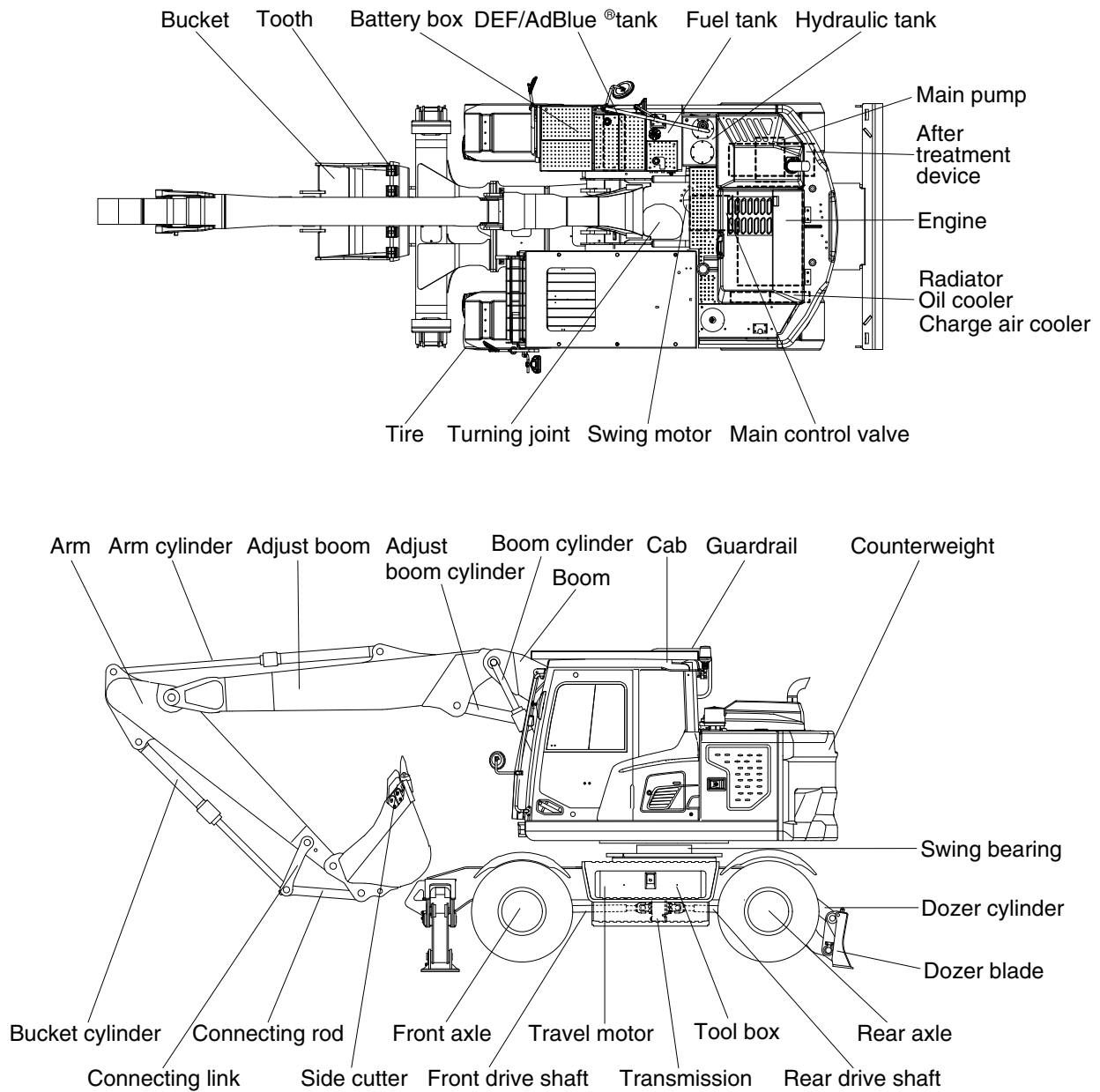


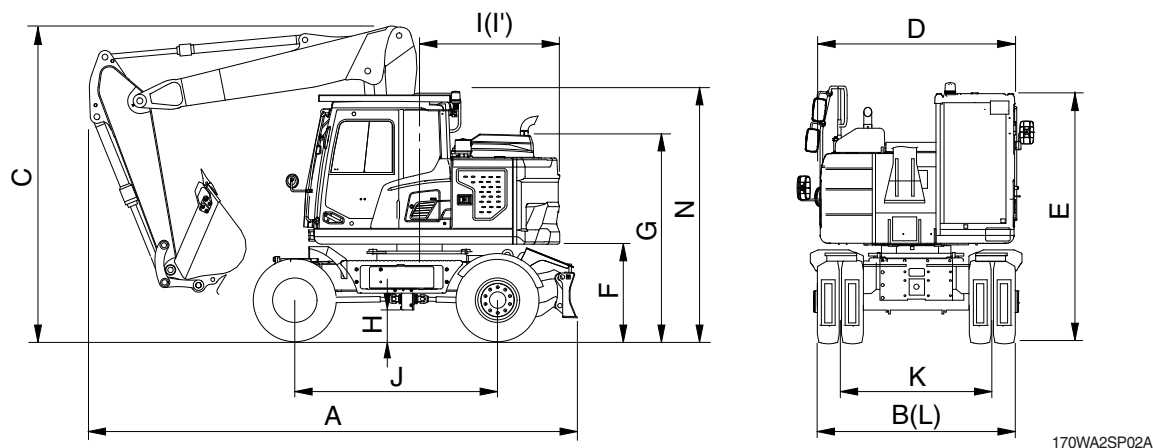
SPECIFICATIONS

1. MAJOR COMPONENTS



170WA2SP01

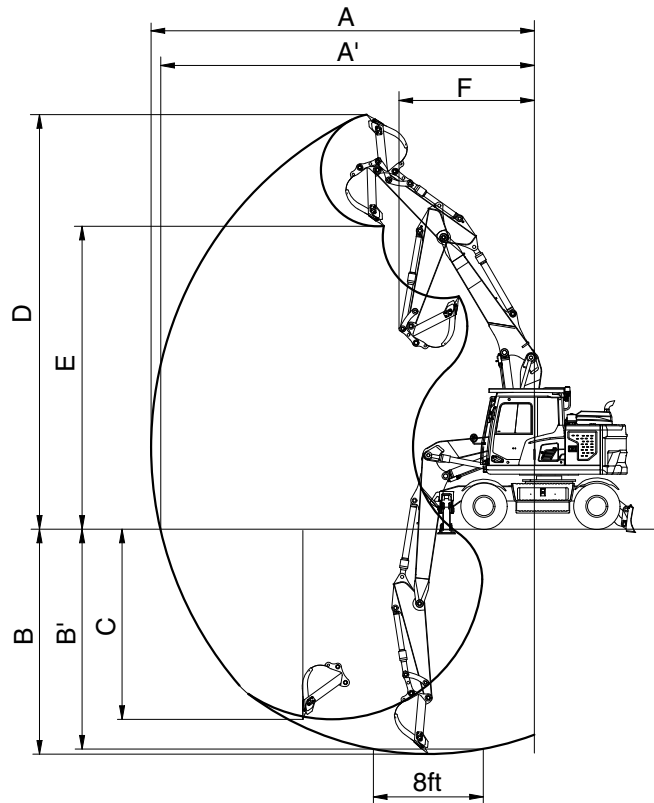
2. SPECIFICATIONS



170WA2SP02A

Description			Unit		Specification		
			m (ft-in)	Boom	5.0 (16' 5")		
				Arm	2.45 (8' 0")	2.00 (6' 7")	2.60 (8' 6")
Operating weight			kg (lb)		18820 (41490)	18780 (41400)	18890 (41650)
Bucket capacity (SAE heaped), standard			m³ (yd³)		0.70 (0.92)	0.70 (0.92)	0.70 (0.92)
Overall length (traveling)		A	mm (ft-in)	6310 (20' 8")	6340 (20' 10")	6250 (20' 6")	
Overall length (shipping)				8290 (27' 2")	8330 (27' 4")	8250 (27' 1")	
Overall width		B		2530 (8' 4")	2530 (8' 4")	2530 (8' 4")	
Overall height of boom		C		3990 (13' 1")	4000 (13' 1")	4000 (13' 1")	
Upperstructure width		D		2500 (8' 2")	2500 (8' 2")	2500 (8' 2")	
Cab height		E		3220 (10' 7")	3220 (10' 7")	3220 (10' 7")	
