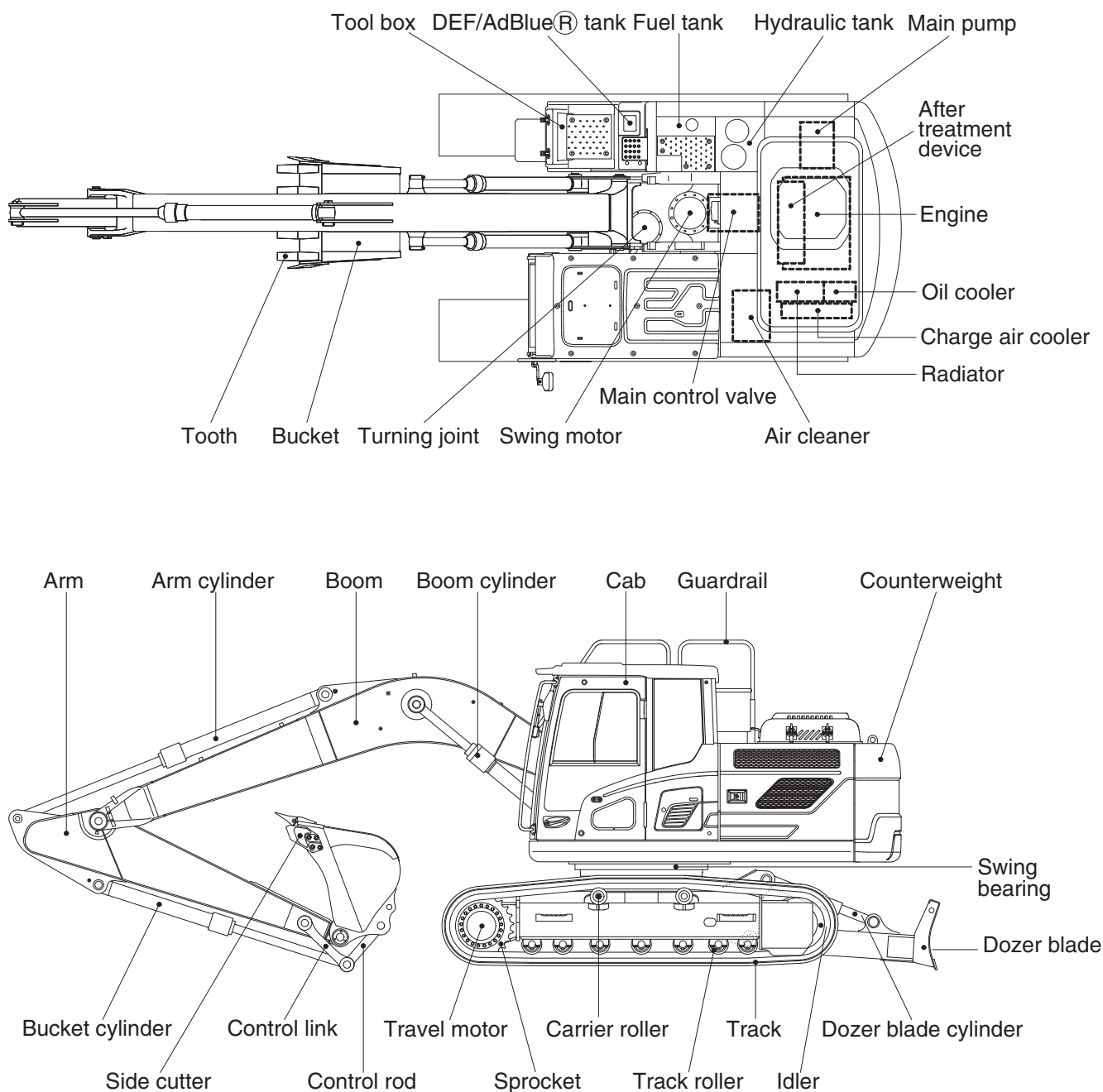


SPECIFICATIONS

1. MAJOR COMPONENT

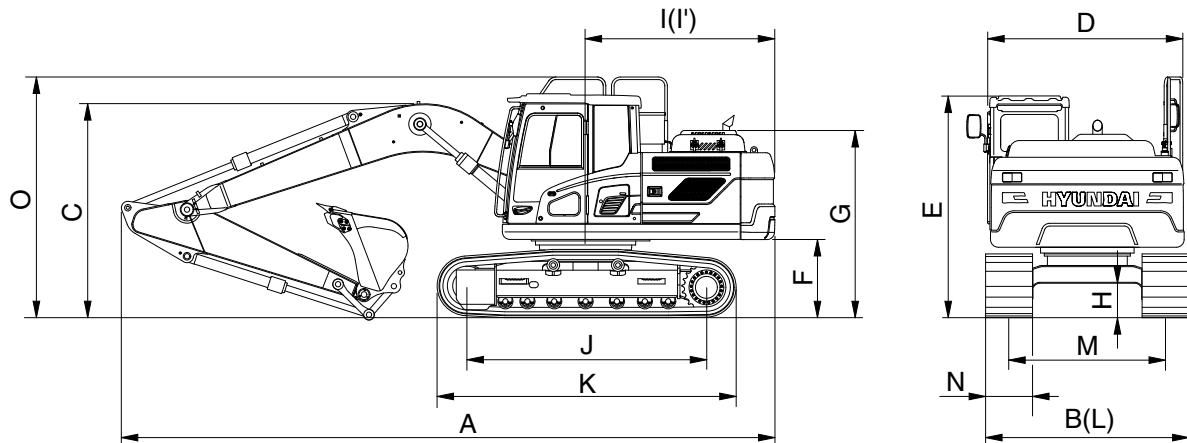


160F2SP01

2. SPECIFICATIONS

1) HX160 L

· 5.1 m (16' 9") BOOM and 2.6 m (8' 6") ARM

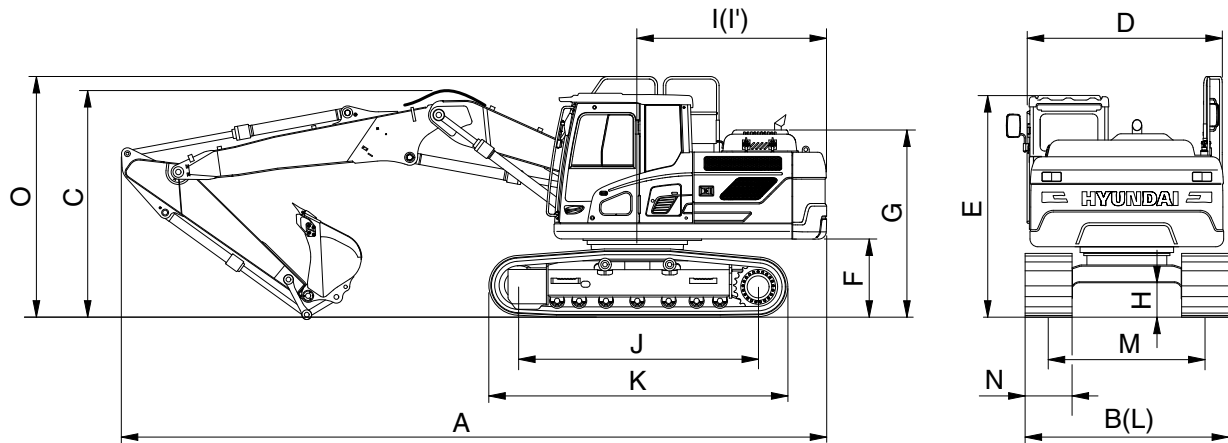


180F2SP02

Description		Unit	Specification
Operating weight		kg (lb)	18100 (39900)
Bucket capacity (SAE heaped), standard		m ³ (yd ³)	0.70 (0.92)
Overall length	A	mm (ft-in)	8650 (28' 5")
Overall width, with 600 mm shoe	B		2590 (8' 6")
Overall height of boom	C		2990 (9' 10")
Superstructure width	D		2475 (8' 1")
Overall height of cab	E		2980 (9' 9")
Ground clearance of counterweight	F		1055 (3' 6")
Engine cover height	G		2525 (8' 3")
Minimum ground clearance	H		460 (1' 6")
Rear-end distance	I		2480 (8' 2")
Rear-end swing radius	I'		2480 (8' 2")
Distance between tumblers	J		3170 (10' 5")
Undercarriage length	K		3926 (12' 11")
Undercarriage width	L		2590 (8' 6")
Track gauge	M		1990 (6' 6")
Track shoe width, standard	N		600 (24")
Overall height of guardrail	O		3220 (10' 6")
Travel speed (low/high)		km/hr (mph)	3.2/5.3 (2.0/3.3)
Swing speed		rpm	10.3
Gradeability		Degree (%)	35 (70)
Ground pressure (600 mm shoe)		kgf/cm ² (psi)	0.44 (6.26)
Max traction force		kg (lb)	17000 (37500)

