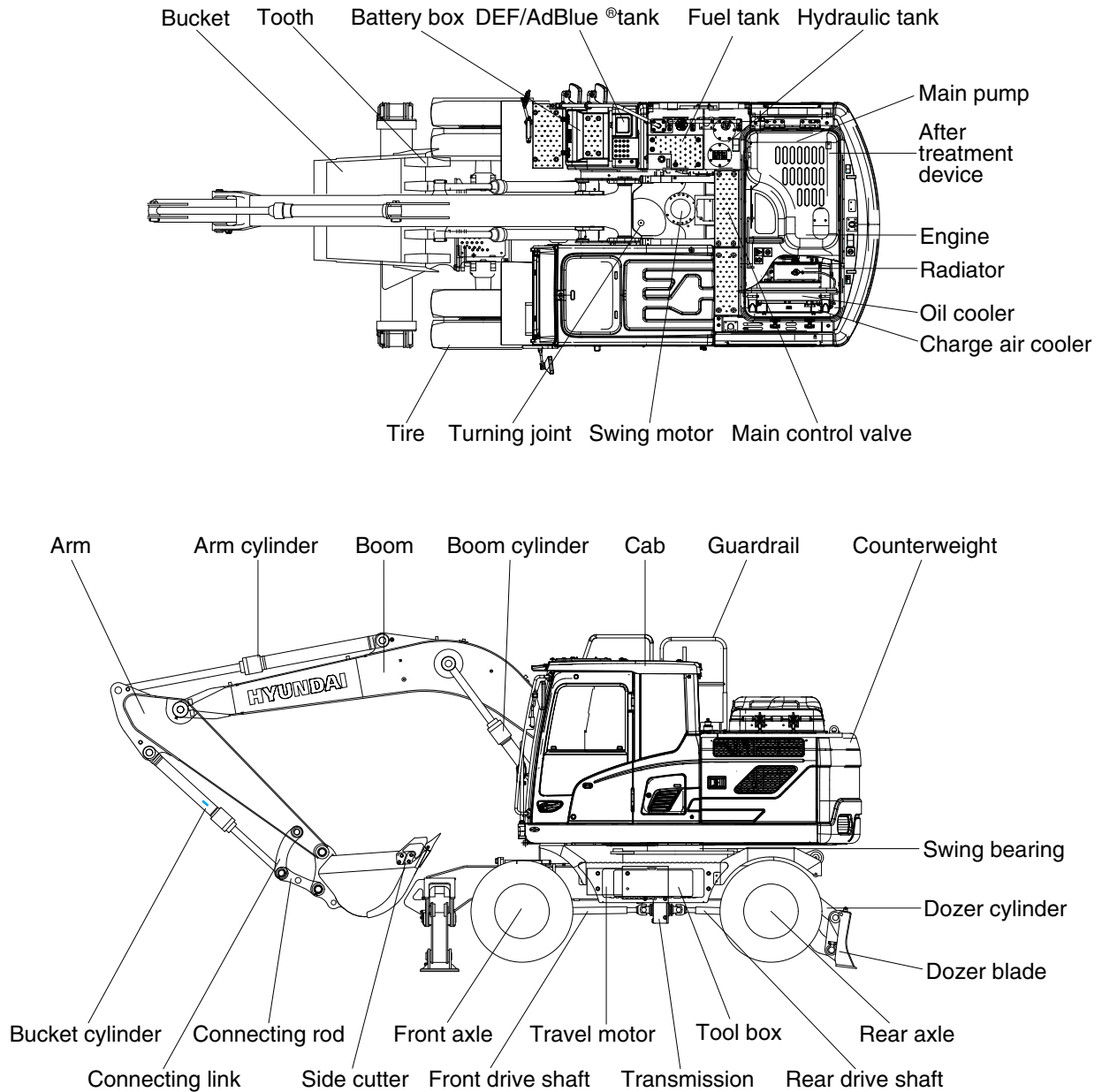


SPECIFICATIONS

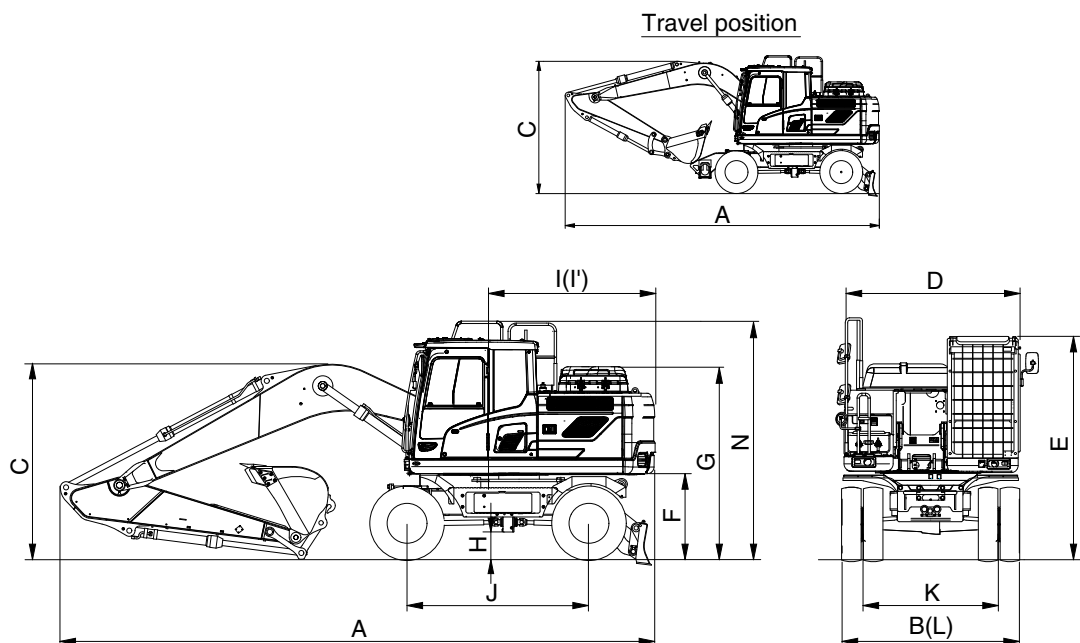
1. MAJOR COMPONENTS



180WF2SP01

2. SPECIFICATIONS

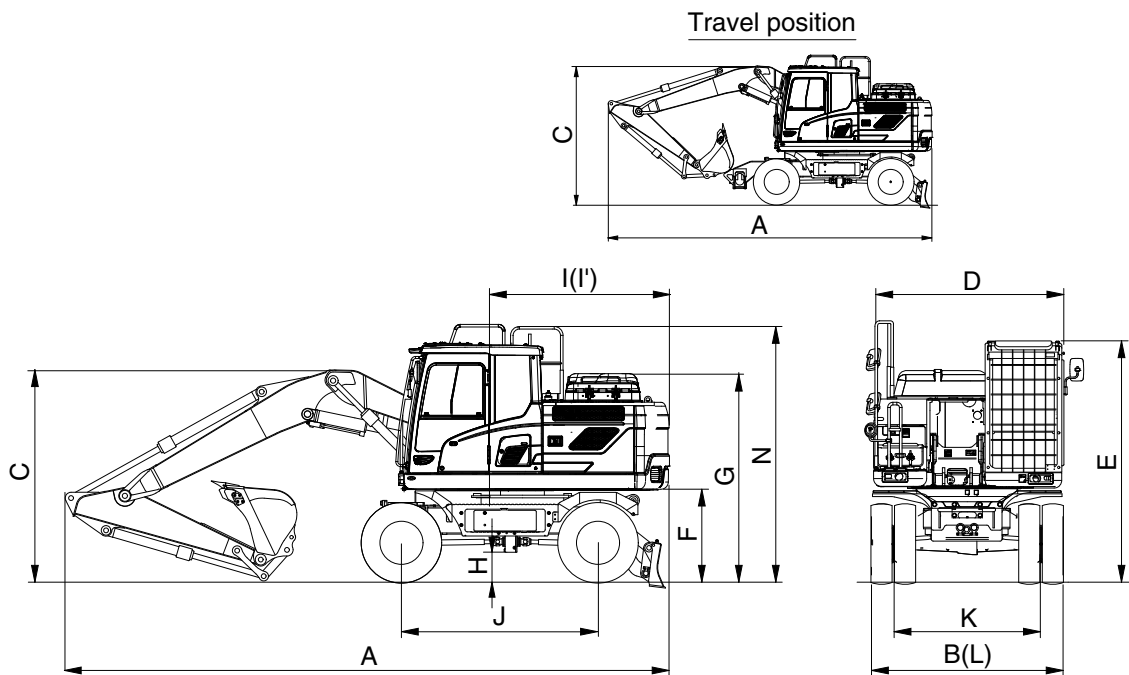
1) 5.2 m (17' 1") MONO BOOM, 2.6 m (8' 6") ARM AND REAR DOZER BLADE



180WF2SP02

Description		Unit	Specification
Operating weight		kg (lb)	17800 (39240)
Bucket capacity (SAE heaped), standard		m ³ (yd ³)	0.76 (0.99)
Overall length (travel / shipping)	A	mm (ft-in)	8710 (28' 7") / 8760 (28' 9")
Overall width	B		2500 (8' 2")
Overall height of boom (travel / shipping)	C		3540 (11' 7") / 3180 (10' 5")
Upperstructure width	D		2475 (8' 1")
Cab height	E		3190 (10' 6")
Ground clearance of counterweight	F		1270 (4' 2")
Overall height of engine hood	G		2800 (9' 2")
Minimum ground clearance	H		340 (1' 1")
Rear-end distance	I		2430 (8' 0")
Rear-end swing radius	I'		2430 (8' 0")
Wheel base	J		2600 (8' 6")
Tread	K		1944 (6' 5")
Dozer blade width	L		2500 (8' 2")
Overall height of guardrail	N		3420 (11' 3")
Travel speed	Low	km/hr (mph)	9.5 (5.9)
	High		35 (21.7)
	Creep		3.0 (1.9)
Swing speed		rpm	9.3
Gradeability		Degree (%)	35 (70)
Max traction force		kgf (lbf)	10320 (22750)

