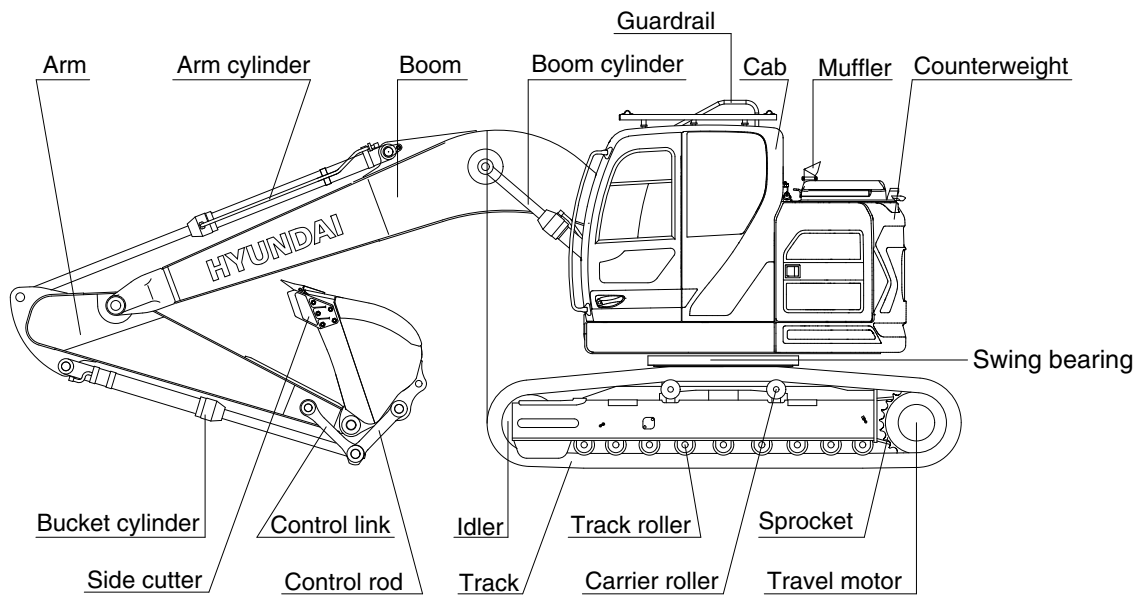
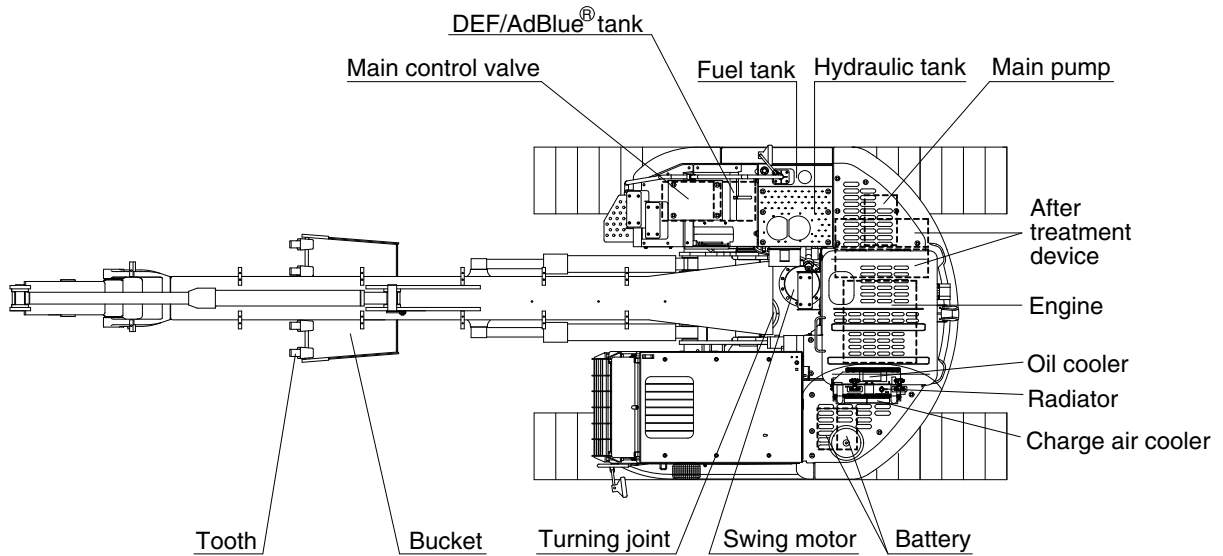