Ground clearance of counterweight		F		1265 (4' 2")	1265 (4' 2")	1265 (4' 2")	
Engine cover height		G		2730 (8' 11")	2730 (8' 11")	2730 (8' 11")	
Minimum ground clearance		H		370 (1' 3")	370 (1' 3")	370 (1' 3")	
Rear-end distance		I		1830 (6' 0")	1830 (6' 0")	1830 (6' 0")	
Rear-end swing radius		I'		1830 (6' 0")	1830 (6' 0")	1830 (6' 0")	
Wheel base		J		2600 (8' 6")	2600 (8' 6")	2600 (8' 6")	
Tread	Std axle	K		1944 (6' 5")	1944 (6' 5")	1944 (6' 5")	
	Wide axle			2114 (6' 11")	2114 (6' 11")	2114 (6' 11")	
Dozer blade width		L		2530 (8' 4")	3275 (10' 9")	2530 (8' 4")	
Overall height of guardrail		N		3450 (11' 4")	3450 (11' 4")	3450 (11' 4")	
Travel speed		Low	km/hr (mph)	10 (6.2)	10 (6.2)	10 (6.2)	
		High		35 (21.7)	35 (21.7)	35 (21.7)	
		Creep		3 (1.9)	3 (1.9)	3 (1.9)	
Swing speed			rpm	9.50	9.50	9.50	
Gradeability			Degree (%)	35 (70)	35 (70)	35 (70)	
Max traction force			kg (lb)	10506	10506	10506	

