft-in)	Boom	5.68 (18' 8")		
			Arm	2.92 (9' 7")	2.00 (6' 7")	2.40 (7' 10")
		mm (in)	Shoe	600 (24)		
Operating weight		kg (lb)		24200 53350	24000 52910	24100 53130
Bucket capacity (SAE heaped), standard		m <sup>3</sup> (yd <sup>3</sup> )		0.8 (1.05)	0.8 (1.05)	0.8 (1.05)
Overall length	A	mm (ft-in)		8910 (29' 3")	9050 (29' 8")	8950 (29' 4")
Overall width	B			2990 (9' 10")	2990 (9' 10")	2990 (9' 10")
Overall height of boom	C			3040 (10' 0")	3240 (10' 8")	3130 (10' 3")
Superstructure width	D			2980 (9' 9")	2980 (9' 9")	2980 (9' 9")
Overall height of cab	E			3100 (10' 2")	3100 (10' 2")	3100 (10' 2")
Ground clearance of counterweight	F			1060 (3' 6")	1060 (3' 6")	1060 (3' 6")
Overall height of engine hood	G			2430 (8' 0")	2430 (8' 0")	2430 (8' 0")
Overall height of handrail	G'			3380 (11' 1")	3380 (11' 1")	3380 (11' 1")
Minimum ground clearance	H			470 (1' 7")	470 (1' 7")	470 (1' 7")
Rear-end distance	I			1780 (5' 10")	1780 (5' 10")	1780 (5' 10")
Rear-end swing radius	I'			1780 (5' 10")	1780 (5' 10")	1780 (5' 10")
Distance between tumblers	J			3650 (12' 0")	3650 (12' 0")	3650 (12' 0")
Undercarriage length	K			4404 (14' 5")	4404 (14' 5")	4404 (14' 5")
Undercarriage width	L			2990 (9' 10")	2990 (9' 10")	2990 (9' 10")
Track gauge	M			2390 (7' 10")	2390 (7' 10")	2390 (7' 10")
Track shoe width, standard	N			600 (24")	600 (24")	600 (24")
Travel speed (low/high)		km/hr (mph)		3.25/5.62 (2.02/3.49)	3.25/5.62 (2.02/3.49)	3.25/5.62 (2.02/3.49)
Swing speed		rpm		11.27	11.27	11.27
Gradeability		Degree (%)		35 (70)	35 (70)	35 (70)
Ground pressure		kgf/cm <sup>2</sup> (psi)		0.52 (7.33)	0.51 (7.29)	0.51 (7.30)
Max traction force		kg (lb)		22194 (48929)	22194 (48929)	22194 (48929)