SPECIFICATIONS

1. MAJOR COMPONENT

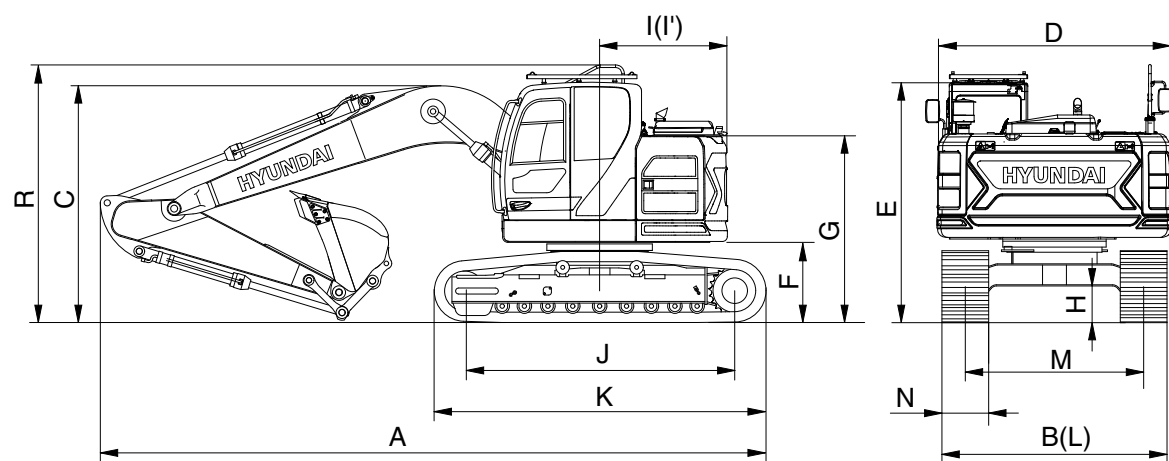


235F2SP01

2. SPECIFICATIONS

1) HX235LCR

· 5.68 m (18' 8") MONO BOOM and 2.92 m (9' 7") ARM

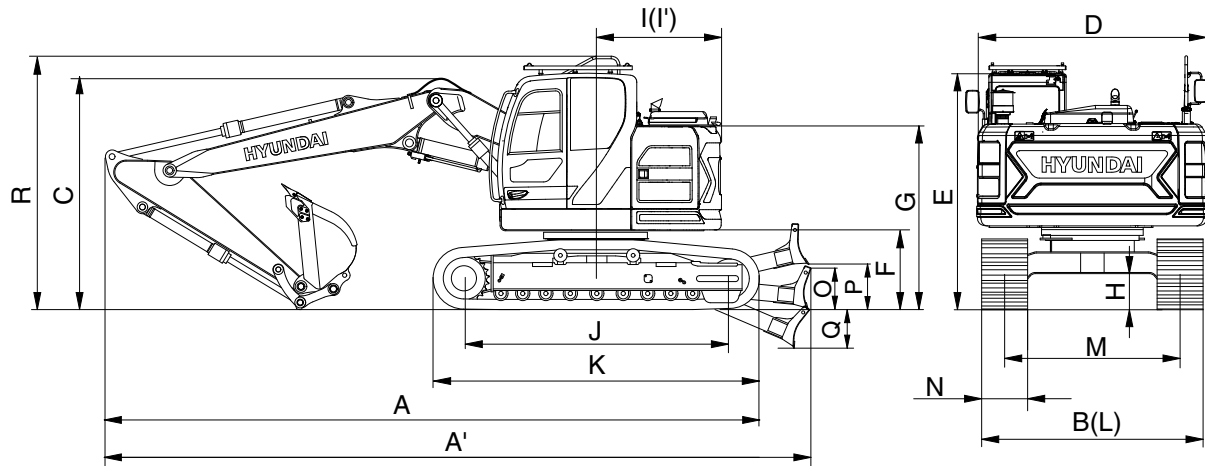


235F2SP02

Description		Unit	Specification
Operating weight		kg (lb)	24000 (52910)
Bucket capacity (SAE heaped), standard		m ³ (yd ³)	0.8 (1.05)
Overall length	A	mm (ft-in)	8910 (29' 3")
Overall width, with 600mm shoe	B		2990 (9' 10")
Overall height	C		3020 (9' 11")
Superstructure width	D		2980 (9' 9")
Overall height of cab	E		3100 (10' 2")
Ground clearance of counterweight	F		1080 (3' 7")
Engine cover height	G		2385 (7' 10")
Minimum ground clearance	H		480 (1' 7")
Rear-end distance	I		1780 (5' 10")
Rear-end swing radius	I'		1780 (5' 10")
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")
Overall height of guardrail	R		3290 (10' 10")
Travel speed (low/high)		km/hr (mph)	3.3/5.5 (2.1/3.4)
Swing speed		rpm	10.8
Gradeability		Degree (%)	35 (70)
Ground pressure (600 mm shoe)		kgf/cm ² (psi)	0.57 (8.11)
Max traction force		kg (lb)	20600 (45415)

