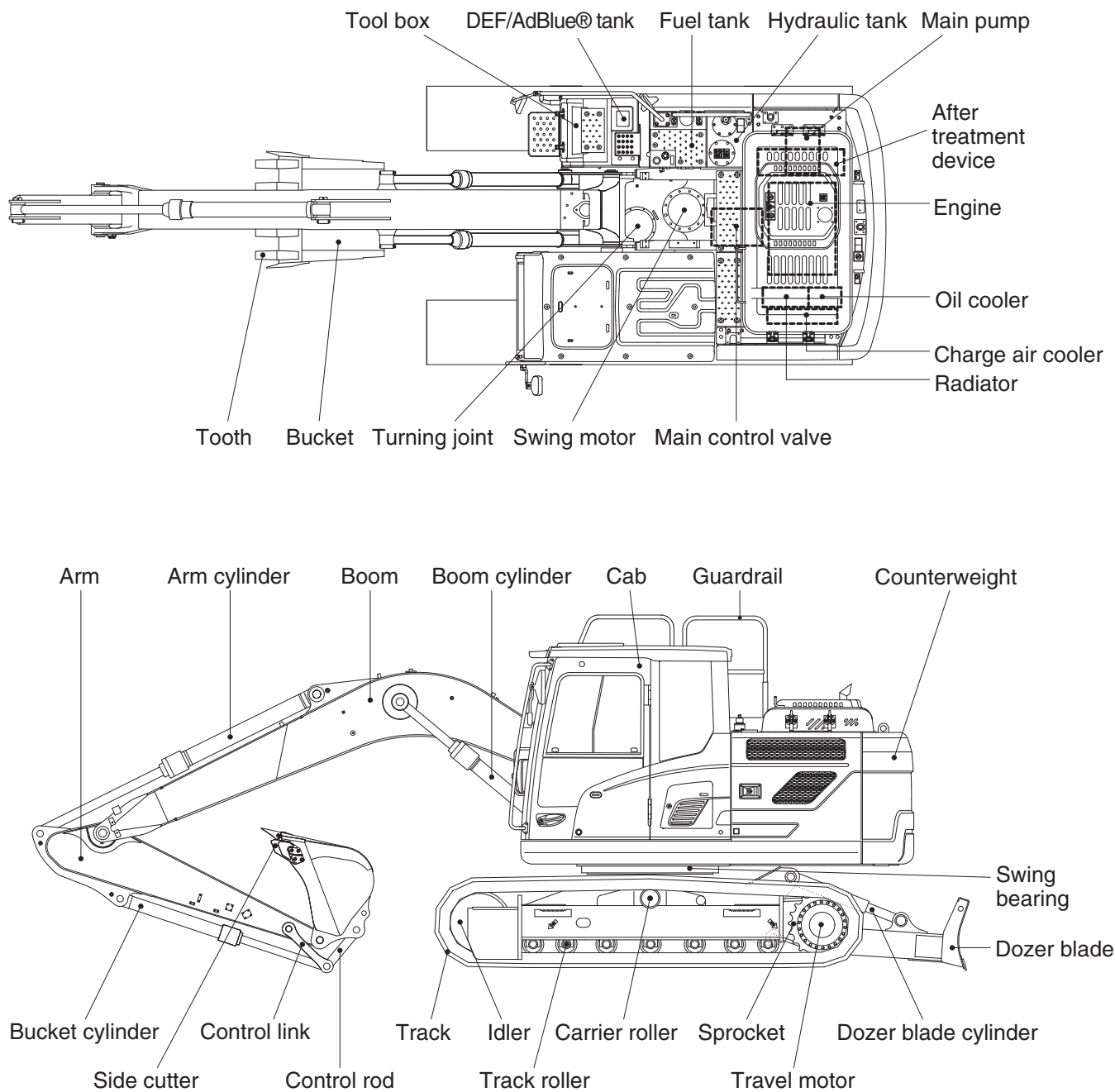


SPECIFICATIONS

1. MAJOR COMPONENT

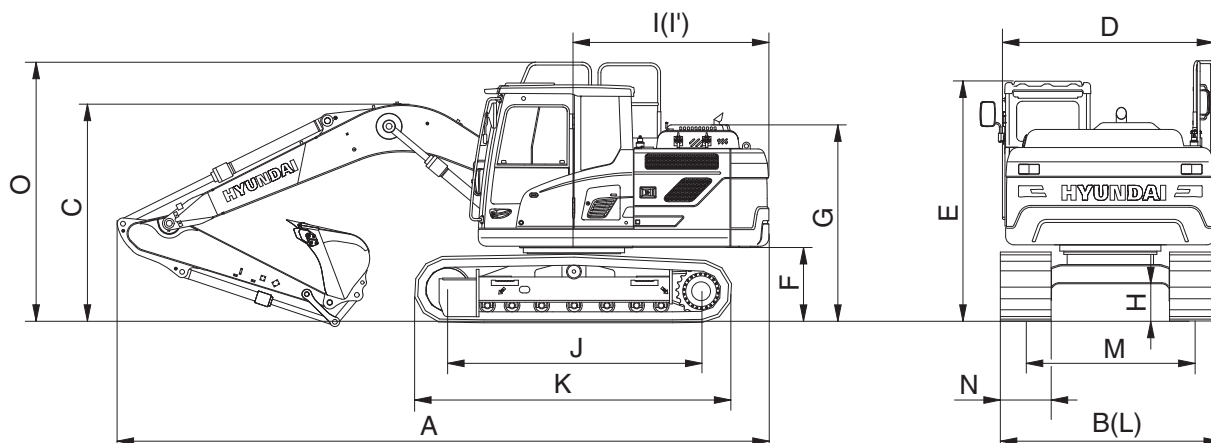


140F2SP01

2. SPECIFICATIONS

1) HX140 L

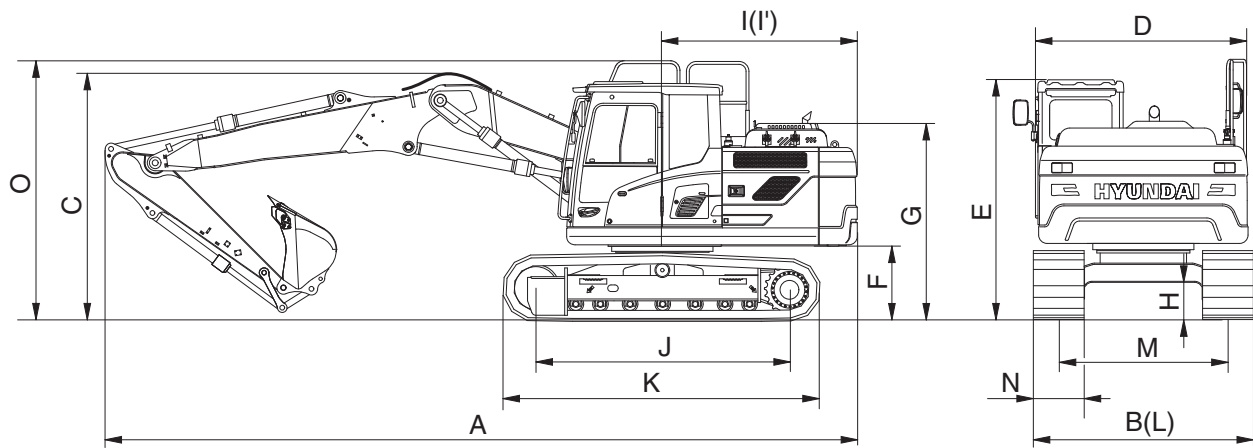
· 4.60 m (15' 1") BOOM and 2.50 m (8' 2") ARM