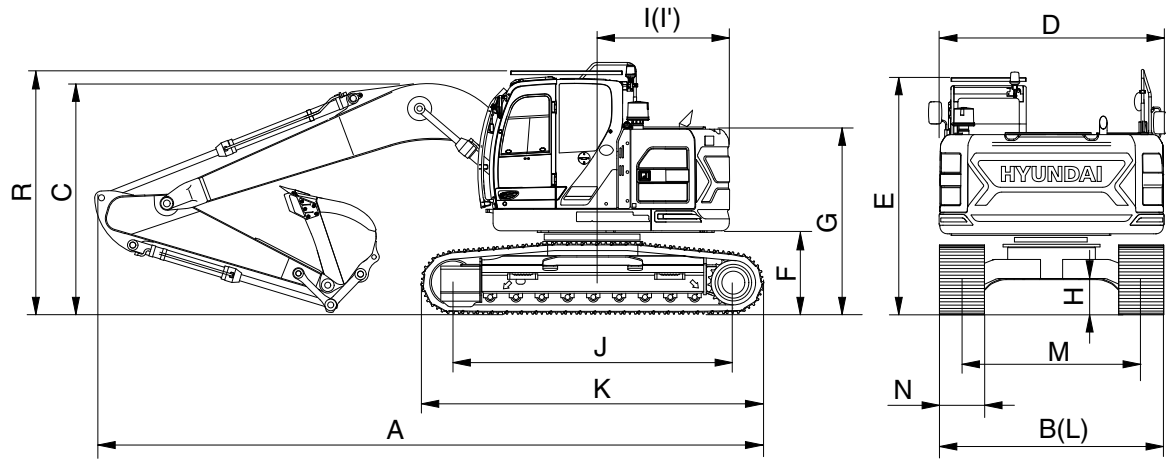
## 2) HX235LCRT3, WITH DOZER



235SA2SP03

Description	Unit		Specification		
	m (ft-in)	Boom	5.68 (18' 8")		
		Arm	2.92 (9' 7")	2.00 (6' 7")	2.40 (7' 10")
	mm (in)	Shoe	600 (24)		
Operating weight	kg (lb)		25600 56440	25500 56220	25500 56220
Bucket capacity (SAE heaped), standard	m <sup>3</sup> (yd <sup>3</sup> )		0.8 (1.05)	0.8 (1.05)	0.8 (1.05)
Overall length	A	mm (ft-in)	8910 ( 29' 3" )	9050 ( 29' 8" )	8950 ( 29' 4" )
Overall width	B		2990 ( 9' 10" )	2990 ( 9' 10" )	2990 ( 9' 10" )
Overall height of boom	C		3040 ( 10' 0" )	3240 ( 10' 8" )	3130 ( 10' 3" )
Superstructure width	D		2980 ( 9' 9" )	2980 ( 9' 9" )	2980 ( 9' 9" )
Overall height of cab	E		3100 ( 10' 2" )	3100 ( 10' 2" )	3100 ( 10' 2" )
Ground clearance of counterweight	F		1060 ( 3' 6" )	1060 ( 3' 6" )	1060 ( 3' 6" )
Overall height of engine hood	G		2430 ( 8' 0" )	2430 ( 8' 0" )	2430 ( 8' 0" )
Overall height of handrail	G'		3380 ( 11' 1" )	3380 ( 11' 1" )	3380 ( 11' 1" )
Minimum ground clearance	H		470 ( 1' 7" )	470 ( 1' 7" )	470 ( 1' 7" )
Rear-end distance	I		1780 ( 5' 10" )	1780 ( 5' 10" )	1780 ( 5' 10" )
Rear-end swing radius	I'		1780 ( 5' 10" )	1780 ( 5' 10" )	1780 ( 5' 10" )
Distance between tumblers	J		3650 ( 12' 0" )	3650 ( 12' 0" )	3650 ( 12' 0" )
Undercarriage length	K		4404 ( 14' 5" )	4404 ( 14' 5" )	4404 ( 14' 5" )
Undercarriage width	L		2990 ( 9' 10" )	2990 ( 9' 10" )	2990 ( 9' 10" )
Track gauge	M		2390 ( 7' 10" )	2390 ( 7' 10" )	2390 ( 7' 10" )
Track shoe width, standard	N		600 (24")	600 (24")	600 (24")
Height of blade	O		739 ( 2' 5" )	739 ( 2' 5" )	739 ( 2' 5" )
Ground clearance of blade up	P		550 ( 1' 10" )	550 ( 1' 10" )	550 ( 1' 10" )
Depth of blade down	Q		413 ( 1' 4" )	413 ( 1' 4" )	413 ( 1' 4" )
Travel speed (low/high)	km/hr (mph)		3.25/5.62 (2.02/3.49)	3.25/5.62 (2.02/3.49)	3.25/5.62 (2.02/3.49)
Swing speed	rpm		11.27	11.27	11.27
Gradeability	Degree (%)		35 (70)	35 (70)	35 (70)
Ground pressure	kgf/cm <sup>2</sup> (psi)		0.55 (7.75)	0.54 (7.72)	0.54 (7.72)
Max traction force	kg (lb)		22194 (48929)	22194 (48929)	22194 (48929)

### 3) HX235LCRT3, HEAVY DUTY

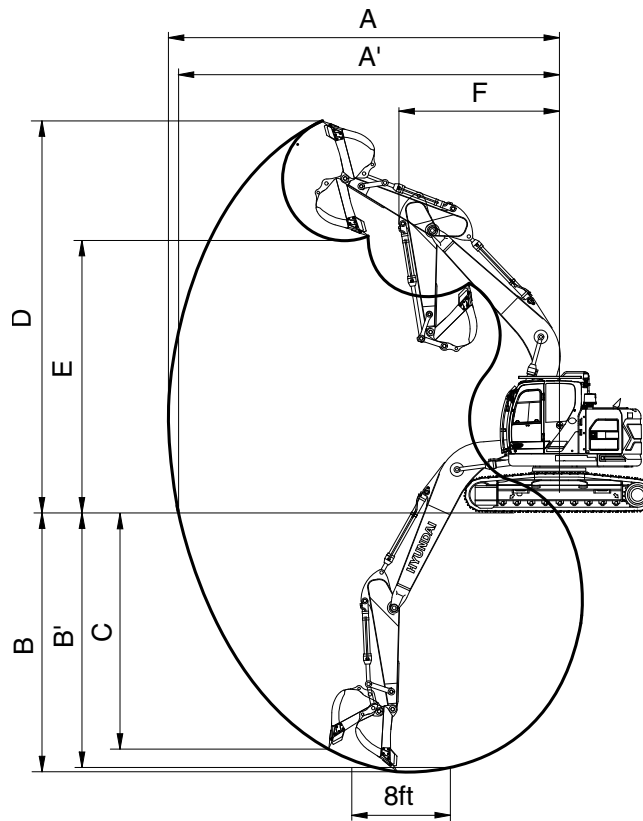


235SA2SP02

Description		Unit		Specification		
		m (ft-in)	Boom	5.68 (18' 8")		
			Arm	2.92 (9' 7")	2.00 (6' 7")	2.40 (7' 10")
		mm (in)	Shoe	600 (24)		
Operating weight		kg (lb)		24200 53350	24000 52910	24100 53130
Bucket capacity (SAE heaped), standard		m³ (yd³)		0.8 (1.05)	0.8 (1.05)	0.8 (1.05)
Overall length	A	mm (ft-in)		8910 ( 29' 3" )	9050 ( 29' 8" )	8950 ( 29' 4" )
Overall width	B			2990 ( 9' 10" )	2990 ( 9' 10" )	2990 ( 9' 10" )
Overall height of boom	C			3040 ( 10' 0" )	3240 ( 10' 8" )	3130 ( 10' 3" )
Superstructure width	D			2980 ( 9' 9" )	2980 ( 9' 9" )	2980 ( 9' 9" )
Overall height of cab	E			3100 ( 10' 2" )	3100 ( 10' 2" )	3100 ( 10' 2" )
Ground clearance of counterweight	F			1060 ( 3' 6" )	1060 ( 3' 6" )	1060 ( 3' 6" )
Overall height of engine hood	G			2430 ( 8' 0" )	2430 ( 8' 0" )	2430 ( 8' 0" )
Overall height of handrail	G'			3380 ( 11' 1" )	3380 ( 11' 1" )	3380 ( 11' 1" )
Minimum ground clearance	H			470 ( 1' 7" )	470 ( 1' 7" )	470 ( 1' 7" )
Rear-end distance	I			1780 ( 5' 10" )	1780 ( 5' 10" )	1780 ( 5' 10" )
Rear-end swing radius	I'			1780 ( 5' 10" )	1780 ( 5' 10" )	1780 ( 5' 10" )
Distance between tumblers	J			3650 ( 12' 0" )	3650 ( 12' 0" )	3650 ( 12' 0" )
Undercarriage length	K			4404 ( 14' 5" )	4404 ( 14' 5" )	4404 ( 14' 5" )
Undercarriage width	L			2990 ( 9' 10" )	2990 ( 9' 10" )	2990 ( 9' 10" )
Track gauge	M			2390 ( 7' 10" )	2390 ( 7' 10" )	2390 ( 7' 10" )
Track shoe width, standard	N			600 (24")	600 (24")	600 (24")
Travel speed (low/high)		km/hr (mph)		3.25/5.62 (2.02/3.49)	3.25/5.62 (2.02/3.49)	3.25/5.62 (2.02/3.49)
Swing speed		rpm		11.27	11.27	11.27
Gradeability		Degree (%)		35 (70)	35 (70)	35 (70)
Ground pressure		kgf/cm² (psi)		0.52 (7.33)	0.51 (7.27)	0.51 (7.30)
Max traction force		kg (lb)		22194 (48929)	22194 (48929)	22194 (48929)