3. WORKING RANGE AND WORKING RANGE



170WA2SP05

Description		2.45 m (8' 0") Arm	2.00 m (6' 7") Arm	2.60 m (8' 6") Arm
Max digging reach	A	8950 (29' 4")	8490 (27' 10")	9020 (29' 7")
Max digging reach on ground	A'	8750 (28' 8")	8280 (27' 2")	8820 (28' 11")
Max digging depth	B	5440 (17' 10")	4980 (16' 4")	5565 (18' 3")
Max digging depth (8 ft level)	B'	5340 (17' 6")	4870 (16' 0")	5460 (17' 11")
Max vertical wall digging depth	C	4680 (15' 4")	4150 (13' 7")	4680 (15' 4")
Max digging height	D	9785 (32' 1")	9370 (30' 9")	9680 (31' 9")
Max dumping height	E	7060 (23' 2")	6660 (21' 10")	6980 (22' 11")
Min swing radius	F	3040 (10' 0")	3380 (11' 1")	3500 (11' 6")
Bucket digging force	SAE	98.0 [106.9]	98.2 [107.1]	98.3 [107.3]
		9992 [10900]	10008 [10920]	10026 [10940]
		22030 [24030]	22060 [24070]	22100 [24120]
	ISO	114.8 [125.2]	115.0 [125.4]	115.2 [125.6]
		11706 [12770]	11726 [12790]	11746 [12810]
		25810 [28150]	25850 [28200]	25900 [28240]
Arm digging force	SAE	67.3 [73.4]	84.8 [92.5]	66.7 [72.8]
		6858 [7480]	8648 [9430]	6798 [7420]
		15120 [16490]	19070 [20790]	14990 [16360]
	ISO	70.4 [76.8]	89.4 [97.6]	69.7 [76.0]
		7178 [7830]	9118 [9950]	7106 [7750]
		15830 [17260]	20100 [21940]	15670 [17090]

[] : Power boost


4. WEIGHT

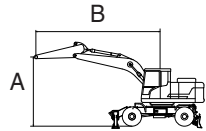
Item	HW170A CR	
	kg	lb
Upperstructure assembly	9260	20410
· Main frame weld assembly	1213	2670
· Engine assembly	378	830
· Aftertreatment assembly	64	140
· Main pump assembly	91	200
· Main control valve assembly	144	320
· Swing motor assembly	148	330
· Hydraulic oil tank WA	135	300
· Fuel tank WA	138	300
· Counterweight	4200	9260
· Cab assembly	495	1090
Lower chassis assembly	5860	12920
· Lower frame weld assembly	1552	3420
· Swing bearing	260	570
· Travel motor assembly (2EA)	80	180
· Turning joint	117	258
· Transmission assembly	135	300
· Front axle assembly	637	1400
· Front axle assembly (wide)	655	1440
· Rear axle assembly	534	1180
· Rear axle assembly (wide)	547	1210
· Dozer blade assembly (front)	810	1786
· Dozer blade assembly (rear)	809	1784
· Front outrigger assembly	1046	2310
· Rear outrigger assembly	1046	2310
Front attachment assembly (5.0 m 2-piece boom, 2.45 m arm, 0.58 m³ SAE heaped bucket)	3700	8160
· 5.0 m 2-piece boom assembly	1094	2410
· 2.45 m arm assembly	488	1080
· 2.00 m arm assembly	457	1010
· 2.60 m arm assembly	549	1210
· 0.70 m³ SAE heaped bucket assembly	599	1320
· 0.76 m³ SAE heaped bucket assembly	620	1370
· 0.89 m³ SAE heaped bucket assembly	684	1510
· 1.05 m³ SAE heaped bucket assembly	740	1630
· 0.73 m³ SAE heaped bucket assembly	617	1360
· 0.85 m³ SAE heaped bucket assembly	669	1470
· 0.69 m³ SAE heaped bucket assembly	724	1600
· 0.75 m³ SAE heaped bucket assembly	536	1180
· Bucket control link assembly	157	350
· Adjustable boom cylinder assembly (2EA)	266	590
· Arm cylinder assembly	169	370
· Bucket cylinder assembly	123	270
· Oscillating cylinder assembly (2EA)	94	207
· Adjustable cylinder assembly	209	460
· Outrigger cylinder assembly (2EA)	182	400
· Blade cylinder assembly (front) (2EA)	86	190
· Blade cylinder assembly (rear) (2EA)	86	190
· Front outrigger assembly	1045	2300
· Rear outrigger assembly	1046	2310









