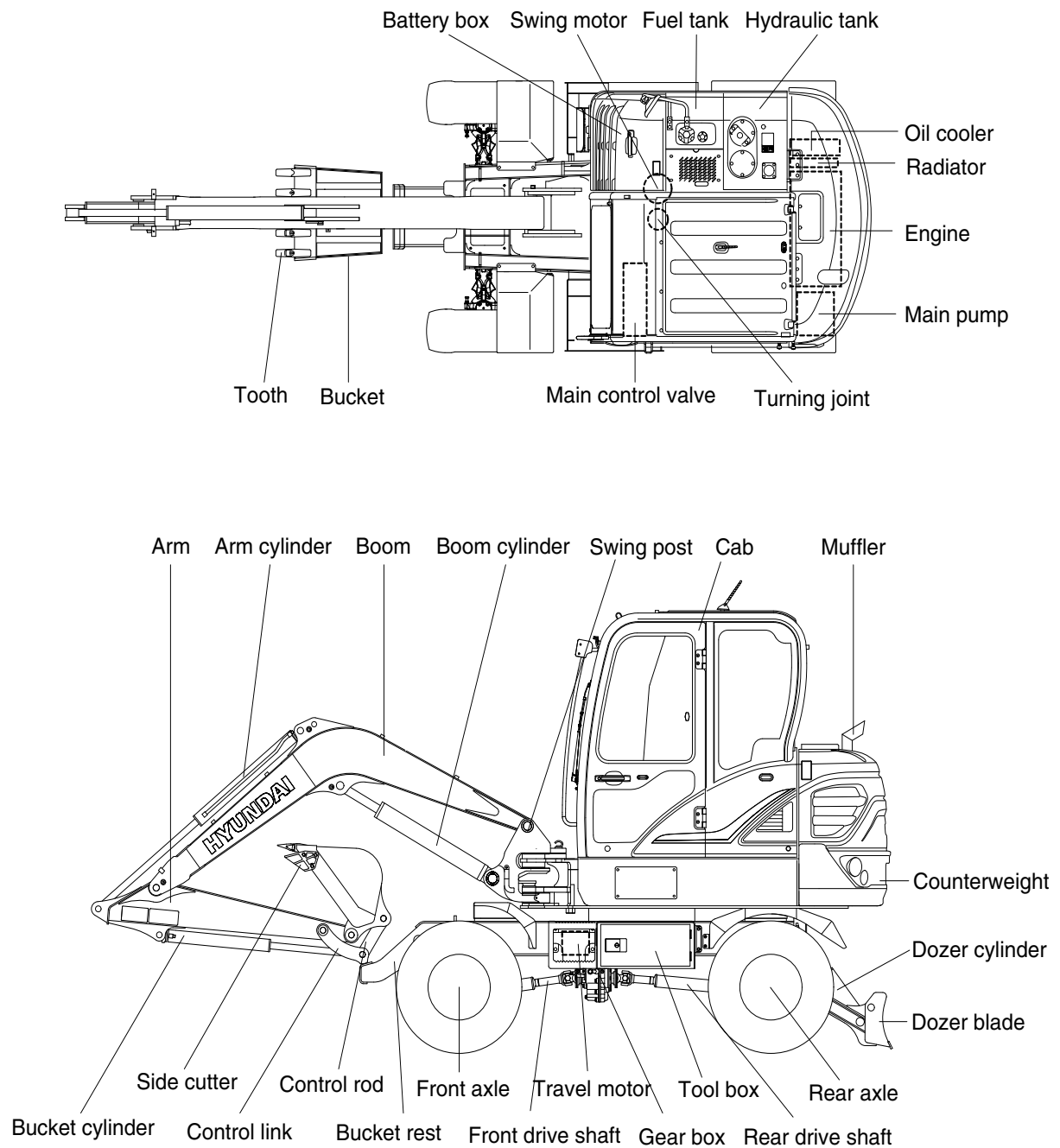


SPECIFICATIONS

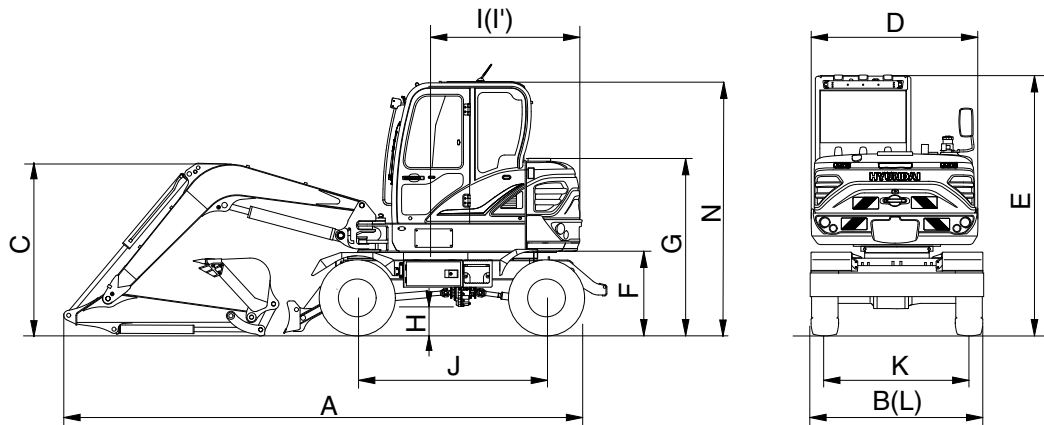
1. MAJOR COMPONENTS



HW602SP01A

2. SPECIFICATIONS

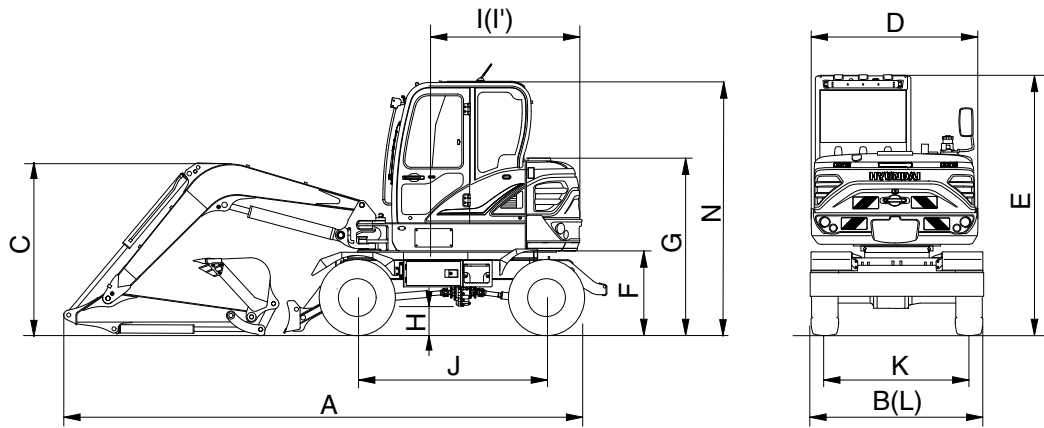
1) 3.0 m (9'10") MONO BOOM, 1.6 m (5' 3") ARM WITH BOOM SWING SYSTEM



