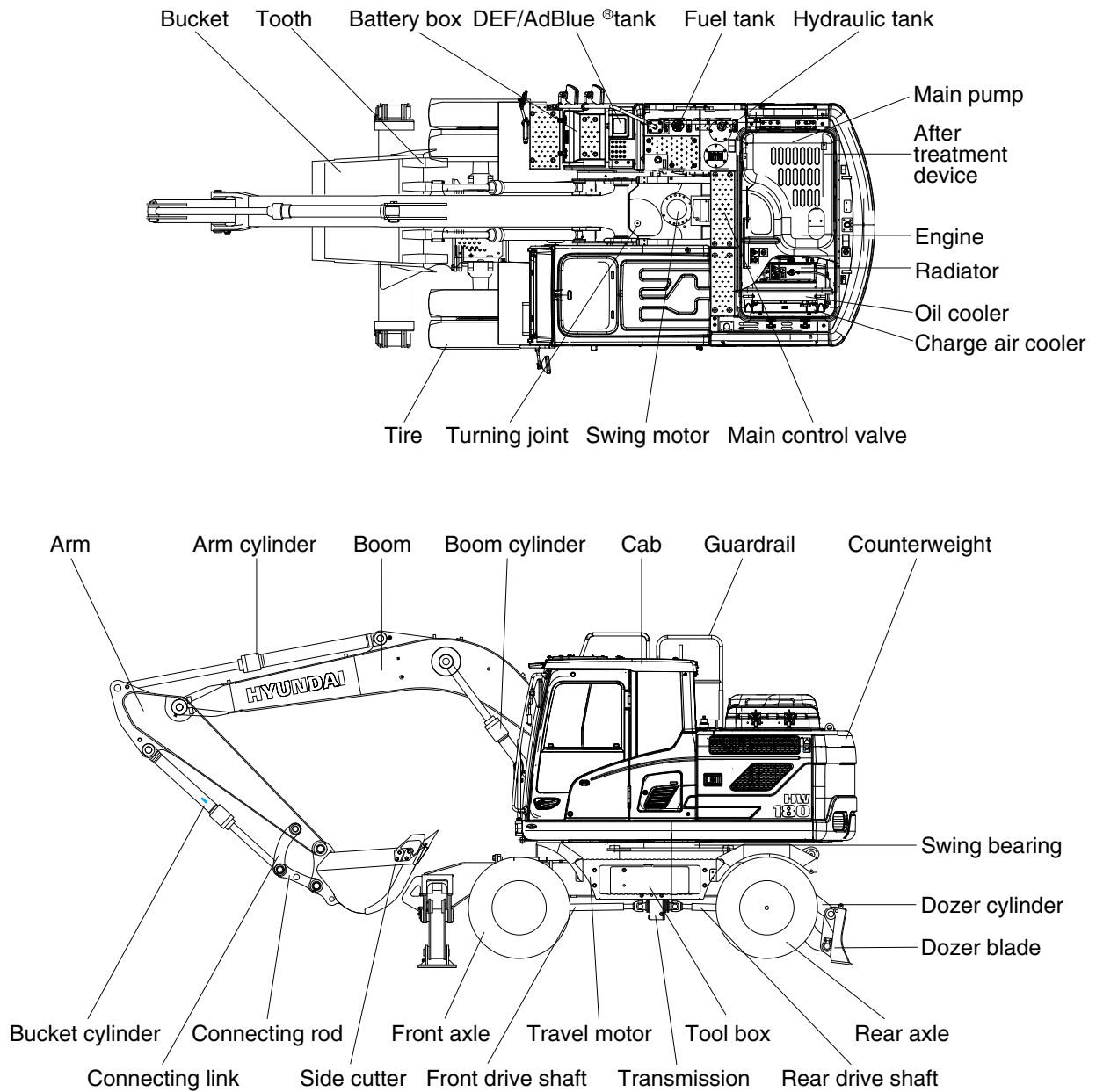


SPECIFICATIONS

1. MAJOR COMPONENTS

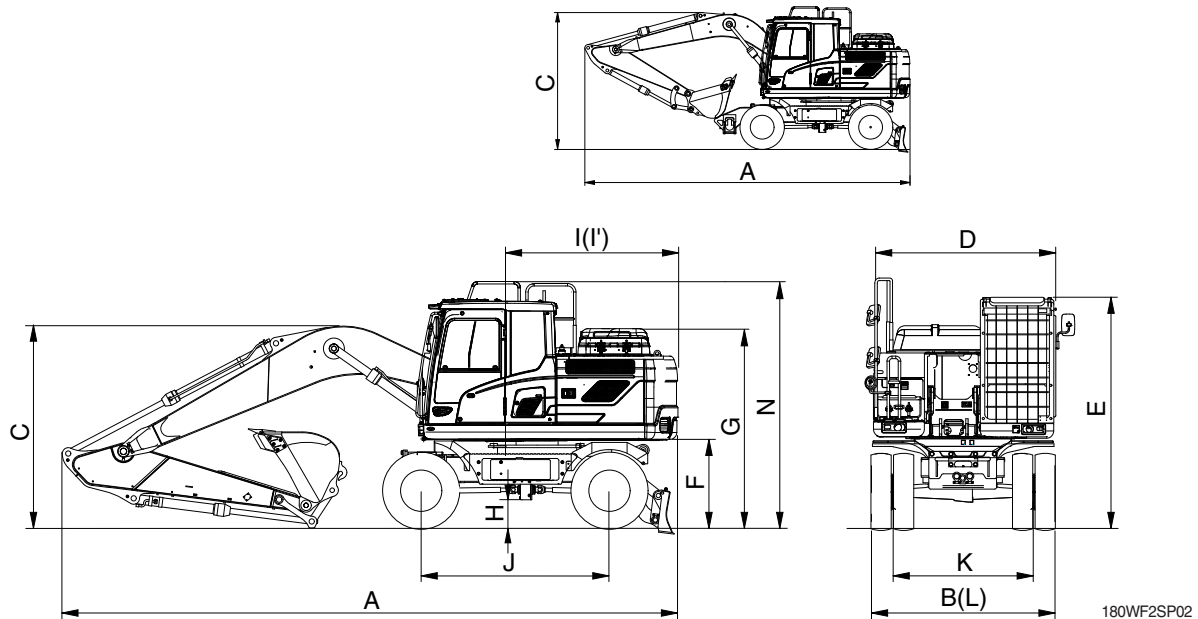


180WF2SP01

2. SPECIFICATIONS

1) 5.0 m (16' 5") MONO BOOM, 2.2 m (7' 3") ARM AND REAR DOZER BLADE

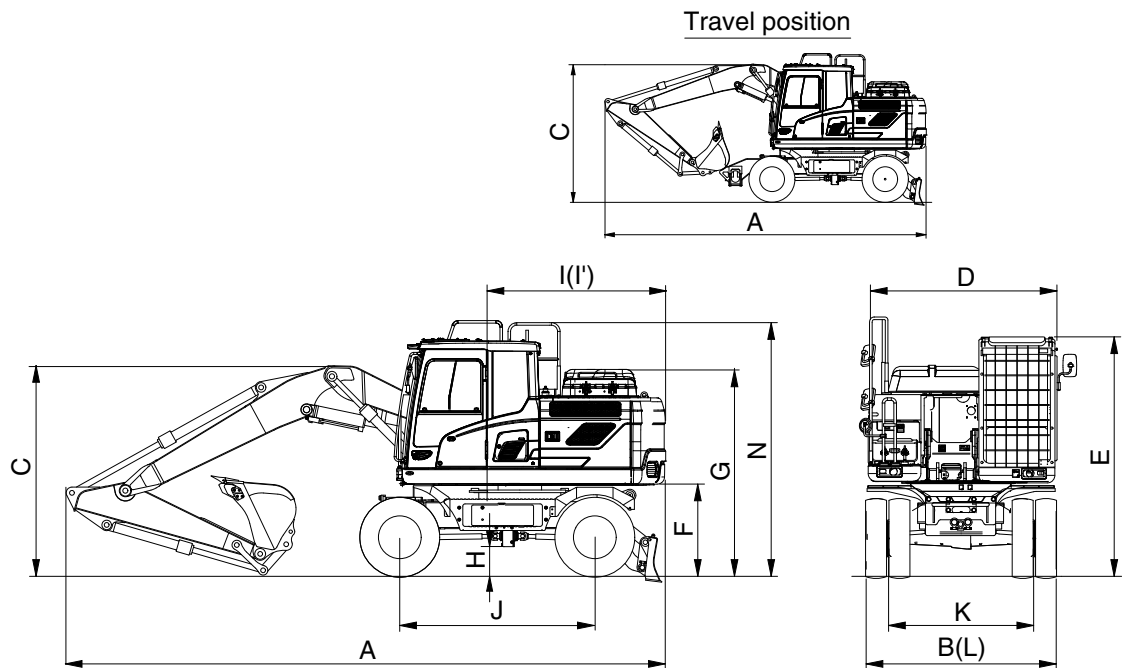
Travel position



180WF2SP02

Description		Unit	Specification
Operating weight		kg (lb)	17100 (37700)
Bucket capacity (SAE heaped), standard		m ³ (yd ³)	0.70 (0.92)
Overall length (travel / shipping)	A	mm (ft-in)	8400 (27' 7") / 8490 (27' 7")
Overall width	B		2500 (8' 2")
Overall height of boom (travel / shipping)	C		3460 (11' 4") / 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		1914 (6' 3")