5. LIFTING CAPACITIES

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW170A CR	2-PIECE BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5000	2000	4200	-	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							*4790 *10560	*4790 *10560	4.19 (13.8)
6.0 m (19.7 ft)	kg lb			*4310 *9500	*4310 *9500			*4390 *9680	3240 7140	5.75 (18.9)
4.5 m (14.8 ft)	kg lb			*4930 *10870	4680 10320	*4350 *9590	3000 6610	4000 8820	2550 5620	6.60 (21.7)
3.0 m (9.8 ft)	kg lb			*6070 *13380	4350 9590	4560 10050	2880 6350	3570 7870	2250 4960	7.03 (23.1)
1.5 m (4.9 ft)	kg lb			6770 14930	4070 8970	4430 9770	2750 6060	3450 7610	2160 4760	7.12 (23.4)
0.0 m (0.0 ft)	kg lb			6630 14620	3940 8690	4340 9570	2680 5910	3600 7940	2240 4940	6.87 (22.5)
-1.5 m (-4.9 ft)	kg lb	*10340 *22800	7320 16140	6630 14620	3950 8710	4360 9610	2690 5930	4140 9130	2570 5670	6.24 (20.5)

Note 1. Lifting capacity are based on ISO 10567.

2. Lifting capacity of the HX series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.

3. The Lift-point is bucket pivot mounting pin on the arm (without bucket mass).

4. *Indicates load limited by hydraulic capacity.

※ Lifting capacities are based upon a standard machine conditions.

Lifting capacities will vary with different work tools, ground conditions and attachments.


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

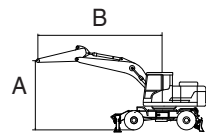
Consult with your local HD Hyundai Construction Equipment dealer regarding the lifting capacities for specific work tools and attachments.









▲ Failure to comply to the rated load can cause serious injury, death, or property damage. Make adjustments to the rated load as necessary for non-standard configurations.

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW170A CR	2-PIECE BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5000	2000	4200	-	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							*4790 *10560	*4790 *10560	4.19 (13.8)
6.0 m (19.7 ft)	kg lb			*4310 *9500	*4310 *9500			*4390 *9680	2920 6440	5.75 (18.9)
4.5 m (14.8 ft)	kg lb			*4930 *10870	4220 9300	*4350 *9590	2700 5950	4000 8820	2290 5050	6.60 (21.7)
3.0 m (9.8 ft)	kg lb			*6070 *13380	3900 8600	4560 10050	2590 5710	3570 7870	2020 4450	7.03 (23.1)
1.5 m (4.9 ft)	kg lb			6770 14930	3620 7980	4430 9770	2460 5420	3450 7610	1930 4250	7.12 (23.4)
0.0 m (0.0 ft)	kg lb			6630 14620	3500 7720	4340 9570	2390 5270	3600 7940	2000 4410	6.87 (22.5)
-1.5 m (-4.9 ft)	kg lb	*10340 *22800	6400 14110	6630 14620	3510 7740	4360 9610	2400 5290	4140 9130	2290 5050	6.24 (20.5)

Note 1. Lifting capacity are based on ISO 10567.

2. Lifting capacity of the HX series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.

3. The Lift-point is bucket pivot mounting pin on the arm (without bucket mass).

4. *Indicates load limited by hydraulic capacity.

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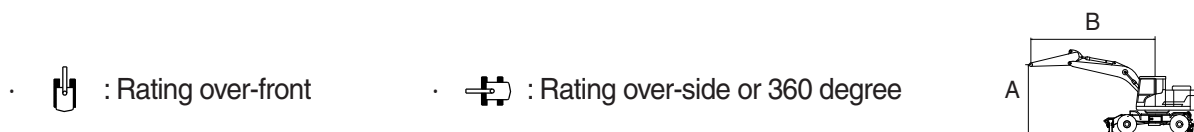
Lifting capacities will vary with different work tools, ground conditions and attachments.