2) 5.1 m (16' 9") 2-PIECE BOOM, 2.6 m (8' 6") ARM AND REAR DOZER BLADE

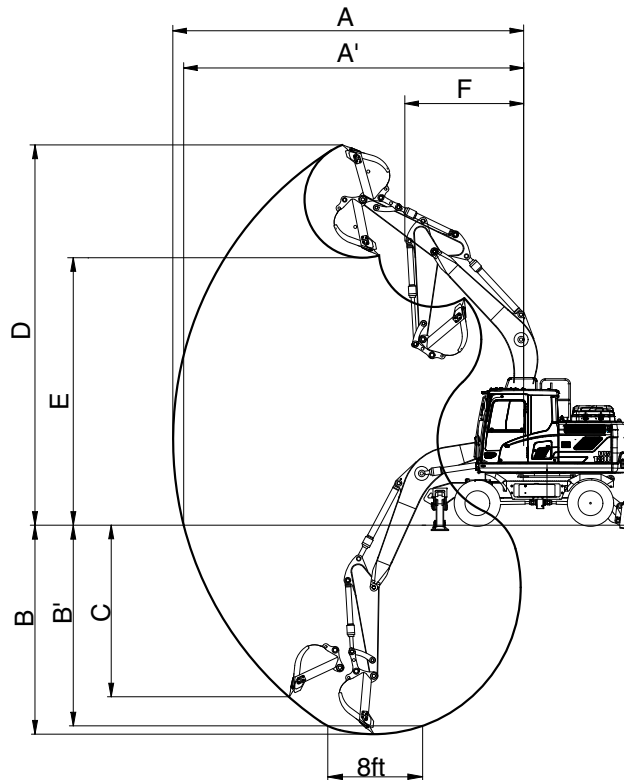


180WF2SP03

Description		Unit	Specification
Operating weight		kg (lb)	18270 (40280)
Bucket capacity (SAE heaped), standard		m ³ (yd ³)	0.76 (0.99)
Overall length (travel / shipping)	A	mm (ft-in)	6620 (21' 9") / 8750 (28' 8")
Overall width (axle / wide axle)	B		2500 (8' 2") / 2700 (8' 9")
Overall height of boom (travel / shipping)	C		3960 (13' 0") / 2920 (9' 7")
Upperstructure width	D		2475 (8' 1")
Cab height	E		3190 (10' 6")
Ground clearance of counterweight	F		1270 (4' 2")
Overall height of engine hood	G		2610 (8' 7")
Minimum ground clearance	H		340 (1' 1")
Rear-end distance	I		2430 (8' 0")
Rear-end swing radius	I'		2430 (8' 0")
Wheel base	J		2600 (8' 6")
Tread (axle / wide axle)	K		1914 (6' 3") / 2114 (6' 9")
Dozer blade width	L		2500 (8' 2")
Overall height of guardrail	N		3420 (11' 3")
Travel speed	Low	km/hr (mph)	9.5 (5.9)
	High		35 (21.7)
	Creep		3.0 (1.9)
Swing speed		rpm	9.3
Gradeability		Degree (%)	35 (70)
Max traction force		kgf (lbf)	10320 (22750)

3. WORKING RANGE

1) 5.2 m (17' 1") MONO BOOM

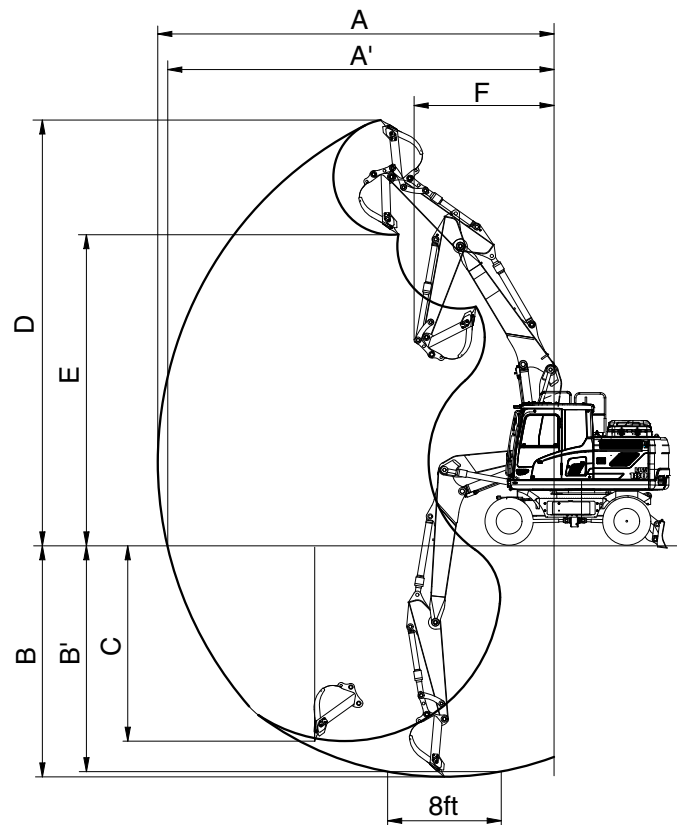


180WF2SP04

Description		2.2 m (7' 3") Arm	2.6 m (8' 6") Arm	3.1 m (10' 2") Arm
Max digging reach	A	8820 mm (29' 1")	9200 mm (30' 3")	9450 mm (31' 0")
Max digging reach on ground	A'	8615 mm (28' 4")	9000 mm (29' 7")	9250 mm (30' 4")
Max digging depth	B	5500 mm (18' 2")	5900 mm (19' 5")	6320 mm (20' 9")
Max digging depth (8 ft level)	B'	5280 mm (17' 5")	5700 mm (18' 9")	6130 mm (20' 1")
Max vertical wall digging depth	C	4850 mm (16' 1")	5310 mm (17' 6")	5470 mm (17' 11")
Max digging height	D	9180 mm (30' 3")	9300 mm (30' 7")	9220 mm (30' 3")
Max dumping height	E	6520 mm (21' 5")	6660 mm (21' 10")	6620 mm (21' 9")
Min swing radius	F	3290 mm (10' 9")	3230 mm (10' 8")	3160 mm (10' 4")
Bucket digging force	SAE	107.9 [117.2] kN	107.9 [106] kN	107.9 [117.2] kN
		11000 [11940] kgf	11000 [10860] kgf	11000 [11940] kgf
		24250 [26330] lbf	24250 [23940] lbf	24250 [26330] lbf
	ISO	123.6 [134.2] kN	123.6 [123] kN	123.6 [134.2] kN
		12600 [13680] kgf	12600 [12550] kgf	12600 [13680] kgf
		27780 [30160] lbf	27780 [27670] lbf	27780 [30160] lbf
Arm digging force	SAE	87.2 [94.7] kN	77.3 [72] kN	69.0 [74.9] kN
		8890 [9650] kgf	7880 [7350] kgf	7030 [7630] kgf
		19600 [21280] lbf	17370 [16210] lbf	15500 [16830] lbf
	ISO	91.0 [98.8] kN	80.3 [75] kN	71.4 [77.5] kN
		9280 [10080] kgf	8190 [7650] kgf	7280 [7900] kgf
		20460 [22210] lbf	18060 [16870] lbf	16050 [17430] lbf