140F2SP02

Description		Unit	Specification
Operating weight		kg (lb)	14200 (31310)
Bucket capacity (SAE heaped), standard		m ³ (yd ³)	0.58 (0.76)
Overall length	A	mm (ft-in)	7820 (25' 8")
Overall width, with 600 mm shoe	B		2600 (8' 6")
Overall height of boom	C		2780 (9' 1")
Superstructure width	D		2475 (8' 1")
Overall height of cab	E		2860 (9' 4")
Ground clearance of counterweight	F		940 (3' 1")
Engine cover height	G		2390 (7' 10")
Minimum ground clearance	H		440 (1' 5")
Rear-end distance	I		2330 (7' 8")
Rear-end swing radius	I'		2330 (7' 8")
Distance between tumblers	J		3000 (9' 10")
Undercarriage length	K		3708 (12' 1")
Undercarriage width	L		2600 (8' 6")
Track gauge	M		2000 (6' 7")
Track shoe width, standard	N		600 (24")
Overall height of guardrail	O		3100 (10' 2")
Travel speed (low/high)		km/hr (mph)	3.3/5.6 (2.1/3.5)
Swing speed		rpm	11.6
Gradeability		Degree (%)	35 (70)
Ground pressure (600 mm shoe)		kgf/cm ² (psi)	0.37 (5.26)
Max traction force		kgf (lbf)	12000 (26460)

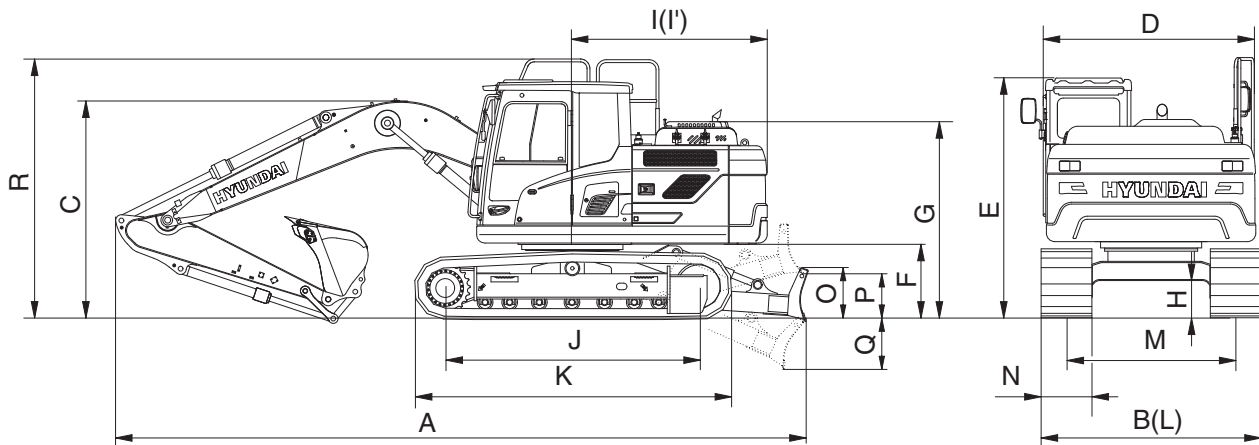
2) HX140 L, 4.90 m (16' 1") HYDRAULIC ADJUSTABLE BOOM and 2.10 m (6' 11") ARM



140F2SP03

Description		Unit	Specification
Operating weight		kg (lb)	14550 (32080)
Bucket capacity (SAE heaped), standard		m ³ (yd ³)	0.58 (0.76)
Overall length	A	mm (ft-in)	7820 (25' 8")
Overall width, with 600 mm shoe	B		2600 (8' 6")
Overall height of boom	C		2940 (9' 8")
Superstructure width	D		2475 (8' 1")
Overall height of cab	E		2860 (9' 4")
Ground clearance of counterweight	F		940 (3' 1")
Engine cover height	G		2390 (7' 10")
Minimum ground clearance	H		440 (1' 5")
Rear-end distance	I		2330 (7' 8")
Rear-end swing radius	I'		2330 (7' 8")
Distance between tumblers	J		3000 (9' 10")
Undercarriage length	K		3708 (12' 1")
Undercarriage width	L		2600 (8' 6")
Track gauge	M		2000 (6' 7")
Track shoe width, standard	N		600 (24")
Overall height of guardrail	O		3100 (10' 2")
Travel speed (low/high)		km/hr (mph)	3.3/5.6 (2.1/3.5)
Swing speed		rpm	11.6
Gradeability		Degree (%)	35 (70)
Ground pressure (600 mm shoe)		kgf/cm ² (psi)	0.37 (5.26)
Max traction force		kgf (lbf)	12000 (26460)

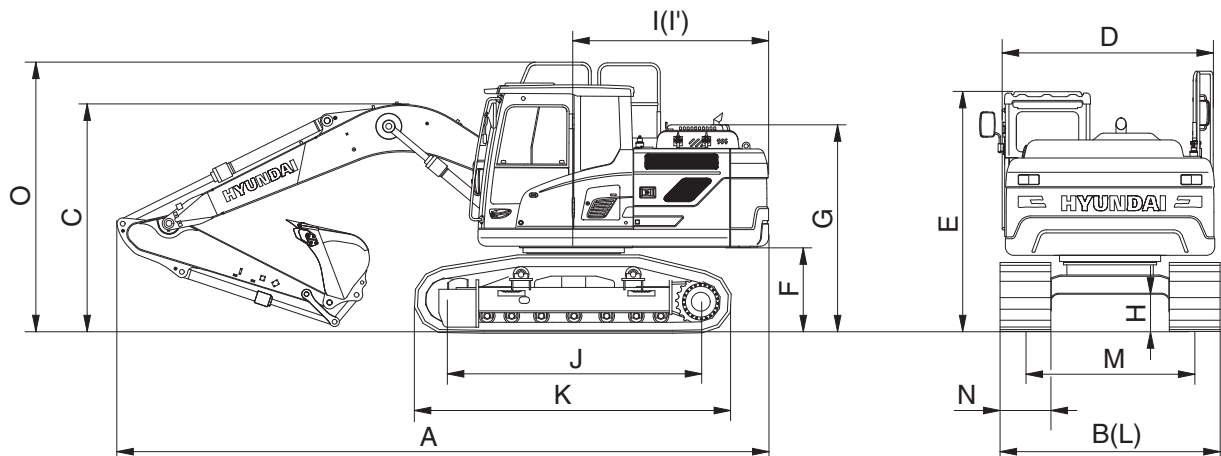
3) HX140 L DOZER BLADE



140F2SP04B

Description		Unit	Specification
Operating weight		kg (lb)	15020 (33110)
Bucket capacity (SAE heaped), standard		m ³ (yd ³)	0.58 (0.76)
Overall length	A	mm (ft-in)	7820 (25' 8")
Overall width, with 600 mm shoe	B		2600 (8' 6")
Overall height of boom	C		2780 (9' 1")
Superstructure width	D		2475 (8' 1")
Overall height of cab	E		2860 (9' 4")
Ground clearance of counterweight	F		940 (3' 1")
Engine cover height	G		2390 (7' 10")
Minimum ground clearance	H		440 (1' 5")
Rear-end distance	I		2330 (7' 8")
Rear-end swing radius	I'		2330 (7' 8")
Distance between tumblers	J		3000 (9' 10")
Undercarriage length	K		3708 (12' 1")
Undercarriage width	L		2600 (8' 6")
Track gauge	M		2000 (6' 7")
Track shoe width, standard	N		600 (24")
Height of blade	O		550 (1' 8")
Ground clearance of blade up	P		560 (1' 8")
Depth of blade down	Q		500 (1' 6")
Overall height of guardrail	R		3100 (10' 2")
Travel speed (low/high)		km/hr (mph)	3.3/5.6 (2.1/3.5)
Swing speed		rpm	11.6
Gradeability		Degree (%)	35 (70)
Ground pressure (600 mm shoe)		kgf/cm ² (psi)	0.39 (5.55)
Max traction force		kgf (lbf)	12000 (26460)