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

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

▲ Failure to comply to the rated load can cause serious injury, death, or property damage. Make adjustments to the rated load as necessary for non-standard configurations.

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW170A CR	2-PIECE BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5000	2450	4200	-	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			*4040 *8910	*4040 *8910					*3280 *7230	*3280 *7230	4.95 (16.2)
6.0 m (19.7 ft)	kg lb			*3820 *8420	*3820 *8420	*3900 *8600	3070 6770			*2780 *6130	*2780 *6130	6.31 (20.7)
4.5 m (14.8 ft)	kg lb			*4470 *9850	*4470 *9850	*4010 *8840	3020 6660			*2600 *5730	2260 4980	7.10 (23.3)
3.0 m (9.8 ft)	kg lb			*5630 *12410	4410 9720	*4480 *9880	2880 6350	*2610 *5750	2020 4450	*2590 *5710	2020 4450	7.50 (24.6)
1.5 m (4.9 ft)	kg lb			*6770 *14930	4080 8990	4420 9740	2740 6040	3180 7010	1980 4370	*2700 *5950	1940 4280	7.58 (24.9)
0.0 m (0.0 ft)	kg lb			6600 14550	3910 8620	4310 9500	2640 5820			*2980 *6570	2010 4430	7.35 (24.1)
-1.5 m (-4.9 ft)	kg lb	*9110 *20080	7170 15810	6560 14460	3880 8550	4280 9440	2620 5780			*3530 *7780	2250 4960	6.77 (22.2)
-3.0 m (-9.8 ft)	kg lb			*6380 *14070	3970 8750							

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.

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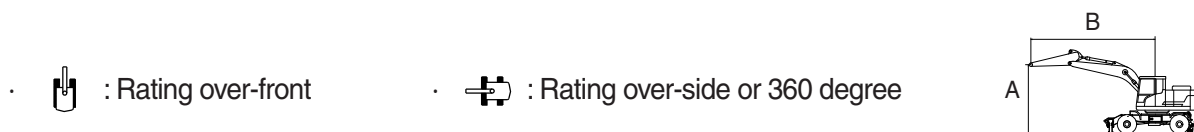
Lifting capacities will vary with different work tools, ground conditions and attachments.











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

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

▲ Failure to comply to the rated load can cause serious injury, death, or property damage. Make adjustments to the rated load as necessary for non-standard configurations.

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW170A CR	2-PIECE BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5000	2450	4200	-	500	-	Up	-	-



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
												m (ft)
7.5 m (24.6 ft)	kg lb			*4040 *8910	*4040 *8910					*3280 *7230	*3280 *7230	4.95 (16.2)
6.0 m (19.7 ft)	kg lb			*3820 *8420	*3820 *8420	*3900 *8600	2770 6110			*2780 *6130	2510 5530	6.31 (20.7)
4.5 m (14.8 ft)	kg lb			*4470 *9850	4290 9460	*4010 *8840	2730 6020			*2600 *5730	2030 4480	7.10 (23.3)
3.0 m (9.8 ft)	kg lb			*5630 *12410	3950 8710	*4480 *9880	2590 5710	*2610 *5750	1810 3990	*2590 *5710	1810 3990	7.50 (24.6)
1.5 m (4.9 ft)	kg lb			*6770 *14930	3640 8020	4420 9740	2450 5400	3180 7010	1760 3880	*2700 *5950	1730 3810	7.58 (24.9)
0.0 m (0.0 ft)	kg lb			6600 14550	3470 7650	4310 9500	2350 5180			*2980 *6570	1790 3950	7.35 (24.1)
-1.5 m (-4.9 ft)	kg lb	*9110 *20080	6260 13800	6560 14460	3430 7560	4280 9440	2330 5140			*3530 *7780	2010 4430	6.77 (22.2)
-3.0 m (-9.8 ft)	kg lb			*6380 *14070	3520 7760							

Note 1. Lifting capacity are based on ISO 10567.

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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.

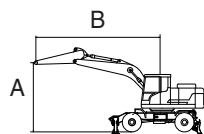
Consult with your local HD Hyundai Construction Equipment dealer regarding the lifting capacities for specific work tools and attachments.











▲ Failure to comply to the rated load can cause serious injury, death, or property damage. Make adjustments to the rated load as necessary for non-standard configurations.