### 3. WORKING RANGE AND DIGGING FORCE

#### 1) HX235LCRT3



235SA2SP04

Description	m (ft-in)	Boom			
		Arm	5.68 (18' 8")		
Max digging reach	mm (ft-in)	A	9910 (32' 6")	9430 (30' 11")	9040 (29' 8")
Max digging reach on ground		A'	9750 (32' 0")	9260 (30' 5")	8860 (29' 1")
Max digging depth		B	6670 (21' 11")	6150 (20' 2")	5750 (18' 10")
Max digging depth (8 ft level)		B'	6490 (21' 4")	5940 (19' 6")	5490 (18' 0")
Max vertical wall digging depth		C	6090 (20' 0")	5570 (18' 3")	5120 (16' 10")
Max digging height		D	10820 (35' 6")	10460 (34' 4")	10130 (33' 3")
Max dumping height		E	7900 (25' 11")	7540 (24' 9")	7220 (23' 8")
Min swing radius		F	2350 (7' 9")	2550 (8' 4")	2860 (9' 5")
Bucket digging force	kN	SAE	130.4 [142.3]	130.4 [142.3]	130.4 [142.3]
	kgf		13300 [14510]	13300 [14510]	13300 [14510]
	lbf		29320 [31990]	29320 [31990]	29320 [31990]
	kN	ISO	150.0 [163.7]	150.0 [163.7]	150.0 [163.7]
	kgf		15300 [16690]	15300 [16690]	15300 [16690]
	lbf		33730 [36800]	33730 [36800]	33730 [36800]
Arm digging force	kN	SAE	102.0 [111.3]	120.6 [131.6]	146.1 [159.4]
	kgf		10400 [11350]	12300 [13420]	14900 [16250]
	lbf		22930 [25020]	27120 [29590]	32850 [35830]
	kN	ISO	106.9 [116.6]	125.5 [136.9]	153.0 [166.9]
	kgf		10900 [11890]	12800 [13960]	15600 [17020]
	lbf		24030 [26210]	28220 [30780]	34390 [37520]

[ ] : Power boost

## 4. WEIGHT

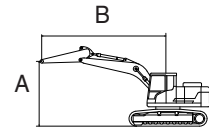
Item	HX235LCRT3		HX235LCRT3, W/DZR		HX235LCRT3, H/DUTY	
	kg	lb	kg	lb	kg	lb
Upperstructure assembly	11446	25230	11446	25230	11446	25230
Main frame weld assembly	2004	4420	2004	4420	2004	4420
Engine assembly	552	1,217	552	1,217	552	1,217
Main pump assembly	146	320	146	320	146	320
Main control valve assembly	220	490	220	490	220	490
Swing motor assembly	254	560	254	560	254	560
Hydraulic oil tank assembly	421	930	421	930	421	930
Fuel tank assembly						
Counterweight	5300	11680	5300	11680	5300	11680
Cab assembly	525	1160	525	1160	525	1160
Lower chassis assembly	8433	18590	9872	21760	8465	18660
Track frame weld assembly	2588	5710	2903	6400	2620	5780
Swing bearing	437	960	437	960	437	960
Travel motor assembly (2EA)	609	1340	609	1340	609	1340
Turning joint	56	120	56	120	56	120
Dozer Blade assembly			931	2050		
Sprocket (2EA)	112	250	112	250	112	250
Track recoil spring (2EA)	283	620	283	620	283	620
Idler (2EA)	308	680	308	680	308	680
Carrier roller (2EA)	41	90	41	90	41	90
Track roller (18EA)	855	1880	855	1880	855	1880
Track-chain assembly (600 mm standard triple grouser shoe)	2894	6380	2894	6380	2894	6380
Track-chain assembly (700 mm standard triple grouser shoe)	3178	7010	3178	7010	3178	7010
Track-chain assembly (800 mm standard triple grouser shoe)	3460	7630	3460	7630	3460	7630
Front attachment assembly	4276	9430	4276	9430	4276	9430
5.68 m boom assembly	1510	3330	1510	3330	1510	3330
2.92 m arm assembly	760	1680	760	1680	760	1680
0.08 m <sup>3</sup> SAE heaped bucket	770	1700	770	1700	770	1700
Boom cylinder assembly (2EA)	190	420	190	420	190	420
Arm cylinder assembly	290	640	290	640	290	640
Bucket cylinder assembly	165	360	165	360	165	360
Bucket control linkage total	170	370	170	370	170	370











## 5. LIFTING CAPACITIES

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX235LCRT3	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5680	2000	5300	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			*5900 *13010	*5900 *13010					*5930 *13070	*5930 *13070	4.93 (16.2)
6.0 m (19.7 ft)	kg lb			*5980 *13180	*5980 *13180	*5510 *12150	4840 10670			*5520 *12170	4470 9850	6.28 (20.6)
4.5 m (14.8 ft)	kg lb			*6970 *15370	*6970 *15370	*5770 *12720	4720 10410			*5400 *11900	3630 8000	7.07 (23.2)
3.0 m (9.8 ft)	kg lb			*8380 *18470	6790 14970	*6320 *13930	4500 9920			5250 11570	3240 7140	7.48 (24.5)
1.5 m (4.9 ft)	kg lb					*6810 *15010	4310 9500	5140 11330	3150 6940	5080 11200	3110 6860	7.57 (24.8)
0.0 m (0.0 ft)	kg lb			*9390 *20700	6260 13800	*6960 *15340	4190 9240			5240 11550	3200 7050	7.36 (24.1)
-1.5 m (-4.9 ft)	kg lb			*8770 *19330	6270 13820	*6590 *14530	4180 9220			*5550 *12240	3560 7850	6.81 (22.3)
-3.0 m (-9.8 ft)	kg lb	*9440 *20810	*9440 *20810	*7350 *16200	6410 14130					*5370 *11840	4480 9880	5.83 (19.1)

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.