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)	10720 (23630)

2) 5.1 m (16' 9") 2-PIECE BOOM, 2.2 m (7' 3") ARM AND REAR DOZER BLADE

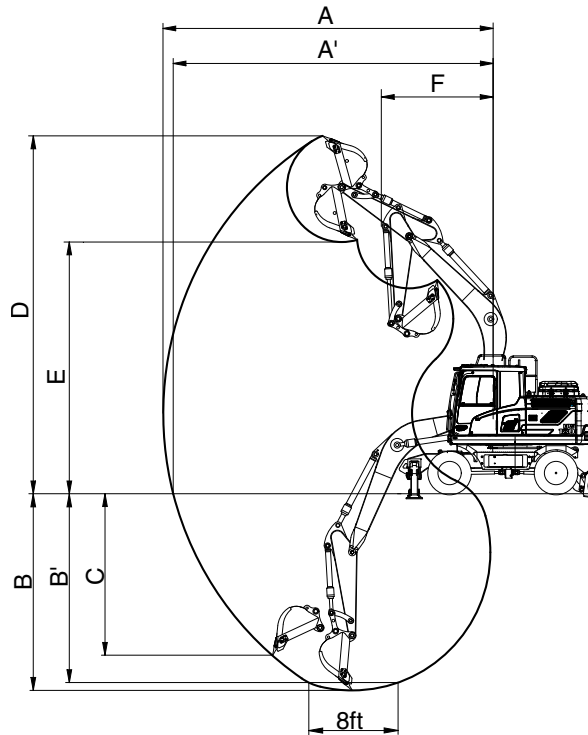


180WF2SP03

Description		Unit	Specification
Operating weight		kg (lb)	17570 (38740)
Bucket capacity (SAE heaped), standard		m ³ (yd ³)	0.70 (0.92)
Overall length (travel / shipping)	A	mm (ft-in)	6580 (21' 7") / 8520 (27' 11")
Overall width (axle / wide axle)	B		2500 (8' 2") / 2700 (8' 9")
Overall height of boom (travel / shipping)	C		3990 (13' 1") / 3010 (9' 11")
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 (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)	10720 (23630)