2) HX235LCR

· 5.65 m (18' 6") HYD ADJUSTABLE BOOM AND 2.4 m (7' 10") ARM WITH DOZER



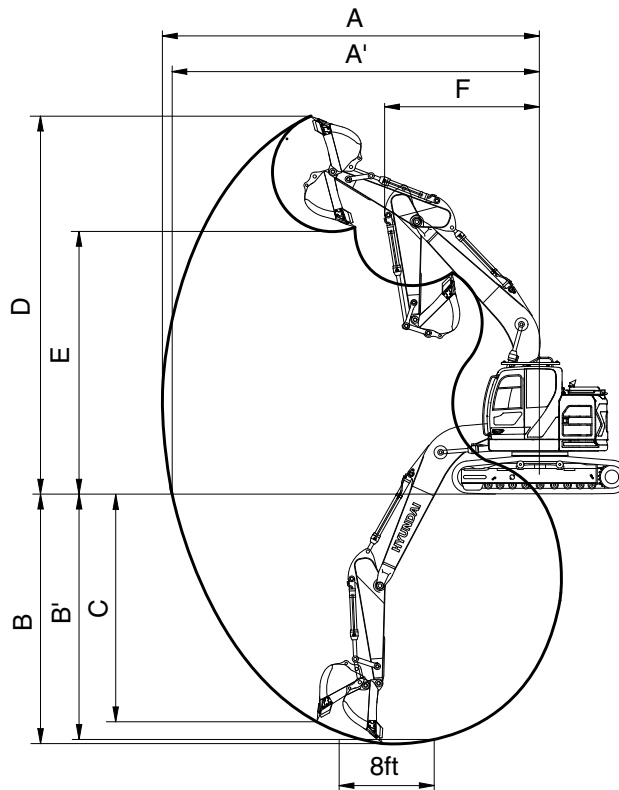
235F2SP02A

Description		Unit	Specification
Operating weight		kg (lb)	26700 (58860)
Bucket capacity (SAE heaped), standard		m³ (yd³)	0.8 (1.05)
Overall length	A / A'	mm (ft-in)	8910 (29' 3") / 9760 (32' 0")
Overall width, with 600mm shoe	B		2990 (9' 10")
Overall height	C		3000 (9' 10")
Superstructure width	D		2980 (9' 9")
Overall height of cab	E		3100 (10' 2")
Ground clearance of counterweight	F		1080 (3' 7")
Engine cover height	G		2385 (7' 10")
Minimum ground clearance	H		480 (1' 7")
Rear-end distance	I		1780 (5' 10")
Rear-end swing radius	I'		1780 (5' 10")
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")
Height of blade	O		710 (2' 4")
Ground clearance of blade up	P		575 (1' 11")
Depth of blade down	Q		390 (1' 3")
Overall height of guardrail	R		3290 (10' 10")
Travel speed (low/high)		km/hr (mph)	3.3/5.5 (2.1/3.4)
Swing speed		rpm	10.8
Gradeability		Degree (%)	35 (70)
Ground pressure (600 mm shoe)		kgf/cm² (psi)	0.57 (8.11)
Max traction force		kg (lb)	20600 (45415)

3. WORKING RANGE

1) HX235LCR

· 5.68 m (18' 8") MONO BOOM



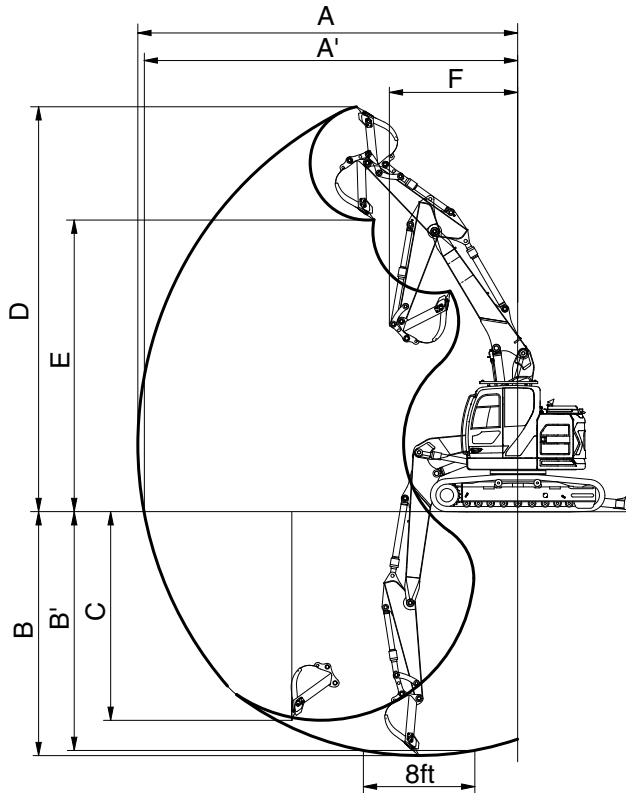
235F2SP03

Description		2.0 m (6' 7") Arm	2.40 m (7' 10") Arm	2.92 m (9' 7") Arm
Max digging reach	A	9040 mm (29' 8")	9430 mm (30' 11")	9910 mm (32' 6")
Max digging reach on ground	A'	8860 mm (29' 1")	9260 mm (30' 5")	9750 mm (32' 0")
Max digging depth	B	5780 mm (19' 0")	6180 mm (20' 3")	6700 mm (22' 0")
Max digging depth (8 ft level)	B'	5550 mm (18' 3")	5980 mm (19' 7")	6530 mm (21' 5")
Max vertical wall digging depth	C	5140 mm (16' 10")	5710 mm (18' 9")	6270 mm (20' 7")
Max digging height	D	10090 mm (33' 1")	10420 mm (34' 2")	10830 mm (35' 6")
Max dumping height	E	7190 mm (23' 7")	7510 mm (24' 8")	7890 mm (25' 11")
Min swing radius	F	2860 mm (9' 5")	2550 mm (8' 4")	2350 mm (7' 9")
Bucket digging force	SAE	133.4 [144.8] kN	133.4 [144.8] kN	133.4 [144.8] kN
		13600 [14770] kgf	13600 [14770] kgf	13600 [14770] kgf
		29980 [32550] lbf	29980 [32550] lbf	29980 [32550] lbf
	ISO	152.0 [165.0] kN	152.0 [165.0] kN	152.0 [165.0] kN
		15500 [16830] kgf	15500 [16830] kgf	15500 [16830] kgf
		34170 [37100] lbf	34170 [37100] lbf	34170 [37100] lbf
Arm digging force	SAE	144.2 [156.5] kN	119.6 [129.9] kN	102.0 [110.7] kN
		14700 [15960] kgf	12200 [13250] kgf	10400 [11290] kgf
		32410 [35190] lbf	26900 [29210] lbf	22930 [24900] lbf
	ISO	151.0 [164.0] kN	125.5 [136.3] kN	106.9 [116.1] kN
		15400 [16720] kgf	12800 [13900] kgf	10900 [11830] kgf
		33950 [36860] lbf	28220 [30640] lbf	24030 [26090] lbf