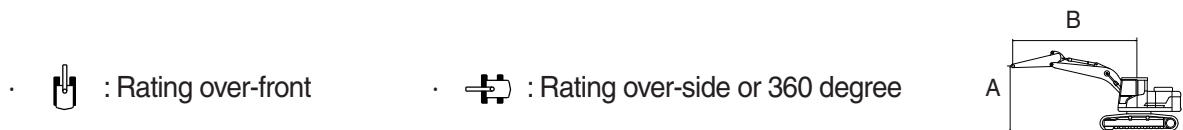
The difference between the weight of a work tool attachment must be subtracted.











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

Failure to comply to the rated load can cause possible personal injury or property damage.

Make adjustments to the rated load as necessary for non-standard configurations.

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX235LCRT3	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5680	2400	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									*6690 *14750	*6690 *14750	3.26 (10.7)
7.5 m (24.6 ft)	kg lb			*5310 *11710	*5310 *11710					*5080 *11200	*5080 *11200	5.52 (18.1)
6.0 m (19.7 ft)	kg lb			*5510 *12150	*5510 *12150	*5120 *11290	4890 10780			*4610 *10160	3990 8800	6.75 (22.1)
4.5 m (14.8 ft)	kg lb	*9050 *19950	*9050 *19950	*6510 *14350	*6510 *14350	*5460 *12040	4750 10470			*4490 *9900	3310 7300	7.49 (24.6)
3.0 m (9.8 ft)	kg lb			*7950 *17530	6890 15190	*6070 *13380	4520 9960	*5180 *11420	3230 7120	*4580 *10100	2990 6590	7.87 (25.8)
1.5 m (4.9 ft)	kg lb			*9080 *20020	6440 14200	*6640 *14640	4310 9500	5130 11310	3130 6900	4690 10340	2870 6330	7.96 (26.1)
0.0 m (0.0 ft)	kg lb			*9390 *20700	6230 13730	*6900 *15210	4160 9170	5060 11160	3070 6770	4820 10630	2930 6460	7.76 (25.4)
-1.5 m (-4.9 ft)	kg lb	*11240 *24780	*11240 *24780	*8970 *19780	6200 13670	*6700 *14770	4120 9080			*5230 *11530	3220 7100	7.24 (23.8)
-3.0 m (-9.8 ft)	kg lb	*10400 *22930	*10400 *22930	*7800 *17200	6310 13910	*5690 *12540	4210 9280			*5160 *11380	3930 8660	6.33 (20.8)
-4.5 m (-14.8 ft)	kg lb			*5110 *11270	*5110 *11270					*4550 *10030	*4550 *10030	4.81 (15.8)

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.

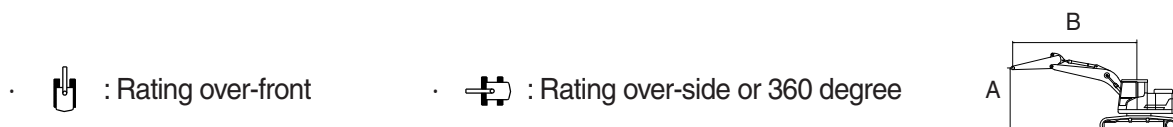
Consult your HD Hyundai Construction Equipment dealer regarding the lifting capacities for specific work tools and attachments.













Failure to comply to the rated load can cause possible personal injury or property damage.

Make adjustments to the rated load as necessary for non-standard configurations.



Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX235LCRT3	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5680	2920	5300	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)
9.0 m (29.5 ft)	kg lb											*4150 *9150	*4150 *9150	4.32 (14.2)
7.5 m (24.6 ft)	kg lb					*4610 *10160	*4610 *10160	*4230 *9330	*4230 *9330			*3370 *7430	*3370 *7430	6.20 (20.3)
6.0 m (19.7 ft)	kg lb					*4870 *10740	*4870 *10740	*4630 *10210	*4630 *10210			*3100 *6830	*3100 *6830	7.31 (24.0)
4.5 m (14.8 ft)	kg lb			*7630 *16820	*7630 *16820	*5870 *12940	*5870 *12940	*5050 *11130	4800 10580	*4640 *10230	3330 7340	*3020 *6660	2970 6550	8.00 (26.2)
3.0 m (9.8 ft)	kg lb					*7350 *16200	7010 15450	*5710 *12590	4550 10030	*4900 *10800	3230 7120	*3070 *6770	2700 5950	8.36 (27.4)
1.5 m (4.9 ft)	kg lb					*8670 *19110	6490 14310	*6370 *14040	4310 9500	5110 11270	3110 6860	*3250 *7170	2590 5710	8.44 (27.7)
0.0 m (0.0 ft)	kg lb			*6320 *13930	*6320 *13930	*9270 *20440	6200 13670	*6770 *14930	4130 9110	5010 11050	3020 6660	*3590 *7910	2640 5820	8.25 (27.1)
-1.5 m (-4.9 ft)	kg lb	*6580 *14510	*6580 *14510	*10750 *23700	*10750 *23700	*9120 *20110	6110 13470	*6750 *14880	4050 8930	4980 10980	2990 6590	*4200 *9260	2860 6310	7.77 (25.5)
-3.0 m (-9.8 ft)	kg lb	*11250 *24800	*11250 *24800	*11440 *25220	*11440 *25220	*8250 *18190	6170 13600	*6100 *13450	4080 8990			*4890 *10780	3390 7470	6.93 (22.7)
-4.5 m (-14.8 ft)	kg lb			*8590 *18940	*8590 *18940	*6280 *13850	*6280 *13850					*4610 *10160	*4610 *10160	5.58 (18.3)

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.