HW65AH2SP02

Description		Unit		Specification		
		m (ft-in)	Boom	3.0 (9' 10")		
			Arm	1.60 (5' 3")		
		Tire		Single 1200	Double 700	
		Axle		STD	HD	
Operating weight		kg (lb)		6065 (13370)	6355 (14010)	
Overall length (travel)	A	mm (ft-in)	6200 (20' 4")	6200 (20' 4")		
Overall length (shipping)			6055 (19' 1")	6055 (19' 1")		
Overall width	B		1925 (6' 4")	2100 (6' 11")		
Overall height of boom (travel)	C		2800 (9' 2")	2800 (9' 2")		
Overall height of boom (shipping)			2280 (7' 6")	2280 (7' 6")		
Upperstructure width	D		1850 (6' 1")	1850 (6' 1")		
Overall height of cab	E		2905 (9' 6")	2865 (9' 5")		
Ground clearance of counterweight	F		1000 (3' 3")	960 (3' 2")		
Overall height of engine hood	G		2005 (6' 7")	1965 (6' 5")		
Minimum ground clearance	H		315 (1. 0")	275 (0.11")		
Rear-end distance	I		1650 (5' 5")	1653 (5' 5")		
Rear-end swing radius	I'		1650 (5' 5")	1650 (5' 5")		
Wheel base	J		2100 (6' 11")	2100 (6' 11")		
Tread	K		1600 (5' 3")	1660 (5' 5")		
Dozer blade width	L		1925 (6' 4")	2100 (6' 11")		
Height of blade	O		350 (1' 2")	350 (1' 2")		
Ground clearance of blade up	P		430 (1' 5")	430 (1' 5")		
Depth of blade down	Q		154 (0' 6")	154 (0' 6")		
Travel speed	Low	km/hr (mph)	11 (6.8)	13.1 (8.1)		
	High		32 (19.9)	30 (18.6)		
Swing speed		rpm	8.26	8.26		
Gradeability		Degree (%)	30 (58)	30 (58)		
Max traction force		kg (lb)	3042 (6710)	3042 (6710)		

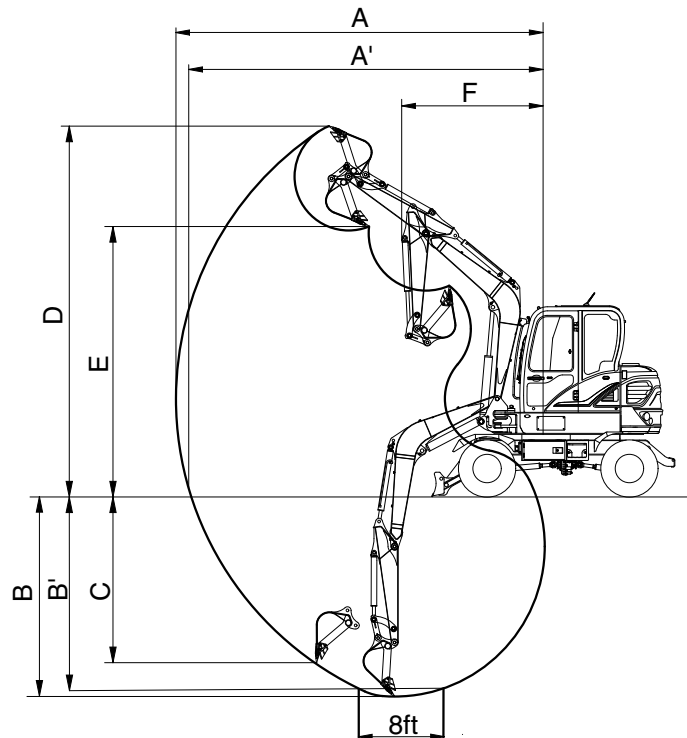
2) 3.0 m (9'10") MONO BOOM, 1.9 m (6' 3") ARM WITH BOOM SWING SYSTEM



Description		Unit		Specification		
		m (ft-in)	Boom	3.0 (9' 10")		
			Arm	1.90 (6' 3")		
		Tire		Single 1200	Double 700	
		Axle		STD	HD	
Operating weight		kg (lb)		6195 (13660)	6485 (14300)	
Overall length (travel)	A	mm (ft-in)	6060 (19' 11")	6060 (19' 11")		
Overall length (shipping)			6123 (20' 10")	6123 (20' 10")		
Overall width	B		1925 (6' 4")	2100 (6' 11")		
Overall height of boom (travel)	C		3070 (10' 1")	3070 (10' 1")		
Overall height of boom (shipping)			2590 (8' 6")	2590 (8' 6")		
Upperstructure width	D		1850 (6' 1")	1850 (6' 1")		
Overall height of cab	E		2905 (9' 6")	2865 (9' 5")		
Ground clearance of counterweight	F		1000 (3' 3")	960 (3' 2")		
Overall height of engine hood	G		2005 (6' 7")	1965 (6' 5")		
Minimum ground clearance	H		315 (1.0")	275 (0.11")		
Rear-end distance	I		1675 (5' 6")	1675 (5' 6")		
Rear-end swing radius	I'		1680 (5' 6")	1680 (5' 6")		
Wheel base	J		2100 (6' 11")	2100 (6' 11")		
Tread	K		1600 (5' 3")	1660 (5' 5")		
Dozer blade width	L		1925 (6' 4")	2100 (6' 11")		
Height of blade	O		350 (1' 2")	350 (1' 2")		
Ground clearance of blade up	P		430 (1' 5")	430 (1' 5")		
Depth of blade down	Q		154 (0' 6")	154 (0' 6")		
Travel speed	Low	km/hr (mph)	11 (6.8)	13.1 (8.1)		
	High		32 (19.9)	30 (18.6)		
Swing speed		rpm	8.26	8.26		
Gradeability		Degree (%)	30 (58)	30 (58)		
Max traction force		kg (lb)	3042 (6710)	3042 (6710)		

3. WORKING RANGE

1) 3.0 m (9'10") MONO BOOM WITH BOOM SWING SYSTEM



HW65AH2SP03

Description	m (ft-in)	Boom	3.0 m (9' 10")	
		Arm	1.6 m (5' 3")	1.9 m (6' 3")
Max digging reach	mm (ft-in)	A	6150 mm (20' 2")	6450 mm (21' 2")
Max digging reach on ground		A'	5950 mm (19' 6")	6250 mm (20' 6")
Max digging depth		B	3490 mm (11' 5")	3790 mm (12' 5")
Max digging depth (8 ft level)		B'	3100 mm (10' 2")	3440 mm (11' 3")
Max vertical wall digging depth		C	3950 mm (13' 0")	3320 mm (10' 11")
Max digging height		D	6045 mm (19' 1")	6260 mm (20' 6")
Max dumping height		E	4290 mm (14' 1")	4490 mm (14' 1")
Min swing radius		F	2380 mm (7' 10")	2410 mm (7' 11")
Bucket digging force	kN	SAE	36.9 [40.2]	36.9 [40.2]
	kgf		3763 [4100]	3763 [4100]
	lbf		8295 [9039]	8290 [9039]
	kN	ISO	42.1 [45.9]	42.1 [45.9]
	kgf		4292 [4680]	4290 [4680]
	lbf		9461 [10318]	9462 [10318]
Arm crowd force	kN	SAE	27.3 [29.7]	24.3 [26.5]
	kgf		2779 [3030]	2476 [2476]
	lbf		6126 [6680]	5459 [5459]
	kN	ISO	28.3 [30.9]	25.1 [27.4]
	kgf		2886 [3150]	2561 [2790]
	lbf		6335 [6945]	5646 [6151]