4) HX140 HW



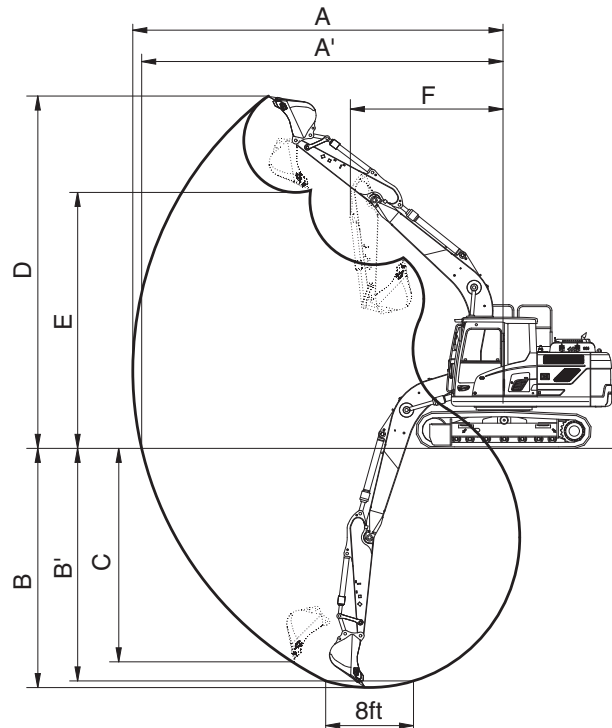
140F2SP05

Description		Unit	Specification
Operating weight		kg (lb)	17100 (37700)
Bucket capacity (SAE heaped), standard		m ³ (yd ³)	0.58 (0.76)
Overall length	A	mm (ft-in)	7790 (25' 6")
Overall width, with 800 mm shoe	B		2840 (9' 4")
Overall height of boom	C		2830 (9' 3")
Superstructure width	D		2475 (8' 1")
Overall height of cab	E		3120 (10' 2")
Ground clearance of counterweight	F		1200 (3' 11")
Engine cover height	G		2650 (8' 8")
Minimum ground clearance	H		600 (2' 0")
Rear-end distance	I		2330 (7' 8")
Rear-end swing radius	I'		2330 (7' 8")
Distance between tumblers	J		3030 (9' 6")
Undercarriage length	K		3860 (12' 8")
Undercarriage width	L		2840 (9' 4")
Track gauge	M		2040 (6' 8")
Track shoe width, standard	N		800 (32")
Overall height of guardrail	O		3360 (11' 0")
Travel speed (low/high)		km / hr (mph)	3.3/5.6 (2.1/3.5)
Swing speed		rpm	11.6
Gradeability		Degree (%)	35 (70)
Ground pressure (800 mm shoe)		kgf/cm ² (psi)	0.33 (4.69)
Max traction force		kgf (lbf)	12000 (26460)

3. WORKING RANGE

1) HX140 L

(1) 4.60 m (15' 1") MONO BOOM



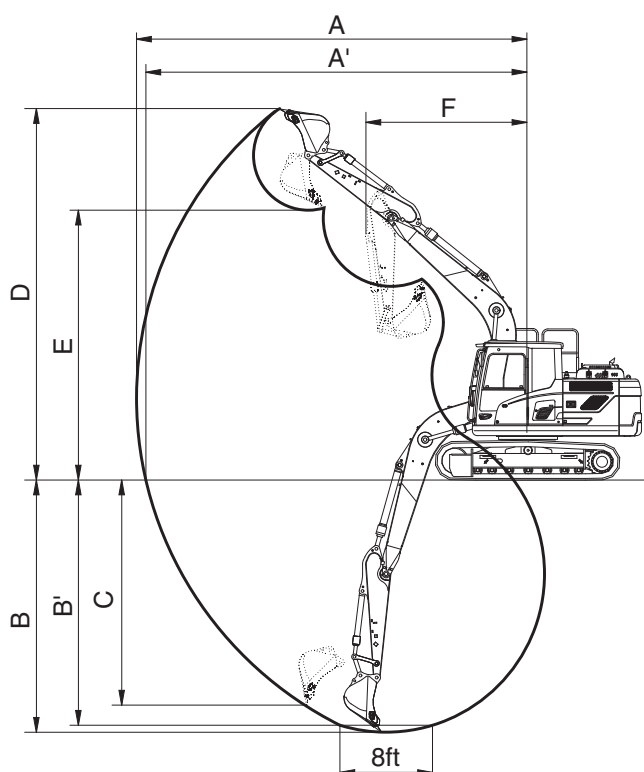
140F2SP06

Description		1.90 m (6' 3") Arm	2.10 m (6' 11") Arm	※2.50 m (8' 2") Arm	3.00 m (9' 10") Arm
Max digging reach	A	7750 mm (25' 5")	7920 mm (25' 11")	8330 mm (27' 4")	8790 mm (28' 10")
Max digging reach on ground	A'	7600 mm (24' 11")	7770 mm (25' 6")	8180 mm (26' 10")	8650 mm (28' 4")
Max digging depth	B	4950 mm (16' 2")	5150 mm (16' 10")	5550 mm (18' 3")	6050 mm (19' 10")
Max digging depth (8ft level)	B'	4680 mm (15' 4")	4900 mm (16' 1")	5340 mm (17' 6")	5870 mm (19' 3")
Max vertical wall digging depth	C	4650 mm (15' 3")	4900 mm (16' 1")	5330 mm (17' 6")	5850 mm (19' 2")
Max digging height	D	8100 mm (26' 7")	8180 mm (26' 10")	8500 mm (27' 11")	8780 mm (28' 10")
Max dumping height	E	5670 mm (18' 7")	5750 mm (18' 10")	6060 mm (19' 11")	6330 mm (20' 9")
Min swing radius	F	2630 mm (8' 8")	2670 mm (8' 9")	2650 mm (8' 8")	2680 mm (8' 10")
Bucket digging force	SAE	87.3 [94.8] kN	87.3 [94.8] kN	87.3 [94.8] kN	87.3 [94.8] kN
		8900 [9660] kgf	8900 [9660] kgf	8900 [9660] kgf	8900 [9660] kgf
		19620 [21300] lbf	19620 [21300] lbf	19620 [21300] lbf	19620 [21300] lbf
	ISO	102 [110.8] kN	102 [110.8] kN	102 [110.8] kN	102 [110.8] kN
		10400 [11290] kgf	10400 [11290] kgf	10400 [11290] kgf	10400 [11290] kgf
		22930 [24890] lbf	22930 [24890] lbf	22930 [24890] lbf	22930 [24890] lbf
Arm crowd force	SAE	76.5 [83.1] kN	73.6 [79.9] kN	62.8 [68.2] kN	55.9 [60.7] kN
		7800 [8470] kgf	7500 [8140] kgf	6400 [6950] kgf	5700 [6190] kgf
		17200 [18670] lbf	16530 [17950] lbf	14110 [15320] lbf	12570 [13640] lbf
	ISO	80.4 [87.3] kN	77.5 [84.1] kN	65.7 [71.4] kN	57.9 [62.8] kN
		8200 [8900] kgf	7900 [8580] kgf	6700 [7270] kgf	5900 [6410] kgf
		18080 [19630] lbf	17420 [18910] lbf	14770 [16040] lbf	13010 [14120] lbf