[] : Power boost

2) 5.1 m (16' 9") 2-PIECE BOOM



180WF2SP05

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'	8550 mm (28' 1")	8910 mm (29' 3")
Max digging depth	B	5220 mm (17' 2")	5620 mm (18' 5")
Max digging depth (8 ft level)	B'	5120 mm (16' 10")	5520 mm (18' 1")
Max vertical wall digging depth	C	4430 mm (14' 6")	4780 mm (15' 8")
Max digging height	D	9630 mm (31' 7")	9820 mm (32' 3")
Max dumping height	E	6930 mm (22' 9")	7130 mm (23' 5")
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 digging 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

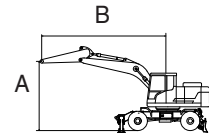
Item	HW180	
	kg	lb
Upperstructure assembly	4590	10120
Main frame weld assembly	1390	3060
Engine assembly	520	1150
Main pump assembly	90	200
Main control valve assembly	135	300
Swing motor assembly	240	530
Hydraulic oil tank assembly	150	330
Fuel tank assembly	155	340
Counterweight	3150	6940
Cab assembly	500	1100
Lower frame weld assembly	1640	3615
Swing bearing	260	570
Travel motor assembly	80	176
Turning joint	120	265
Transmission assembly	135	298
Front axle assembly	637	1404
Front wide axle assembly	655	1444
Rear axle assembly	534	1177
Rear wide axle assembly	547	1206
Front attachment assembly (5.2 m boom, 2.6 m arm, 0.76 m ³ SAE heaped bucket)	3060	6750
5.2 m boom assembly	1060	2340
2.6 m arm assembly	535	1180
0.76 m ³ SAE heaped bucket assembly	620	1370
Boom cylinder assembly	155×2EA	340×2EA
Arm cylinder assembly	180	400
Bucket cylinder assembly	125	260
Bucket control link assembly	120	265
Oscillating cylinder assembly	30	70
Dozer blade assembly	830	1830
Blade cylinder assembly	55×2EA	120×2EA
Front outrigger assembly	1000	2200
Rear outrigger assembly	1010	2230
Outrigger cylinder assembly	80	180

5. LIFTING CAPACITIES

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW180	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5200	2200	3150	500	-	-	Down	-	-

·  : 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 lb									*2060 *4540	*2060 *4540	5.12 (16.8)	*2990 *6590	5.32 (17.4)
6.0 m (19.7 ft)	kg lb					*3240 *7140	*3240 *7140			*1790 *3950	*1790 *3950	6.43 (21.1)	*2640 *5820	6.59 (21.6)
4.5 m (14.8 ft)	kg lb			*4660 *10270	*4660 *10270	*4050 *8930	3240 7140			*1730 *3810	*1730 *3810	7.19 (23.6)	*2540 *5600	7.34 (24.1)
3.0 m (9.8 ft)	kg lb	*9320 *20550	9270 20440	*5910 *13030	4880 10760	*4570 *10080	3070 6770	*2300 *5070	2070 4560	*1780 *3920	*1780 *3920	7.58 (24.9)	2370 5220	7.72 (25.3)
1.5 m (4.9 ft)	kg lb			7030 15500	4510 9940	4410 9720	2900 6390	*3050 *6720	2010 4430	*1940 *4280	1930 4250	7.66 (25.1)	2290 5050	7.79 (25.6)
0.0 m (0.0 ft)	kg lb	*5670 *12500	*5670 *12500	6800 14990	4320 9520	4280 9440	2790 6150			*2270 *5000	2000 4410	7.43 (24.4)	2350 5180	7.57 (24.8)
-1.5 m (-4.9 ft)	kg lb	*9680 *21340	8400 18520	6760 14900	4280 9440	4250 9370	2760 6080			*2910 *6420	2270 5000	6.86 (22.5)	2610 5750	7.01 (23.0)
-3.0 m (-9.8 ft)	kg lb	*9080 *20020	8610 18980	*6330 *13960	4370 9630					*4390 *9680	2960 6530	5.85 (19.2)	3250 7170	6.03 (19.8)

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.

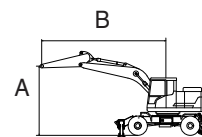
▲ Failure to comply to the rated load can cause possible personal injury or property damage.

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

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW180	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5200	2200	3150	500	-	-	Up	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree

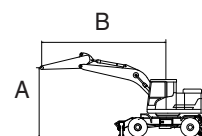


Lift-point height (A)		Lift-point radius (B)						At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity		Reach
										m (ft)
7.5 m (24.6 ft)	kg lb							*3180 *7010	*3180 *7010	4.85 (15.9)
6.0 m (19.7 ft)	kg lb					*4030 *8880	3460 7630	*2680 *5910	*2680 *5910	6.22 (20.4)
4.5 m (14.8 ft)	kg lb			*5470 *12060	5300 11680	*4740 *10450	3410 7520	*2510 *5530	*2510 *5530	7.01 (23.0)
3.0 m (9.8 ft)	kg lb			*6730 *14840	4950 10910	4960 10930	3270 7210	*2500 *5510	2370 5220	7.41 (24.3)
1.5 m (4.9 ft)	kg lb			7450 16420	4650 10250	4810 10600	3130 6900	*2610 *5750	2280 5030	7.49 (24.6)
0.0 m (0.0 ft)	kg lb			7280 16050	4510 9940	4710 10380	3040 6700	*2880 *6350	2360 5200	7.25 (23.8)
-1.5 m (-4.9 ft)	kg lb	*9430 *20790	8420 18560	7270 16030	4490 9900	4700 10360	3030 6680	*3430 *7560	2660 5860	6.67 (21.9)
-3.0 m (-9.8 ft)	kg lb	*8980 *19800	8610 18980	*6470 *14260	4600 10140			*4630 *10210	3430 7560	5.62 (18.4)

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW180	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5200	2200	3150	500	-	-	Down	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree

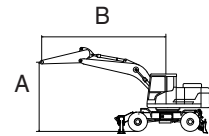


Lift-point height (A)		Lift-point radius (B)						At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity		Reach
										m (ft)
7.5 m (24.6 ft)	kg lb							*3180 *7010	*3180 *7010	4.85 (15.9)
6.0 m (19.7 ft)	kg lb					*4030 *8880	3650 8050	*2680 *5910	*2680 *5910	6.22 (20.4)
4.5 m (14.8 ft)	kg lb			*5470 *12060	*5470 *12060	*4740 *10450	3590 7910	*2510 *5530	*2510 *5530	7.01 (23.0)
3.0 m (9.8 ft)	kg lb			*6730 *14840	5250 11570	4960 10930	3450 7610	*2500 *5510	*2500 *5510	7.41 (24.3)
1.5 m (4.9 ft)	kg lb			7450 16420	4940 10890	4810 10600	3310 7300	*2610 *5750	2420 5340	7.49 (24.6)
0.0 m (0.0 ft)	kg lb			7280 16050	4790 10560	4710 10380	3220 7100	*2880 *6350	2500 5510	7.25 (23.8)
-1.5 m (-4.9 ft)	kg lb	*9430 *20790	9060 19970	7270 16030	4780 10540	4700 10360	3210 7080	*3430 *7560	2810 6190	6.67 (21.9)
-3.0 m (-9.8 ft)	kg lb	*8980 *19800	*8980 *19800	*6470 *14260	4890 10780			*4630 *10210	3630 8000	5.62 (18.4)

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW180	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5200	2600	3150	500	-	-	Up	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree

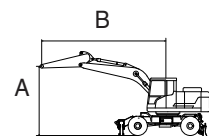


Lift-point height (A)		Lift-point radius (B)										At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
														m (ft)
7.5 m (24.6 ft)	kg											*2990	*2990	5.32
	lb											*6590	*6590	(17.4)
6.0 m (19.7 ft)	kg							*4230	3530			*2640	*2640	6.59
	lb							*9330	7780			*5820	*5820	(21.6)
4.5 m (14.8 ft)	kg					*5050	*5050	*4470	3460			*2540	2480	7.34
	lb					*11130	*11130	*9850	7630			*5600	5470	(24.1)
3.0 m (9.8 ft)	kg					*6360	5040	5010	3310	3540	2350	*2570	2240	7.72
	lb					*14020	11110	11050	7300	7800	5180	*5670	4940	(25.3)
1.5 m (4.9 ft)	kg					7520	4710	4840	3160	3470	2290	*2730	2160	7.79
	lb					16580	10380	10670	6970	7650	5050	*6020	4760	(25.6)
0.0 m (0.0 ft)	kg			*5200	*5200	7310	4530	4720	3050	3430	2250	*3040	2220	7.57
	lb			*11460	*11460	16120	9990	10410	6720	7560	4960	*6700	4890	(24.8)
-1.5 m (-4.9 ft)	kg	*5380	*5380	*9280	8380	7260	4490	4680	3020			*3660	2460	7.01
	lb	*11860	*11860	*20460	18470	16010	9900	10320	6660			*8070	5420	(23.0)
-3.0 m (-9.8 ft)	kg	*9680	*9680	*9840	8530	*6950	4550	*4760	3090			*4700	3070	6.03
	lb	*21340	*21340	*21690	18810	*15320	10030	*10490	6810			*10360	6770	(19.8)

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW180	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5200	3100	3150	500	-	-	Up	-	-

·  : 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											*2380	*2380	5.95
	lb											*5250	*5250	(19.5)
6.0 m (19.7 ft)	kg							*3760	3580			*2150	*2150	7.10
	lb							*8290	7890			*4740	*4740	(23.3)
4.5 m (14.8 ft)	kg							*4080	3490	*3060	2410	*2090	*2090	7.80
	lb							*8990	7690	*6750	5310	*4610	*4610	(25.6)
3.0 m (9.8 ft)	kg			*8740	*8740	*5800	5120	*4680	3330	3540	2350	*2120	2040	8.16
	lb			*19270	*19270	*12790	11290	*10320	7340	7800	5180	*4670	4500	(26.8)
1.5 m (4.9 ft)	kg					*7150	4750	4840	3160	3460	2270	*2250	1970	8.23
	lb					*15760	10470	10670	6970	7630	5000	*4960	4340	(27.0)
0.0 m (0.0 ft)	kg			*5890	*5890	7300	4520	4700	3020	3390	2210	*2510	2010	8.02
	lb			*12990	*12990	16090	9960	10360	6660	7470	4870	*5530	4430	(26.3)
-1.5 m (-4.9 ft)	kg	*5000	*5000	*8730	8250	7200	4430	4630	2960			*2990	2200	7.49
	lb	*11020	*11020	*19250	18190	15870	9770	10210	6530			*6590	4850	(24.6)
-3.0 m (-9.8 ft)	kg	*8300	*8300	*10660	8370	7230	4460	4660	2990			*3990	2650	6.59
	lb	*18300	*18300	*23500	18450	15940	9830	10270	6590			*8800	5840	(21.6)
-4.5 m (-14.8 ft)	kg			*7860	*7860	*5360	4630					*4390	3910	5.09
	lb			*17330	*17330	*11820	10210					*9680	8620	(16.7)

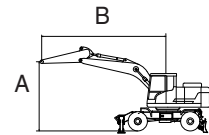
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW180	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5200	3100	3150	500	-	-	Down	-	-