2) HX160 L

· 5.1 m (16' 9") HYDRAULIC ADJUSTABLE BOOM AND 2.6 m (8' 6") ARM

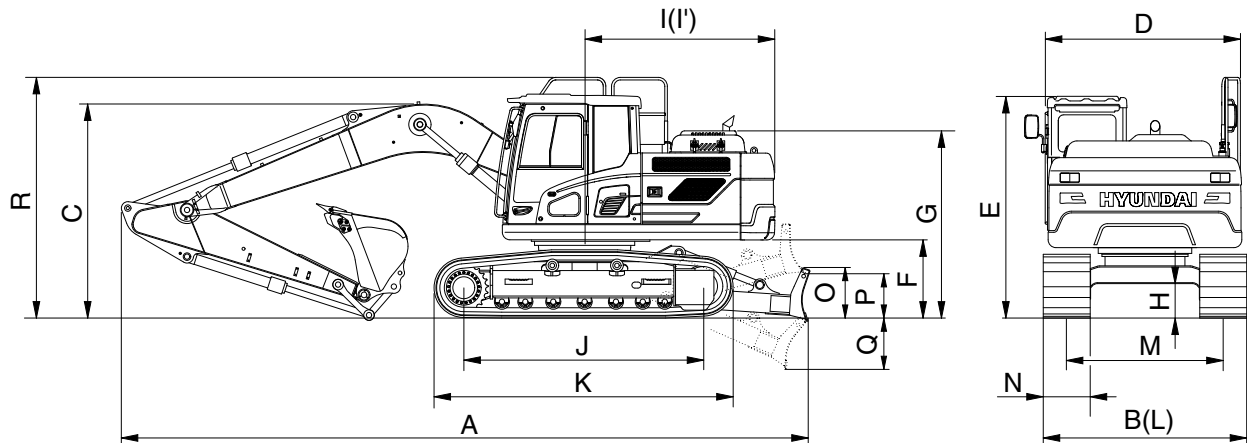


180F2SP03

Description		Unit	Specification
Operating weight		kg (lb)	19000 (41890)
Bucket capacity (SAE heaped), standard		m ³ (yd ³)	0.70 (0.92)
Overall length	A	mm (ft-in)	8610 (28' 3")
Overall width, with 600 mm shoe	B		2590 (8' 6")
Overall height of boom	C		3060 (10' 0")
Superstructure width	D		2475 (8' 1")
Overall height of cab	E		2980 (9' 9")
Ground clearance of counterweight	F		1055 (3' 6")
Engine cover height	G		2525 (8' 3")
Minimum ground clearance	H		460 (1' 6")
Rear-end distance	I		2480 (10' 5")
Rear-end swing radius	I'		2480 (8' 2")
Distance between tumblers	J		3170 (10' 5")
Undercarriage length	K		3926 (12' 11")
Undercarriage width	L		2590 (8' 6")
Track gauge	M		1990 (6' 6")
Track shoe width, standard	N		600 (24")
Overall height of guardrail	O		3220 (10' 6")
Travel speed (low/high)		km/hr (mph)	3.2/5.3 (2.0/3.3)
Swing speed		rpm	10.3
Gradeability		Degree (%)	35 (70)
Ground pressure (600 mm shoe)		kgf/cm ² (psi)	0.46 (6.54)
Max traction force		kg (lb)	17000 (37500)

3) HX160 L

· 5.1 m (16' 9") BOOM and 2.6 m (8' 6") ARM WITH DOZER

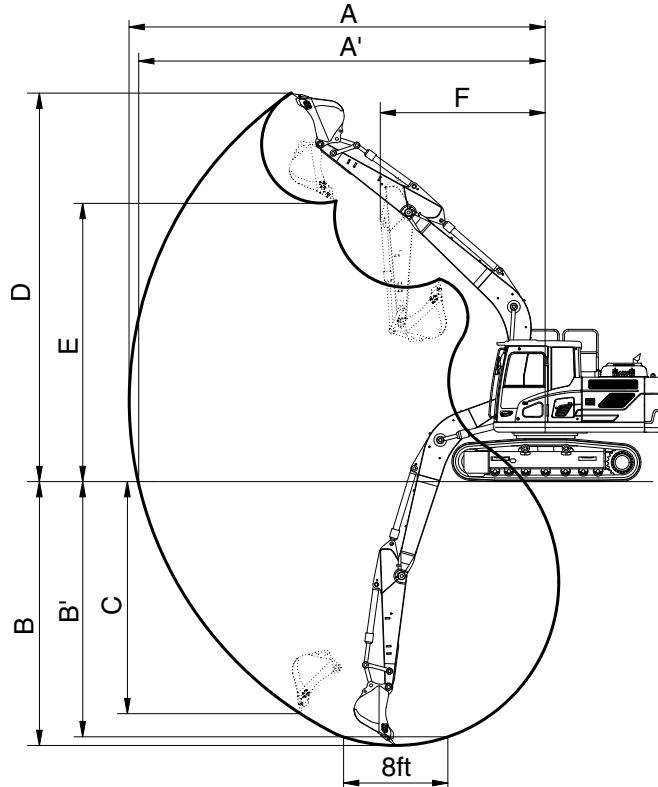


180F2SP04A

Description		Unit	Specification
Operating weight		kg (lb)	18900 (41670)
Bucket capacity (SAE heaped), standard		m ³ (yd ³)	0.70 (0.92)
Overall length	A	mm (ft-in)	9100 (29' 10")
Overall width, with 600 mm shoe	B		2590 (8' 6")
Overall height of boom	C		2990 (9' 10")
Superstructure width	D		2475 (8' 1")
Overall height of cab	E		2980 (9' 9")
Ground clearance of counterweight	F		1055 (3' 6")
Engine cover height	G		2525 (8' 3")
Minimum ground clearance	H		460 (1' 6")
Rear-end distance	I		2480 (8' 2")
Rear-end swing radius	I'		2480 (8' 2")
Distance between tumblers	J		3170 (10' 5")
Undercarriage length	K		3926 (12' 11")
Undercarriage width	L		2590 (8' 6")
Track gauge	M		1990 (6' 6")
Track shoe width, standard	N		600 (24")
Height of blade	O		645 (2' 1")
Ground clearance of blade up	P		615 (2' 0")
Depth of blade down	Q		675 (2' 3")
Overall height of guardrail	R		3220 (10' 6")
Travel speed (low/high)		km/hr (mph)	3.2/5.3 (2.0/3.3)
Swing speed		rpm	10.3
Gradeability		Degree (%)	35 (70)
Ground pressure (600 mm shoe)		kgf/cm ² (psi)	0.46 (6.54)
Max traction force		kg (lb)	17000 (37500)