4. WEIGHT

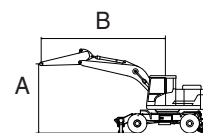
Item	HW65AH	
	kg	lb
Upperstructure assembly		
Main frame weld assembly	764	1684
Engine assembly	264	582
Aftertreatment assy	11	25
Main pump assembly	35	77
Main control valve assembly	50	110
Swing motor assembly	76	168
Hydraulic oil tank assembly	95	208
Hydraulic oil (max)	61	135
Fuel tank assembly	67	148
Fuel oil (max)	106	233
Counterweight (STD)	210	463
Counterweight (Heavy)	330	728
Cab assembly	350	772
Lower chassis assembly		
Lower frame weld assembly (single tire)	753	1660
Lower frame weld assembly (double tire)	769	1695
Swing bearing	102	225
Travel motor assembly	43	95
Turning joint	60	132
Transmission assembly	100	220
Front axle assembly	280	617
Rear axle assembly	240	529
Dozer blade assembly (single tire)	230	507
Dozer blade assembly (double tire)	242	534
Front attachment assembly		
3.0 m boom assembly	247	545
1.6 m arm assembly	130	287
1.9 m arm assembly	135	298
0.18 m³ SAE heaped bucket assembly	162	357
0.07 m³ SAE heaped bucket assembly	110	243
Boom cylinder assembly	78	172
Arm cylinder assembly	65	143
Bucket cylinder assembly	37	82
Dozer cylinder assembly	31	68
Bucket control linkage total	46	102











5. LIFTING CAPACITIES

Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
HW65AH	MONO BOOM	SINGLE TIRE	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
			3000	1600	210	-	-	Down	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		2.0 m (6.6 ft)		3.0 m (9.8 ft)		4.0 m (13.1 ft)		5.0 m (16.4 ft)		Capacity		Reach
												m (ft)
5.0 m (16.4 ft)	kg lb									*1310 *2890	*1310 *2890	3.51 (11.5)
4.0 m (13.1 ft)	kg lb					*1210 *2670	*1210 *2670			*1270 *2800	1100 2430	4.45 (14.6)
3.0 m (9.8 ft)	kg lb			*1490 *3280	*1490 *3280	*1320 *2910	1290 2840			*1230 *2710	910 2010	4.96 (16.3)
2.0 m (6.6 ft)	kg lb			*2140 *4720	1900 4190	*1570 *3460	1240 2730	*1350 *2980	890 1960	*1260 *2780	840 1850	5.19 (17.0)
1.0 m (3.3 ft)	kg lb			*2670 *5890	1790 3950	*1810 *3990	1190 2620	1340 2950	870 1920	1270 2800	820 1810	5.19 (17.0)
0.0 m (0.0 ft)	kg lb	*1930 *4250	*1930 *4250	*2820 *6220	1750 3860	1840 4060	1160 2560			1340 2950	860 1900	4.96 (16.3)
-1.0 m (-3.3 ft)	kg lb	*3740 *8250	3470 7650	*2630 *5800	1750 3860	*1800 *3970	1160 2560			*1500 *3310	1000 2200	4.46 (14.6)
-2.0 m (-6.6 ft)	kg lb	*3130 *6900	*3130 *6900	*2000 *4410	1790 3950					*1520 *3350	1420 3130	3.53 (11.6)

※ Note

- Lifting capacity are based on SAE J1097 and ISO 10567.
- 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.
- The lift-point is bucket pivot mounting pin on the arm (without bucket mass).
- *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.

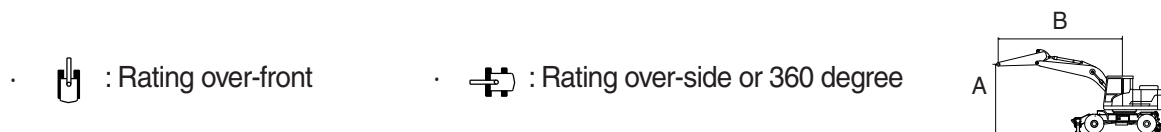
The difference between the weight of a work tool attachment must be subtracted.











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	Wheel	Dozer		Outrigger	
HW65AH	MONO BOOM	SINGLE TIRE	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
			3000	1600	210	-	-	Up	-	-



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		2.0 m (6.6 ft)		3.0 m (9.8 ft)		4.0 m (13.1 ft)		5.0 m (16.4 ft)		Capacity		Reach
												m (ft)
5.0 m (16.4 ft)	kg lb									*1310 *2890	*1310 *2890	3.51 (11.5)
4.0 m (13.1 ft)	kg lb					*1210 *2670	1140 2510			*1270 *2800	950 2090	4.45 (14.6)
3.0 m (9.8 ft)	kg lb			*1490 *3280	*1490 *3280	*1320 *2910	1110 2450			*1230 *2710	790 1740	4.96 (16.3)
2.0 m (6.6 ft)	kg lb			*2140 *4720	1620 3570	*1570 *3460	1060 2340	*1350 *2980	760 1680	*1260 *2780	720 1590	5.19 (17.0)
1.0 m (3.3 ft)	kg lb			*2670 *5890	1510 3330	*1810 *3990	1020 2250	1340 2950	740 1630	1270 2800	700 1540	5.19 (17.0)
0.0 m (0.0 ft)	kg lb	*1930 *4250	*1930 *4250	*2820 *6220	1470 3240	1840 4060	990 2180			1340 2950	740 1630	4.96 (16.3)
-1.0 m (-3.3 ft)	kg lb	*3740 *8250	2810 6190	*2630 *5800	1470 3240	*1800 *3970	990 2180			*1500 *3310	860 1900	4.46 (14.6)
-2.0 m (-6.6 ft)	kg lb	*3130 *6900	2880 6350	*2000 *4410	1510 3330					*1520 *3350	1210 2670	3.53 (11.6)

※ Note

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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.