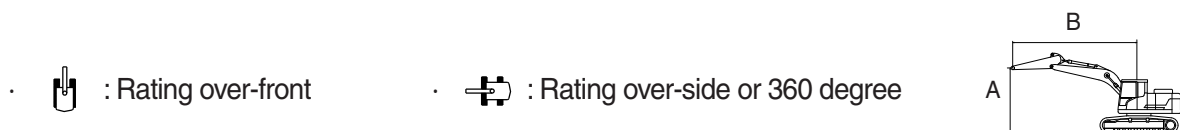
The difference between the weight of a work tool attachment must be subtracted.











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

Failure to comply to the rated load can cause possible personal injury or property damage.

Make adjustments to the rated load as necessary for non-standard configurations.

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX235LCRT3 W/DOZER	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5680	2000	5300	600	-	-	Down	-	-



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			*5900 *13010	*5900 *13010					*5930 *13070	*5930 *13070	4.93 (16.2)
6.0 m (19.7 ft)	kg lb			*5980 *13180	*5980 *13180	*5510 *12150	*5510 *12150			*5520 *12170	5110 11270	6.28 (20.6)
4.5 m (14.8 ft)	kg lb			*6970 *15370	*6970 *15370	*5770 *12720	5410 11930			*5400 *11900	4170 9190	7.07 (23.2)
3.0 m (9.8 ft)	kg lb			*8380 *18470	7860 17330	*6320 *13930	5190 11440			*5400 *11900	3750 8270	7.48 (24.5)
1.5 m (4.9 ft)	kg lb					*6810 *15010	4990 11000	*5500 *12130	3650 8050	*5450 *12020	3610 7960	7.57 (24.8)
0.0 m (0.0 ft)	kg lb			*9390 *20700	7310 16120	*6960 *15340	4870 10740			*5520 *12170	3710 8180	7.36 (24.1)
-1.5 m (-4.9 ft)	kg lb			*8770 *19330	7330 16160	*6590 *14530	4860 10710			*5550 *12240	4120 9080	6.81 (22.3)
-3.0 m (-9.8 ft)	kg lb	*9440 *20810	*9440 *20810	*7350 *16200	*7350 *16200					*5370 *11840	5190 11440	5.83 (19.1)

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.

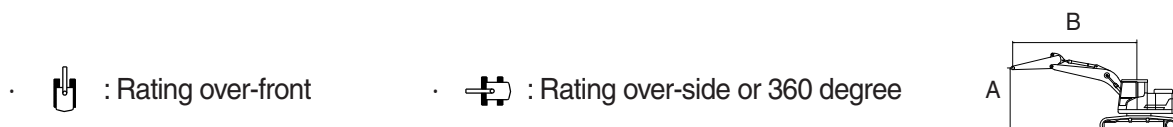
The difference between the weight of a work tool attachment must be subtracted.











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

Failure to comply to the rated load can cause possible personal injury or property damage.

Make adjustments to the rated load as necessary for non-standard configurations.

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX235LCRT3 W/DOZER	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5680	2000	5300	600	-	-	Up	-	-



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			*5900 *13010	*5900 *13010					*5930 *13070	*5930 *13070	4.93 (16.2)
6.0 m (19.7 ft)	kg lb			*5980 *13180	*5980 *13180	*5510 *12150	5130 11310			*5520 *12170	4740 10450	6.28 (20.6)
4.5 m (14.8 ft)	kg lb			*6970 *15370	*6970 *15370	*5770 *12720	5010 11050			*5400 *11900	3860 8510	7.07 (23.2)
3.0 m (9.8 ft)	kg lb			*8380 *18470	7220 15920	*6320 *13930	4800 10580			5190 11440	3470 7650	7.48 (24.5)
1.5 m (4.9 ft)	kg lb					*6810 *15010	4600 10140	5090 11220	3380 7450	5020 11070	3330 7340	7.57 (24.8)
0.0 m (0.0 ft)	kg lb			*9390 *20700	6690 14750	6950 15320	4490 9900			5180 11420	3420 7540	7.36 (24.1)
-1.5 m (-4.9 ft)	kg lb			*8770 *19330	6700 14770	*6590 *14530	4470 9850			*5550 *12240	3810 8400	6.81 (22.3)
-3.0 m (-9.8 ft)	kg lb	*9440 *20810	*9440 *20810	*7350 *16200	6840 15080					*5370 *11840	4790 10560	5.83 (19.1)

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.

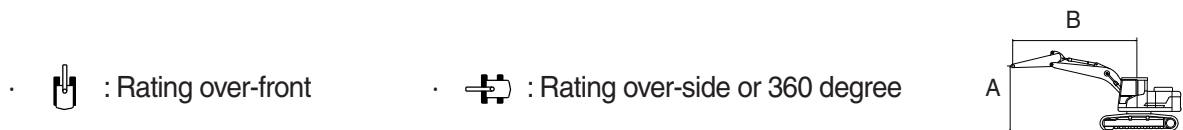
The difference between the weight of a work tool attachment must be subtracted.











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

Failure to comply to the rated load can cause possible personal injury or property damage.

Make adjustments to the rated load as necessary for non-standard configurations.