[] : Power boost

2) HX235LCR

· 5.65 m (18' 6") ADJUSTABLE BOOM



235F2SP03A

Description		2.0 m (6' 7") Arm	2.40 m (7' 10") Arm	2.92 m (9' 7") Arm
Max digging reach	A	9050 mm (29' 8")	9460 mm (31' 0")	10020 mm (32' 10")
Max digging reach on ground	A'	8880 mm (29' 2")	9290 mm (30' 6")	9860 mm (32' 4")
Max digging depth	B	5460 mm (17' 11")	5860 mm (19' 3")	6380 mm (20' 11")
Max digging depth (8 ft level)	B'	5340 mm (17' 6")	5750 mm (18' 10")	6270 mm (20' 7")
Max vertical wall digging depth	C	4530 mm (14' 10")	4970 mm (16' 4")	5520 mm (18' 1")
Max digging height	D	10600 mm (34' 9")	10990 mm (36' 1")	11470 mm (37' 8")
Max dumping height	E	7680 mm (25' 2")	8090 mm (26' 7")	8540 mm (28' 0")
Min swing radius	F	2130 mm (7' 0")	2030 mm (6' 8")	2000 mm (6' 7")
Bucket digging force	SAE	133.4 [144.8] kN	133.4 [144.8] kN	133.4 [144.8] kN
		13600 [14770] kgf	13600 [14770] kgf	13600 [14770] kgf
		29980 [32550] lbf	29980 [32550] lbf	29980 [32550] lbf
	ISO	152.0 [165.0] kN	152.0 [165.0] kN	152.0 [165.0] kN
		15500 [16830] kgf	15500 [16830] kgf	15500 [16830] kgf
		34170 [37100] lbf	34170 [37100] lbf	34170 [37100] lbf
Arm digging force	SAE	144.2 [156.5] kN	119.6 [129.9] kN	102.0 [110.7] kN
		14700 [15960] kgf	12200 [13250] kgf	10400 [11290] kgf
		32410 [35190] lbf	26900 [29210] lbf	22930 [24900] lbf
	ISO	151.0 [164.0] kN	125.5 [136.3] kN	106.9 [116.1] kN
		15400 [16720] kgf	12800 [13900] kgf	10900 [11830] kgf
		33950 [36860] lbf	28220 [30640] lbf	24030 [26090] lbf

[] : Power boost

4. WEIGHT

Item	kg	lb
Upperstructure assembly		
· Main frame weld assembly	2008	4430
· Engine assembly	520	1150
· Main pump assembly	140	310
· Main control valve assembly	220	485
· Swing motor assembly	350	770
· Hydraulic oil tank assembly	175	385
· Fuel tank assembly	150	331
· Counterweight	5300	11680
· Cab assembly	450	990
Lower chassis assembly		
· Track frame weld assembly	2720	6000
· Swing bearing	295	650
· Travel motor assembly	305	670
· Turning joint	55	120
· Track recoil spring	140	310
· Idler	151	333
· Carrier roller	21	46
· Track roller	48	106
· Sprocket	56	123
· Track-chain assembly (600 mm standard triple grouser shoe)	1451	3200
Front attachment assembly		
· 5.68 m boom assembly	1510	3330
· 2.92 m arm assembly	760	1680
· 0.8 m³ SAE heaped bucket	770	1700
· Boom cylinder assembly	190	420
· Arm cylinder assembly	290	640
· Bucket cylinder assembly	165	365
· Bucket control link assembly	170	370

※ 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

1) HX235LCR, MONO BOOM

(1) 5.68 m (18' 8") boom, 2.00 m (6' 7") arm equipped with 0.80 m³ (SAE heaped) bucket, 600 mm (24") triple grouser shoe.

·  : Rating over-front

·  : Rating over-side or 360 degree

Load point height										At max. reach		
		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		7.5 m (25 ft)		Capacity		Reach
												m (ft)
10.5 m (35 ft)	kg lb									*4160 *9170	*4160 *9170	4.63 (15.2)
9.0 m (30 ft)	kg lb									*4580 *10010	*4580 *10100	4.48 (14.7)
7.5 m (25 ft)	kg lb			*4770 *10520	*4770 *10520					*4100 *9040	*4100 *9040	6.56 (21.5)
6.0 m (20 ft)	kg lb			*4930 *10870	*4930 *10870	*4540 *10010	*4540 *10010			*3990 *8800	3080 6790	7.70 (25.3)
4.5 m (15 ft)	kg lb	*8300 *18300	*8300 *18300	*5880 *12960	*5880 *12960	*4860 *10710	4630 10210			*3990 *8800	2580 5690	8.36 (27.4)
3.0 m (10 ft)	kg lb			*7250 *15980	6860 15120	*5440 *11990	4370 9630	*4570 *10080	3000 6610	*4030 *8880	2340 5160	8.67 (28.4)
1.5 m (5 ft)	kg lb			*8350 *18410	6350 14000	*5980 *13180	4120 9080	*4770 *10520	2890 6370	*4080 *8990	2290 5050	8.66 (28.4)
Ground Line	kg lb			*8660 *19090	6110 13470	*6250 *13780	3960 8730			*4100 *9040	2410 5310	8.36 (27.4)
-1.5 m (-5 ft)	kg lb	*11410 *25150	*11410 *25150	*8260 *18210	6080 13400	*6050 *13340	3910 8620			*4010 *8840	2790 6150	7.69 (25.2)
-3.0 m (-10 ft)	kg lb	*9650 *21270	*9650 *21270	*7130 *15720	6190 13650	*5090 *11220	4000 8820			*3610 *7960	*3610 *7960	6.55 (21.5)

- Note
1. Lifting capacity are based on SAE J1097 and 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 load point is a hook located on the back of the bucket.
 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.**

(2) 5.68 m (18' 8") boom, 2.40 m (7' 10") arm equipped with 0.80 m³ (SAE heaped) bucket, 600 mm (24") triple grouser shoe.