: 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											*2380	*2380	5.95
	lb											*5250	*5250	(19.5)
6.0 m (19.7 ft)	kg							*3760	*3760			*2150	*2150	7.10
	lb							*8290	*8290			*4740	*4740	(23.3)
4.5 m (14.8 ft)	kg							*4080	3670	*3060	2540	*2090	*2090	7.80
	lb							*8990	8090	*6750	5600	*4610	*4610	(25.6)
3.0 m (9.8 ft)	kg			*8740	*8740	*5800	5420	*4680	3510	3540	2480	*2120	*2120	8.16
	lb			*19270	*19270	*12790	11950	*10320	7740	7800	5470	*4670	*4670	(26.8)
1.5 m (4.9 ft)	kg					*7150	5040	4840	3340	3460	2400	*2250	2080	8.23
	lb					*15760	11110	10670	7360	7630	5290	*4960	4590	(27.0)
0.0 m (0.0 ft)	kg			*5890	*5890	7300	4800	4700	3210	3390	2340	*2510	2130	8.02
	lb			*12990	*12990	16090	10580	10360	7080	7470	5160	*5530	4700	(26.3)
-1.5 m (-4.9 ft)	kg	*5000	*5000	*8730	*8730	7200	4710	4630	3140			*2990	2330	7.49
	lb	*11020	*11020	*19250	*19250	15870	10380	10210	6920			*6590	5140	(24.6)
-3.0 m (-9.8 ft)	kg	*8300	*8300	*10660	9010	7230	4740	4660	3170			*3990	2810	6.59
	lb	*18300	*18300	*23500	19860	15940	10450	10270	6990			*8800	6190	(21.6)
-4.5 m (-14.8 ft)	kg			*7860	*7860	*5360	4920					*4390	4150	5.09
	lb			*17330	*17330	*11820	10850					*9680	9150	(16.7)

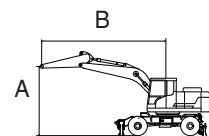
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW180	2-PIECE BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5100	2200	3150	500	-	-	Up	-	-



: Rating over-front



: Rating over-side or 360 degree

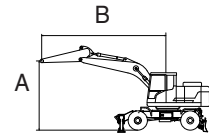


Lift-point height (A)		Lift-point radius (B)						At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity		Reach
										m (ft)
7.5 m (24.6 ft)	kg			*4820	*4820			*3860	*3860	4.73
	lb			*10630	*10630			*8510	*8510	(15.5)
6.0 m (19.7 ft)	kg			*4520	*4520	*4120	3440	*3200	*3200	6.13
	lb			*9960	*9960	*9080	7580	*7050	*7050	(20.1)
4.5 m (14.8 ft)	kg	*6850	*6850	*5220	*5220	*4580	3400	*2960	2660	6.93
	lb	*15100	*15100	*11510	*11510	*10100	7500	*6530	5860	(22.7)
3.0 m (9.8 ft)	kg			*6430	4960	5000	3260	*2920	2380	7.33
	lb			*14180	10930	11020	7190	*6440	5250	(24.1)
1.5 m (4.9 ft)	kg			7500	4640	4840	3120	*3020	2300	7.41
	lb			16530	10230	10670	6880	*6660	5070	(24.3)
0.0 m (0.0 ft)	kg			7320	4490	4740	3030	*3300	2390	7.17
	lb			16140	9900	10450	6680	*7280	5270	(23.5)
-1.5 m (-4.9 ft)	kg	*9130	8400	7320	4480	4740	3030	*3870	2710	6.58
	lb	*20130	18520	16140	9880	10450	6680	*8530	5970	(21.6)

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW180	2-PIECE BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5100	2200	3150	500	-	-	Down	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree

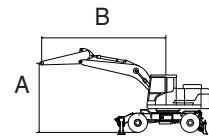


Lift-point height (A)		Lift-point radius (B)						At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity		Reach
										m (ft)
7.5 m	kg			*4820	*4820			*3860	*3860	4.73
(24.6 ft)	lb			*10630	*10630			*8510	*8510	(15.5)
6.0 m	kg			*4520	*4520	*4120	3630	*3200	*3200	6.13
(19.7 ft)	lb			*9960	*9960	*9080	8000	*7050	*7050	(20.1)
4.5 m	kg	*6850	*6850	*5220	*5220	*4580	3590	*2960	2810	6.93
(14.8 ft)	lb	*15100	*15100	*11510	*11510	*10100	7910	*6530	6190	(22.7)
3.0 m	kg			*6430	5260	5000	3450	*2920	2520	7.33
(9.8 ft)	lb			*14180	11600	11020	7610	*6440	5560	(24.1)
1.5 m	kg			7500	4940	4840	3300	*3020	2440	7.41
(4.9 ft)	lb			16530	10890	10670	7280	*6660	5380	(24.3)
0.0 m	kg			7320	4780	4740	3210	*3300	2530	7.17
(0.0 ft)	lb			16140	10540	10450	7080	*7280	5580	(23.5)
-1.5 m	kg	*9130	9060	7320	4770	4740	3210	*3870	2870	6.58
(-4.9 ft)	lb	*20130	19970	16140	10520	10450	7080	*8530	6330	(21.6)

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW180	2-PIECE BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5100	2600	3150	500	-	-	Up	-	-

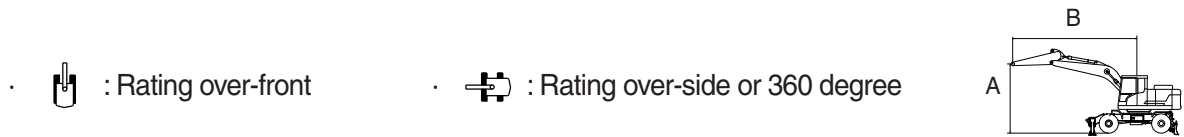
·  : Rating over-front

·  : 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			*4190	*4190					*3450	*3450
(24.6 ft)	lb			*9240	*9240					*7610	*7610
6.0 m	kg					*4110	3530			*3000	*3000
(19.7 ft)	lb					*9060	7780			*6610	*6610
4.5 m	kg			*4820	*4820	*4310	3460			*2850	2490
(14.8 ft)	lb			*10630	*10630	*9500	7630			*6280	5490
3.0 m	kg			*6060	5060	*4830	3310	3550	2330	*2850	2250
(9.8 ft)	lb			*13360	11160	*10650	7300	7830	5140	*6280	4960
1.5 m	kg			*7280	4710	4870	3150	3490	2270	*2990	2170
(4.9 ft)	lb			*16050	10380	10740	6940	7690	5000	*6590	4780
0.0 m	kg	*4760	*4760	7350	4510	4750	3040	*3430	2240	*3300	2230
(0.0 ft)	lb	*10490	*10490	16200	9940	10470	6700	*7560	4940	*7280	4920
-1.5 m	kg	*8980	8350	7300	4470	4710	3010			3850	2490
(-4.9 ft)	lb	*19800	18410	16090	9850	10380	6640			8490	5490
-3.0 m	kg			*7020	4550						
(-9.8 ft)	lb			*15480	10030						