※ : STD

[] : Power boost

(2) 4.10 m (13' 5") MONO BOOM

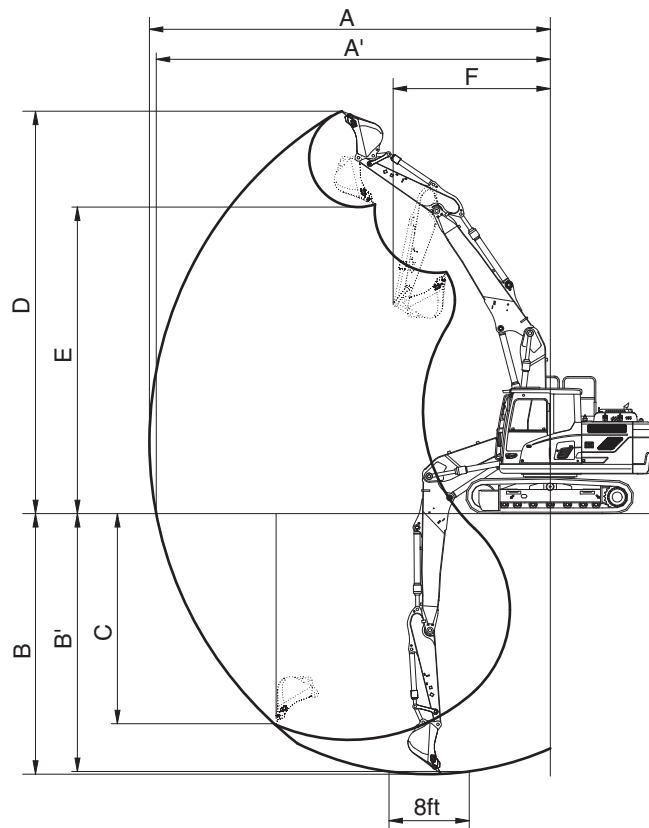


140F2SP06

Description		1.90 m (6' 3") Arm	2.10 m (6' 11") Arm
Max digging reach	A	7260 mm (23' 10")	7420 mm (24' 4")
Max digging reach on ground	A'	7090 mm (23' 3")	7260 mm (23' 10")
Max digging depth	B	4540 mm (14' 11")	4740 mm (15' 7")
Max digging depth (8ft level)	B'	4280 mm (14' 1")	4490 mm (14' 9")
Max vertical wall digging depth	C	4240 mm (13' 11")	4350 mm (14' 3")
Max digging height	D	7700 mm (25' 3")	7770 mm (25' 6")
Max dumping height	E	5260 mm (17' 3")	5340 mm (17' 6")
Min swing radius	F	2350 mm (7' 9")	2460 mm (8' 1")
Bucket digging force	SAE	87.3 [94.8] kN	87.3 [94.8] kN
		8900 [9660] kgf	8900 [9660] kgf
		19620 [21300] lbf	19620 [21300] lbf
	ISO	102 [110.8] kN	102 [110.8] kN
		10400 [11290] kgf	10400 [11290] kgf
		22930 [24890] lbf	22930 [24890] lbf
Arm crowd force	SAE	76.5 [83.1] kN	73.6 [79.9] kN
		7800 [8470] kgf	7500 [8140] kgf
		17200 [18670] lbf	16530 [17950] lbf
	ISO	80.4 [87.3] kN	77.5 [84.1] kN
		8200 [8900] kgf	7900 [8580] kgf
		18080 [19630] lbf	17420 [18910] lbf

[] : Power boost

(3) 4.90 m (16' 1") ADJUST BOOM



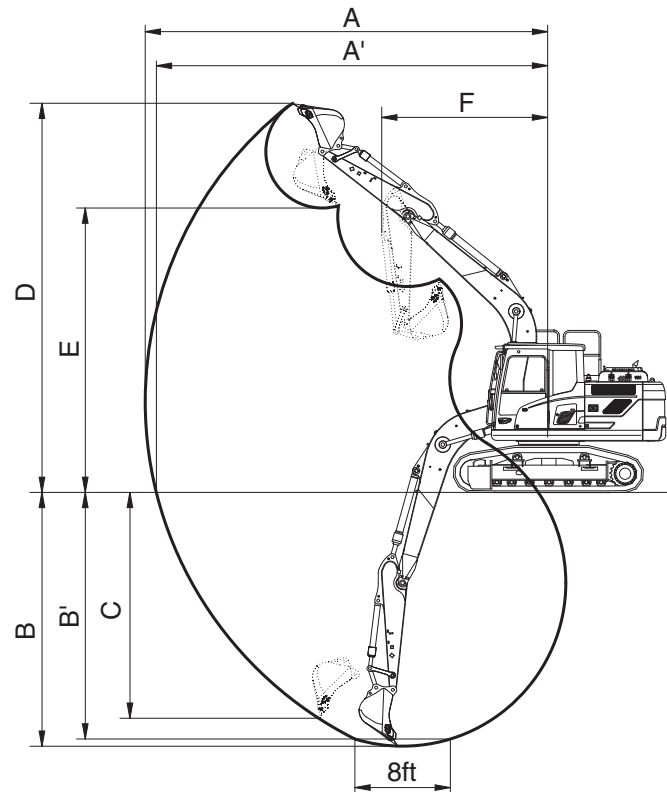
140F2SP08

Description		1.90 m (6' 3") Arm	2.10 m (6' 11") Arm	2.50 m (8' 2") Arm
Max digging reach	A	8140 mm (26' 8")	8320 mm (27' 4")	8720 mm (28' 7")
Max digging reach on ground	A'	8000 mm (26' 3")	8180 mm (26' 10")	8590 mm (28' 2")
Max digging depth	B	5110 mm (16' 9")	5310 mm (17' 5")	5710 mm (18' 9")
Max digging depth (8ft level)	B'	5000 mm (16' 5")	5190 mm (17' 0")	5610 mm (18' 5")
Max vertical wall digging depth	C	4490 mm (14' 9")	4660 mm (15' 3")	5120 mm (16' 10")
Max digging height	D	8810 mm (28' 11")	8890 mm (29' 2")	9270 mm (30' 5")
Max dumping height	E	6330 mm (20' 9")	6410 mm (21' 0")	6780 mm (22' 3")
Min swing radius	F	2670 mm (8' 9")	2830 mm (9' 3")	2690 mm (8' 10")
Bucket digging force	SAE	87.3 [94.8] kN	87.3 [94.8] kN	87.3 [94.8] kN
		8900 [9660] kgf	8900 [9660] kgf	8900 [9660] kgf
		19620 [21300] lbf	19620 [21300] lbf	19620 [21300] lbf
	ISO	102 [110.8] kN	102 [110.8] kN	102 [110.8] kN
		10400 [11290] kgf	10400 [11290] kgf	10400 [11290] kgf
		22930 [24890] lbf	22930 [24890] lbf	22930 [24890] lbf
Arm crowd force	SAE	76.5 [83.1] kN	73.6 [79.9] kN	62.8 [68.2] kN
		7800 [8470] kgf	7500 [8140] kgf	6400 [6950] kgf
		17200 [18670] lbf	16530 [17950] lbf	14110 [15320] lbf
	ISO	80.4 [87.3] kN	77.5 [84.1] kN	65.7 [71.4] kN
		8200 [8900] kgf	7900 [8580] kgf	6700 [7270] kgf
		18080 [19630] lbf	17420 [18910] lbf	14770 [16040] lbf

[] : Power boost

2) HX140 HW

(1) 4.6 m (15' 1") MONO BOOM



140F2SP09

Description		1.90 m (6' 3") Arm	2.10 m (6' 11") Arm	※2.50 m (8' 2") Arm	3.00 m (9' 10") Arm
Max digging reach	A	7750 mm (25' 5")	7920 mm (26' 0")	8330 mm (27' 4")	8790 mm (28' 10")
Max digging reach on ground	A'	7540 mm (24' 9")	7710 mm (25' 4")	8110 mm (26' 7")	8580 mm (28' 2")
Max digging depth	B	4690 mm (15' 5")	4890 mm (16' 1")	5290 mm (17' 4")	5790 mm (19' 0")
Max digging depth (8ft level)	B'	4420 mm (14' 6")	4640 mm (15' 3")	5080 mm (16' 8")	5610 mm (18' 5")
Max vertical wall digging depth	C	4390 mm (14' 9")	4640 mm (15' 3")	5070 mm (16' 8")	5590 mm (18' 4")
Max digging height	D	8360 mm (27' 5")	8440 mm (27' 8")	8760 mm (28' 9")	9040 mm (29' 7")
Max dumping height	E	5930 mm (19' 5")	6010 mm (19' 8")	6320 mm (20' 9")	6590 mm (21' 7")
Min swing radius	F	2630 mm (8' 8")	2670 mm (8' 9")	2650 mm (8' 8")	2680 mm (8' 10")
Bucket digging force	SAE	87.3 [94.8] kN	87.3 [94.8] kN	87.3 [94.8] kN	87.3 [94.8] kN
		8900 [9660] kgf	8900 [9660] kgf	8900 [9660] kgf	8900 [9660] kgf
		19620 [21300] lbf	19620 [21300] lbf	19620 [21300] lbf	19620 [21300] lbf
	ISO	102 [110.8] kN	102 [110.8] kN	102 [110.8] kN	102 [110.8] kN
		10400 [11290] kgf	10400 [11290] kgf	10400 [11290] kgf	10400 [11290] kgf
		22930 [24890] lbf	22930 [24890] lbf	22930 [24890] lbf	22930 [24890] lbf
Arm crowd force	SAE	76.5 [83.1] kN	73.6 [79.9] kN	62.8 [68.2] kN	55.9 [60.7] kN
		7800 [8470] kgf	7500 [8140] kgf	6400 [6950] kgf	5700 [6190] kgf
		17200 [18670] lbf	16530 [17950] lbf	14110 [15320] lbf	12570 [13640] lbf
	ISO	80.4 [87.3] kN	77.5 [84.1] kN	65.7 [71.4] kN	57.9 [62.8] kN
		8200 [8900] kgf	7900 [8580] kgf	6700 [7270] kgf	5900 [6410] kgf
		18080 [19630] lbf	17420 [18910] lbf	14770 [16040] lbf	13010 [14120] lbf