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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 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	Wheel	Dozer		Outrigger	
HW65AH	MONO BOOM	SINGLE TIRE	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
			3000	1600	330	-	-	Down	-	-



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		2.0 m (6.6 ft)		3.0 m (9.8 ft)		4.0 m (13.1 ft)		5.0 m (16.4 ft)		Capacity		Reach
												m (ft)
5.0 m (16.4 ft)	kg lb									*1310 *2890	*1310 *2890	3.51 (11.5)
4.0 m (13.1 ft)	kg lb					*1210 *2670	*1210 *2670			*1270 *2800	1160 2560	4.45 (14.6)
3.0 m (9.8 ft)	kg lb			*1490 *3280	*1490 *3280	*1320 *2910	*1320 *2910			*1230 *2710	970 2140	4.96 (16.3)
2.0 m (6.6 ft)	kg lb			*2140 *4720	2000 4410	*1570 *3460	1310 2890	*1350 *2980	940 2070	*1260 *2780	880 1940	5.19 (17.0)
1.0 m (3.3 ft)	kg lb			*2670 *5890	1890 4170	*1810 *3990	1260 2780	1400 3090	920 2030	1330 2930	870 1920	5.19 (17.0)
0.0 m (0.0 ft)	kg lb	*1930 *4250	*1930 *4250	*2820 *6220	1850 4080	*1920 *4230	1230 2710			1410 3110	920 2030	4.96 (16.3)
-1.0 m (-3.3 ft)	kg lb	*3740 *8250	3660 8070	*2630 *5800	1850 4080	*1800 *3970	1230 2710			*1500 *3310	1060 2340	4.46 (14.6)
-2.0 m (-6.6 ft)	kg lb	*3130 *6900	*3130 *6900	*2000 *4410	1890 4170					*1520 *3350	1500 3310	3.53 (11.6)

※ 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 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.

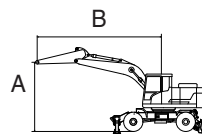
Consult your HD Hyundai Construction Equipment dealer regarding the lifting capacities for specific work tools and attachments.











▲ 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	Wheel	Dozer		Outrigger	
HW65AH	MONO BOOM	SINGLE TIRE	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
			3000	1600	330	-	-	Up	-	-

-  : Rating over-front
  : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		2.0 m (6.6 ft)		3.0 m (9.8 ft)		4.0 m (13.1 ft)		5.0 m (16.4 ft)		Capacity		Reach
												m (ft)
5.0 m (16.4 ft)	kg lb									*1310 *2890	*1310 *2890	3.51 (11.5)
4.0 m (13.1 ft)	kg lb					*1210 *2670	1200 2650			*1270 *2800	1000 2200	4.45 (14.6)
3.0 m (9.8 ft)	kg lb			*1490 *3280	*1490 *3280	*1320 *2910	1180 2600			*1230 *2710	840 1850	4.96 (16.3)
2.0 m (6.6 ft)	kg lb			*2140 *4720	1710 3770	*1570 *3460	1130 2490	*1350 *2980	810 1790	*1260 *2780	760 1680	5.19 (17.0)
1.0 m (3.3 ft)	kg lb			*2670 *5890	1610 3550	*1810 *3990	1080 2380	1400 3090	790 1740	1330 2930	750 1650	5.19 (17.0)
0.0 m (0.0 ft)	kg lb	*1930 *4250	*1930 *4250	*2820 *6220	1560 3440	*1920 *4230	1050 2310			1410 3110	790 1740	4.96 (16.3)
-1.0 m (-3.3 ft)	kg lb	*3740 *8250	2980 6570	*2630 *5800	1560 3440	*1800 *3970	1050 2310			*1500 *3310	910 2010	4.46 (14.6)
-2.0 m (-6.6 ft)	kg lb	*3130 *6900	3050 6720	*2000 *4410	1600 3530					*1520 *3350	1280 2820	3.53 (11.6)

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

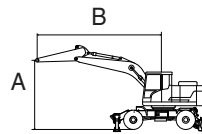
▲ Failure to comply to the rated load can cause possible personal injury or property damage.













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

Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
HW65AH	MONO BOOM	SINGLE TIRE	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
			3000	1900	210	-	-	Down	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Load point height		Load radius										At max. reach		
		1.0 m (3 ft)		2.0 m (7 ft)		3.0 m (10 ft)		4.0 m (13 ft)		5.0 m (16 ft)		Capacity		Reach
														m (ft)
5.0 m (16.4 ft)	kg lb											*1180 *2600	*1180 *2600	3.97 (13.0)
4.0 m (13.1 ft)	kg lb							*1060 *2340	*1060 *2340			*1050 *2310	980 2160	4.80 (15.7)
3.0 m (9.8 ft)	kg lb							*1200 *2650	*1200 *2650	*1180 *2600	920 2030	*1010 *2230	840 1850	5.27 (17.3)
2.0 m (6.6 ft)	kg lb					*1930 *4250	*1930 *4250	*1460 *3220	1260 2780	*1270 *2800	900 1980	*1030 *2270	770 1700	5.49 (18.0)
1.0 m (3.3 ft)	kg lb					*2550 *5620	1820 4010	*1740 *3840	1200 2650	1340 2950	870 1920	*1110 *2450	760 1680	5.49 (18.0)
0.0 m (0.0 ft)	kg lb			*1860 *4100	*1860 *4100	*2810 *6190	1760 3880	1840 4060	1160 2560	1320 2910	850 1870	1230 2710	790 1740	5.27 (17.3)
-1.0 m (-3.3 ft)	kg lb	*2260 *4980	*2260 *4980	*3220 *7100	*3220 *7100	*2720 *6000	1740 3840	1830 4030	1150 2540			*1400 *3090	900 1980	4.81 (15.8)
-2.0 m (-6.6 ft)	kg lb	*3620 *7980	*3620 *7980	*3640 *8020	3500 7720	*2260 *4980	1770 3900					*1440 *3170	1180 2600	3.98 (13.1)
-3.0 m (-9.8 ft)	kg lb													

※ Note

1. Lifting capacity are based on SAE J1097 and ISO 10567.
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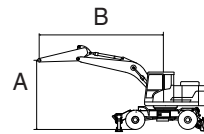
▲ Failure to comply to the rated load can cause possible personal injury or property damage.













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

Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
HW65AH	MONO BOOM	SINGLE TIRE	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
			3000	1900	210	-	-	Up	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Load point height		Load radius										At max. reach		
		1.0 m (3 ft)		2.0 m (7 ft)		3.0 m (10 ft)		4.0 m (13 ft)		5.0 m (16 ft)		Capacity		Reach
														m (ft)
5.0 m (16.4 ft)	kg lb											*1180 *2600	1160 2560	3.97 (13.0)
4.0 m (13.1 ft)	kg lb							*1060 *2340	*1060 *2340			*1050 *2310	850 1870	4.80 (15.7)
3.0 m (9.8 ft)	kg lb							*1200 *2650	1130 2490	*1180 *2600	790 1740	*1010 *2230	720 1590	5.27 (17.3)
2.0 m (6.6 ft)	kg lb					*1930 *4250	1650 3640	*1460 *3220	1080 2380	*1270 *2800	770 1700	*1030 *2270	660 1460	5.49 (18.0)
1.0 m (3.3 ft)	kg lb					*2550 *5620	1540 3400	*1740 *3840	1030 2270	1340 2950	750 1650	*1110 *2450	650 1430	5.49 (18.0)
0.0 m (0.0 ft)	kg lb			*1860 *4100	*1860 *4100	*2810 *6190	1480 3260	1840 4060	990 2180	1320 2910	730 1610	1230 2710	680 1500	5.27 (17.3)
-1.0 m (-3.3 ft)	kg lb	*2260 *4980	*2260 *4980	*3220 *7100	2790 6150	*2720 *6000	1470 3240	1830 4030	980 2160			*1400 *3090	770 1700	4.81 (15.8)
-2.0 m (-6.6 ft)	kg lb	*3620 *7980	*3620 *7980	*3640 *8020	2850 6280	*2260 *4980	1490 3280					*1440 *3170	1010 2230	3.98 (13.1)
-3.0 m (-9.8 ft)	kg lb													

※ 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 lift-point is bucket pivot mounting pin on the arm (without bucket mass).
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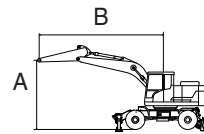
▲ Failure to comply to the rated load can cause possible personal injury or property damage.