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW170A CR	2-PIECE BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5000	2600	4200	-	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)		7.5 m (24.6 ft)		Capacity		Reach
												m (ft)
7.5 m (24.6 ft)	kg lb			*3810 *8400	*3810 *8400					*3480 *7670	*3480 *7670	5.15 (16.9)
6.0 m (19.7 ft)	kg lb			*3660 *8070	*3660 *8070	*3740 *8250	3090 6810			*2990 *6590	2680 5910	6.47 (21.2)
4.5 m (14.8 ft)	kg lb			*4310 *9500	*4310 *9500	*3900 *8600	3030 6680			*2830 *6240	2190 4830	7.24 (23.7)
3.0 m (9.8 ft)	kg lb			*5480 *12080	4430 9770	*4390 *9680	2890 6370	3230 7120	2020 4450	*2820 *6220	1960 4320	7.63 (25.0)
1.5 m (4.9 ft)	kg lb			*6660 *14680	4090 9020	4420 9740	2740 6040	3170 6990	1970 4340	*2950 *6500	1890 4170	7.71 (25.3)
0.0 m (0.0 ft)	kg lb			6590 14530	3900 8600	4300 9480	2630 5800			3150 6940	1940 4280	7.48 (24.5)
-1.5 m (-4.9 ft)	kg lb	*8880 *19580	7130 15720	6540 14420	3850 8490	4270 9410	2600 5730			3520 7760	2170 4780	6.91 (22.7)
-3.0 m (-9.8 ft)	kg lb			*6510 *14350	3930 8660							

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.

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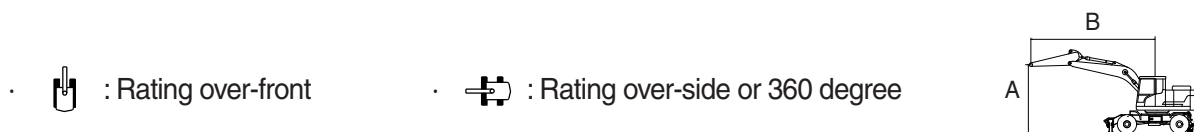
Lifting capacities will vary with different work tools, ground conditions and attachments.











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

▲ Failure to comply to the rated load can cause serious injury, death, or property damage. Make adjustments to the rated load as necessary for non-standard configurations.

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW170A CR	2-PIECE BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5000	2600	4200	-	500	-	Up	-	-



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
												m (ft)
7.5 m (24.6 ft)	kg lb			*3810 *8400	*3810 *8400					*3480 *7670	*3480 *7670	5.15 (16.9)
6.0 m (19.7 ft)	kg lb			*3660 *8070	*3660 *8070	*3740 *8250	2790 6150			*2990 *6590	2420 5340	6.47 (21.2)
4.5 m (14.8 ft)	kg lb			*4310 *9500	*4310 *9500	*3900 *8600	2740 6040			*2830 *6240	1970 4340	7.24 (23.7)
3.0 m (9.8 ft)	kg lb			*5480 *12080	3970 8750	*4390 *9680	2600 5730	3230 7120	1810 3990	*2820 *6220	1750 3860	7.63 (25.0)
1.5 m (4.9 ft)	kg lb			*6660 *14680	3640 8020	4420 9740	2450 5400	3170 6990	1760 3880	*2950 *6500	1680 3700	7.71 (25.3)
0.0 m (0.0 ft)	kg lb			6590 14530	3460 7630	4300 9480	2340 5160			3150 6940	1730 3810	7.48 (24.5)
-1.5 m (-4.9 ft)	kg lb	*8880 *19580	6210 13690	6540 14420	3410 7520	4270 9410	2310 5090			3520 7760	1930 4250	6.91 (22.7)
-3.0 m (-9.8 ft)	kg lb			*6510 *14350	3490 7690							

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

▲ Failure to comply to the rated load can cause serious injury, death, or property damage. Make adjustments to the rated load as necessary for non-standard configurations.