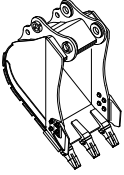
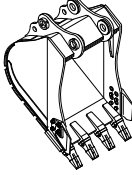
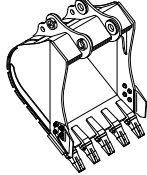
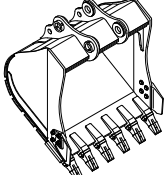
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW180	2-PIECE BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5100	2600	3150	500	-	-	Down	-	-



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			*4190 *9240	*4190 *9240					*3450 *7610	*3450 *7610	5.24 (17.2)
6.0 m (19.7 ft)	kg lb					*4110 *9060	3530 7780			*3000 *6610	*3000 *6610	6.53 (21.4)
4.5 m (14.8 ft)	kg lb			*4820 *10630	*4820 *10630	*4310 *9500	3460 7630			*2850 *6280	2490 5490	7.28 (23.9)
3.0 m (9.8 ft)	kg lb			*6060 *13360	5060 11160	*4830 *10650	3310 7300	3550 7830	2330 5140	*2850 *6280	2250 4960	7.67 (25.2)
1.5 m (4.9 ft)	kg lb			*7280 *16050	4710 10380	4870 10740	3150 6940	3490 7690	2270 5000	*2990 *6590	2170 4780	7.74 (25.4)
0.0 m (0.0 ft)	kg lb	*4760 *10490	*4760 *10490	7350 16200	4510 9940	4750 10470	3040 6700	*3430 *7560	2240 4940	*3300 *7280	2230 4920	7.51 (24.6)
-1.5 m (-4.9 ft)	kg lb	*8980 *19800	8350 18410	7300 16090	4470 9850	4710 10380	3010 6640			3850 8490	2490 5490	6.95 (22.8)
-3.0 m (-9.8 ft)	kg lb			*7020 *15480	4550 10030							

6. BUCKET SELECTION GUIDE

1) GENERAL 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				
					5.2 m (17' 1") Mono boom			5.1 m (16' 9") 2-piece 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)	650 mm (25.6")	740 mm (29.1")	410 kg (900 lb)	●	●	●	●	●
0.50 m³ (0.65 yd³)	0.44 m³ (0.58 yd³)	790 mm (31.1")	880 mm (34.6")	470 kg (1040 lb)	●	●	●	●	●
0.64 m³ (0.84 yd³)	0.55 m³ (0.72 yd³)	950 mm (37.4")	1040 mm (40.9")	510 kg (1120 lb)	◉	◉	○	◉	◉
0.70 m³ (0.92 yd³)	0.60 m³ (0.78 yd³)	1020 mm (40.2")	1110 mm (43.7")	600 kg (1320 lb)	◉	◉	○	◉	○
0.76 m³ (0.99 yd³)	0.65 m³ (0.85 yd³)	1090 mm (42.9")	1180 mm (46.5")	620 kg (1370 lb)	◉	○	○	◉	○
0.89 m³ (1.16 yd³)	0.77 m³ (1.01 yd³)	1250 mm (49.2")	1340 mm (52.8")	610 kg (1340 lb)	○	○		○	○
1.05 m³ (1.37 yd³)	0.90 m³ (1.18 yd³)	1430 mm (56.3")	1520 mm (59.8")	680 kg (1500 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

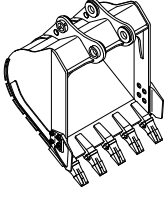
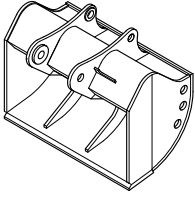
※ These recommendations are for general conditions and average use.

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.

2) SPECIAL BUCKET

Heavy duty bucket 	Ditch cleaning bucket 
◎ 0.69 m³, 0.72 m³, 0.87 m³ SAE heaped bucket	★ 0.75 m³ SAE heaped bucket

Capacity		Width		Weight	Recommendation				
					5.2 m (17' 1") Mono boom			5.1 m (16' 9") 2-piece boom	
					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")
SAE heaped	CECE heaped	Without side cutter	With side cutter						
◎ 0.69 m ³ (0.90 yd ³)	0.62 m ³ (0.81 yd ³)	1050 mm (41.3")	-	720 kg (1590 lb)	●	○	○	●	○
◎ 0.72 m ³ (0.94 yd ³)	0.65 m ³ (0.85 yd ³)	940 mm (37.0")	985 mm (38.8")	640 kg (1410 lb)	●	○	○	●	○
◎ 0.87 m ³ (1.18 yd ³)	0.78 m ³ (1.02 yd ³)	1090 mm (42.9")	1140 mm (44.9")	680 kg (1500 lb)	○	○		○	○
★ 0.75 m ³ (0.98 yd ³)	0.65 m ³ (0.85 yd ³)	1820 mm (71.7")	-	540 kg (1190 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. SPECIFICATIONS FOR MAJOR COMPONENTS