※ : STD [] : Power boost

4. WEIGHT

1) HX140 L

Item	HX140 L		HX140 L DOZER BLADE	
	kg	lb	kg	lb
Upper structure assembly				
· Main frame weld assembly	1120	2470	←	
· Engine assembly	558	1230	←	
· Aftertreatment	30	65	←	
· Main pump assembly	100	220	←	
· Main control valve assembly	140	310	←	
· Swing motor assembly	120	260	←	
· Hydraulic oil tank assembly	160	350	←	
· Fuel tank assembly	130	290	←	
· Counterweight	2000	4410	←	
· Cab assembly	500	1100	←	
Lower chassis assembly				
· Track frame weld assembly	1590	3510	1840	4060
· Swing bearing	260	570	←	
· Travel motor assembly	480	1060	←	
· Turning joint	50	110	←	
· Track recoil spring	87	192	←	
· Idler	108	238	←	
· Carrier roller	19	42	←	
· Track roller	33	73	←	
· Track-chain assembly (600 mm standard triple grouser shoe)	1027	2265	←	
· Dozer blade assembly	-		550	1220
Front attachment assembly				
· 4.6 m boom assembly	830	1830	←	
· 2.5 m arm assembly	435	960	←	
· 0.58 m³ SAE heaped bucket	480	1060	←	
· Boom cylinder assembly	121	267	←	
· Arm cylinder assembly	171	377	←	
· Bucket cylinder assembly	123	271	←	
· Bucket control rod assembly	90	200	←	
· Dozer blade cylinder assembly	-		52	115

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

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

2) HX140 HW

Item	HX140 HW	
	kg	lb
Upper structure assembly		
· Main frame weld assembly	1120	2470
· Engine assembly	558	1230
· Aftertreatment	30	65
· Main pump assembly	100	220
· Main control valve assembly	140	310
· Swing motor assembly	120	260
· Hydraulic oil tank assembly	160	350
· Fuel tank assembly	130	290
· Counterweight	2000	4410
· Cab assembly	480	1060
Lower chassis assembly		
· Track frame weld assembly	2180	4810
· Swing bearing	260	570
· Travel motor assembly	305	670
· Turning joint	50	110
· Tension cylinder assembly	132	291
· Idler assembly	151	333
· Carrier roller assembly	40	88
· Track roller assembly	40	88
· Track-chain assembly (800 mm standard triple grouser shoe)	1370	3020
Front attachment assembly		
· 4.6 m boom assembly	830	1830
· 2.5 m arm assembly	435	960
· 0.58 m³ SAE heaped bucket	480	1060
· Boom cylinder assembly	121	267
· Arm cylinder assembly	171	377
· Bucket cylinder assembly	123	271
· Bucket control rod assembly	90	200

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

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

5. LIFTING CAPACITIES

1) HX140 L

(1) 4.60 m (15' 1") boom, 2.50 m (8' 2") arm equipped with 0.58 m³ (SAE heaped) bucket and 600 mm (24") triple grouser shoe.

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

Load point height		Load radius								At max. reach		
		1.5 m (5 ft)		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		Capacity		Reach
												m (ft)
6.0 m	kg									*2820	1930	6.69
(20.0 ft)	lb									*6220	4250	(21.9)
4.5 m	kg					*3170	*3170	*2560	2230	2440	1500	7.53
(15.0 ft)	lb					*6990	*6990	*5640	4920	5380	3310	(24.7)
3.0 m	kg			*5450	*5450	*4050	3500	3470	2150	2180	1310	7.95
(10.0 ft)	lb			*12020	*12020	*8930	7720	7650	4740	4810	2890	(26.1)
1.5 m	kg			*8460	6060	*5190	3230	3340	2040	2100	1250	8.03
(5.0 ft)	lb			*18650	13360	*11440	7120	7360	4500	4630	2760	(26.3)
Ground Line	kg			*8800	5710	5130	3030	3240	1940	2190	1300	7.77
	lb			*19400	12590	11310	6680	7140	4280	4830	2870	(25.5)
-1.5 m	kg	*6330	*6330	*9780	5660	5040	2950	3200	1900	2500	1500	7.15
(-5.0 ft)	lb	*13960	*13960	*21560	12480	11110	6500	7050	4190	5510	3310	(23.5)
-3.0 m	kg	*9650	*9650	*8690	5750	5080	2990			3340	2040	6.01
(-10 ft)	lb	*21270	*21270	*19160	12680	11200	6590			7360	4500	(19.7)

- 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 load point is a hook located on the back of the bucket.
 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.

(2) 4.60 m (15' 1") boom, 1.90 m (6' 3") arm equipped with 0.58 m³ (SAE heaped) bucket and 600 mm (24") triple grouser shoe.

Load point height		Load radius								At max. reach		
		1.5 m (5 ft)		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		Capacity		Reach
												m (ft)
6.0 m (20.0 ft)	kg lb									*3170 *6990	2350 5180	5.95 (19.5)
4.5 m (15.0 ft)	kg lb					*3780 *8330	3660 8070			2830 6240	1760 3880	6.90 (22.6)
3.0 m (10.0 ft)	kg lb			*6770 *14930	*6600 *14550	*4630 *10210	3450 7610	3450 7610	2140 4720	2480 5470	1520 3350	7.37 (24.2)
1.5 m (5.0 ft)	kg lb			*7280 *16050	5900 13010	5320 11730	3210 7080	3350 7390	2050 4520	2390 5270	1450 3200	7.45 (24.4)
Ground Line	kg lb			*8500 *18740	5750 12680	5150 11350	3060 6750	3270 7210	1980 4370	2520 5560	1530 3370	7.17 (23.5)
-1.5 m (-5.0 ft)	kg lb	*7630 *16820	*7630 *16820	*9450 *20830	5770 12720	5110 11270	3020 6660			2970 6550	1810 3990	6.48 (21.3)
-3.0 m (-10 ft)	kg lb			*7890 *17390	5930 13070							

2) HX140 L, ADJUST BOOM

(1) 4.90 m (16' 1") adjust boom, 1.90 m (6' 3") arm equipped with 0.58 m³ (SAE heaped) bucket and 600 mm (24") triple grouser shoe.

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

Load point height		Load radius						At max. reach		
		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		Capacity		Reach
										m (ft)
6.0 m (20.0 ft)	kg lb			*3150 *6940	*3150 *6940			*2880 *6350	2010 4430	6.45 (21.2)
4.5 m (15.0 ft)	kg lb			*3480 *7670	*3480 *7670	*3290 *7250	2180 4810	2530 5580	1550 3420	7.33 (24.0)
3.0 m (10.0 ft)	kg lb	*6970 *15370	*6320 *13930	*4400 *9700	3370 7430	3430 7560	2100 4630	2250 4960	1340 2950	7.76 (25.5)
1.5 m (5.0 ft)	kg lb			5230 11530	3090 6810	3310 7300	1980 4370	2170 4780	1280 2820	7.84 (25.7)
Ground Line	kg lb	*5470 *12060	*5470 *12060	5060 11160	2940 6480	3220 7100	1900 4190	2270 5000	1340 2950	7.58 (24.9)
-1.5 m (-5.0 ft)	kg lb	*9260 *20410	5620 12390	5030 11090	2910 6420	3210 7080	1890 4170	2640 5820	1570 3460	6.93 (22.7)
-3.0 m (-10 ft)	kg lb			5130 11310	3000 6610					

- 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 load point is a hook located on the back of the bucket.
 4. *indicates load limited by hydraulic capacity.