3. WORKING RANGE

1) 5.0 m (16' 5") MONO BOOM

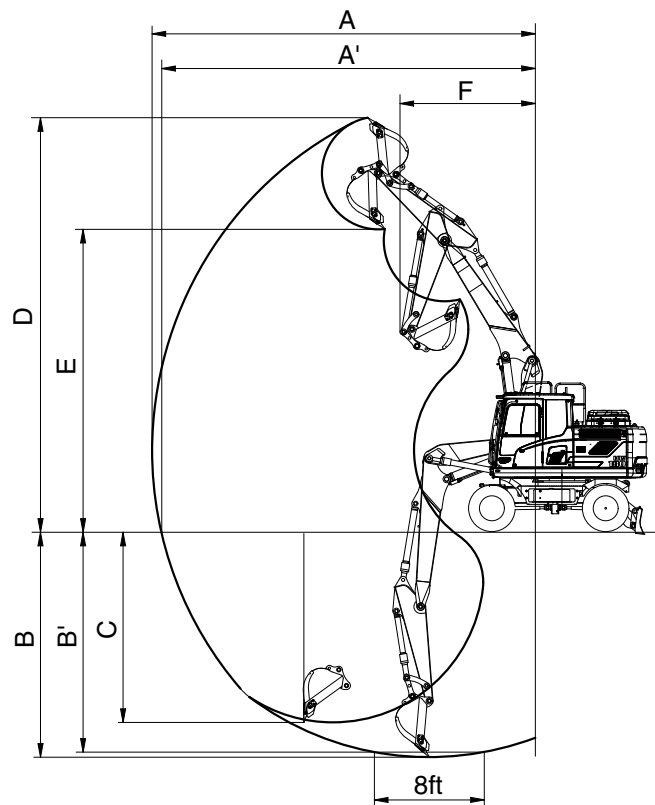


180WF2SP04

Description		2.2 m (7' 3") Arm	2.5 m (8' 2") Arm
Max digging reach	A	8570 mm (28' 1")	8860 mm (29' 1")
Max digging reach on ground	A'	8360 mm (27' 5")	8650 mm (28' 5")
Max digging depth	B	5350 mm (17' 7")	5650 mm (18' 6")
Max digging depth (8 ft level)	B'	5120 mm (16' 10")	5450 mm (17' 11")
Max vertical wall digging depth	C	4710 mm (15' 5")	5100 mm (16' 9")
Max digging height	D	8830 mm (29' 0")	9040 mm (29' 8")
Max dumping height	E	6210 mm (20' 4")	6400 mm (21' 0")
Min swing radius	F	3310 mm (10' 10")	3170 mm (10' 5")
Bucket digging force	SAE	98.1 [106.5] kN	98.1 [106.5] kN
		10000 [10860] kgf	10000 [10860] kgf
		22050 [23940] lbf	22050 [23940] lbf
	ISO	113.4 [123.1] kN	113.4 [123.1] kN
		11560 [12550] kgf	11560 [12550] kgf
		25490 [27670] lbf	25490 [27670] lbf
Arm digging force	SAE	76.0 [82.5] kN	66.4 [72.1] kN
		7750 [8410] kgf	6770 [7350] kgf
		17090 [18550] lbf	14930 [16210] lbf
	ISO	79.4 [86.2] kN	69.1 [75.1] kN
		8100 [8790] kgf	7050 [7650] kgf
		17860 [19390] lbf	15540 [16870] lbf

* : Standard [] : Power boost

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



180WF2SP05

Description		2.2 m (7' 3") Arm	2.5 m (8' 2") Arm
Max digging reach	A	8750 mm (28' 8")	9040 mm (29' 8")
Max digging reach on ground	A'	8540 mm (28' 0")	8840 mm (29' 0")
Max digging depth	B	5220 mm (17' 2")	5520 mm (18' 1")
Max digging depth (8 ft level)	B'	5100 mm (16' 9")	5410 mm (17' 9")
Max vertical wall digging depth	C	4400 mm (14' 5")	4740 mm (15' 7")
Max digging height	D	9610 mm (31' 6")	9860 mm (32' 4")
Max dumping height	E	6900 mm (22' 8")	7140 mm (23' 5")
Min swing radius	F	3380 mm (11' 1")	3130 mm (10' 3")
Bucket digging force	SAE	98.1 [106.5] kN	98.1 [106.5] kN
		10000 [10860] kgf	10000 [10860] kgf
		22050 [23940] lbf	22050 [23940] lbf
	ISO	113.4 [123.1] kN	113.4 [123.1] kN
		11560 [12550] kgf	11560 [12550] kgf
		25490 [27670] lbf	25490 [27670] lbf
Arm digging force	SAE	76.0 [82.5] kN	66.4 [72.1] kN
		7750 [8410] kgf	6770 [7350] kgf
		17090 [18550] lbf	14930 [16210] lbf
	ISO	79.4 [86.2] kN	69.1 [75.1] kN
		8100 [8790] kgf	7050 [7650] kgf
		17860 [19390] lbf	15540 [16870] lbf

[] : Power boost

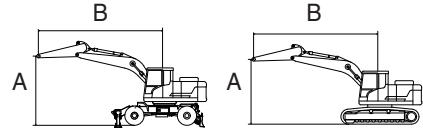
4. WEIGHT

Item	HW160	
	kg	lb
Upperstructure assembly	4445	9800
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	2650	5840
Cab assembly	500	1100
Lower frame weld assembly	1640	3620
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 (5.0 m boom, 2.2 m arm, 0.70 m ³ SAE heaped bucket)	2965	6540
5.0 m boom assembly	1040	2290
2.2 m arm assembly	490	1080
0.70 m ³ SAE heaped bucket assembly	600	1320
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	
HW160	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5000	2200	2650	-	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)		Capacity		Reach
												m (ft)
6.0 m (19.7 ft)	kg lb									*3330 *7340	*3330 *7340	5.88 (19.3)
4.5 m (14.8 ft)	kg lb					*4960 *10930	*4960 *10930	*4380 *9660	3300 7280	*3180 *7010	2730 6020	6.71 (22.0)
3.0 m (9.8 ft)	kg lb					*6080 *13400	4880 10760	4390 9680	3170 6990	*3230 *7120	2430 5360	7.12 (23.4)
1.5 m (4.9 ft)	kg lb					6610 14570	4590 10120	4250 9370	3040 6700	3240 7140	2330 5140	7.20 (23.6)
Ground Line	kg lb					6440 14200	4440 9790	4160 9170	2960 6530	3370 7430	2420 5340	6.95 (22.8)
-1.5 m (-4.9 ft)	kg lb	*5550 *12240	*5550 *12240	*10030 *22110	8540 18830	6420 14150	4420 9740	4150 9150	2950 6500	3860 8510	2760 6080	6.33 (20.8)
-3.0 m (-9.8 ft)	kg lb			*8130 *17920	*8130 *17920	*5730 *12630	4540 10010			*4590 *10120	3710 8180	5.21 (17.1)

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.