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX235LCRT3 W/DOZER	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5680	2400	5300	600	-	-	Down	-	-



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									*6690 *14750	*6690 *14750	3.26 (10.7)
7.5 m (24.6 ft)	kg lb			*5310 *11710	*5310 *11710					*5080 *11200	*5080 *11200	5.52 (18.1)
6.0 m (19.7 ft)	kg lb			*5510 *12150	*5510 *12150	*5120 *11290	*5120 *11290			*4610 *10160	4580 10100	6.75 (22.1)
4.5 m (14.8 ft)	kg lb	*9050 *19950	*9050 *19950	*6510 *14350	*6510 *14350	*5460 *12040	5440 11990			*4490 *9900	3810 8400	7.49 (24.6)
3.0 m (9.8 ft)	kg lb			*7950 *17530	*7950 *17530	*6070 *13380	5210 11490	*5180 *11420	3730 8220	*4580 *10100	3460 7630	7.87 (25.8)
1.5 m (4.9 ft)	kg lb			*9080 *20020	7500 16530	*6640 *14640	4990 11000	*5390 *11880	3630 8000	*4860 *10710	3330 7340	7.96 (26.1)
0.0 m (0.0 ft)	kg lb			*9390 *20700	7290 16070	*6900 *15210	4840 10670	*5420 *11950	3570 7870	*5180 *11420	3410 7520	7.76 (25.4)
-1.5 m (-4.9 ft)	kg lb	*11240 *24780	*11240 *24780	*8970 *19780	7260 16010	*6700 *14770	4800 10580			*5230 *11530	3750 8270	7.24 (23.8)
-3.0 m (-9.8 ft)	kg lb	*10400 *22930	*10400 *22930	*7800 *17200	7360 16230	*5690 *12540	4890 10780			*5160 *11380	4570 10080	6.33 (20.8)
-4.5 m (-14.8 ft)	kg lb			*5110 *11270	*5110 *11270					*4550 *10030	*4550 *10030	4.81 (15.8)

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.

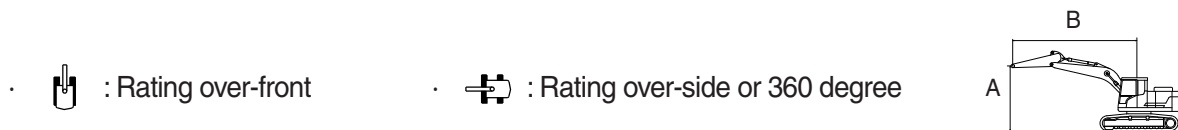
The difference between the weight of a work tool attachment must be subtracted.











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

Failure to comply to the rated load can cause possible personal injury or property damage.

Make adjustments to the rated load as necessary for non-standard configurations.

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX235LCRT3 W/DOZER	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5680	2400	5300	600	-	-	Up	-	-



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									*6690 *14750	*6690 *14750	3.26 (10.7)
7.5 m (24.6 ft)	kg lb			*5310 *11710	*5310 *11710					*5080 *11200	*5080 *11200	5.52 (18.1)
6.0 m (19.7 ft)	kg lb			*5510 *12150	*5510 *12150	*5120 *11290	*5120 *11290			*4610 *10160	4250 9370	6.75 (22.1)
4.5 m (14.8 ft)	kg lb	*9050 *19950	*9050 *19950	*6510 *14350	*6510 *14350	*5460 *12040	5040 11110			*4490 *9900	3530 7780	7.49 (24.6)
3.0 m (9.8 ft)	kg lb			*7950 *17530	7320 16140	*6070 *13380	4820 10630	5170 11400	3450 7610	*4580 *10100	3190 7030	7.87 (25.8)
1.5 m (4.9 ft)	kg lb			*9080 *20020	6870 15150	*6640 *14640	4600 10140	5070 11180	3360 7410	4640 10230	3080 6790	7.96 (26.1)
0.0 m (0.0 ft)	kg lb			*9390 *20700	6660 14680	*6900 *15210	4460 9830	5000 11020	3290 7250	4770 10520	3150 6940	7.76 (25.4)
-1.5 m (-4.9 ft)	kg lb	*11240 *24780	*11240 *24780	*8970 *19780	6630 14620	*6700 *14770	4420 9740			*5230 *11530	3450 7610	7.24 (23.8)
-3.0 m (-9.8 ft)	kg lb	*10400 *22930	*10400 *22930	*7800 *17200	6740 14860	*5690 *12540	4500 9920			*5160 *11380	4210 9280	6.33 (20.8)
-4.5 m (-14.8 ft)	kg lb			*5110 *11270	*5110 *11270					*4550 *10030	*4550 *10030	4.81 (15.8)

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.

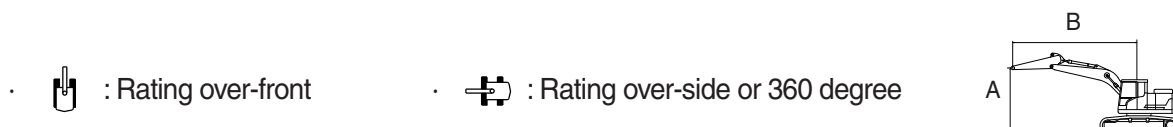
The difference between the weight of a work tool attachment must be subtracted.













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

Failure to comply to the rated load can cause possible personal injury or property damage.

Make adjustments to the rated load as necessary for non-standard configurations.