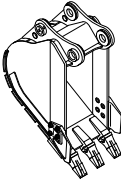
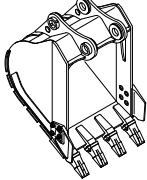
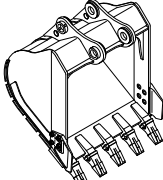
(2) 4.90 m (16' 1") adjust boom, 2.10 m (6' 11") arm equipped with 0.58 m³ (SAE heaped) bucket and 600 mm (24") triple grouser shoe.

Load point height		Load radius						At max. reach		
		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		Capacity		Reach
										m (ft)
6.0 m (20.0 ft)	kg lb			*2930 *6460	*2930 *6460			*2760 *6080	1900 4190	6.68 (21.9)
4.5 m (15.0 ft)	kg lb			*3280 *7230	*3280 *7230	*3160 *6970	2200 4850	2420 5340	1470 3240	7.52 (24.7)
3.0 m (10.0 ft)	kg lb	*6430 *14180	*6430 *14180	*4200 *9260	3380 7450	3430 7560	2100 4630	2160 4760	1280 2820	7.94 (26.0)
1.5 m (5.0 ft)	kg lb			5230 11530	3090 6810	3300 7280	1980 4370	2080 4590	1220 2690	8.02 (26.3)
Ground Line	kg lb	*5820 *12830	5510 12150	5040 11110	2920 6440	3200 7050	1890 4170	2170 4780	1270 2800	7.77 (25.5)
-1.5 m (-5.0 ft)	kg lb	*9380 *20680	5550 12240	4980 10980	2870 6330	3170 6990	1860 4100	2490 5490	1480 3260	7.14 (23.4)
-3.0 m (-10 ft)	kg lb	*8320 *18340	5690 12540	5060 11160	2940 6480					

6. BUCKET SELECTION GUIDE

1) HX140 L

(1) General bucket

		
0.23 m³ SAE heaped bucket	0.40, 0.46 m³ SAE heaped bucket	0.52, ※0.58, 0.65, 0.71 m³ SAE heaped bucket

Capacity		Width		Weight	Recommendation					
					4.6 m (15' 1") boom				4.1 m (13' 5") boom	
SAE heaped	CECE heaped	Without side cutter	With side cutter		1.9 m arm (6' 3")	2.1 m arm (6' 11")	2.5 m arm (8' 2")	3.0 m arm (9' 10")	1.9 m arm (6' 3")	2.1 m arm (6' 11")
0.23 m³ (0.30 yd³)	0.20 m³ (0.26 yd³)	520 mm (20.5")	620 mm (24.4")	335 kg (740 lb)	○	○	○	⊙	○	○
0.40 m³ (0.52 yd³)	0.35 m³ (0.46 yd³)	760 mm (29.9")	860 mm (33.9")	410 kg (900 lb)	○	○	○	⊙	○	○
0.46 m³ (0.60 yd³)	0.40 m³ (0.52 yd³)	850 mm (33.5")	950 mm (37.4")	435 kg (960 lb)	○	○	○	●	○	○
0.52 m³ (0.68 yd³)	0.45 m³ (0.59 yd³)	935 mm (36.8")	1035 mm (40.8")	460 kg (1010 lb)	○	○	○		○	○
※0.58 m³ (0.76 yd³)	0.50 m³ (0.65 yd³)	1030 mm (40.6")	1130 mm (44.5")	480 kg (1060 lb)	○	○	⊙		○	○
0.65 m³ (0.85 yd³)	0.55 m³ (0.72 yd³)	1110 mm (43.7")	1210 mm (47.6")	500 kg (1100 lb)	⊙	⊙	●		○	⊙
0.71 m³ (0.93 yd³)	0.60 m³ (0.78 yd³)	1205 mm (47.4")	1305 mm (51.4")	540 kg (1190 lb)	●	●			⊙	●

※ : Standard bucket

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

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

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

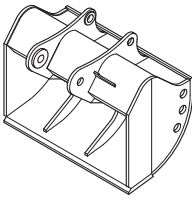
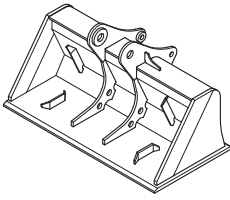
※ These recommendations are for general conditions and average use.

Work tools and ground conditions have effects on machine performance.

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

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

(2) Special bucket

Ditch cleaning bucket 	Slope finishing bucket 
★0.45 m³ SAE heaped bucket	◆0.55 m³ SAE heaped bucket

Capacity		Width		Weight	Recommendation					
					4.6 m (15' 1") boom				4.1 m (13' 5") boom	
SAE heaped	CECE heaped	Without side cutter	With side cutter		1.9 m arm (6' 3")	2.1 m arm (6' 11")	2.5 m arm (8' 2")	3.0 m arm (9' 10")	1.9 m arm (6' 3")	2.1 m arm (6' 11")
★0.45 m ³ (0.59 yd ³)	0.40 m ³ (0.52 yd ³)	1520 mm (59.8")	-	410 kg (900 lb)	○	○	●		○	○
◆0.55 m ³ (0.72 yd ³)	0.45 m ³ (0.59 yd ³)	1800 mm (70.9")	-	585 kg (1290 lb)	●	●	●		○	○

★ : Ditch cleaning bucket

◆ : Slope finishing bucket

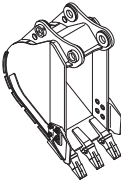
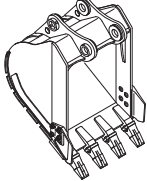
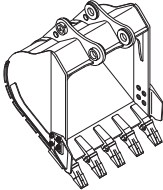
○ Applicable for materials with density of 2000 kgf/m³ (3370 lbf/yd³) or less

● Applicable for materials with density of 1600 kgf/m³ (2700 lbf/yd³) or less

● Applicable for materials with density of 1100 kgf/m³ (1850 lbf/yd³) or less

2) HX140 L, ADJUST BOOM

(1) General bucket

		
0.23 m ³ SAE heaped bucket	0.40, 0.46 m ³ SAE heaped bucket	0.52, ※ 0.58, 0.65, 0.71 m ³ SAE heaped bucket

Capacity		Width		Weight	Recommendation		
					4.9 m (16' 1") adjust boom		
SAE heaped	CECE heaped	Without side cutter	With side cutter		1.9 m arm (6' 3")	2.1 m arm (6' 11")	2.5 m arm (8' 2")
0.23 m ³ (0.30 yd ³)	0.20 m ³ (0.26 yd ³)	520 mm (20.5")	620 mm (24.4")	335 kg (740 lb)	○	○	○
0.40 m ³ (0.52 yd ³)	0.35 m ³ (0.46 yd ³)	760 mm (29.9")	860 mm (33.9")	410 kg (900 lb)	○	○	○
0.46 m ³ (0.60 yd ³)	0.40 m ³ (0.52 yd ³)	850 mm (33.5")	950 mm (37.4")	435 kg (960 lb)	○	○	●
0.52 m ³ (0.68 yd ³)	0.45 m ³ (0.59 yd ³)	935 mm (36.8")	1035 mm (40.8")	460 kg (1010 lb)	○	●	●
※ 0.58 m ³ (0.76 yd ³)	0.50 m ³ (0.65 yd ³)	1030 mm (40.6")	1130 mm (44.5")	480 kg (1060 lb)	●	●	●
0.65 m ³ (0.85 yd ³)	0.55 m ³ (0.72 yd ³)	1110 mm (43.7")	1210 mm (47.6")	500 kg (1100 lb)	●	●	
0.71 m ³ (0.93 yd ³)	0.60 m ³ (0.78 yd ³)	1205 mm (47.4")	1305 mm (51.4")	540 kg (1190 lb)	●		

※ : Standard bucket



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

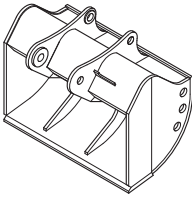
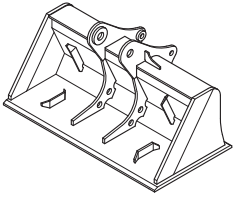


Applicable for materials with density of 1600 kg/m³ (2700 lb/yd³) or less



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

(2) Special bucket

Ditch cleaning bucket 	Slope finishing bucket 
★0.45 m³ SAE heaped bucket	◆0.55 m³ SAE heaped bucket