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

Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
HW65AH	MONO BOOM	SINGLE TIRE	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
			3000	1900	330	-	-	Down	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Load point height		Load radius										At max. reach		
		1.0 m (3 ft)		2.0 m (7 ft)		3.0 m (10 ft)		4.0 m (13 ft)		5.0 m (16 ft)		Capacity		Reach
														m (ft)
5.0 m (16.4 ft)	kg lb											*1180 *2600	*1180 *2600	3.97 (13.0)
4.0 m (13.1 ft)	kg lb							*1060 *2340	*1060 *2340			*1050 *2310	1040 2290	4.80 (15.7)
3.0 m (9.8 ft)	kg lb							*1200 *2650	*1200 *2650	*1180 *2600	970 2140	*1010 *2230	890 1960	5.27 (17.3)
2.0 m (6.6 ft)	kg lb					*1930 *4250	*1930 *4250	*1460 *3220	1320 2910	*1270 *2800	950 2090	*1030 *2270	820 1810	5.49 (18.0)
1.0 m (3.3 ft)	kg lb					*2550 *5620	1920 4230	*1740 *3840	1270 2800	*1390 *3060	920 2030	*1110 *2450	800 1760	5.49 (18.0)
0.0 m (0.0 ft)	kg lb			*1860 *4100	*1860 *4100	*2810 *6190	1860 4100	*1900 *4190	1230 2710	1390 3060	900 1980	*1270 *2800	840 1850	5.27 (17.3)
-1.0 m (-3.3 ft)	kg lb	*2260 *4980	*2260 *4980	*3220 *7100	*3220 *7100	*2720 *6000	1840 4060	*1870 *4120	1220 2690			*1400 *3090	950 2090	4.81 (15.8)
-2.0 m (-6.6 ft)	kg lb	*3620 *7980	*3620 *7980	*3640 *8020	*3640 *8020	*2260 *4980	1870 4120					*1440 *3170	1250 2760	3.98 (13.1)
-3.0 m (-9.8 ft)	kg lb													

※ Note

1. Lifting capacity are based on SAE J1097 and ISO 10567.
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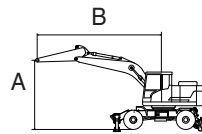
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










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

Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
HW65AH	MONO BOOM	SINGLE TIRE	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
			3000	1900	330	-	-	Up	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Load point height		Load radius										At max. reach		
		1.0 m (3 ft)		2.0 m (7 ft)		3.0 m (10 ft)		4.0 m (13 ft)		5.0 m (16 ft)		Capacity		Reach
														m (ft)
5.0 m (16.4 ft)	kg											*1180	*1180	3.97
	lb											*2600	*2600	(13.0)
4.0 m (13.1 ft)	kg							*1060	*1060			*1050	900	4.80
	lb							*2340	*2340			*2310	1980	(15.7)
3.0 m (9.8 ft)	kg							*1200	1190	*1180	840	*1010	770	5.27
	lb							*2650	2620	*2600	1850	*2230	1700	(17.3)
2.0 m (6.6 ft)	kg					*1930	1740	*1460	1140	*1270	820	*1030	710	5.49
	lb					*4250	3840	*3220	2510	*2800	1810	*2270	1570	(18.0)
1.0 m (3.3 ft)	kg					*2550	1630	*1740	1090	*1390	790	*1110	690	5.49
	lb					*5620	3590	*3840	2400	*3060	1740	*2450	1520	(18.0)
0.0 m (0.0 ft)	kg			*1860	*1860	*2810	1570	*1900	1050	1390	780	*1270	720	5.27
	lb			*4100	*4100	*6190	3460	*4190	2310	3060	1720	*2800	1590	(17.3)
-1.0 m (-3.3 ft)	kg	*2260	*2260	*3220	2960	*2720	1560	*1870	1040			*1400	820	4.81
	lb	*4980	*4980	*7100	6530	*6000	3440	*4120	2290			*3090	1810	(15.8)
-2.0 m (-6.6 ft)	kg	*3620	*3620	*3640	3010	*2260	1580					*1440	1070	3.98
	lb	*7980	*7980	*8020	6640	*4980	3480					*3170	2360	(13.1)
-3.0 m (-9.8 ft)	kg													
	lb													

※ Note

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






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

Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
HW65AH	MONO BOOM	DOUBLE TIRE	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
			3000	1600	210	-	-	Down	-	-



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		2.0 m (6.6 ft)		3.0 m (9.8 ft)		4.0 m (13.1 ft)		5.0 m (16.4 ft)		Capacity		Reach
												m (ft)
5.0 m (16.4 ft)	kg lb									*1310 *2890	*1310 *2890	3.48 (11.4)
4.0 m (13.1 ft)	kg lb					*1210 *2670	*1210 *2670			*1270 *2800	1190 2620	4.43 (14.5)
3.0 m (9.8 ft)	kg lb			*1480 *3260	*1480 *3260	*1320 *2910	*1320 *2910			*1230 *2710	990 2180	4.95 (16.2)
2.0 m (6.6 ft)	kg lb			*2130 *4700	2060 4540	*1560 *3440	1340 2950	*1340 *2950	960 2120	*1260 *2780	910 2010	5.19 (17.0)
1.0 m (3.3 ft)	kg lb			*2670 *5890	1950 4300	*1800 *3970	1290 2840	1400 3090	940 2070	1320 2910	890 1960	5.19 (17.0)
0.0 m (0.0 ft)	kg lb	*1890 *4170	*1890 *4170	*2820 *6220	1900 4190	*1920 *4230	1260 2780			1400 3090	940 2070	4.97 (16.3)
-1.0 m (-3.3 ft)	kg lb	*3690 *8140	*3690 *8140	*2640 *5820	1900 4190	*1810 *3990	1260 2780			*1500 *3310	1080 2380	4.47 (14.7)
-2.0 m (-6.6 ft)	kg lb	*3170 *6990	*3170 *6990	*2020 *4450	1940 4280					*1520 *3350	1520 3350	3.56 (11.7)

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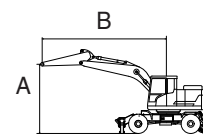
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






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Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
HW65AH	MONO BOOM	DOUBLE TIRE	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
			3000	1600	210	-	-	Up	-	-