·  : Rating over-front

·  : Rating over-side or 360 degree

Load point height		Load radius										At max. reach		
		1.5 m (5 ft)		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		7.5 m (25 ft)		Capacity		Reach
														m (ft)
9.0 m (30 ft)	kg lb											*4060 *8950	*4060 *8950	5.25 (17.2)
7.5 m (25 ft)	kg lb					*4230 *9330	*4230 *9330					*3770 *8310	3710 8180	7.07 (23.2)
6.0 m (20 ft)	kg lb					*4450 *9810	*4450 *9810	*4170 *9190	*4170 *9190			*3700 *8160	2800 6170	8.12 (26.6)
4.5 m (15 ft)	kg lb			*7210 *15900	*7210 *15900	*5400 *11900	*5400 *11900	*4550 *10030	*4550 *10030	*3900 *8600	3120 6880	*3720 *8200	2370 5220	8.74 (28.7)
3.0 m (10 ft)	kg lb			*11320 *24960	*11320 *24960	*6790 *14970	*6790 *14970	*5170 *11400	4410 9720	*4360 *9610	3010 6640	*3770 *8310	2160 4760	9.04 (29.7)
1.5 m (5 ft)	kg lb					*8040 *17730	6400 14110	*5790 *12760	4130 9110	*4630 *10210	2880 6350	*3830 *8440	2110 4650	9.03 (29.6)
Ground Line	kg lb			*9170 *20220	*9170 *20220	*8580 *18920	6100 13450	*6150 *13560	3940 8690	*4760 *10490	2780 6130	*3870 *8530	2210 4870	8.74 (28.7)
-1.5 m (-5 ft)	kg lb	*9770 *21540	*9770 *21540	*12150 *26790	12070 26610	*8390 *18500	6010 13250	*6100 *13450	3860 8510			*3840 *8470	2510 5530	8.12 (26.6)
-3.0 m (-10 ft)	kg lb	*14230 *31370	*14230 *31370	*10480 *23100	*10480 *23100	*7490 *16510	6080 13400	*5420 *11950	3900 8600			*3600 *7940	3230 7120	7.06 (23.2)
-4.5 m (-15 ft)	kg lb			*7610 *16780	*7610 *16780	*5470 *12060								

(3) 5.68 m (18' 8") boom, 2.92 m (9' 7") arm equipped with 0.80 m³ (SAE heaped) bucket, 600 mm (24") triple grouser shoe.

·  : Rating over-front

·  : Rating over-side or 360 degree

Load point height		Load radius										At max. reach		
		1.5 m (5 ft)		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		7.5 m (25 ft)		Capacity		Reach
														m (ft)
9.0 m (30 ft)	kg lb					*2920 *6440	*2920 *6440					*3570 *7870	*3570 *7870	6.12 (20.1)
7.5 m (25 ft)	kg lb							*3260 *7190	*3260 *7190			*3410 *7520	3210 7080	7.70 (25.3)
6.0 m (20 ft)	kg lb							*3720 *8200	*3720 *8200			*3380 *7450	2500 5510	8.66 (28.4)
4.5 m (15 ft)	kg lb					*4750 *10470	*4750 *10470	*4140 *9130	*4140 *9130	*3800 *8380	3170 6990	*3410 *7520	2130 4700	9.24 (30.3)
3.0 m (10 ft)	kg lb			*9680 *21340	*9680 *21340	*6180 *13620	*6180 *13620	*4810 *10600	4460 9830	*4100 *9040	3030 6680	*3460 *7630	1950 4300	9.52 (31.2)
1.5 m (5 ft)	kg lb			*9550 *21050	*9550 *21050	*7590 *16730	6510 14350	*5500 *12130	4160 9170	*4440 *9790	2880 6350	*3530 *7780	1900 4190	9.52 (31.2)
Ground Line	kg lb			*9930 *21890	*9930 *21890	*8400 *18520	6110 13470	*5990 *13210	3930 8660	*4670 *10300	2760 6080	*3600 *7940	1970 4340	9.24 (30.3)
-1.5 m (-5 ft)	kg lb	*8850 *19510	*8850 *19510	*12790 *28200	11890 26210	*8470 *18670	5950 13120	*6100 *13450	3810 8400	*4630 *10210	2690 5930	*3620 *7980	2210 4870	8.66 (28.4)
-3.0 m (-10 ft)	kg lb	*12280 *27070	*12280 *27070	*11380 *25090	*11380 *25090	*7840 *17280	5960 13140	*5690 *12540	3810 8400			*3500 *7720	2750 6060	7.69 (25.2)
-4.5 m (-15 ft)	kg lb			*8920 *19670	*8920 *19670	*6300 *13890	6140 13540					*2930 *6460	*2930 *6460	6.11 (20.0)

2) HX235LCR, ADJUSTABLE BOOM

(1) 5.65 m (18' 6") boom, 2.00 m (6' 7") arm equipped with 0.80 m³ (SAE heaped) bucket, 600 mm (24") triple grouser shoe.

·  : Rating over-front

·  : Rating over-side or 360 degree

Load point height										At max. reach		
		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		7.5 m (25 ft)		Capacity		Reach
												m (ft)
9.0 m (30 ft)	kg lb									*6750 *14880	*6750 *14880	4.51 (14.8)
7.5 m (25 ft)	kg lb	*8110 *17880	*8110 *17880	*6850 *15100	*6850 *15100					*5200 *11460	4160 9170	6.58 (21.6)
6.0 m (20 ft)	kg lb	*8460 *18650	*8460 *18650	*6960 *15340	*6960 *15340	*5740 *12650	4770 10520			*4630 *10210	3040 6700	7.72 (25.3)
4.5 m (15 ft)	kg lb	*11210 *24710	*11210 *24710	*7620 *16800	7500 16530	*5920 *13050	4610 10160			*4270 *9410	2530 5580	8.37 (27.5)
3.0 m (10 ft)	kg lb			*8430 *18580	6830 15060	*6190 *13650	4340 9570	*4850 *10690	2960 6530	*3960 *8730	2300 5070	8.68 (28.5)
1.5 m (5 ft)	kg lb			*8660 *19090	6280 13850	*6260 *13800	4080 8990	*4710 *10380	2850 6280	*3610 *7960	2250 4960	8.68 (28.5)
Ground Line	kg lb			*7950 *17530	6040 13320	*5880 *12960	3910 8620	*4200 *9260	2780 6130	*3130 *6900	2380 5250	8.37 (27.5)
-1.5 m (-5 ft)	kg lb	*7060 *15560	*7060 *15560	*6470 *14260	6020 13270	*4870 *10740	3870 8530			*2330 *5140	*2330 *5140	7.71 (25.3)
-3.0 m (-10 ft)	kg lb			*4140 *9130	*4140 *9130	*2800 *6170	*2800 *6170					