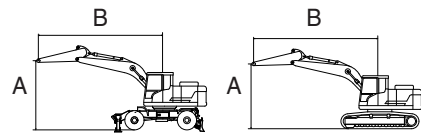
Consult your HD Hyundai Construction Equipment dealer regarding the lifting capacities for specific work tools and attachments.

▲ 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	Shoe	Wheel	Dozer		Outrigger	
HW160	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5000	2200	2650	-	500	-	Up	-	-

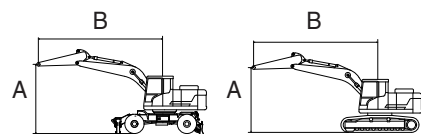
 : Rating over-front
  : Rating over-side or 360 degree



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)		Capacity		Reach
												m (ft)
6.0 m (19.7 ft)	kg lb									*3330 *7340	*3330 *7340	5.88 (19.3)
4.5 m (14.8 ft)	kg lb					*4960 *10930	*4960 *10930	*4380 *9660	3300 7280	*3180 *7010	2730 6020	6.71 (22.0)
3.0 m (9.8 ft)	kg lb					*6080 *13400	4880 10760	4390 9680	3170 6990	*3230 *7120	2430 5360	7.12 (23.4)
1.5 m (4.9 ft)	kg lb					6610 14570	4590 10120	4250 9370	3040 6700	3240 7140	2330 5140	7.20 (23.6)
Ground Line	kg lb					6440 14200	4440 9790	4160 9170	2960 6530	3370 7430	2420 5340	6.95 (22.8)
-1.5 m (-4.9 ft)	kg lb	*5550 *12240	*5550 *12240	*10030 *22110	8540 18830	6420 14150	4420 9740	4150 9150	2950 6500	3860 8510	2760 6080	6.33 (20.8)
-3.0 m (-9.8 ft)	kg lb			*8130 *17920	*8130 *17920	*5730 *12630	4540 10010			*4590 *10120	3710 8180	5.21 (17.1)

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW160	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5000	2200	3150	-	500	-	Down	-	-

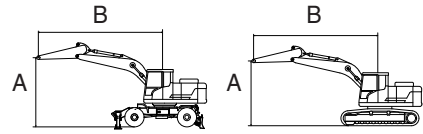
 : Rating over-front
  : Rating over-side or 360 degree



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)		Capacity		Reach
												m (ft)
6.0 m (19.7 ft)	kg lb									*3330 *7340	*3330 *7340	5.88 (19.3)
4.5 m (14.8 ft)	kg lb					*4960 *10930	*4960 *10930	*4380 *9660	3580 7890	*3180 *7010	2980 6570	6.71 (22.0)
3.0 m (9.8 ft)	kg lb					*6080 *13400	5300 11680	4730 10430	3460 7630	*3230 *7120	2660 5860	7.12 (23.4)
1.5 m (4.9 ft)	kg lb					*7070 *15590	5000 11020	4580 10100	3320 7320	*3450 *7610	2560 5640	7.20 (23.6)
Ground Line	kg lb					6950 15320	4850 10690	4490 9900	3240 7140	3650 8050	2660 5860	6.95 (22.8)
-1.5 m (-4.9 ft)	kg lb	*5550 *12240	*5550 *12240	*10030 *22110	9310 20530	6940 15300	4840 10670	4490 9900	3240 7140	4180 9220	3030 6680	6.33 (20.8)
-3.0 m (-9.8 ft)	kg lb			*8130 *17920	*8130 *17920	*5730 *12630	4950 10910			*4590 *10120	4050 8930	5.21 (17.1)

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW160	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5000	2200	3150	-	500	-	Up	-	-

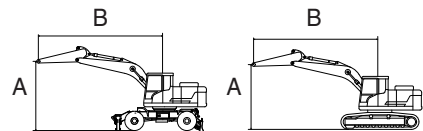
 : Rating over-front
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Lift-point height (A)		Lift-point radius (B)								At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity		Reach
												m (ft)
6.0 m (19.7 ft)	kg lb									*3330 *7340	*3330 *7340	5.88 (19.3)
4.5 m (14.8 ft)	kg lb					*4960 *10930	*4960 *10930	*4380 *9660	3580 7890	*3180 *7010	2980 6570	6.71 (22.0)
3.0 m (9.8 ft)	kg lb					*6080 *13400	5300 11680	4730 10430	3460 7630	*3230 *7120	2660 5860	7.12 (23.4)
1.5 m (4.9 ft)	kg lb					*7070 *15590	5000 11020	4580 10100	3320 7320	*3450 *7610	2560 5640	7.20 (23.6)
Ground Line	kg lb					6950 15320	4850 10690	4490 9900	3240 7140	3650 8050	2660 5860	6.95 (22.8)
-1.5 m (-4.9 ft)	kg lb	*5550 *12240	*5550 *12240	*10030 *22110	9310 20530	6940 15300	4840 10670	4490 9900	3240 7140	4180 9220	3030 6680	6.33 (20.8)
-3.0 m (-9.8 ft)	kg lb			*8130 *17920	*8130 *17920	*5730 *12630	4950 10910			*4590 *10120	4050 8930	5.21 (17.1)

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW160	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5000	2500	2650	-	500	-	Down	-	-

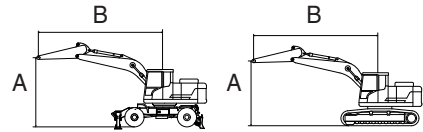
 : Rating over-front
  : Rating over-side or 360 degree