-  : Rating over-front
  : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		2.0 m (6.6 ft)		3.0 m (9.8 ft)		4.0 m (13.1 ft)		5.0 m (16.4 ft)		Capacity		Reach
												m (ft)
5.0 m (16.4 ft)	kg lb									*1310 *2890	*1310 *2890	3.48 (11.4)
4.0 m (13.1 ft)	kg lb					*1210 *2670	*1210 *2670			*1270 *2800	1050 2310	4.43 (14.5)
3.0 m (9.8 ft)	kg lb			*1480 *3260	*1480 *3260	*1320 *2910	1220 2690			*1230 *2710	870 1920	4.95 (16.2)
2.0 m (6.6 ft)	kg lb			*2130 *4700	1790 3950	*1560 *3440	1170 2580	*1340 *2950	840 1850	*1260 *2780	790 1740	5.19 (17.0)
1.0 m (3.3 ft)	kg lb			*2670 *5890	1680 3700	*1800 *3970	1130 2490	1400 3090	820 1810	1320 2910	780 1720	5.19 (17.0)
0.0 m (0.0 ft)	kg lb	*1890 *4170	*1890 *4170	*2820 *6220	1640 3620	*1920 *4230	1100 2430			1400 3090	820 1810	4.97 (16.3)
-1.0 m (-3.3 ft)	kg lb	*3690 *8140	3150 6940	*2640 *5820	1640 3620	*1810 *3990	1090 2400			*1500 *3310	950 2090	4.47 (14.7)
-2.0 m (-6.6 ft)	kg lb	*3170 *6990	*3170 *6990	*2020 *4450	1680 3700					*1520 *3350	1320 2910	3.56 (11.7)

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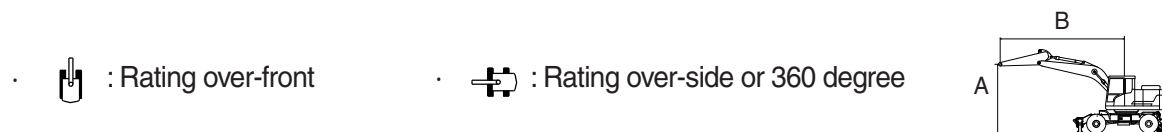
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








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

Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
HW65AH	MONO BOOM	DOUBLE TIRE	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
			3000	1600	330	-	-	Down	-	-



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		2.0 m (6.6 ft)		3.0 m (9.8 ft)		4.0 m (13.1 ft)		5.0 m (16.4 ft)		Capacity		Reach
												m (ft)
5.0 m (16.4 ft)	kg lb									*1310 *2890	*1310 *2890	3.48 (11.4)
4.0 m (13.1 ft)	kg lb					*1210 *2670	*1210 *2670			*1270 *2800	1250 2760	4.43 (14.5)
3.0 m (9.8 ft)	kg lb			*1480 *3260	*1480 *3260	*1320 *2910	*1320 *2910			*1230 *2710	1040 2290	4.95 (16.2)
2.0 m (6.6 ft)	kg lb			*2130 *4700	*2130 *4700	*1560 *3440	1410 3110	*1340 *2950	1010 2230	*1260 *2780	960 2120	5.19 (17.0)
1.0 m (3.3 ft)	kg lb			*2670 *5890	2050 4520	*1800 *3970	1360 3000	*1430 *3150	990 2180	*1370 *3020	940 2070	5.19 (17.0)
0.0 m (0.0 ft)	kg lb	*1890 *4170	*1890 *4170	*2820 *6220	2000 4410	*1920 *4230	1330 2930			*1440 *3170	990 2180	4.97 (16.3)
-1.0 m (-3.3 ft)	kg lb	*3690 *8140	*3690 *8140	*2640 *5820	2000 4410	*1810 *3990	1330 2930			*1500 *3310	1140 2510	4.47 (14.7)
-2.0 m (-6.6 ft)	kg lb	*3170 *6990	*3170 *6990	*2020 *4450	*2020 *4450					*1520 *3350	*1520 *3350	3.56 (11.7)

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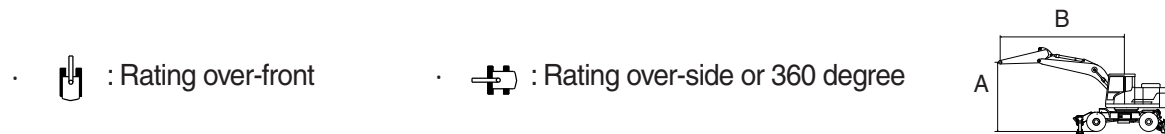
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








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

Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
HW65AH	MONO BOOM	DOUBLE TIRE	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
			3000	1600	330	-	-	Up	-	-



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		2.0 m (6.6 ft)		3.0 m (9.8 ft)		4.0 m (13.1 ft)		5.0 m (16.4 ft)		Capacity		Reach
												m (ft)
5.0 m (16.4 ft)	kg lb									*1310 *2890	*1310 *2890	3.48 (11.4)
4.0 m (13.1 ft)	kg lb					*1210 *2670	*1210 *2670			*1270 *2800	1110 2450	4.43 (14.5)
3.0 m (9.8 ft)	kg lb			*1480 *3260	*1480 *3260	*1320 *2910	1290 2840			*1230 *2710	920 2030	4.95 (16.2)
2.0 m (6.6 ft)	kg lb			*2130 *4700	1880 4140	*1560 *3440	1240 2730	*1340 *2950	890 1960	*1260 *2780	840 1850	5.19 (17.0)
1.0 m (3.3 ft)	kg lb			*2670 *5890	1780 3920	*1800 *3970	1190 2620	*1430 *3150	870 1920	*1370 *3020	820 1810	5.19 (17.0)
0.0 m (0.0 ft)	kg lb	*1890 *4170	*1890 *4170	*2820 *6220	1730 3810	*1920 *4230	1160 2560			*1440 *3170	870 1920	4.97 (16.3)
-1.0 m (-3.3 ft)	kg lb	*3690 *8140	3330 7340	*2640 *5820	1730 3810	*1810 *3990	1160 2560			*1500 *3310	1000 2200	4.47 (14.7)
-2.0 m (-6.6 ft)	kg lb	*3170 *6990	*3170 *6990	*2020 *4450	1770 3900					*1520 *3350	1400 3090	3.56 (11.7)

※ Note

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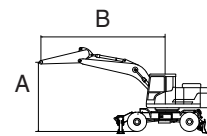
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










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

Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
HW65AH	MONO BOOM	DOUBLE TIRE	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
			3000	1900	210	-	-	Down	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Load point height		Load radius										At max. reach		
		1.0 m (3 ft)		2.0 m (7 ft)		3.0 m (10 ft)		4.0 m (13 ft)		5.0 m (16 ft)		Capacity		Reach
														m (ft)
5.0 m (16.4 ft)	kg											*1190	*1190	3.94
	lb											*2620	*2620	(12.9)
4.0 m (13.1 ft)	kg							*1060	*1060			*1050	*1050	4.78
	lb							*2340	*2340			*2310	*2310	(15.7)
3.0 m (9.8 ft)	kg							*1190	*1190	*1180	990	*1010	910	5.26
	lb							*2620	*2620	*2600	2180	*2230	2010	(17.3)
2.0 m (6.6 ft)	kg					*1910	*1910	*1460	1360	*1270	970	*1030	840	5.48
	lb					*4210	*4210	*3220	3000	*2800	2140	*2270	1850	(18.0)
1.0 m (3.3 ft)	kg					*2540	1970	*1730	1300	*1380	940	*1110	820	5.49
	lb					*5600	4340	*3810	2870	*3040	2070	*2450	1810	(18.0)
0.0 m (0.0 ft)	kg			*1830	*1830	*2800	1910	*1900	1260	1390	930	*1260	860	5.28
	lb			*4030	*4030	*6170	4210	*4190	2780	3060	2050	*2780	1900	(17.3)
-1.0 m (-3.3 ft)	kg	*2230	*2230	*3190	*3190	*2730	1890	*1870	1250			*1400	970	4.82
	lb	*4920	*4920	*7030	*7030	*6020	4170	*4120	2760			*3090	2140	(15.8)
-2.0 m (-6.6 ft)	kg	*3580	*3580	*3670	*3670	*2280	1920	*1450	1270			*1440	1270	4.01
	lb	*7890	*7890	*8090	*8090	*5030	4230	*3200	2800			*3170	2800	(13.1)
-3.0 m (-9.8 ft)	kg													
	lb													