- Note
1. Lifting capacity are based on SAE J1097 and 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 load point is a hook located on the back of the bucket.
 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.

(2) 5.65 m (18' 6") boom, 2.40 m (7' 10") arm equipped with 0.80 m³ (SAE heaped) bucket, 600 mm (24") triple grouser shoe.

·  : Rating over-front

·  : Rating over-side or 360 degree

Load point height										At max. reach		
		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		7.5 m (25 ft)		Capacity		Reach
												m (ft)
9.0 m	kg	*5600	*5600							*5830	*5830	5.31
(30 ft)	lb	*12350	*12350							*12850	*12850	(17.4)
7.5 m	kg	*6240	*6240	*5830	*5830					*4760	3650	7.10
(25 ft)	lb	*13760	*13760	*12850	*12850					*10490	8050	(23.3)
6.0 m	kg	*6390	*6390	*6570	*6570	*5480	4850			*4290	2750	8.15
(20 ft)	lb	*14090	14090	*14480	*14480	*12080	10690			*9460	6060	(26.7)
4.5 m	kg	*10370	*10370	*7270	*7270	*5720	4670	*4040	3090	*3980	2320	8.77
(15 ft)	lb	*22860	*22860	*16030	*16030	*12610	10300	*8910	6810	*8770	5110	(28.8)
3.0 m	kg			*8170	6960	*6050	4380	*4790	2980	*3720	2110	9.06
(10 ft)	lb			*18010	15340	*13340	9660	*10560	6570	*8200	4650	(29.7)
1.5 m	kg			*8620	6350	*6220	4090	*4740	2840	*3420	2070	9.06
(5 ft)	lb			*19000	14000	*13710	9020	*10450	6260	*7540	4560	(29.7)
Ground	kg	*8940	*8940	*8190	6030	*5980	3890	*4400	2740	*3010	2170	8.77
Line	lb	*19710	*19710	*18060	13290	*13180	8580	*9700	6040	*6640	4780	(28.8)
-3.0 m	kg	*8500	*8500	*6940	5950	*5160	3820			*2360	*2360	8.15
(-5 ft)	lb	*18740	*18740	*15300	13120	*11380	8420			*5200	*5200	(26.7)
-3.0 m	kg			*4860	*4860	*3490	*3490					
(-10 ft)	lb			*10710	*10710	*7690	*7690					

(3) 5.65 m (18' 6") boom, 2.92 m (9' 7") arm equipped with 0.80 m³ (SAE heaped) bucket, 600 mm (24") triple grouser shoe.

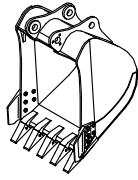
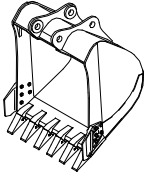
·  : Rating over-front

·  : Rating over-side or 360 degree

Load point height										At max. reach		
		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		7.5 m (25 ft)		Capacity		Reach
												m (ft)
9.0 m	kg	*4950	*4950	*3120	*3120					*4630	*4630	6.19
(30 ft)	lb	*10910	*10910	*6880	*6880					*10210	*10210	(20.3)
7.5 m	kg			*4750	*4750	*3400	*3400			*4050	3130	7.75
(25 ft)	lb			*10470	*10470	*7500	*7500			*8930	6900	(25.4)
6.0 m	kg	*4760	*4760	*5190	*5190	*4840	*4840	*2180	*2180	*3820	2430	8.71
(20 ft)	lb	*10490	*10490	*11440	*11440	*10670	*10670	*4810	*4810	*8420	5360	(28.6)
4.5 m	kg	*6690	*6690	*6760	*6760	*5420	4750	*4250	3140	*3650	2070	9.29
(15 ft)	lb	*14750	*14750	*14900	*14900	*11950	10470	*9370	6920	*8050	4560	(30.5)
3.0 m	kg	*12100	*12100	*7760	7130	*5820	4440	*4670	3000	*3430	1890	9.56
(10 ft)	lb	*26680	*26680	*17110	15720	*12830	9790	*10300	6610	*7560	4170	(31.4)
1.5 m	kg	*9380	*9380	*8470	6450	*6110	4110	*4710	2840	*3180	1850	9.56
(5 ft)	lb	*20680	*20680	*18670	14220	*13470	9060	*10380	6260	*7010	4080	(31.4)
Ground	kg	*9730	*9730	*8370	6020	*6040	3870	*4520	2710	*2850	1930	9.29
Line	lb	*21450	*21450	*18450	13270	*13320	8530	*9960	5970	*6280	4250	(30.5)
-1.5 m	kg	*9980	*9980	*7420	5870	*5440	3750	*3890	2650	*2330	2170	8.71
(-5 ft)	lb	*22000	*22000	*16360	12940	*11990	8270	*8580	5840	*5140	4780	(28.6)
-3.0 m	kg	*7060	*7060	*5650	*5650	*4130	3760					
(-10 ft)	lb	*15560	*15560	*12460	*12460	*9110	8290					