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX235LCRT3 W/DOZER	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5680	2920	5300	600	-	-	Down	-	-



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)
9.0 m (29.5 ft)	kg lb											*4150 *9150	*4150 *9150	4.32 (14.2)
7.5 m (24.6 ft)	kg lb					*4610 *10160	*4610 *10160	*4230 *9330	*4230 *9330			*3370 *7430	*3370 *7430	6.20 (20.3)
6.0 m (19.7 ft)	kg lb					*4870 *10740	*4870 *10740	*4630 *10210	*4630 *10210			*3100 *6830	*3100 *6830	7.31 (24.0)
4.5 m (14.8 ft)	kg lb			*7630 *16820	*7630 *16820	*5870 *12940	*5870 *12940	*5050 *11130	*5050 *11130	*4640 *10230	3830 8440	*3020 *6660	*3020 *6660	8.00 (26.2)
3.0 m (9.8 ft)	kg lb					*7350 *16200	*7350 *16200	*5710 *12590	5240 11550	*4900 *10800	3730 8220	*3070 *6770	*3070 *6770	8.36 (27.4)
1.5 m (4.9 ft)	kg lb					*8670 *19110	7560 16670	*6370 *14040	4990 11000	*5200 *11460	3610 7960	*3250 *7170	3020 6660	8.44 (27.7)
0.0 m (0.0 ft)	kg lb			*6320 *13930	*6320 *13930	*9270 *20440	7260 16010	*6770 *14930	4810 10600	*5360 *11820	3520 7760	*3590 *7910	3080 6790	8.25 (27.1)
-1.5 m (-4.9 ft)	kg lb	*6580 *14510	*6580 *14510	*10750 *23700	*10750 *23700	*9120 *20110	7170 15810	*6750 *14880	4730 10430	*5170 *11400	3490 7690	*4200 *9260	3340 7360	7.77 (25.5)
-3.0 m (-9.8 ft)	kg lb	*11250 *24800	*11250 *24800	*11440 *25220	*11440 *25220	*8250 *18190	7230 15940	*6100 *13450	4760 10490			*4890 *10780	3940 8690	6.93 (22.7)
-4.5 m (-14.8 ft)	kg lb			*8590 *18940	*8590 *18940	*6280 *13850	*6280 *13850					*4610 *10160	*4610 *10160	5.58 (18.3)

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.

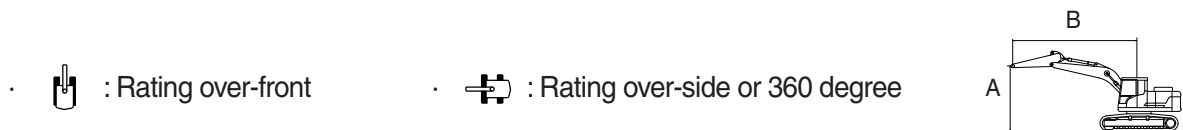
Consult your HD Hyundai Construction Equipment dealer regarding the lifting capacities for specific work tools and attachments.













Failure to comply to the rated load can cause possible personal injury or property damage.

Make adjustments to the rated load as necessary for non-standard configurations.



Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX235LCRT3 W/DOZER	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5680	2920	5300	600	-	-	Up	-	-



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)
9.0 m (29.5 ft)	kg lb											*4150 *9150	*4150 *9150	4.32 (14.2)
7.5 m (24.6 ft)	kg lb					*4610 *10160	*4610 *10160	*4230 *9330	*4230 *9330			*3370 *7430	*3370 *7430	6.20 (20.3)
6.0 m (19.7 ft)	kg lb					*4870 *10740	*4870 *10740	*4630 *10210	*4630 *10210			*3100 *6830	*3100 *6830	7.31 (24.0)
4.5 m (14.8 ft)	kg lb			*7630 *16820	*7630 *16820	*5870 *12940	*5870 *12940	*5050 *11130	*5050 *11130	*4640 *10230	3550 7830	*3020 *6660	*3020 *6660	8.00 (26.2)
3.0 m (9.8 ft)	kg lb					*7350 *16200	*7350 *16200	*5710 *12590	4840 10670	*4900 *10800	3450 7610	*3070 *6770	2890 6370	8.36 (27.4)
1.5 m (4.9 ft)	kg lb					*8670 *19110	6920 15260	*6370 *14040	4600 10140	5050 11130	3330 7340	*3250 *7170	2790 6150	8.44 (27.7)
0.0 m (0.0 ft)	kg lb			*6320 *13930	*6320 *13930	*9270 *20440	6630 14620	*6770 *14930	4420 9740	4950 10910	3240 7140	*3590 *7910	2840 6260	8.25 (27.1)
-1.5 m (-4.9 ft)	kg lb	*6580 *14510	*6580 *14510	*10750 *23700	*10750 *23700	*9120 *20110	6540 14420	*6750 *14880	4340 9570	4920 10850	3210 7080	*4200 *9260	3070 6770	7.77 (25.5)
-3.0 m (-9.8 ft)	kg lb	*11250 *24800	*11250 *24800	*11440 *25220	*11440 *25220	*8250 *18190	6600 14550	*6100 *13450	4380 9660			*4890 *10780	3630 8000	6.93 (22.7)
-4.5 m (-14.8 ft)	kg lb			*8590 *18940	*8590 *18940	*6280 *13850	*6280 *13850					*4610 *10160	*4610 *10160	5.58 (18.3)

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.

Failure to comply to the rated load can cause possible personal injury 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

Type	Capacity		Width	Weight	Tooth	MONO		
	SAE Heaped	CECE heaped	Without side cutter			Recommendation		mm (ft-in)
						5.68 m (18' 8") Boom		
	m <sup>3</sup> (yd <sup>3</sup> )	m <sup>3</sup> (yd <sup>3</sup> )	mm (in)	kg (lb)	EA	2.0 m (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)	1,000 (39.4')	700 (1,540)	5	●	●	●
	0.92 (1.20)	0.80 (1.05)	1,150 (45.3')	770 (1,700)	5	●	●	◐
	1.10 (1.44)	0.96 (1.26)	1,320 (52.0")	830 (1,830)	5	●	◐	■
	1.34 (1.75)	1.15 (1.50)	1,550 (61.0")	920 (2,030)	6	■	■	▲
Heavy duty	0.90 (1.18)	0.80 (1.05)	1,070 (42.1")	810 (1,790)	5	●	●	◐
	1.05 (1.37)	0.92 (1.20)	1,290 (50.8")	890 (1,960)	5	●	◐	■
Rock heavy duty	0.87 (1.14)	0.75 (0.98)	1,140 (44.9")	900 (1,980)	5	●	●	◐