3. WORKING RANGE

1) 5.1 m (16' 9") MONO BOOM

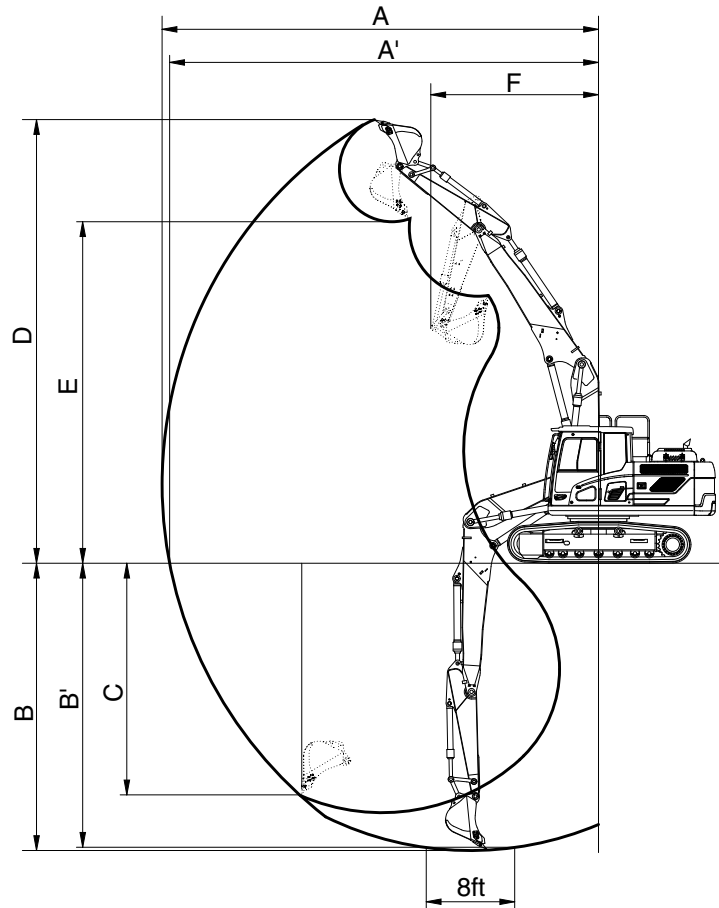


180F2SP06

Description		2.2 m (7' 3") Arm	2.6 m (8' 6") Arm	3.1 m (10' 2") Arm
Max digging reach	A	8690 mm (28' 6")	9020 mm (29' 7")	9450 mm (31' 0")
Max digging reach on ground	A'	8530 mm (27'12")	8860 mm (29' 1")	9300 mm (30' 6")
Max digging depth	B	5660 mm (18' 7")	6060 mm (19'11")	6560 mm (21' 6")
Max digging depth (8ft level)	B'	5430 mm (17'10")	5850 mm (19' 2")	6370 mm (20'11")
Max vertical wall digging depth	C	5120 mm (16'10")	5380 mm (17' 8")	5710 mm (18' 9")
Max digging height	D	8750 mm (28' 8")	8840 mm (29' 0")	8980 mm (29' 6")
Max dumping height	E	6110 mm (20' 1")	6220 mm (20' 5")	6390 mm (21' 0")
Min swing radius	F	3180 mm (10' 5")	3170 mm (10' 5")	3170 mm (10' 5")
Bucket digging force	SAE	107.9 [117.2] kN	107.9 [117.2] kN	107.9 [117.2] kN
		11000 [11940] kgf	11000 [11940] kgf	11000 [11940] kgf
		24250 [26330] lbf	24250 [26330] lbf	24250 [26330] lbf
	ISO	123.6 [134.2] kN	123.6 [134.2] kN	123.6 [134.2] kN
		12600 [13680] kgf	12600 [13680] kgf	12600 [13680] kgf
		27780 [30160] lbf	27780 [30160] lbf	27780 [30160] lbf
Arm crowd force	SAE	87.2 [94.7] kN	77.3 [83.9] kN	69.0 [74.9] kN
		8890 [9650] kgf	7880 [8560] kgf	7030 [7630] kgf
		19600 [21280] lbf	17370 [18860] lbf	15500 [16830] lbf
	ISO	91.0 [98.8] kN	80.3 [87.2] kN	71.4 [77.5] kN
		9280 [10080] kgf	8190 [8890] kgf	7280 [7900] kgf
		20460 [22210] lbf	18060 [19600] lbf	16050 [17430] lbf

[] : Power boost

2) 5.1 m (16' 9") HYDRAULIC ADJUSTABLE BOOM



180F2SP08

Description		2.2 m (7' 3") Arm	2.6 m (8' 6") Arm
Max digging reach	A	8760 mm (28' 9")	9110 mm (29'11")
Max digging reach on ground	A'	8590 mm (28' 2")	8950 mm (29' 4")
Max digging depth	B	5430 mm (17' 10")	5830 mm (19' 2")
Max digging depth (8ft level)	B'	5330 mm (17' 6")	5730 mm (18'10")
Max vertical wall digging depth	C	4630 mm (15' 2")	4980 mm (16' 4")
Max digging height	D	9420 mm (30' 11")	9610 mm (31' 6")
Max dumping height	E	6710 mm (22' 0")	6910 mm (22' 8")
Min swing radius	F	3100 mm (10' 2")	2970 mm (9' 9")
Bucket digging force	SAE	107.9 [117.2] kN	107.9 [117.2] kN
		11000 [11940] kgf	11000 [11940] kgf
		24250 [26330] lbf	24250 [26330] lbf
	ISO	123.6 [134.2] kN	123.6 [134.2] kN
		12600 [13680] kgf	12600 [13680] kgf
		27780 [30160] lbf	27780 [30160] lbf
Arm crowd force	SAE	87.2 [94.7] kN	77.3 [83.9] kN
		8890 [9650] kgf	7880 [8560] kgf
		19600 [21280] lbf	17370 [18860] lbf
	ISO	91.0 [98.8] kN	80.3 [87.2] kN
		9280 [10080] kgf	8190 [8890] kgf
		20460 [22210] lbf	18060 [19600] lbf

[] : Power boost

4. WEIGHT

Item	HX160 L		HX160 L (with dozer)	
	kg	lb	kg	lb
Upper structure assembly				
· Main frame weld assembly	1440	3170	←	
· Engine assembly	589	1300	←	
· Fan clutch assembly	45	100	←	
· Main pump assembly	89	200	←	
· Main control valve assembly	140	310	←	
· Swing motor assembly	250	550	←	
· Hydraulic oil tank assembly	150	330	←	
· Fuel tank assembly	130	290	←	
· Counterweight	2600	5730	←	
· Cab assembly	500	1100	←	
Lower chassis assembly				
· Track frame weld assembly	2290	5050	2270	5000
· Swing bearing	260	570	←	
· Travel motor assembly	300	660	←	
· Turning joint	60	130	←	
· Track recoil spring	132	290	←	
· Idler	151	330	←	
· Sprocket	54	120	←	
· Carrier roller	20	45	←	
· Track roller	40	90	←	
· Track-chain assembly (600 mm standard triple grouser shoe)	1180	2600	←	
Front attachment assembly				
· 5.1 m boom assembly	1060	2340	←	
· 2.6 m arm assembly	540	1190	←	
· 0.7 m³ SAE heaped bucket	600	1320	←	
· Boom cylinder assembly	155	340	←	
· Arm cylinder assembly	180	400	←	
· Bucket cylinder assembly	125	280	←	
· Bucket control link assembly	120	265	←	
· Dozer blade assembly	-	-	655	1445
· Dozer blade cylinder assembly	-	-	66	146