6. BUCKET SELECTION GUIDE

1) GENERAL BUCKET

	
0.80, 0.87, 0.92, 1.10, 1.20 m³ SAE heaped bucket	1.34 m³ SAE heaped bucket

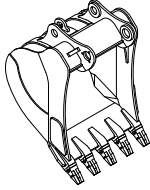
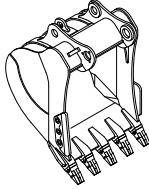
Capacity		Width		Weight	Recommendation		
					5.68 m (18' 8") Mono boom		
SAE heaped	CECE heaped	Without side cutter	With side cutter		2.0 m arm (6' 7")	2.4 m arm (7' 10")	2.92 m arm (9' 7")
0.80 m³ (1.05 yd³)	0.70 m³ (0.92 yd³)	1070 mm (42.1")	1160 mm (45.7")	770 kg (1700 lb)			
0.87 m³ (1.14 yd³)	0.76 m³ (0.99 yd³)	1140 mm (44.9")	1230 mm (48.4")	800 kg (1760 lb)			
0.92 m³ (1.20 yd³)	0.80 m³ (1.05 yd³)	1190 mm (46.9")	1280 mm (50.4")	820 kg (1810 lb)			
1.10 m³ (1.44 yd³)	0.96 m³ (1.26 yd³)	1375 mm (54.1")	1465 mm (57.7")	890 kg (1960 lb)			
1.20 m³ (1.57 yd³)	1.05 m³ (1.37 yd³)	1390 mm (54.7")	1480 mm (58.3")	920 kg (2030 lb)			
1.34 m³ (1.75 yd³)	1.17 m³ (1.53 yd³)	1525 mm (60.0")	1615 mm (63.6")	990 kg (2180 lb)			

 Applicable for materials with density of 2000 kg/m³ (3370 lb/yd³) or less

 Applicable for materials with density of 1600 kg/m³ (2700 lb/yd³) or less

 Applicable for materials with density of 1100 kg/m³ (1850 lb/yd³) or less

2) HEAVY DUTY AND ROCK-HEAVY DUTY BUCKET

	
◆ 0.90, 1.05 m ³ SAE heaped bucket	⊙ 0.87 m ³ SAE heaped bucket

Capacity		Width		Weight	Recommendation		
					5.68 m (18' 8") boom		
SAE heaped	SAE heaped	Without side cutter	With side cutter		2.0 m arm (6' 7")	2.4 m arm (7' 10")	2.92 m arm (9' 7")
◆ 0.90 m ³ (1.18 yd ³)	0.79 m ³ (1.03 yd ³)	1210 mm (47.6")	-	880 kg (1940 lb)			
◆ 1.05 m ³ (1.37 yd ³)	0.92 m ³ (1.20 yd ³)	1355 mm (53.3")	-	940 kg (2070 lb)			
⊙ 0.87 m ³ (1.14 yd ³)	0.77 m ³ (1.01 yd ³)	1195 mm (47.0")	-	940 kg (2070 lb)			

◆ : Heavy duty bucket ⊙ : Rock-Heavy duty bucket

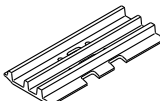
-  Applicable for materials with density of 2000 kg/m³ (3370 lb/yd³) or less
-  Applicable for materials with density of 1600 kg/m³ (2700 lb/yd³) or less
-  Applicable for materials with density of 1100 kg/m³ (1850 lb/yd³) or less

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			
						
HX235LCR	Shoe width	mm (in)	600 (24)	700 (28)	800 (32)	900 (36)
	Operating weight	kg (lb)	24000 (52910)	24280 (53530)	24560 (54150)	24840 (54760)
	Ground pressure	kgf/cm ² (psi)	0.51 (7.25)	0.44 (6.26)	0.39 (5.55)	0.35 (4.98)
	Overall width	mm (ft-in)	2990 (9' 10")	3090 (10' 2")	3190 (10' 6")	3290 (10' 10")
HX235LCR DOZER	Shoe width	mm (in)	600 (24)	700 (28)	800 (32)	900 (36)
	Operating weight	kg (lb)	25500 (56220)	25780 (56830)	26060 (57450)	26340 (58070)
	Ground pressure	kgf/cm ² (psi)	0.54 (7.68)	0.47 (6.68)	0.42 (5.97)	0.37 (5.26)
	Overall width	mm (ft-in)	2990 (9' 10")	3090 (10' 2")	3190 (10' 6")	3290 (10' 10")
HX235LCR DOZER + ADJUST BOOM	Shoe width	mm (in)	600 (24)	700 (28)	800 (32)	900 (36)
	Operating weight	kg (lb)	26700 (58860)	26980 (59480)	27260 (60100)	27540 (60710)
	Ground pressure	kgf/cm ² (psi)	0.57 (8.11)	0.49 (6.97)	0.44 (6.26)	0.39 (5.55)
	Overall width	mm (ft-in)	2990 (9' 10")	3090 (10' 2")	3190 (10' 6")	3290 (10' 10")

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
800 mm triple grouser	Option	C
900 mm triple grouser	Option	C