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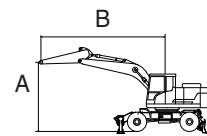
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










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

Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
HW65AH	MONO BOOM	DOUBLE TIRE	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
			3000	1900	210	-	-	Up	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Load point height		Load radius										At max. reach		
		1.0 m (3 ft)		2.0 m (7 ft)		3.0 m (10 ft)		4.0 m (13 ft)		5.0 m (16 ft)		Capacity		Reach
														m (ft)
5.0 m (16.4 ft)	kg											*1190	*1190	3.94
	lb											*2620	*2620	(12.9)
4.0 m (13.1 ft)	kg							*1060	*1060			*1050	940	4.78
	lb							*2340	*2340			*2310	2070	(15.7)
3.0 m (9.8 ft)	kg							*1190	*1190	*1180	870	*1010	800	5.26
	lb							*2620	*2620	*2600	1920	*2230	1760	(17.3)
2.0 m (6.6 ft)	kg					*1910	1820	*1460	1190	*1270	850	*1030	730	5.48
	lb					*4210	4010	*3220	2620	*2800	1870	*2270	1610	(18.0)
1.0 m (3.3 ft)	kg					*2540	1700	*1730	1140	*1380	830	*1110	720	5.49
	lb					*5600	3750	*3810	2510	*3040	1830	*2450	1590	(18.0)
0.0 m (0.0 ft)	kg			*1830	*1830	*2800	1640	*1900	1100	1390	810	*1260	750	5.28
	lb			*4030	*4030	*6170	3620	*4190	2430	3060	1790	*2780	1650	(17.3)
-1.0 m (-3.3 ft)	kg	*2230	*2230	*3190	3130	*2730	1630	*1870	1090			*1400	850	4.82
	lb	*4920	*4920	*7030	6900	*6020	3590	*4120	2400			*3090	1870	(15.8)
-2.0 m (-6.6 ft)	kg	*3580	*3580	*3670	3190	*2280	1650	*1450	1110			*1440	1110	4.01
	lb	*7890	*7890	*8090	7030	*5030	3640	*3200	2450			*3170	2450	(13.1)
-3.0 m (-9.8 ft)	kg													
	lb													

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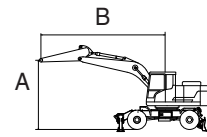
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










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

Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
HW65AH	MONO BOOM	DOUBLE TIRE	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
			3000	1900	330	-	-	Down	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Load point height		Load radius										At max. reach		
		1.0 m (3 ft)		2.0 m (7 ft)		3.0 m (10 ft)		4.0 m (13 ft)		5.0 m (16 ft)		Capacity		Reach
														m (ft)
5.0 m (16.4 ft)	kg lb											*1190 *2620	*1190 *2620	3.94 (12.9)
4.0 m (13.1 ft)	kg lb							*1060 *2340	*1060 *2340			*1050 *2310	*1050 *2310	4.78 (15.7)
3.0 m (9.8 ft)	kg lb							*1190 *2620	*1190 *2620	*1180 *2600	1040 2290	*1010 *2230	960 2120	5.26 (17.3)
2.0 m (6.6 ft)	kg lb					*1910 *4210	*1910 *4210	*1460 *3220	1420 3130	*1270 *2800	1020 2250	*1030 *2270	880 1940	5.48 (18.0)
1.0 m (3.3 ft)	kg lb					*2540 *5600	2070 4560	*1730 *3810	1370 3020	*1380 *3040	1000 2200	*1110 *2450	870 1920	5.49 (18.0)
0.0 m (0.0 ft)	kg lb			*1830 *4030	*1830 *4030	*2800 *6170	2010 4430	*1900 *4190	1330 2930	*1440 *3170	980 2160	*1260 *2780	910 2010	5.28 (17.3)
-1.0 m (-3.3 ft)	kg lb	*2230 *4920	*2230 *4920	*3190 *7030	*3190 *7030	*2730 *6020	2000 4410	*1870 *4120	1320 2910			*1400 *3090	1030 2270	4.82 (15.8)
-2.0 m (-6.6 ft)	kg lb	*3580 *7890	*3580 *7890	*3670 *8090	*3670 *8090	*2280 *5030	2020 4450	*1450 *3200	1340 2950			*1440 *3170	1340 2950	4.01 (13.1)
-3.0 m (-9.8 ft)	kg lb													

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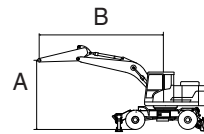
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










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Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
HW65AH	MONO BOOM	DOUBLE TIRE	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
			3000	1900	330	-	-	Up	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Load point height		Load radius										At max. reach		
		1.0 m (3 ft)		2.0 m (7 ft)		3.0 m (10 ft)		4.0 m (13 ft)		5.0 m (16 ft)		Capacity		Reach
														m (ft)
5.0 m (16.4 ft)	kg lb											*1190 *2620	*1190 *2620	3.94 (12.9)
4.0 m (13.1 ft)	kg lb							*1060 *2340	*1060 *2340			*1050 *2310	990 2180	4.78 (15.7)
3.0 m (9.8 ft)	kg lb							*1190 *2620	*1190 *2620	*1180 *2600	920 2030	*1010 *2230	840 1850	5.26 (17.3)
2.0 m (6.6 ft)	kg lb					*1910 *4210	*1910 *4210	*1460 *3220	1250 2760	*1270 *2800	900 1980	*1030 *2270	780 1720	5.48 (18.0)
1.0 m (3.3 ft)	kg lb					*2540 *5600	1800 3970	*1730 *3810	1200 2650	*1380 *3040	880 1940	*1110 *2450	760 1680	5.49 (18.0)
0.0 m (0.0 ft)	kg lb			*1830 *4030	*1830 *4030	*2800 *6170	1740 3840	*1900 *4190	1160 2560	*1440 *3170	860 1900	*1260 *2780	800 1760	5.28 (17.3)
-1.0 m (-3.3 ft)	kg lb	*2230 *4920	*2230 *4920	*3190 *7030	*3190 *7030	*2730 *6020	1720 3790	*1870 *4120	1150 2540			*1400 *3090	900 1980	4.82 (15.8)
-2.0 m (-6.6 ft)	kg lb	*3580 *7890	*3580 *7890	*3670 *8090	3360 7410	*2280 *5030	1750 3860	*1450 *3200	1180 2600			*1440 *3170	1170 2580	4.01 (13.1)
-3.0 m (-9.8 ft)	kg lb													