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)
6.0 m (19.7 ft)	kg lb							*3420 *7540	*3420 *7540			*2530 *5580	*2530 *5580	6.24 (20.5)
4.5 m (14.8 ft)	kg lb					*4770 *10520	*4770 *10520	*4280 *9440	3440 7580			*2430 *5360	*2430 *5360	7.02 (23.0)
3.0 m (9.8 ft)	kg lb					*5840 *12870	4980 10980	4500 9920	3270 7210			*2460 *5420	2370 5220	7.42 (24.3)
1.5 m (4.9 ft)	kg lb					6600 14550	4580 10100	4310 9500	3100 6830			*2600 *5730	2280 5030	7.49 (24.6)
Ground Line	kg lb			*5760 *12700	*5760 *12700	6360 14020	4360 9610	4180 9220	2980 6570			*2890 *6370	2340 5160	7.25 (23.8)
-1.5 m (-4.9 ft)	kg lb	*5600 *12350	*5600 *12350	*9590 *21140	8150 17970	6320 13930	4330 9550	4170 9190	2960 6530			*3480 *7670	2620 5780	6.66 (21.9)
-3.0 m (-9.8 ft)	kg lb	*9610 *21190	*9610 *21190	*8550 *18850	8420 18560	*6080 *13400	4460 9830					*4510 *9940	3360 7410	5.61 (18.4)

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW160	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5000	2500	2650	-	500	-	Up	-	-

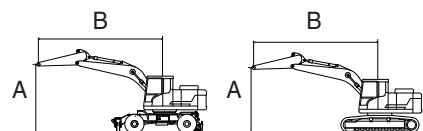
 : Rating over-front
  : Rating over-side or 360 degree



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)
6.0 m	kg							*3420	*3420			*2530	*2530	6.24
(19.7 ft)	lb							*7540	*7540			*5580	*5580	(20.5)
4.5 m	kg					*4770	*4770	*4280	3440			*2430	*2430	7.02
(14.8 ft)	lb					*10520	*10520	*9440	7580			*5360	*5360	(23.0)
3.0 m	kg					*5840	4980	4500	3270			*2460	2370	7.42
(9.8 ft)	lb					*12870	10980	9920	7210			*5420	5220	(24.3)
1.5 m	kg					6600	4580	4310	3100			*2600	2280	7.49
(4.9 ft)	lb					14550	10100	9500	6830			*5730	5030	(24.6)
Ground Line	kg			*5760	*5760	6360	4360	4180	2980			*2890	2340	7.25
	lb			*12700	*12700	14020	9610	9220	6570			*6370	5160	(23.8)
-1.5 m	kg	*5600	*5600	*9590	8150	6320	4330	4170	2960			*3480	2620	6.66
(-4.9 ft)	lb	*12350	*12350	*21140	17970	13930	9550	9190	6530			*7670	5780	(21.9)
-3.0 m	kg	*9610	*9610	*8550	8420	*6080	4460					*4510	3360	5.61
(-9.8 ft)	lb	*21190	*21190	*18850	18560	*13400	9830					*9940	7410	(18.4)

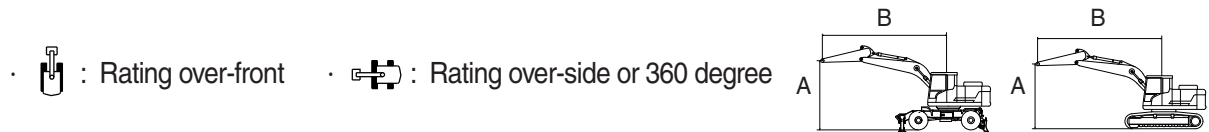
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW160	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5000	2500	3150	-	500	-	Down	-	-

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



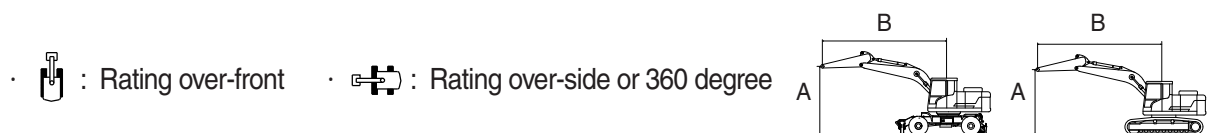
Lift-point height (A)		Lift-point radius (B)										At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
														m (ft)
6.0 m	kg							*3420	*3420			*2530	*2530	6.24
(19.7 ft)	lb							*7540	*7540			*5580	*5580	(20.5)
4.5 m	kg					*4770	*4770	*4280	3730			*2430	*2430	7.02
(14.8 ft)	lb					*10520	*10520	*9440	8220			*5360	*5360	(23.0)
3.0 m	kg					*5840	5400	*4710	3560			*2460	*2460	7.42
(9.8 ft)	lb					*12870	11900	*10380	7850			*5420	*5420	(24.3)
1.5 m	kg					*6850	4990	4650	3380			*2600	2500	7.49
(4.9 ft)	lb					*15100	11000	10250	7450			*5730	5510	(24.6)
Ground Line	kg			*5760	*5760	6870	4780	4520	3260			*2890	2570	7.25
	lb			*12700	*12700	15150	10540	9960	7190			*6370	5670	(23.8)
-1.5 m	kg	*5600	*5600	*9590	8920	6830	4740	4500	3250			*3480	2870	6.66
(-4.9 ft)	lb	*12350	*12350	*21140	19670	15060	10450	9920	7170			*7670	6330	(21.9)
-3.0 m	kg	*9610	*9610	*8550	*8550	*6080	4870					*4510	3670	5.61
(-9.8 ft)	lb	*21190	*21190	*18850	*18850	*13400	10740					*9940	8090	(18.4)

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW160	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5000	2500	3150	-	500	-	Up	-	-