6. BUCKET SELECTION GUIDE

1) DOZER BLADE UP



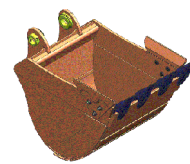
General bucket



Heavy duty



Ditch cleaning



Hammerless tooth

Type	Capacity		Width		Weight	Tooth	2-PIECE		
	SAE Heaped	CECE heaped	Without side cutter	With side cutter			Recommendation mm (ft-in)		
							5.0 m (16' 5") Boom		
m ³ (yd ³)	m ³ (yd ³)	mm (in)	mm (in)	kg (lb)	EA	2.0 m (6' 7") Arm	2.45 m (8' 0") Arm	2.6 m (8' 6") Arm	
General bucket	0.70 (0.92)	0.60 (0.78)	1020 (40.2")	1100 (43.3")	600 (1320)	5	☉	■	■
	0.76 (0.99)	0.65 (0.85)	1010 (39.8")	1170 (46.1")	620 (1370)	5	■	▲	▲
	0.89 (1.16)	0.77 (1.01)	1170 (46.1")	1325 (52.2")	680 (1500)	6	▲	▲	X
	1.05 (1.37)	0.90 (1.18)	1355 (53.3")	1510 (59.4")	740 (1630)	6	X	X	X
Heavy duty	0.69 (0.90)	0.62 (0.81)	1025 (40.4")	-	720 (1590)	5	☉	■	▲
Ditch cleaning	0.75 (0.98)	0.65 (0.85)	1820 (71.7")	-	540 (1190)	0	☉	■	■
Hammer- less tooth	0.73 (0.95)	0.67 (0.88)	914 (36.0")	946 (37.2")	620 (1370)	5	☉	■	▲
	0.85 (1.11)	0.76 (0.99)	1067 (42.0")	1096 (43.1")	670 (1480)	5	■	▲	▲

●	Applicable for materials with density of 2100 kg/m ³ (3500 lb/yd ³) or less
◐	Applicable for materials with density of 1800 kg/m ³ (3000 lb/yd ³) or less
■	Applicable for materials with density of 1500 kg/m ³ (2500 lb/yd ³) or less
▲	Applicable for materials with density of 1200 kg/m ³ (2000 lb/yd ³) or less
X	Not recommended

※ These recommendations are for general conditions and average use.

Work tools and ground conditions have effects on machine performance.

Select an optimum combination according to the working conditions and the type of work that is being done.

Consult your HD Hyundai Construction Equipment dealer for information on selecting the correct boom—arm—bucket combination.

2) DOZER BLADE DOWN



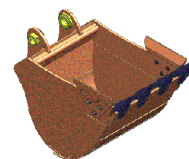
General bucket



Heavy duty



Ditch cleaning



Hammerless tooth

Type	Capacity		Width		Weight	Tooth	2-PIECE		
	SAE Heaped	CECE heaped	Without side cutter	With side cutter			Recommendation mm (ft-in)		
							5.0 m (16' 5") Boom		
							2.0 m (6' 7") Arm	2.45 m (8' 0") Arm	2.6 m (8' 6") Arm
	m³ (yd³)	m³ (yd³)	mm (in)	mm (in)	kg (lb)	EA			
General bucket	0.70 (0.92)	0.60 (0.78)	1020 (40.2")	1100 (43.3")	600 (1320)	5	●	◐	◐
	0.76 (0.99)	0.65 (0.85)	1010 (39.8")	1170 (46.1")	620 (1370)	5	◐	■	■
	0.89 (1.16)	0.77 (1.01)	1170 (46.1")	1325 (52.2")	680 (1500)	6	■	▲	▲
	1.05 (1.37)	0.90 (1.18)	1355 (53.3")	1510 (59.4")	740 (1630)	6	▲	X	X
Heavy duty	0.69 (0.90)	0.62 (0.81)	1025 (40.4")	-	720 (1590)	5	●	◐	■
Ditch cleaning	0.75 (0.98)	0.65 (0.85)	1820 (71.7")	-	540 (1190)	0	●	◐	■
Hammer -less tooth	0.73 (0.95)	0.67 (0.88)	914 (36.0")	946 (37.2")	620 (1370)	5	◐	◐	■
	0.85 (1.11)	0.76 (0.99)	1067 (42.0")	1096 (43.1")	670 (1480)	5	■	■	▲

●	Applicable for materials with density of 2100 kg/m ³ (3500 lb/yd ³) or less
◐	Applicable for materials with density of 1800 kg/m ³ (3000 lb/yd ³) or less
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▲	Applicable for materials with density of 1200 kg/m ³ (2000 lb/yd ³) or less
X	Not recommended

※ These recommendations are for general conditions and average use.

Work tools and ground conditions have effects on machine performance.

Select an optimum combination according to the working conditions and the type of work that is being done.

Consult your HD Hyundai Construction Equipment dealer for information on selecting the correct boom—arm—bucket combination.