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

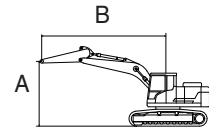
※ Refer to Transportation for actual weight information and Specifications for operating weight.

5. LIFTING CAPACITIES

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX160 L	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5100	2600	2600	600	-	-	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)										At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
														m (ft)
7.5 m (24.6 ft)	kg											*3400	*3400	4.85
	lb											*7500	*7500	(15.9)
6.0 m (19.7 ft)	kg							*3830	3420			*2960	*2960	6.27
	lb							*8440	7540			*6530	*6530	(20.6)
4.5 m (14.8 ft)	kg					*4890	*4890	*4450	3370			*2840	2550	7.10
	lb					*10780	*10780	*9810	7430			*6260	5620	(23.3)
3.0 m (9.8 ft)	kg			*9410	9100	*6140	4940	*4960	3240	*3100	2290	*2870	2270	7.54
	lb			*20750	20060	*13540	10890	*10930	7140	*6830	5050	*6330	5000	(24.7)
1.5 m (4.9 ft)	kg					*7420	4610	5040	3090	3610	2230	*3050	2160	7.66
	lb					*16360	10160	11110	6810	7960	4920	*6720	4760	(25.1)
0.0 m (0.0 ft)	kg			*5280	*5280	7610	4410	4910	2980			*3420	2200	7.47
	lb			*11640	*11640	16780	9720	10820	6570			*7540	4850	(24.5)
-1.5 m (-4.9 ft)	kg	*5070	*5070	*9170	8030	7530	4350	4860	2930			3960	2420	6.95
	lb	*11180	*11180	*20220	17700	16600	9590	10710	6460			8730	5340	(22.8)
-3.0 m (-9.8 ft)	kg	*9350	*9350	*10230	8160	*7160	4400	4930	2990			4910	2980	6.01
	lb	*20610	*20610	*22550	17990	*15790	9700	10870	6590			10820	6570	(19.7)
-4.5 m (-14.8 ft)	kg			*6920	*6920							*4590	*4590	4.39
	lb			*15260	*15260							*10120	*10120	(14.4)

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.

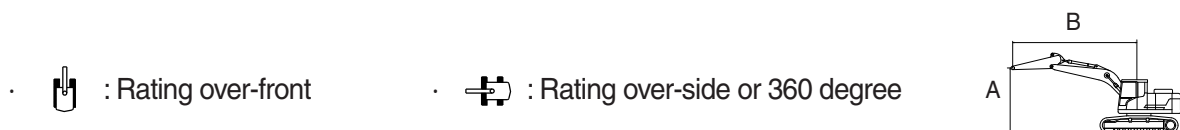
The difference between the weight of a work tool attachment must be subtracted.

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

▲ 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	
HX160 L	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5100	2200	2600	600	-	-	-	-	-

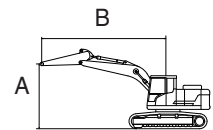


Lift-point height (A)		Lift-point radius (B)								At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
												m (ft)
7.5 m (24.6 ft)	kg									*3790	*3790	4.35
	lb									*8360	*8360	(14.3)
6.0 m (19.7 ft)	kg									*3140	*3140	5.90
	lb									*6920	*6920	(19.4)
4.5 m (14.8 ft)	kg			*5320	5180	*4740	3320			*2940	2710	6.77
	lb			*11730	11420	*10450	7320			*6480	5970	(22.2)
3.0 m (9.8 ft)	kg			*6530	4860	5160	3200			*2930	2390	7.23
	lb			*14400	10710	11380	7050			*6460	5270	(23.7)
1.5 m (4.9 ft)	kg			*7690	4550	5010	3060			*3070	2280	7.36
	lb			*16950	10030	11050	6750			*6770	5030	(24.1)
0.0 m (0.0 ft)	kg	*3900	*3900	7570	4380	4900	2960			*3410	2340	7.16
	lb	*8600	*8600	16690	9660	10800	6530			*7520	5160	(23.5)
-1.5 m (-4.9 ft)	kg	*9210	8060	7530	4350	4880	2940			*4080	2600	6.62
	lb	*20300	17770	16600	9590	10760	6480			*8990	5730	(21.7)
-3.0 m (-9.8 ft)	kg	*9400	8230	*6720	4430					*4890	3310	5.62
	lb	*20720	18140	*14820	9770					*10780	7300	(18.5)

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX160 L	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5100	3100	2600	600	-	-	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree

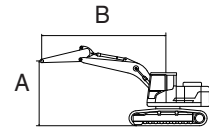


Lift-point height (A)		Lift-point radius (B)										At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
														m (ft)
7.5 m (24.6 ft)	kg											*2690	*2690	5.51
	lb											*5930	*5930	(18.1)
6.0 m (19.7 ft)	kg							*3680	3470			*2410	*2410	6.79
	lb							*8110	7650			*5310	*5310	(22.3)
4.5 m (14.8 ft)	kg							*4040	3400	*2550	2340	*2330	2300	7.56
	lb							*8910	7500	*5620	5160	*5140	5070	(24.8)
3.0 m (9.8 ft)	kg			*7980	*7980	*5570	5020	*4610	3260	3680	2290	*2370	2060	7.97
	lb			*17590	*17590	*12280	11070	*10160	7190	8110	5050	*5220	4540	(26.2)
1.5 m (4.9 ft)	kg			*6730	*6730	*6970	4660	5050	3090	3600	2210	*2520	1970	8.09
	lb			*14840	*14840	*15370	10270	11130	6810	7940	4870	*5560	4340	(26.5)
0.0 m (0.0 ft)	kg			*6140	*6140	7610	4400	4890	2950	3530	2150	*2810	1990	7.91
	lb			*13540	*13540	16780	9700	10780	6500	7780	4740	*6190	4390	(25.9)
-1.5 m (-4.9 ft)	kg	*4780	*4780	*8740	7920	7480	4290	4810	2880			*3360	2160	7.42
	lb	*10540	*10540	*19270	17460	16490	9460	10600	6350			*7410	4760	(24.3)
-3.0 m (-9.8 ft)	kg	*8060	*8060	*11010	8010	7490	4310	4830	2900			4270	2580	6.56
	lb	*17770	*17770	*24270	17660	16510	9500	10650	6390			9410	5690	(21.5)
-4.5 m (-14.8 ft)	kg			*8340	8260	*5690	4450					*4680	3750	5.11
	lb			*18390	18210	*12540	9810					*10320	8270	(16.8)

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX160 L	2-PIECE BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5100	2200	3250	600	-	-	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree

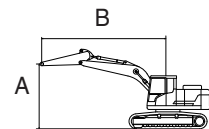


Lift-point height (A)		Lift-point radius (B)						At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity		Reach
										m (ft)
7.5 m	kg							*4040	*4040	4.46
(24.6 ft)	lb							*8910	*8910	(14.6)
6.0 m	kg			*4490	*4490			*3260	*3260	5.98
(19.7 ft)	lb			*9900	*9900			*7190	*7190	(19.6)
4.5 m	kg			*5090	*5090	*4540	3630	*2980	2910	6.84
(14.8 ft)	lb			*11220	*11220	*10010	8000	*6570	6420	(22.5)
3.0 m	kg			*6250	5310	*4980	3500	*2910	2580	7.30
(9.8 ft)	lb			*13780	11710	*10980	7720	*6420	5690	(23.9)
1.5 m	kg			*7410	4970	5440	3350	*3000	2480	7.42
(4.9 ft)	lb			*16340	10960	11990	7390	*6610	5470	(24.3)
0.0 m	kg			*7990	4790	5330	3250	*3240	2540	7.23
(0.0 ft)	lb			*17610	10560	11750	7170	*7140	5600	(23.7)
-1.5 m	kg	*8220	*8220	*7850	4770	5310	3240	*3760	2830	6.69
(-4.9 ft)	lb	*18120	*18120	*17310	10520	11710	7140	*8290	6240	(21.9)

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX160 L	2-PIECE BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5100	2600	3250	600	-	-	-	-	-

·  : Rating over-front

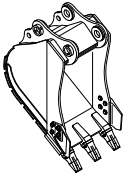
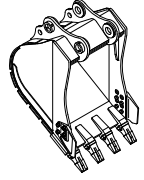
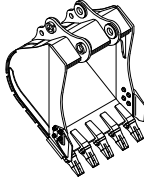
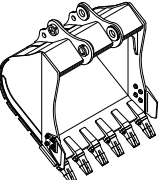
·  : Rating over-side or 360 degree



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	
											
7.5 m	kg			*4310	*4310					*3560	*3560
(24.6 ft)	lb			*9500	*9500					*7850	*7850
6.0 m	kg					*4130	3740			*3040	*3040
(19.7 ft)	lb					*9110	8250			*6700	*6700
4.5 m	kg			*4680	*4680	*4250	3690			*2860	2720
(14.8 ft)	lb			*10320	*10320	*9370	8140			*6310	6000
3.0 m	kg			*5880	5400	*4750	3540	*3650	2510	*2840	2440
(9.8 ft)	lb			*12960	11900	*10470	7800	*8050	5530	*6260	5380
1.5 m	kg			*7140	5040	*5340	3380	3930	2450	*2960	2330
(4.9 ft)	lb			*15740	11110	*11770	7450	8660	5400	*6530	5140
0.0 m	kg			*7900	4830	5340	3260	*3830	2410	*3240	2380
(0.0 ft)	lb			*17420	10650	11770	7190	*8440	5310	*7140	5250
-1.5 m	kg	*8270	*8270	*7970	4760	5290	3220			*3790	2620
(-4.9 ft)	lb	*18230	*18230	*17570	10490	11660	7100			*8360	5780
-3.0 m	kg			*7220	4830						
(-9.8 ft)	lb			*15920	10650						

6. BUCKET SELECTION GUIDE

1) GENERAL AND HEAVY DUTY BUCKET

			
0.39 m³ SAE heaped bucket	0.50 m³ SAE heaped bucket	0.64, ※0.70, 0.76 m³ SAE heaped bucket	0.89, 1.05 m³ SAE heaped bucket