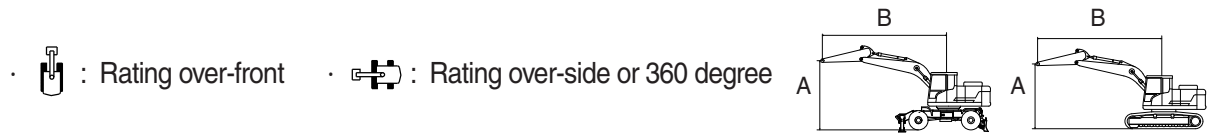
Lift-point height (A)		Lift-point radius (B)										At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
														m (ft)
6.0 m (19.7 ft)	kg lb							*3420 *7540	*3420 *7540			*2530 *5580	*2530 *5580	6.24 (20.5)
4.5 m (14.8 ft)	kg lb					*4770 *10520	*4770 *10520	*4280 *9440	3730 8220			*2430 *5360	*2430 *5360	7.02 (23.0)
3.0 m (9.8 ft)	kg lb					*5840 *12870	5400 11900	*4710 *10380	3560 7850			*2460 *5420	*2460 *5420	7.42 (24.3)
1.5 m (4.9 ft)	kg lb					*6850 *15100	4990 11000	4650 10250	3380 7450			*2600 *5730	2500 5510	7.49 (24.6)
Ground Line	kg lb			*5760 *12700	*5760 *12700	6870 15150	4780 10540	4520 9960	3260 7190			*2890 *6370	2570 5670	7.25 (23.8)
-1.5 m (-4.9 ft)	kg lb	*5600 *12350	*5600 *12350	*9590 *21140	8920 19670	6830 15060	4740 10450	4500 9920	3250 7170			*3480 *7670	2870 6330	6.66 (21.9)
-3.0 m (-9.8 ft)	kg lb	*9610 *21190	*9610 *21190	*8550 *18850	*8550 *18850	*6080 *13400	4870 10740					*4510 *9940	3670 8090	5.61 (18.4)

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW160	2-PIECE BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5100	2200	2650	-	500	-	Down	-	-



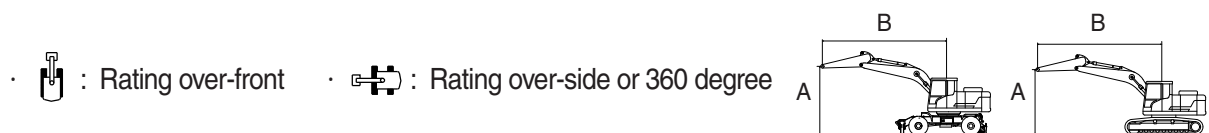
Lift-point height (A)		Lift-point radius (B)								At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
												m (ft)
7.5 m (24.6 ft)	kg lb			*5170 *11400	*5170 *11400					*4710 *10380	*4710 *10380	4.71 (15.4)
6.0 m (19.7 ft)	kg lb			*4870 *10740	*4870 *10740	4590 10120	3330 7340			*3980 *8770	3210 7080	6.11 (20.0)
4.5 m (14.8 ft)	kg lb			*5640 *12430	5220 11510	4550 10030	3290 7250			3570 7870	2580 5690	6.90 (22.6)
3.0 m (9.8 ft)	kg lb			6950 15320	4850 10690	4390 9680	3150 6940			3210 7080	2300 5070	7.31 (24.0)
1.5 m (4.9 ft)	kg lb			6580 14510	4520 9960	4240 9350	3000 6610			3110 6860	2210 4870	7.38 (24.2)
Ground Line	kg lb			6410 14130	4370 9630	4140 9130	2910 6420			3240 7140	2300 5070	7.14 (23.4)
-1.5 m (-4.9 ft)	kg lb	*9770 *21540	8460 18650	6400 14110	4360 9610	4140 9130	2910 6420			3690 8140	2620 5780	6.54 (21.4)

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW160	2-PIECE BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5100	2200	2650	-	500	-	Up	-	-



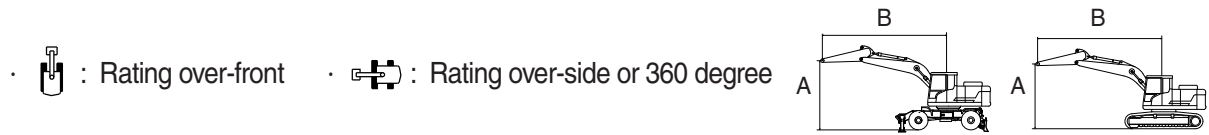
Lift-point height (A)		Lift-point radius (B)								At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
												m (ft)
7.5 m (24.6 ft)	kg lb			*5170 *11400	*5170 *11400					*4710 *10380	*4710 *10380	4.71 (15.4)
6.0 m (19.7 ft)	kg lb			*4870 *10740	*4870 *10740	4590 10120	3330 7340			*3980 *8770	3210 7080	6.11 (20.0)
4.5 m (14.8 ft)	kg lb			*5640 *12430	5220 11510	4550 10030	3290 7250			3570 7870	2580 5690	6.90 (22.6)
3.0 m (9.8 ft)	kg lb			6950 15320	4850 10690	4390 9680	3150 6940			3210 7080	2300 5070	7.31 (24.0)
1.5 m (4.9 ft)	kg lb			6580 14510	4520 9960	4240 9350	3000 6610			3110 6860	2210 4870	7.38 (24.2)
Ground Line	kg lb			6410 14130	4370 9630	4140 9130	2910 6420			3240 7140	2300 5070	7.14 (23.4)
-1.5 m (-4.9 ft)	kg lb	*9770 *21540	8460 18650	6400 14110	4360 9610	4140 9130	2910 6420			3690 8140	2620 5780	6.54 (21.4)

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW160	2-PIECE BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5100	2200	3150	-	500	-	Down	-	-