Capacity		Width		Weight	Recommendation		
					4.9 m (16' 1") boom		
SAE heaped	CECE heaped	Without side cutter	With side cutter		1.9 m arm (6' 3")	2.1 m arm (6' 11")	2.5 m arm (8' 2")
★0.45 m³ (0.59 yd³)	0.40 m³ (0.52 yd³)	1520 mm (59.8")	-	410 kg (900 lb)	○	○	●
◆0.55 m³ (0.72 yd³)	0.45 m³ (0.59 yd³)	1800 mm (70.9")	-	585 kg (1290 lb)	○	●	●

★ : Ditch cleaning bucket

◆ : Slope finishing bucket

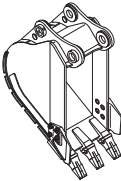
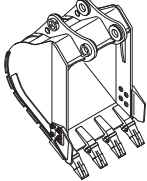
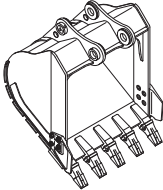
○ Applicable for materials with density of 2000 kgf/m³ (3370 lbf/yd³) or less

◉ Applicable for materials with density of 1600 kgf/m³ (2700 lbf/yd³) or less

● Applicable for materials with density of 1100 kgf/m³ (1850 lbf/yd³) or less

3) HX140 HW

(1) General bucket

		
0.23 m ³ SAE heaped bucket	0.40, 0.46 m ³ SAE heaped bucket	0.52, ※ 0.58, 0.65, 0.71 m ³ SAE heaped bucket

Capacity		Width		Weight	Recommendation			
					4.6 m (15' 1") boom			
SAE heaped	CECE heaped	Without side cutter	With side cutter		1.9 m arm (6' 3")	2.1 m arm (6' 11")	2.5 m arm (8' 2")	3.0 m arm (9' 10")
0.23 m ³ (0.30 yd ³)	0.20 m ³ (0.26 yd ³)	520 mm (20.5")	620 mm (24.4")	335 kg (740 lb)	○	○	○	○
0.40 m ³ (0.52 yd ³)	0.35 m ³ (0.46 yd ³)	760 mm (29.9")	860 mm (33.9")	410 kg (900 lb)	○	○	○	●
0.46 m ³ (0.60 yd ³)	0.40 m ³ (0.52 yd ³)	850 mm (33.5")	950 mm (37.4")	435 kg (960 lb)	○	○	○	●
0.52 m ³ (0.68 yd ³)	0.45 m ³ (0.59 yd ³)	935 mm (36.8")	1035 mm (40.7")	460 kg (1010 lb)	○	○	○	●
※ 0.58 m ³ (0.76 yd ³)	0.50 m ³ (0.65 yd ³)	1030 mm (40.6")	1130 mm (44.5")	480 kg (1060 lb)	○	○	○	
0.65 m ³ (0.85 yd ³)	0.55 m ³ (0.72 yd ³)	1110 mm (43.7")	1210 mm (47.6")	500 kg (1100 lb)	○	●	●	
0.71 m ³ (0.93 yd ³)	0.60 m ³ (0.78 yd ³)	1205 mm (47.4")	1305 mm (51.4")	540 kg (1190 lb)	●	●	●	

※ : Standard bucket



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

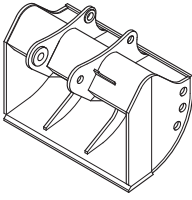
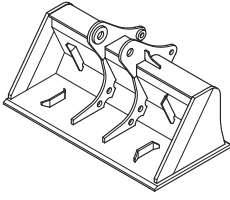


Applicable for materials with density of 1600 kg/m³ (2700 lb/yd³) or less



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

(2) Special bucket

Ditch cleaning bucket 	Slope finishing bucket 
★0.45 m³ SAE heaped bucket	◆0.55 m³ SAE heaped bucket

Capacity		Width		Weight	Recommendation		
					4.9 m (16' 1") boom		
SAE heaped	CECE heaped	Without side cutter	With side cutter		1.9 m arm (6' 3")	2.1 m arm (6' 11")	2.5 m arm (8' 2")
★0.45 m ³ (0.59 yd ³)	0.40 m ³ (0.52 yd ³)	1520 mm (59.8")	-	410 kg (900 lb)	○	○	●
◆0.55 m ³ (0.72 yd ³)	0.45 m ³ (0.59 yd ³)	1800 mm (70.9")	-	585 kg (1290 lb)	○	●	●

★ : Ditch cleaning bucket

◆ : Slope finishing bucket

○ Applicable for materials with density of 2000 kgf/m³ (3370 lbf/yd³) or less

○ Applicable for materials with density of 1600 kgf/m³ (2700 lbf/yd³) or less

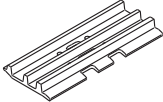
● Applicable for materials with density of 1100 kgf/m³ (1850 lbf/yd³) or less

7. UNDERCARRIAGE

1) TRACKS

X-leg type center frame is integrally welded with reinforced box-section track frames. The design includes dry tracks, lubricated rollers, idlers, sprockets, hydraulic track adjusters with shock absorbing springs and assembled track-type tractor shoes with triple grousers.

2) TYPES OF SHOES

Model	Shapes		Triple grouser		
					
HX140 L	Shoe width	mm (in)	500 (20)	※600 (24)	700 (28)
	Operating weight	kg (lb)	13990 (30840)	14200 (31310)	14410 (31770)
	Ground pressure	kgf/cm ² (psi)	0.43 (6.11)	0.37 (5.26)	0.32 (4.55)
	Overall width	mm (ft-in)	2500 (8' 2")	2600 (8' 6")	2700 (8' 10")
HX140 L DOZER BLADE	Shoe width	mm (in)	500 (20)	※600 (24)	700 (28)
	Operating weight	kg (lb)	14810 (32650)	15020 (33110)	15230 (33580)
	Ground pressure	kgf/cm ² (psi)	0.46 (6.54)	0.39 (5.35)	0.34 (4.83)
	Overall width	mm (ft-in)	2500 (8' 2")	2600 (8' 6")	2700 (8' 10")
HX140 HW	Shoe width	mm (in)	700 (28)	※800 (32)	-
	Operating weight	kg (lb)	16865 (37180)	17100 (37700)	-
	Ground pressure	kgf/cm ² (psi)	0.37 (5.26)	0.33 (4.69)	-
	Overall width	mm (ft-in)	2750 (9' 0")	2840 (9' 4")	-

※ : Standard

3) NUMBER OF ROLLERS AND SHOES ON EACH SIDE

Item	Quantity	
	HX140 L	HX140 HW
Carrier rollers	1 EA	2 EA
Track rollers	7 EA	7 EA
Track shoes	46 EA	47 EA

4) SELECTION OF TRACK SHOE

Suitable track shoes should be selected according to operating conditions.

Method of selecting shoes

Confirm the category from the list of applications in **table 2**, then use **table 1** to select the shoe. Wide shoes (categories B and C) have limitations on applications. Before using wide shoes, check the precautions, then investigate and study the operating conditions to confirm if these shoes are suitable.

Select the narrowest shoe possible to meet the required flotation and ground pressure. Application of wider shoes than recommendations will cause unexpected problem such as bending of shoes, crack of link, breakage of pin, loosening of shoe bolts and the other various problems.