Capacity		Width		Weight	Recommendation				
					5.1 m (16' 9") Mono boom			5.1 m (16' 9") Hyd adjustable boom	
SAE heaped	CECE heaped	Without side cutter	With side cutter		2.2 m arm (7' 3")	2.6 m arm (8' 6")	3.1 m arm (10' 2")	2.2 m arm (7' 3")	2.6 m arm (8' 6")
0.39 m³ (0.51 yd³)	0.34 m³ (0.44 yd³)	620 mm (24.4")	740 mm (29.1")	410 kg (900 lb)	○	○	○	○	○
0.50 m³ (0.65 yd³)	0.44 m³ (0.58 yd³)	760 mm (29.9")	880 mm (34.6")	470 kg (1040 lb)	○	○	○	○	○
0.64 m³ (0.84 yd³)	0.55 m³ (0.72 yd³)	920 mm (36.2")	1040 mm (40.9")	510 kg (1120 lb)	○	○	◉	○	◉
※0.70 m³ (0.92 yd³)	0.60 m³ (0.78 yd³)	990 mm (39.0")	1110 mm (43.7")	600 kg (1320 lb)	○	◉	●	◉	●
0.76 m³ (0.99 yd³)	0.65 m³ (0.35 yd³)	1060 mm (41.7")	1180 mm (46.5")	620 kg (1370 lb)	◉	●		◉	●
0.89 m³ (1.16 yd³)	0.77 m³ (1.01 yd³)	1220 mm (48.0")	1340 mm (52.8")	610 kg (1340 lb)	◉	●		●	
1.05 m³ (1.37 yd³)	0.90 m³ (1.18 yd³)	1400 mm (55.1")	1520 mm (59.8")	680 kg (1500 lb)	●			●	

※ : Standard bucket



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

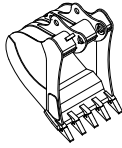
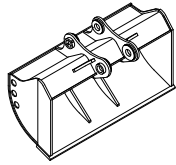


Applicable for materials with density of 1600 kg/m³ (2700 lb/yd³) or less



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

2) HEAVY DUTY BUCKET

	
◆ 0.69, 0.72, 0.87 m³ SAE heaped bucket	⊙ 0.75 m³ SAE heaped bucket

Capacity		Width		Weight	Recommendation				
					5.1 m (16' 9") Mono boom			5.1 m (16' 9") Hyd adjustable boom	
SAE heaped	CECE heaped	Without side cutter	With side cutter		2.2 m arm (7' 3")	2.6 m arm (8' 6")	3.1 m arm (10' 2")	2.2 m arm (7' 3")	2.6 m arm (8' 6")
◆ 0.69 m³ (0.90 yd³)	0.62 m³ (0.81 yd³)	990 mm (39.0")	-	720 kg (1590 lb)	○	⊙	●	⊙	●
◆ 0.72 m³ (0.94 yd³)	0.65 m³ (0.85 yd³)	940 mm (37.0")	985 mm (38.8")	640 kg (1410 lb)	○	⊙	●	⊙	●
⊙ 0.75 m³ (0.98 yd³)	0.65 m³ (0.85 yd³)	1820 mm (71.7")	-	540 kg (1190 lb)	○	⊙	●	○	⊙
◆ 0.87 m³ (1.18 yd³)	0.78 m³ (1.02 yd³)	1090 mm (42.9")	1140 mm (44.9")	680 kg (1500 lb)	⊙	●		●	

◆ : Heavy duty bucket

⊙ : Ditch cleaning 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



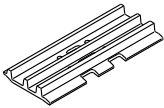
Applicable for materials with density of 1100 kg/m³ (1850 lb/yd³) or less

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		
					
HX160 L	Shoe width	mm (in)	500 (20)	※ 600 (24)	700 (28)
	Operating weight	kg (lb)	17855 (39360)	18100 (39900)	18345 (40440)
	Ground pressure	kgf/cm ² (psi)	0.52 (7.39)	0.44 (6.26)	0.38 (5.40)
	Overall width	mm (ft-in)	2490 (8' 2")	2590 (8' 6")	2690 (8' 10")
HX160 L (with dozer)	Shoe width	mm (in)	500 (20)	※ 600 (24)	700 (28)
	Operating weight	kg (lb)	18655 (41130)	18900 (41670)	19145 (42210)
	Ground pressure	kgf/cm ² (psi)	0.55 (7.82)	0.46 (6.54)	0.40 (5.69)
	Overall width	mm (ft-in)	2490 (8' 2")	2590 (8' 6")	2690 (8' 10")

※ : Standard

3) NUMBER OF ROLLERS AND SHOES ON EACH SIDE

Item	Quantity
Carrier rollers	2 EA
Track rollers	7 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) 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
500 mm triple grouser	Option	A
700 mm triple grouser	Option	B

※ **Table 2**

Category	Applications	Applications
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

8. SPECIFICATIONS FOR MAJOR COMPONENTS

1) ENGINE

Item	Specification
Model	Perkins 1204F
Type	4-cycle turbocharged charge air cooled diesel engine
Cooling method	Water cooling
Number of cylinders and arrangement	4 cylinders, in-line
Firing order	1-3-4-2
Combustion chamber type	Direct injection type
Cylinder bore × stroke	105 × 127 mm (4.1" × 5.0")
Piston displacement	4400 cc (268.5 cu in)
Compression ratio	16.5 : 1
Rated net horse power (SAE J1349)	128Hp (96 kW) at 2050 rpm
Rated gross horse power (SAE J1995)	137Hp (102.1 kW) at 2050 rpm
Maximum torque	57.1 kgf · m (413 lbf · ft) at 1400 rpm
Engine oil quantity	10.5 ℓ (2.8 U.S. gal)
Dry weight	589 kg (1300 lb)
High idling speed	2100 ± 50 rpm
Low idling speed	800 ± 100 rpm
Rated fuel consumption	164 g/Hp · hr at 2050 rpm
Starting motor	24 V-4.5 kW
Alternator	24 V-100 A
Battery	2 × 12 V × 100 Ah