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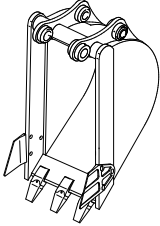
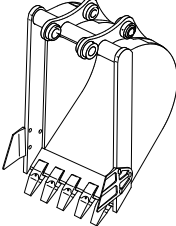
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6. BUCKET SELECTION GUIDE

	
0.07m³ SAE heaped bucket	0.18 m³ SAE heaped bucket

Capacity		Width		Weight	Recommendation
					3.0 m (9' 10") boom
SAE heaped	CECE heaped	Without side cutter	With side cutter		1.6 m (5' 3") arm
0.07 m³ (0.09 yd³)	0.06 m³ (0.08 yd³)	270 mm (10.6")	360 mm (14.2")	115 kg (255 lb)	Applicable for materials with density of 1600 kgf/m³ (2700 lb/yd³) or less
0.18 m³ (0.24 yd³)	0.15 m³ (0.20 yd³)	620 mm (24.4")	730 mm (28.7")	170 kg (375 lb)	

7. SPECIFICATIONS FOR MAJOR COMPONENTS

1) ENGINE

Item	Specification
Model	Hyundai DM02VB
Type	4-cycle, turbocharged, intercooled, electronic controlled diesel engine
Cooling method	Air cooled
Number of cylinders and arrangement	4 cylinders, in-line
Firing order	1-3-4-2
Combustion chamber type	Direct injection type
Cylinder bore × stroke	90 × 94 mm (3.5" × 3.7")
Piston displacement	2392 cc (145 cu in)
Compression ratio	16.9 : 1
Gross power	65.9 Hp (48.5 kW)
Net power	63.9 Hp (47 kW)
Max. power	65.9 Hp (48.5 kW)
Peak torque	25 kgf·m (183 lbf·ft)
Engine oil quantity	8.6 ℓ (2.3 U.S. gal)
Dry weight (wet weight)	253 kg (558 lb)
Starting motor	12 V - 2.5 kW
Alternator	13.5 V - 90 A

2) MAIN PUMP

Item	Specification
Type	AP2D28
Capacity	2 × 25 cc/rev
Maximum pressure	220 kgf/cm ² (3130 psi)
Rated oil flow	2 × 60 ℓ /min (15.9 U.S. gpm / 13.2 U.K. gpm)
Rated speed	2400 rpm

3) GEAR PUMP

Item	Specification
Type	GSP2H-16
Capacity	16.2 cc/rev
Maximum pressure	200 kgf/cm ² (2845 psi)
Rated oil flow	38.9 ℓ /min (10.2 / 8.5 U.S. gpm)

4) MAIN CONTROL VALVE

Item		Specification
Type		11 spools, two- block
Operating method		Hydraulic pilot system
Main relief valve pressure		220 kgf/cm² (3130 psi)
Port felief valve pressure	Boom	240 kgf/cm² (3420 psi)
	Arm	240 kgf/cm² (3420 psi)
	Bucket	240 kgf/cm² (3420 psi)

5) SWING MOTOR

Item	Specification
Type	Fixed displacement axial piston motor
Capacity	591.7 cc/rev
Relief pressure	230 kgf/cm ² (3280 psi)
Braking system	Automatic, spring applied hydraulic released
Swing brake	Multi wet disc
Braking torque	272.5 kgf·m (1970 lbf·ft)
Brake release pressure	20~40 kgf/cm ² (284~570 psi)
Swing bearing lubrication	Grease-bathed
Reduction gear type	2 - stage planetary

6) TRAVEL MOTOR

Item	Specification
Type	Variable displacement axial piston motor
Capacity	80 / 30.2 cc/rev
Relief pressure	235 kgf/cm ² (3350 psi)

7) POWER TRAIN

Item	Description		Specification
Transmission	Type		2 Speed Powershift transmission
	Gear ratio	1st	4.06
		2nd	1.31
	Clutch pressure		26~32 kgf/cm ² (370~455 psi)
Parking brake	Type		SAHR (Spring Applied Hydraulic Release)
	Maximum braking power		810 kgf · m (5856 lbf · ft)
Axle	Type		4 wheel drive with differential
	Gear ratio		13.65
	Brake		Wet Type Multiple disc
	Brake pressure		52 kgf/cm ² (740 psi)
	Steering pressure		148 kgf/cm ² (2210 psi)

8) CYLINDER

Item		Specification
Boom cylinder	Bore dia × Rod dia × Stroke	Ø 110 × Ø 60 × 715 mm
	Cushion	Extend only
Arm cylinder	Bore dia × Rod dia × Stroke	Ø 90 × Ø 55 × 850 mm
	Cushion	Extend and retract
Bucket cylinder	Bore dia × Rod dia × Stroke	Ø 80 × Ø 50 × 660 mm
	Cushion	-
Dozer cylinder	Bore dia × Rod dia × Stroke	Ø 110 × Ø 60 × 224 mm
	Cushion	-

※ Discoloration of cylinder rod can occur when the friction reduction additive of lubrication oil spreads on the rod surface.

※ Discoloration does not cause any harmful effect on the cylinder performance.

9) BUCKET

Item		Capacity		Tooth quantity	Width	
		SAE heaped	CECE heaped		Without side cutter	With side cutter
HW65AH	STD	0.18 m ³ (0.24 yd ³)	0.15 m ³ (0.20 yd ³)	5	620 mm (24.4")	730 mm (28.7")
	OPT	0.07 m ³ (0.09 yd ³)	0.06 m ³ (0.08 yd ³)	3	270 mm (10.6")	360 mm (14.2")

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)						
			-20 (-4)	-10 (14)	0 (32)	10 (50)	20 (68)	30 (86)	40 (104)
Engine oil pan	Engine oil	8.6 (2.3)					SAE 30		
				SAE 10W					
					SAE 10W-30				
						SAE 15W-40			
Swing drive	Gear oil	1.5 (0.4)				SAE 80W-90			
	Grease	0.2 (0.1)			NLGI NO.1				
						NLGI NO.2			
Gear box case	Gear oil	1.8 (0.5)							
Front axle		Center: 5 (1.3) Hub: 0.4×2 (0.11×2)			SAE 75W-90				
Rear axle		Center: 5 (1.3) Hub: 0.4×2 (0.11×2)				SAE 85W-90			
Hydraulic tank	Hydraulic oil	Tank; 70 (18.5) System; 120 (31.7)			ISO VG 15				
						ISO VG 46			
							ISO VG 68		
Fuel tank	Diesel fuel★ ¹	125 (33)			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 water★ ²	11 (2.9)							
						Ethylene glycol base permanent type (50 : 50)			

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

★¹ : Ultra low sulfur diesel

- sulfur content ≤ 15 ppm

★² : Soft water

City water or distilled water

※ Using any lubricating oils other than HD Hyundai Construction Equipment genuine products may lead to a deterioration of performance and cause damage to major components.

※ Do not mix HD Hyundai Construction Equipment genuine oil with any other lubricating oil as it may result in damage to the systems of major components.

※ 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.