※ **Table 1**

Track shoe	Specification	Category
600 mm triple grouser	Standard	A
500 mm triple grouser	Option	A
700 mm triple grouser	Option	B
700 mm triple grouser	HX140 HW only	B
810 mm triple grouser	HX140 HW only	B

※ **Table 2**

Category	Applications	Applications
A	Rocky ground, river beds, normal soil	· Travel at low speed on rough ground with large obstacles such as boulders or fallen trees
B	Normal soil, soft ground	· These shoes cannot be used on rough ground with large obstacles such as boulders or fallen trees · Travel at high speed only on flat ground · Travel slowly at low speed if it is impossible to avoid going over obstacles

8. SPECIFICATIONS FOR MAJOR COMPONENTS

1) ENGINE

Item	Specification
Model	Perkins 1204F
Type	4-cycle turbocharged charge air cooled diesel engine
Cooling method	Water cooling
Number of cylinders and arrangement	4 cylinders, in-line
Firing order	1-3-4-2
Combustion chamber type	Direct injection type
Cylinder bore × stroke	105 × 127 mm (4.1" × 5.0")
Piston displacement	4400 cc (269 cu in)
Compression ratio	16.5 : 1
Rated net horse power (SAE J1349)	116 Hp (87 kW) at 1950 rpm
Rated gross horse power (SAE J1995)	124 Hp (92.6 kW) at 1950 rpm
Maximum torque	54 kgf · m (391 lbf · ft) at 1400 rpm
Engine oil quantity	10.5 ℓ (2.8 U.S. gal)
Dry weight	558 kg (1230 lb)
High idling speed	2200 ± 50 rpm
Low idling speed	1100 ± 100 rpm
Rated fuel consumption	164.8 g/Hp · hr at 1950 rpm, (100% load)
Starting motor	24 V-4.5 kW
Alternator	24 V-100 A
Battery	2 × 12 V × 100 Ah

2) MAIN PUMP

Item	Specification
Type	Variable displacement axial piston pumps
Capacity	2 × 65 cc/rev
Maximum pressure	350 kgf/cm ² (4980 psi) [380 kgf/cm ² (5400 psi)]
Rated oil flow	2 × 126.8 ℓ /min (33.4 U.S. gpm / 27.8 U.K. gpm)
Rated speed	1950 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	29.2 ℓ /min (7.7 U.S. gpm / 6.4 U.K. gpm)

4) MAIN CONTROL VALVE

Item	Specification
Type	11 spools
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	Fixed displacement axial piston motor
Capacity	76.96 cc/rev
Relief pressure	285 kgf/cm ² (4054 psi)
Braking system	Automatic, spring applied hydraulic released
Braking torque	Minimum 30 kgf · m (217 lbf · ft)
Brake release pressure	15~50 kgf/cm ² (213~711 psi)
Reduction gear type	2 - stage planetary

6) TRAVEL MOTOR

Item	Specification
Type	Variable displacement axial piston motor
Relief pressure	350 kgf/cm ² (4980 psi)
Capacity (max / min)	77/44.5 cc/rev
Reduction gear type	2-stage planetary
Braking system	Automatic, spring applied hydraulic released
Brake release pressure	14.3 kgf/cm ² (205 psi)
Braking torque	Min. 19.7 kgf · m (140 lbf · ft)

7) CYLINDER

Item		Specification
Boom cylinder	Bore dia × Rod dia × Stroke	Ø 120 × Ø 75 × 1290 mm
	Cushion	Extend only
Arm cylinder	Bore dia × Rod dia × Stroke	Ø 140 × Ø 80 × 1510 mm
	Cushion	Extend and retract
Bucket cylinder	Bore dia × Rod dia × Stroke	Ø 120 × Ø 70 × 1055 mm
	Cushion	Extend only
Dozer cylinder (opt)	Bore dia × Rod dia × Stroke	Ø 100 × Ø 70 × 250 mm
	Cushion	-
Adjust cylinder (opt)	Bore dia × Rod dia × Stroke	Ø 145 × Ø 90 × 613 mm
	Cushion	-
Adjust boom cylinder (opt)	Bore dia × Rod dia × Stroke	Ø 105 × Ø 75 × 975 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) SHOE

Item		Width	Ground pressure	Link quantity	Overall width
HX140 L	Standard	600 mm (24")	0.37 kgf/cm ² (5.26 psi)	46	2600 mm (8' 6")
	Option	500 mm (20")	0.43 kgf/cm ² (6.11 psi)	46	2500 mm (8' 2")
		700 mm (28")	0.32 kgf/cm ² (4.55 psi)	46	2700 mm (8' 10")
HX140 L DOZER BLADE	Standard	600 mm (24")	0.39 kgf/cm ² (5.55 psi)	46	2600 mm (8' 6")
	Option	500 mm (20")	0.46 kgf/cm ² (6.54 psi)	46	2500 mm (8' 2")
		700 mm (28")	0.34 kgf/cm ² (4.83 psi)	46	2700 mm (8' 10")
HX140 HW	Standard	800 mm (32")	0.33 kgf/cm ² (4.69 psi)	47	2840 mm (9' 4")
	Option	700 mm (28")	0.37 kgf/cm ² (5.26 psi)	47	2850 mm (9' 0")

9) BUCKET

Item		Capacity		Tooth quantity	Width	
		SAE heaped	CECE heaped		Without side cutter	With side cutter
HX140 L	Standard	※0.58 m ³ (0.76 yd ³)	0.50 m ³ (0.65 yd ³)	5	1030 mm (40.6")	1130 mm (44.5")
	Option	0.23 m ³ (0.30 yd ³)	0.20 m ³ (0.26 yd ³)	3	520 mm (20.5")	620 mm (24.4")
		0.40 m ³ (0.52 yd ³)	0.35 m ³ (0.46 yd ³)	4	760 mm (29.9")	860 mm (33.9")
		0.46 m ³ (0.60 yd ³)	0.40 m ³ (0.52 yd ³)	4	850 mm (33.5")	950 mm (37.4")
		0.52 m ³ (0.68 yd ³)	0.45 m ³ (0.59 yd ³)	5	935 mm (36.8")	1035 mm (40.8")
		0.65 m ³ (0.85 yd ³)	0.55 m ³ (0.72 yd ³)	5	1110 mm (43.7")	1210 mm (47.6")
		0.71 m ³ (0.93 yd ³)	0.60 m ³ (0.78 yd ³)	5	1205 mm (47.4")	1305 mm (51.4")
		★0.45 m ³ (0.59 yd ³)	0.40 m ³ (0.52 yd ³)	-	1520 mm (59.8")	-
		◆0.55 m ³ (0.72 yd ³)	0.45 m ³ (0.59 yd ³)	-	1800 mm (70.9")	-

★ : Ditch cleaning bucket

◆ : Slope finishing bucket

9. RECOMMENDED OILS

HD Hyundai Construction Equipment genuine lubricating oils have been developed to offer the best performance and service life for your equipment. These oils have been tested according to the specifications of HD Hyundai Construction Equipment and, therefore, will meet the highest safety and quality requirements. We recommend that you use only HD Hyundai Construction Equipment genuine lubricating oils and grease officially approved by HD Hyundai Construction Equipment.

Service point	Kind of fluid	Capacity ℓ (U.S. gal)	Ambient temperature °C (°F)									
			-50 (-58)	-30 (-22)	-20 (-4)	-10 (14)	0 (32)	10 (50)	20 (68)	30 (86)	40 (104)	
Engine oil pan	Engine oil	10.5 (2.8)	★SAE 5W-40									
							SAE 30					
				SAE 10W								
				SAE 10W-30								
				SAE 15W-40								
DEF/ AdBlue® Tank	Mixture of urea and deionized water	19.0 (5.0)	ISO 22241, High-purity urea + deionized water (32.5:67.5)									
Swing drive	Gear oil	TYPE 1 : 3.5 (0.9)	★SAE 75W-90									
		TYPE 2 : 2.5 (0.7)										
Final drive		2.3 (0.6)	SAE 80W-90									
Hydraulic tank	Hydraulic oil	Tank : 124 (32.8)	★ISO VG 15									
			ISO VG 32									
		System : 210 (55.5)	ISO VG 46, HBHO VG 46★ ³									
			ISO VG 68									
Fuel tank	Diesel fuel★ ¹	270 (71.3)	★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	15.5 (4.1)	Ethylene glycol base permanent type (50 : 50)									
			★Ethylene glycol base permanent type (60 : 40)									

SAE : Society of Automotive Engineers

API : American Petroleum Institute

ISO : International Organization for Standardization

NLGI : National Lubricating Grease Institute

ASTM : American Society of Testing and Material

DEF : Diesel Exhaust Fluid, DEF compatible with AdBlue®

★ : Cold region (Russia, CIS, Mongolia)

★¹ : Ultra low sulfur diesel
- sulfur content ≤ 15 ppm

★² : Soft water
City water or distilled water

★³ : HD Hyundai Construction Equipment
Bio Hydraulic Oil

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

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

※ Do not use any engine oil other than that specified above, as it may clog the diesel particulate filter(DPF).

※ For HD Hyundai Construction Equipment genuine lubricating oils and grease for use in regions with extremely low temperatures, please contact HD Hyundai Construction Equipment dealers.