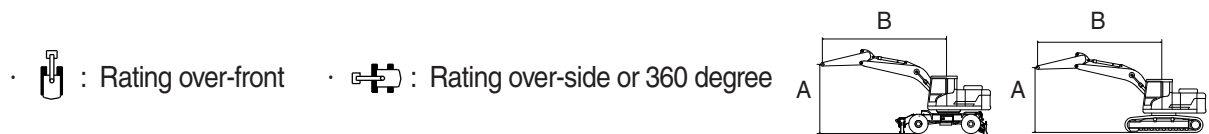
Lift-point height (A)		Lift-point radius (B)								At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
												m (ft)
7.5 m (24.6 ft)	kg lb			*5170 *11400	*5170 *11400					*4710 *10380	*4710 *10380	4.71 (15.4)
6.0 m (19.7 ft)	kg lb			*4870 *10740	*4870 *10740	*4690 *10340	3610 7960			*3980 *8770	3490 7690	6.11 (20.0)
4.5 m (14.8 ft)	kg lb			*5640 *12430	5640 12430	4880 10760	3570 7870			*3730 *8220	2820 6220	6.90 (22.6)
3.0 m (9.8 ft)	kg lb			*6950 *15320	5260 11600	4730 10430	3430 7560			3470 7650	2520 5560	7.31 (24.0)
1.5 m (4.9 ft)	kg lb			7090 15630	4940 10890	4570 10080	3280 7230			3360 7410	2440 5380	7.38 (24.2)
Ground Line	kg lb			6920 15260	4780 10540	4480 9880	3200 7050			3500 7720	2530 5580	7.14 (23.4)
-1.5 m (-4.9 ft)	kg lb	*9770 *21540	9230 20350	6920 15260	4780 10540	4480 9880	3190 7030			3990 8800	2870 6330	6.54 (21.4)

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW160	2-PIECE BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5100	2200	3150	-	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			*5170 *11400	*5170 *11400					*4710 *10380	*4710 *10380	4.71 (15.4)
6.0 m (19.7 ft)	kg lb			*4870 *10740	*4870 *10740	*4690 *10340	3610 7960			*3980 *8770	3490 7690	6.11 (20.0)
4.5 m (14.8 ft)	kg lb			*5640 *12430	5640 12430	4880 10760	3570 7870			*3730 *8220	2820 6220	6.90 (22.6)
3.0 m (9.8 ft)	kg lb			*6950 *15320	5260 11600	4730 10430	3430 7560			3470 7650	2520 5560	7.31 (24.0)
1.5 m (4.9 ft)	kg lb			7090 15630	4940 10890	4570 10080	3280 7230			3360 7410	2440 5380	7.38 (24.2)
Ground Line	kg lb			6920 15260	4780 10540	4480 9880	3200 7050			3500 7720	2530 5580	7.14 (23.4)
-1.5 m (-4.9 ft)	kg lb	*9770 *21540	9230 20350	6920 15260	4780 10540	4480 9880	3190 7030			3990 8800	2870 6330	6.54 (21.4)

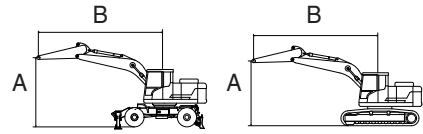
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW160	2-PIECE BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5100	2500	2650	-	500	-	Down	-	-



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			*4790 *10560	*4790 *10560					*3430 *7560	*3430 *7560	5.17 (17.0)
6.0 m (19.7 ft)	kg lb			*4680 *10320	*4680 *10320	*4650 *10250	3510 7740			*2980 *6570	*2980 *6570	6.47 (21.2)
4.5 m (14.8 ft)	kg lb			*5420 *11950	*5420 *11950	4710 10380	3430 7560			*2810 *6190	2500 5510	7.22 (23.7)
3.0 m (9.8 ft)	kg lb			*6670 *14700	4940 10890	4510 9940	3250 7170	3190 7030	2310 5090	*2800 *6170	2250 4960	7.61 (25.0)
1.5 m (4.9 ft)	kg lb			6570 14480	4510 9940	4300 9480	3050 6720	3120 6880	2240 4940	*2900 *6390	2170 4780	7.68 (25.2)
Ground Line	kg lb			6320 13930	4280 9440	4160 9170	2930 6460			3120 6880	2230 4920	7.44 (24.4)
-1.5 m (-4.9 ft)	kg lb	*9520 *20990	8050 17750	6290 13870	4260 9390	4140 9130	2910 6420			3490 7690	2490 5490	6.87 (22.5)

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW160	2-PIECE BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5100	2500	2650	-	500	-	Up	-	-

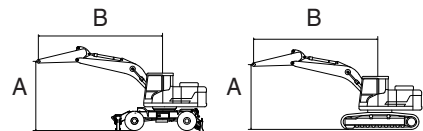
 : Rating over-front
  : Rating over-side or 360 degree



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 (24.6 ft)	kg			*4790	*4790					*3430	*3430
	lb			*10560	*10560					*7560	*7560
6.0 m (19.7 ft)	kg			*4680	*4680	*4650	3510			*2980	*2980
	lb			*10320	*10320	*10250	7740			*6570	*6570
4.5 m (14.8 ft)	kg			*5420	*5420	4710	3430			*2810	2500
	lb			*11950	*11950	10380	7560			*6190	5510
3.0 m (9.8 ft)	kg			*6670	4940	4510	3250	3190	2310	*2800	2250
	lb			*14700	10890	9940	7170	7030	5090	*6170	4960
1.5 m (4.9 ft)	kg			6570	4510	4300	3050	3120	2240	*2900	2170
	lb			14480	9940	9480	6720	6880	4940	*6390	4780
Ground Line	kg			6320	4280	4160	2930			3120	2230
	lb			13930	9440	9170	6460			6880	4920
-1.5 m (-4.9 ft)	kg	*9520	8050	6290	4260	4140	2910			3490	2490
	lb	*20990	17750	13870	9390	9130	6420			7690	5490

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW160	2-PIECE BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5100	2500	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)		7.5 m (24.6 ft)		Capacity	
											