●	Applicable for materials with density of 2100 kg/m <sup>3</sup> (3500 lb/yd <sup>3</sup> ) or less
◐	Applicable for materials with density of 1800 kg/m <sup>3</sup> (3000 lb/yd <sup>3</sup> ) or less
■	Applicable for materials with density of 1500 kg/m <sup>3</sup> (2500 lb/yd <sup>3</sup> ) or less
▲	Applicable for materials with density of 1200 kg/m <sup>3</sup> (2000 lb/yd <sup>3</sup> ) 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 your HD Hyundai Construction Equipment dealer for information on selecting the correct boom—arm—bucket combination.

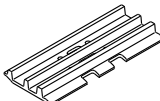


## 7. UNDERCARRIAGE

### 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		
					
HX235LCRT3	Shoe width	mm (in)	600 (24)	700 (28)	800 (32)
	Operating weight	kg (lb)	24200 (53350)	24500 (54010)	24700 (54450)
	Ground pressure	kgf/cm <sup>2</sup> (psi)	0.52 (7.33)	0.45 (6.36)	0.39 (5.61)
	Overall width	mm (ft-in)	2990 (9' 10")	3090 (10' 2")	3190 (10' 6")
HX235LCRT3 W/DOZER	Shoe width	mm (in)	600 (24)	700 (28)	800 (32)
	Operating weight	kg (lb)	25500 (56220)	25780 (56830)	26060 (57450)
	Ground pressure	kgf/cm <sup>2</sup> (psi)	0.55 (7.75)	0.47 (6.68)	0.42 (5.97)
	Overall width	mm (ft-in)	2990 (9' 10")	3090 (10' 2")	3190 (10' 6")

### 3) NUMBER OF ROLLERS AND SHOES ON EACH SIDE

Item	Quantity
Carrier rollers	2 EA
Track rollers	9 EA
Track shoes	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	A
700 mm triple grouser	Option	B
900 mm triple grouser	Option	C

※ **Table 2**

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

## 8. SPECIFICATIONS FOR MAJOR COMPONENTS

### 1) ENGINE

Item	Specification
Model	HD Hyundai Construction Equipment HE6.7
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	17.2 : 1
Gross power	160 Hp (119 kW) at 2200 rpm
Net power	157 Hp (117 kW) at 2200 rpm
Max. power	165 Hp (123 kW) at 2000 rpm
Peak Torque	732 N·m (540 lbf·ft) at 1400 rpm
Engine oil quantity	23.7 ℓ (6.3 U.S. gal)
Wet weight	552 kg (1217 lb)
Starter motor	24 V-4.8 kW
Alternator	Valeo 24 V-90 A

### 2) MAIN PUMP

Item	Specification
Type	Variable displacement tandem axis piston pumps
Capacity	2 × 130 cc/rev
Maximum pressure	350 kgf/cm <sup>2</sup> (4980 psi) [380 kgf/cm <sup>2</sup> (5400 psi)]
Rated oil flow	2 × 214.5 ℓ /min (56.7 U.S. gpm/ 47.2 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 <sup>2</sup> (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	10 spools two-block
Operating method	Hydraulic pilot system
Main relief valve pressure	350 kgf/cm <sup>2</sup> (4980 psi) [380 kgf/cm <sup>2</sup> (5400 psi)]
Port relief valve pressure	Boom 400 kgf/cm <sup>2</sup> (5690 psi)
	Arm 400 kgf/cm <sup>2</sup> (5690 psi)
	Bucket 400 kgf/cm <sup>2</sup> (5690 psi)

[ ]: Power boost

### 5) SWING MOTOR

Item	Specification
Type	Two fixed displacement axial piston motor
Capacity	143 cc/rev
Relief pressure	285 kgf/cm <sup>2</sup> (4050 psi)
Braking system	Automatic, spring applied hydraulic released
Braking torque	63.3 kgf · m (479.5 lbf · ft)
Brake release pressure	20.9~35.5 kgf/cm <sup>2</sup> (297~505 psi)
Reduction gear type	2 - stage planetary

### 6) TRAVEL MOTOR

Item	Specification
Type	Variable displacement axial piston motor
Relief pressure	350 kgf/cm <sup>2</sup> (4980 psi)
Reduction gear type	2-stage planetary
Braking system	Automatic, spring applied hydraulic released
Brake release pressure	14.2~16.8 kgf/cm <sup>2</sup> (202~239 psi)
Braking torque	72.3 kgf · m (523 lbf · ft)

## 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
Bucket cylinder	Bore dia × Stroke	Ø 120 × 1055 mm
	Cushion	Extend only
Dozer cylinder (opt)	Bore dia × Stroke	Ø 130 × 240 mm
	Cushion	-

※ 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)
Engine oil pan	Engine oil	23.7 (6.3)	★SAE 0W-30							
			SAE 5W-30							
			SAE 10W-30							
			SAE CI-4 and 10W-30							
			SAE 5W-40 or 15W-40							
Swing drive	Gear oil	7.0 (1.85)	★SAE 75W-90							
Final drive		4.5×2 (1.19×2)	SAE 80W-90							
Hydraulic tank	Hydraulic oil	Tank : 160 (42.3) System : 330 (87.2)	★ISO VG 15							
			ISO VG 32							
			ISO VG 46, HBHO 46★ <sup>3</sup>							
			ISO VG 68							
Fuel tank	Diesel fuel	320 (84.5)	★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★ <sup>1</sup>	30 (7.9)	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

★ : Cold region

Russia, CIS, Mongolia

★<sup>1</sup> : Soft water

City water or distilled water

※ 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.