2) MAIN PUMP

Item	Specification
Type	Variable displacement tandem axis piston pumps
Capacity	2 × 80 cc/rev
Maximum pressure	350 kgf/cm ² (4980 psi) [380 kgf/cm ² (5400 psi)]
Rated oil flow	2 × 164 ℓ /min (43.3 U.S. gpm / 36.1 U.K. gpm)
Maximum speed	2100 rpm

[] : Power boost

3) GEAR PUMP

Item	Specification
Type	Fixed displacement gear pump single stage
Capacity	15cc/rev
Maximum pressure	40 kgf/cm ² (570 psi)
Rated oil flow	31.5 ℓ /min (8.3 U.S. gpm / 6.9 U.K. gpm)

4) MAIN CONTROL VALVE

Item	Specification
Type	11 spools two-block
Operating method	Hydraulic pilot system
Main relief valve pressure	350 kgf/cm ² (4980 psi) [380 kgf/cm ² (5400 psi)]
Overload relief valve pressure	400 kgf/cm ² (5690 psi)

[] : Power boost

5) SWING MOTOR

Item	Specification
Type	Axial pistons motor
Capacity	142.8 cc/rev
Relief pressure	285 kgf/cm ² (4053 psi)
Braking system	Automatic, spring applied hydraulic released
Braking torque	66.5 kgf · m (481 lbf · ft)
Brake release pressure	22.3~36.6 kgf/cm ² (317~521 psi)
Reduction gear type	2 - stage planetary

6) TRAVEL MOTOR

Item	Specification
Type	Two speed axial pistons motor with brake valve and parking brake
Relief pressure	350 kgf/cm ² (4980 psi)
Reduction gear type	Planetary & differential type
Braking system	Automatic, spring applied hydraulic released
Brake release pressure	11 kgf/cm ² (156 psi)
Braking torque	49.3 kgf · m (357 lbf · ft)

7) CYLINDER

Item		Specification
Boom cylinder	Bore dia × Rod dia × Stroke	Ø 115 × Ø 80 × 1090 mm
	Cushion	Extend only
Arm cylinder	Bore dia × Rod dia × Stroke	Ø 120 × Ø 85 × 1355 mm
	Cushion	Extend and retract
Bucket cylinder	Bore dia × Rod dia × Stroke	Ø 110 × Ø 75 × 995 mm
	Cushion	Extend only
Adjust cylinder(opt)	Bore dia × Rod dia × Stroke	Ø 160 × Ø 85 × 650 mm
	-	-
Adjust boom cylinder(opt)	Bore dia × Rod dia × Stroke	Ø 115 × Ø 80 × 960 mm
	-	-
Dozer cylinder(opt)	Bore dia × Rod dia × Stroke	Ø 110 × Ø 85 × 320 mm
	-	-

※ 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
HX160 L	Option	500 mm (20")	0.52 kgf/cm ² (7.39 psi)	49	2490 mm (8' 2")
	Standard	600 mm (24")	0.44 kgf/cm ² (6.26 psi)	49	2590 mm (8' 6")
	Option	700 mm (28")	0.38 kgf/cm ² (5.40 psi)	49	2690 mm (8' 10")

9) BUCKET

Item	Capacity		Tooth quantity	Width	
	SAE heaped	CECE heaped		Without side cutter	With side cutter
HX160 L	0.39 m ³ (0.51 yd ³)	0.34 m ³ (0.44 yd ³)	3	620 mm (24.4")	740 mm (29.1")
	0.50 m ³ (0.65 yd ³)	0.44 m ³ (0.58 yd ³)	4	760 mm (29.9")	880 mm (34.6")
	0.64 m ³ (0.84 yd ³)	0.55 m ³ (0.72 yd ³)	5	920 mm (36.2")	1040 mm (40.9")
	0.70 m ³ (0.92 yd ³)	0.60 m ³ (0.78 yd ³)	5	990 mm (39.0")	1110 mm (43.7")
	0.76 m ³ (0.99 yd ³)	0.65 m ³ (0.85 yd ³)	5	1060 mm (41.7")	1180 mm (46.5")
	0.89 m ³ (1.16 yd ³)	0.77 m ³ (1.01 yd ³)	6	1220 mm (48.0")	1340 mm (52.8")
	1.05 m ³ (1.37 yd ³)	0.90 m ³ (1.18 yd ³)	6	1400 mm (55.1")	1520 mm (59.8")
	◆ 0.69 m ³ (0.90 yd ³)	0.62 m ³ (0.81 yd ³)	5	990 mm (39.0")	-
	★ 0.75 m ³ (0.98 yd ³)	0.65 m ³ (0.85 yd ³)	-	1820 mm (71.7")	-

◆ : Heavy duty bucket

★ : Ditch cleaning 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	10.5 (2.8)	★SAE 5W-40									
							SAE 30					
			SAE 10W									
			SAE 10W-30									
			SAE 15W-40									
DEF/ AdBlue® Tank	Mixture of urea and deionized water	19.0 (5.0)	ISO 22241, High-purity urea + deionized water (32.5:67.5)									
Swing drive	Gear oil	TYPE 1 : 5.0 (1.32)	★SAE 75W-90									
Final drive		TYPE 2 : 6.2 (1.64)										
		5.8×2 (1.5×2)	SAE 80W-90									
Hydraulic tank	Hydraulic oil	Tank : 125 (33.0)	★ISO VG 15									
		System : 240 (63.4)	ISO VG 32									
			ISO VG 46, HBHO VG 46★ ³									
			ISO VG 68									
Fuel tank	Diesel fuel★ ¹	290 (76.6)	★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	27.5 (7.3)	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.