7.5 m (24.6 ft)	kg			*4790	*4790					*3430	*3430
	lb			*10560	*10560					*7560	*7560
6.0 m (19.7 ft)	kg			*4680	*4680	*4650	3800			*2980	*2980
	lb			*10320	*10320	*10250	8380			*6570	*6570
4.5 m (14.8 ft)	kg			*5420	*5420	*4830	3720			*2810	2730
	lb			*11950	*11950	*10650	8200			*6190	6020
3.0 m (9.8 ft)	kg			*6670	5360	4840	3530	3440	2520	*2800	2460
	lb			*14700	11820	10670	7780	7580	5560	*6170	5420
1.5 m (4.9 ft)	kg			7080	4920	4630	3340	3370	2460	*2900	2380
	lb			15610	10850	10210	7360	7430	5420	*6390	5250
Ground Line	kg			6830	4700	4500	3210			*3150	2450
	lb			15060	10360	9920	7080			*6940	5400
-1.5 m (-4.9 ft)	kg	*9520	8820	6800	4670	4480	3190			*3650	2730
	lb	*20990	19440	14990	10300	9880	7030			*8050	6020

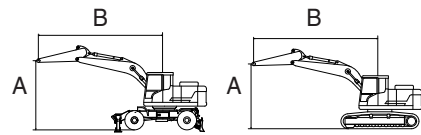
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW160	2-PIECE BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5100	2500	3150	-	500	-	Up	-	-



: Rating over-front



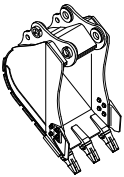
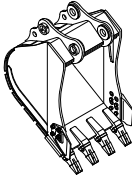
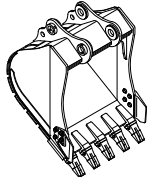
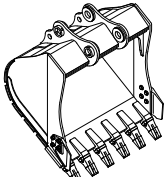
: Rating over-side or 360 degree



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		Reach
												m (ft)
7.5 m	kg			*4790	*4790					*3430	*3430	5.17
(24.6 ft)	lb			*10560	*10560					*7560	*7560	(17.0)
6.0 m	kg			*4680	*4680	*4650	3800			*2980	*2980	6.47
(19.7 ft)	lb			*10320	*10320	*10250	8380			*6570	*6570	(21.2)
4.5 m	kg			*5420	*5420	*4830	3720			*2810	2730	7.22
(14.8 ft)	lb			*11950	*11950	*10650	8200			*6190	6020	(23.7)
3.0 m	kg			*6670	5360	4840	3530	3440	2520	*2800	2460	7.61
(9.8 ft)	lb			*14700	11820	10670	7780	7580	5560	*6170	5420	(25.0)
1.5 m	kg			7080	4920	4630	3340	3370	2460	*2900	2380	7.68
(4.9 ft)	lb			15610	10850	10210	7360	7430	5420	*6390	5250	(25.2)
Ground Line	kg			6830	4700	4500	3210			*3150	2450	7.44
	lb			15060	10360	9920	7080			*6940	5400	(24.4)
-1.5 m	kg	*9520	8820	6800	4670	4480	3190			*3650	2730	6.87
(-4.9 ft)	lb	*20990	19440	14990	10300	9880	7030			*8050	6020	(22.5)

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			
					5.0 m (16' 5") 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")	2.5 m arm (8' 2")	2.2 m arm (7' 3")	2.5 m arm (8' 2")
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

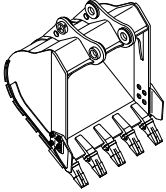
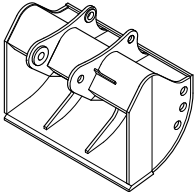
※ These recommendations are for general conditions and average use.

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 BUKET

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			
					5.0 m (16' 5") Mono boom		5.1 m (16' 9") 2-piece boom	
SAE heaped	CECE heaped	Without side cutter	With side cutter		2.2m arm (7' 3")	2.5m arm (8' 2")	2.2m arm (7' 3")	2.5m arm (8' 2")
◎ 0.69 m³ (0.90 yd³)	0.62 m³ (0.81 yd³)	1050 mm (41.3")	-	720 kg (1590 lb)	●	●	●	●
◎ 0.72 m³ (0.94 yd³)	0.65 m³ (0.85 yd³)	940 mm (37.0")	985 mm (38.8")	640 kg (1410 lb)	●	●	●	●
◎ 0.87 m³ (1.18 yd³)	0.78 m³ (1.02 yd³)	1090 mm (42.9")	1140 mm (44.9")	680 kg (1500 lb)	○	○	○	○
★ 0.75 m³ (0.98 yd³)	0.65 m³ (0.85 yd³)	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 110 × Ø 75 × 1090mm
	Cushion	Extend only
Arm cylinder	Bore dia × Rod dia × Stroke	Ø 115 × Ø 80 × 1235mm
	Cushion	Extend and retract
Bucket cylinder	Bore dia × Rod dia × Stroke	Ø 105 × Ø 75 × 995mm
	Cushion	Extend only
Dozer cylinder	Bore dia × Rod dia × Stroke	Ø 110 × Ø 65 × 235mm
	Cushion	-
Outrigger cylinder	Bore dia × Rod dia × Stroke	Ø 125 × Ø 75 × 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 110 × Ø 75 × 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
HW160	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")
	0.39 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")
	0.76 m ³ (0.99 yd ³)	0.65 m ³ (0.85 yd ³)	5	1090 mm (42.9")	1180 mm (46.5")
	0.89 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")	-
	◎ 0.72 m ³ (0.94 yd ³)	0.65 m ³ (0.85 yd ³)	5	940 mm (37.0")	985 mm (38.8")
	◎ 0.87 m ³ (1.18 yd ³)	0.78 m ³ (1.02 yd ³)	5	1090 mm (42.9")	1140 mm (44.9")
	★ 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			SAE 10W								
			SAE 10W-30								
		2.5 (0.7)	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	TYPE 1 : 5.0 (1.32)	★SAE 75W-90								
		TYPE 2 : 6.2 (1.64)	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:	★ISO VG 15								
		125 (33.0)	ISO VG 32								
		System:	ISO VG 46, HBHO VG 46★ ³								
		270 (71.3)	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 Material

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.