7. SPECIFICATIONS FOR MAJOR COMPONENTS

1) ENGINE

Item	Specification
Maker / Model	CUMMINS / B4.5
Type	4-cycle, turbocharged, charge air cooled, electronic controlled diesel engine
Cooling method	Water cooled
Number of cylinders and arrangement	4 cylinders, in-line
Firing order	1-3-2-4
Combustion chamber type	Direct injection type
Cylinder bore × stroke	107 × 124 mm (4.21" × 4.88")
Displacement	4.5 ℓ (275 cu in)
Compression ratio	17.2 : 1
Gross power	173 Hp (129 kW) at 2200 rpm
Net power	170 Hp (127 kW) at 2200 rpm
Max. power	173 Hp (129 kW) at 2200 rpm
Peak Torque	780 N · m (575 lb · ft) at 1500 rpm
Engine oil quantity	11 ℓ (2.9 U.S. gal)
Wet weight or Dry weight	378 kg (830 lb)
Starter motor	24 V-4.8 kW
Alternator	24 V-95 A
Battery	2 × 12 × 100 Ah

2) MAIN PUMP

Item	Specification
Type	Variable displacement piston pump
Capacity	145 cc/rev
Maximum pressure	350 kgf/cm ² (4980 psi) [380 kgf/cm ² (5400 psi)]
Rated oil flow	260 ℓ /min (68.7 U.S. gpm / 57.2 U.K. gpm)
Rated speed	1800 rpm

[]: Power boost

3) STEERING PUMP

Item	Specification
Type	Fixed displacement gear pump single stage
Capacity	35cc/rev
Maximum pressure	210 kgf/cm ² (2990 psi)
Rated oil flow	60 ℓ /min (15.9 U.S. gpm/13.2 U.K. gpm)

4) MAIN CONTROL VALVE

Item	Specification
Type	Section block
Operating method	Hydraulic pilot system
Main relief valve pressure	350 kgf/cm ² (4980 psi)
Main relief valve pressure (power boost)	380 kgf/cm ² (5400 psi)
Overload relief valve pressure	420 kgf/cm ² (5970 psi)

5) SWING UNIT

Item	Specification
Type	Radial piston motor
Capacity	1687 cc/rev
Relief pressure	270 kgf/cm ² (3840 psi)
Braking system	Automatic, spring applied hydraulic released
Brake release pressure	15~40 kgf/cm ² (213~569 psi)
Reduction gear type	-

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)	140/51.8 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		3286 kgf · m (23760 lbf · ft)
Axle	Type		4 wheel drive with differential
	Gear ratio		16.0
	Brake		Multi disc brake
	Brake pressure		81.6 kgf /cm ² (1160 psi)
	Steering pressure		204 kgf /cm ² (2900 psi)

8) POWER TRAIN GEAR PUMP

Item	Description
Capacity	Steering + brake : 11.9 + 19.3 cc / rev (pump PTO)
Rated flow	Steering + brake : 20 + 33 lpm (1800 rpm) (5.3 + 8.7 U.S. gpm / 4.4 + 7.3 U.K. gpm)

9) CYLINDER

Item		Specification
Arm cylinder	Bore dia × Rod dia × Stroke	Ø 120 × Ø 80 × 1235 mm
	Cushion	Extend and retract
Bucket cylinder	Bore dia × Rod dia × Stroke	Ø 105 × Ø 75 × 995 mm
	Cushion	Extend only
Dozer cylinder	Bore dia × Rod dia × Stroke	Ø 110 × Ø 65 × 235 mm
	Cushion	-
Outrigger cylinder	Bore dia × Rod dia × Stroke	Ø 125 × Ø 75 × 463 mm
	Cushion	-
Adjust cylinder	Bore dia × Rod dia × Stroke	Ø 160 × Ø 95 × 624 mm
	Cushion	-
2-piece boom cylinder	Bore dia × Rod dia × Stroke	Ø 110 × Ø 75 × 992 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. 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	11 (2.9)	★SAE 0W-40								
Transmission case		2.5 (0.66)	★SAE 5W-30								
			SAE 5W-40								
			SAE 15W-40								
DEF/ AdBlue® tank	Mixture of urea and deionized water	48 (12.7)	ISO 22241, High-purity urea + deionized water (32.5:67.5)								
Front axle	Gear oil	Center : 10.5 (2.77) Hub : 2.5×2 (0.66×2)	SAE 85W-90 LSD or UTTO								
Rear axle		Center : 12.5 (3.30) Hub : 2.5×2 (0.66×2)									
Hydraulic tank	Hydraulic oil	Tank: 103 (27.2) System: 204 (53.9)	★ISO VG 15								
			ISO VG 32								
			ISO VG 46, HBHO★ ³								
			ISO VG 68								
Fuel tank	Diesel fuel★ ¹	200 (52.8)	★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 (5.5)	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 ≤ 10 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 your local HD Hyundai Construction Equipment dealers.