1) ENGINE

Item	Specification
Model	Cummins QSB 6.7
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 (409 cu in)
Compression ratio	17.3 : 1
Rated net horse power (SAE J1349)	171 Hp (127 kW) at 1800 rpm
Rated gross horse power (SAE J1995)	180 Hp (134 kW) at 1800 rpm
Maximum torque	85.7 kgf · m (620 lbf · ft) at 1500 rpm
Engine oil quantity	23.7 ℓ (6.3 U.S. gal)
Dry weight	520 kg (1150 lb)
High idling speed	2200 ± 50 rpm
Low idling speed	850 ± 100 rpm
Rated fuel consumption	163.0 g/Hp · hr at 2200 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 × 80 cc/rev
Maximum pressure	350 kgf/cm ² (4980 psi) [380 kgf/cm ² (5400 psi)]
Rated oil flow	2 × 172 ℓ /min (45.4 U.S. gpm / 37.8 U.K. gpm)
Rated speed	2200 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	33.0 ℓ /min (8.7 U.S. gpm/7.3 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 1	Type 2
Type	Fixed displacement axial piston motor	
Capacity	117.8 cc/rev	142.8 cc/rev
Relief pressure	285 kgf/cm ² (4054 psi)	
Braking system	Automatic, spring applied hydraulic released	
Braking torque	59 kgf · m (427 lbf · ft)	66.5 kgf · m (481 lbf · ft)
Brake release pressure	33~50 kgf/cm ² (469~711 psi)	22.3~36.6 kgf/cm ² (317~521 psi)
Reduction gear type	2 - stage planetary	

6) TRAVEL MOTOR

Item	Specification
Type	Variable displacement bent-axis axial piston motor
Relief pressure	380 kgf/cm ² (5400 psi)
Counter balance valve	Applied
Capacity (max/min)	140 cc/rev

7) POWER TRAIN

Item	Description		Specification
Transmission	Type		2 speed power shift transmission
	Gear ratio	1st	4.87
		2nd	1.20
	Clutch pressure		30~32 kgf /cm ² (427~455 psi)
Parking brake	Type		Multi disc brake integrated in transmission
	Maximum braking torque		3044 kgf · m (22020 lbf · ft)
Axle / Wide axle	Type		4 wheel drive with differential
	Gear ratio		16.0
	Brake		Multi disc brake
	Brake pressure		61.2 kgf /cm ² (870 psi)
	Steering pressure		204 kgf /cm ² (2900 psi)

8) POWER TRAIN GEAR PUMP

Item	Description
Type	Fixed displacement gear pump (tanedm)
Capacity	Steering + brake : 16.6 + 8.2 cc / rev (pump PTO) [22.4] + 8.2 cc / rev (pump PTO)
Rated flow	Steering + brake : 30.7 + 15.2 lpm (pump PTO) (8.1 + 4.0 U.S.gpm / 6.8 + 3.3 U.K.gpm) [41.4] + 15.2 lpm (pump PTO) ([10.9] + 4.0 U.S.gpm / [9.1] + 3.3 U.K.gpm)

※ [] Rotating option

9) CYLINDER

Item		Specification
Boom cylinder	Bore dia × Rod dia × Stroke	Ø 115 × 1090mm
	Cushion	Extend only
Arm cylinder	Bore dia × Rod dia × Stroke	Ø 120 × 1355mm
	Cushion	Extend and retract
Bucket cylinder	Bore dia × Rod dia × Stroke	Ø 110 × 995mm
	Cushion	Extend only
Dozer cylinder	Bore dia × Rod dia × Stroke	Ø 110 × 235mm
	Cushion	-
Outrigger cylinder	Bore dia × Rod dia × Stroke	Ø 125 × 463mm
	Cushion	-
Adjust cylinder	Bore dia × Rod dia × Stroke	Ø 160 × Ø 95 × 650mm
	Cushion	-
2-piece boom cylinder	Bore dia × Rod dia × Stroke	Ø 115 × Ø 80 × 960mm
	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.

10) BUCKET

Item	Capacity		Tooth quantity	Width	
	SAE heaped	CECE heaped		Without side cutter	With side cutter
HW180	0.76 m ³ (0.99 yd ³)	0.65 m ³ (0.85 yd ³)	5	1090 mm (42.9")	1180 mm (46.5")
	0.39 m ³ (0.51 yd ³)	0.34 m ³ (0.44 yd ³)	3	650 mm (25.6")	740 mm (29.1")
	0.50 m ³ (0.65 yd ³)	0.44 m ³ (0.58 yd ³)	4	790 mm (31.1")	880 mm (34.6")
	0.64 m ³ (0.84 yd ³)	0.55 m ³ (0.72 yd ³)	5	950 mm (37.4")	1040 mm (40.9")
	0.70 m ³ (0.92 yd ³)	0.60 m ³ (0.78 yd ³)	5	1020 mm (40.2")	1110 mm (43.7")
	0.89 m ³ (1.16 yd ³)	0.77 m ³ (1.01 yd ³)	6	1250 mm (49.2")	1340 mm (52.8")
	1.05 m ³ (1.37 yd ³)	0.90 m ³ (1.18 yd ³)	6	1430 mm (56.3")	1520 mm (59.8")
	◆ 0.69 m ³ (0.90 yd ³)	0.62 m ³ (0.81 yd ³)	5	1050 mm (41.3")	-
	★ 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

8. 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			
Transmission case		2.5 (0.7)	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	See page 6-37	★SAE 75W-90					SAE 80W-90			
Front axle	Gear oil	Center : 10.5 (2.8) Hub : 2.5×2 (0.7×2)	SAE 85W-90 LSD or UTTO								
Rear axle		Center : 12.5 (3.3) Hub : 2.5×2 (0.7×2)									
Front wide axle	Gear oil	Center : 11.6 (3.06) Hub : 2.5×2 (0.7×2)	SAE 85W-90 LSD or UTTO								
Rear wid axle		Center : 14.0 (3.70) Hub : 2.5×2 (0.7×2)									
Hydraulic tank	Hydraulic oil	Tank: 125 (33.0)	★ISO VG 15								
		System: 270 (71.3)	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	19.5 (5.2)	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 Materia

UTTO : Universal Tractor Transmission Oil

DEF : Diesel Exhaust Fluid, DEF compatible with AdBlue®

★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

★ : Cold region (Russia, CIS, Mongolia)

※ 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.