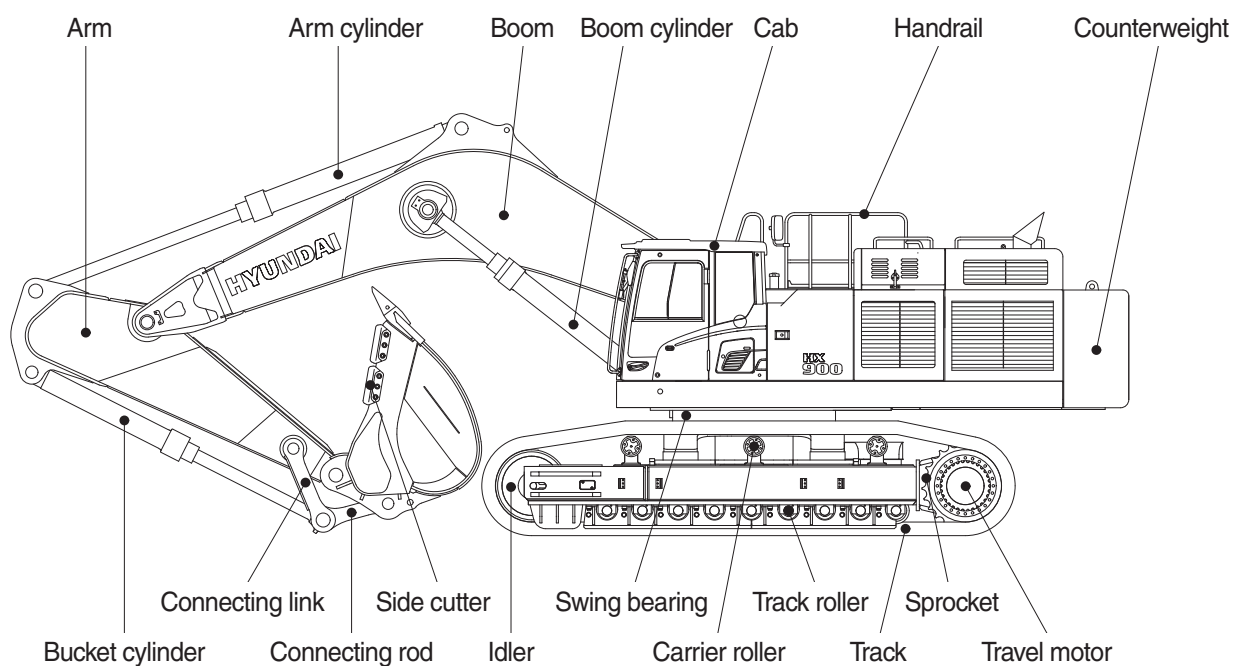
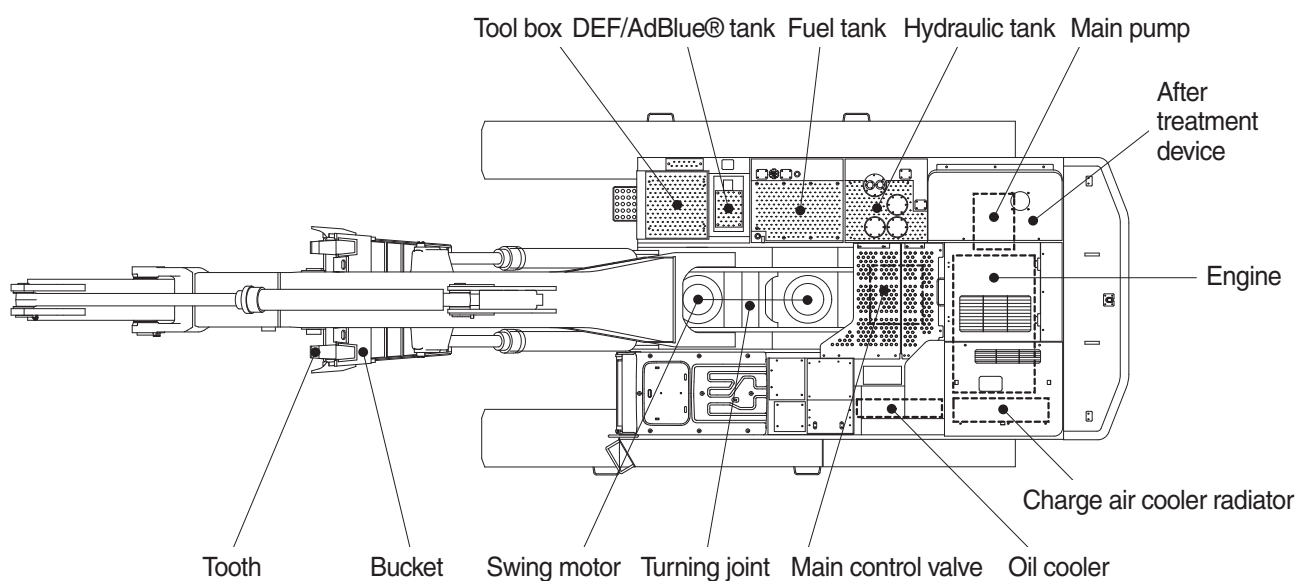