※ **Table 2**

Category	Applications	Precautions
A	Rocky ground, river beds, normal soil	Travel at low speed on rough ground with large obstacles such as boulders or fallen trees
B	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
C	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	Cummins QSB6.7
Type	4-cycle turbocharged diesel engine, low emission
Cooling method	Water cooling
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 (4.2" × 4.9")
Piston displacement	6700 cc (409cu in)
Compression ratio	17.3 : 1
Rated net horse power (SAE J1349)	173 Hp at 1950 rpm (129 kW at 1950 rpm)
Rated gross horse power (SAE J1995)	182.6 Hp at 1950 rpm (136 kW at 1950 rpm)
Maximum torque at 1500 rpm	85.7 kgf · m (620 lbf · ft)
Engine oil quantity	23.7 ℓ (6.26 U.S. gal)
Dry weight	520 kg (1146 lb)
High idling speed	1800 ± 50 rpm
Low idling speed	850 ± 100 rpm
Rated fuel consumption	158.5 g/Hp · hr at 1950 rpm
Starting motor	Nippon denso (24 V-4.8 kW)
Alternator	Nippon denso (24 V-95 A)
Battery	2 × 12 V × 100 Ah

2) MAIN PUMP

Item	Specification
Type	Variable displacement tandem axis piston pumps
Capacity	2 × 117cc/rev
Maximum pressure	350kgf/cm ² (4980psi) [380 kgf/cm ² (5400 psi)]
Rated oil flow	2 × 228.2 ℓ /min (60.3U.S. gpm/ 50.2U.K. gpm)
Rated speed	1900 rpm

[] : Power boost

3) GEAR PUMP

Item	Specification
Type	Fixed displacement gear pump single stage
Capacity	15 cc/rev
Maximum pressure	40 kgf/cm ² (570 psi)
Rated oil flow	28.5 ℓ /min (7.5 U.S. gpm/6.3 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)]
Port relief valve pressure	Boom 400 kgf/cm ² (5690 psi)
	Arm 400 kgf/cm ² (5690 psi)
	Bucket 400 kgf/cm ² (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 ² (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 ² (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 ² (4980 psi)
Reduction gear type	2-stage planetary
Braking system	Automatic, spring applied hydraulic released
Brake release pressure	14.2~16.8 kgf/cm ² (202~239 psi)
Braking torque	72.3 kgf · m (523 lbf · ft)

7) CYLINDER

Item		Specification
Boom cylinder	Bore dia × Rod dia × Stroke	Ø 120 × Ø 85 × 1290 mm
	Cushion	Extend only
Arm cylinder	Bore dia × Rod dia × Stroke	Ø 140 × Ø 100 × 1510 mm
	Cushion	Extend and retract
Bucket cylinder	Bore dia × Rod dia × Stroke	Ø 120 × Ø 85 × 1055 mm
	Cushion	Extend only
Dozer cylinder (opt)	Bore dia × Rod dia × Stroke	Ø 130 × Ø 80 × 240 mm
	Cushion	-
Adjust cylinder (opt)	Bore dia × Rod dia × Stroke	Ø 160 × Ø 100 × 1060 mm
	Cushion	-
Adjust boom cylinder (opt)	Bore dia × Rod dia × Stroke	Ø 125 × Ø 85 × 1260 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.

8) SHOE

Item		Width	Ground pressure	Link quantity	Overall width
HX235LCR	Standard	600 mm (24")	0.51 kgf/cm ² (7.25 psi)	49	2990 mm (9' 10")
	Option	700 mm (28")	0.44 kgf/cm ² (6.26 psi)	49	3090 mm (10' 2")
		800 mm (32")	0.39 kgf/cm ² (5.55 psi)	49	3190 mm (10' 6")
		900 mm (36")	0.35 kgf/cm ² (4.98 psi)	49	3290 mm (10' 10")

9) BUCKET

Item	Capacity		Tooth quantity	Width	
	SAE heaped	CECE heaped		Without side cutter	With side cutter
HX235LCR	0.80 m ³ (1.05 yd ³)	0.70 m ³ (0.92 yd ³)	5	1070 mm (42.1")	1160 mm (45.7")
	0.87 m ³ (1.14 yd ³)	0.76 m ³ (0.99 yd ³)	5	1140 mm (44.9")	1230 mm (48.4")
	0.92 m ³ (1.20 yd ³)	0.80 m ³ (1.05 yd ³)	5	1190 mm (46.9")	1280 mm (50.4")
	1.10 m ³ (1.44 yd ³)	0.96 m ³ (1.26 yd ³)	5	1375 mm (54.1")	1465 mm (57.7")
	1.20 m ³ (1.57 yd ³)	1.05 m ³ (1.37 yd ³)	5	1390 mm (54.7")	1480 mm (58.3")
	1.34 m ³ (1.75 yd ³)	1.17 m ³ (1.53 yd ³)	6	1525 mm (60.0")	1615 mm (63.6")
	◆ 0.90 m ³ (1.18 yd ³)	0.79 m ³ (1.03 yd ³)	5	1210 mm (47.6")	-
	◆ 1.05 m ³ (1.37 yd ³)	0.92 m ³ (1.20 yd ³)	5	1355 mm (53.3")	-
	◎ 0.87 m ³ (1.14 yd ³)	0.77 m ³ (1.01 yd ³)	5	1195 mm (47.0")	-

◆ : Heavy duty bucket

◎ : Rock-Heavy duty bucket

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	23.7 (6.3)	★SAE 5W-40									
						SAE 30						
			SAE 10W									
			SAE 10W-30									
			SAE 15W-40									
DEF/ AdBlue® tank	Mixture of urea and deionized water	27.0 (7.1)	ISO 22241, High-purity urea + deionized water (32.5:67.5)									
Swing drive	Gear oil	7.0 (1.8)	★SAE 75W-90									
Final drive		7.8×2 (2.1×2)	SAE 80W-90									
Hydraulic tank	Hydraulic oil	Tank : 160 (42.3)	★ISO VG 15									
		System : 275 (72.6)	ISO VG 32									
			ISO VG 46, HBHO 46★ ³									
			ISO VG 68									
Fuel tank	Diesel fuel★ ¹	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★ 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 HD Hyundai Construction Equipment dealers.