SPECIFICATIONS

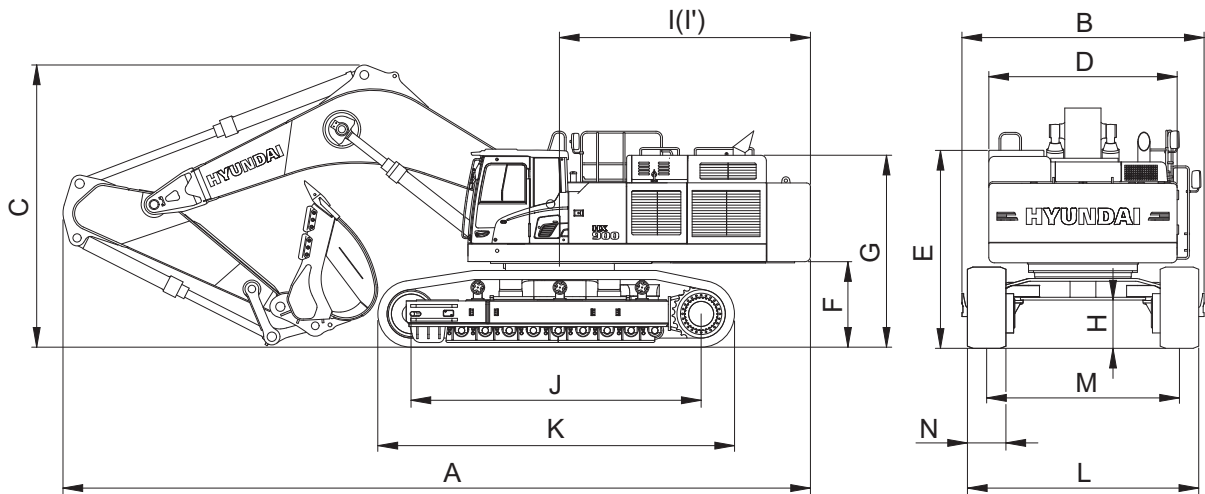
1. MAJOR COMPONENT



900F2SP01

2. SPECIFICATIONS

1) 7.20 m (23' 7") BOOM, 2.95 m (9' 8") ARM

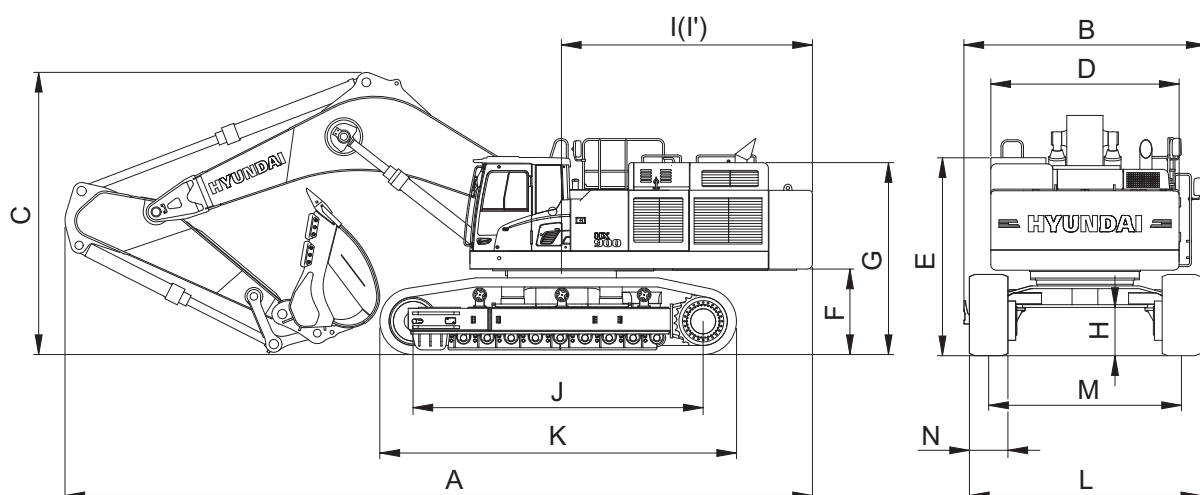


900F2SP03

Description		Unit	Specification
Operating weight		kg (lb)	88800 (195770) <89400 (197090)>
Bucket capacity (SAE heaped), standard		m ³ (yd ³)	4.85 (6.34)
Overall length	A	mm (ft-in)	13580 (44' 7")
Overall width, with 700 mm shoe	B		3775/4495 (12' 5"/14' 9")
Overall height	C		5380 (17' 8")
Superstructure width	D		3420 (11' 3")
Overall height of cab	E		3620 (11' 11") <4630 (15' 2")>
Ground clearance of counterweight	F		1615 (5' 4")
Engine cover height	G		3500 (11' 6")
Minimum ground clearance	H		925 (3' 0")
Rear-end distance	I		4550 (14' 11")
Rear-end swing radius	I'		4645 (15' 3")
Distance between tumblers	J		5130 (16' 10")
Undercarriage length	K		6445 (21' 2")
Undercarriage width	L		4200 (13' 9")
Track gauge	M		3500 (11' 6")
Track shoe width, standard	N		700 (28")
Travel speed (low/high)		km/hr (mph)	2.4/3.5 (1.5/2.2)
Swing speed		rpm	6.2
Gradeability		Degree (%)	35 (70)
Ground pressure (700 mm shoe)		kgf/cm ² (psi)	1.14 (16.3)
Max traction force		kg (lb)	66800 (147270)

< > : Cabin riser

2) 8.20 m (26' 11") BOOM, 3.60 m (11' 10") ARM



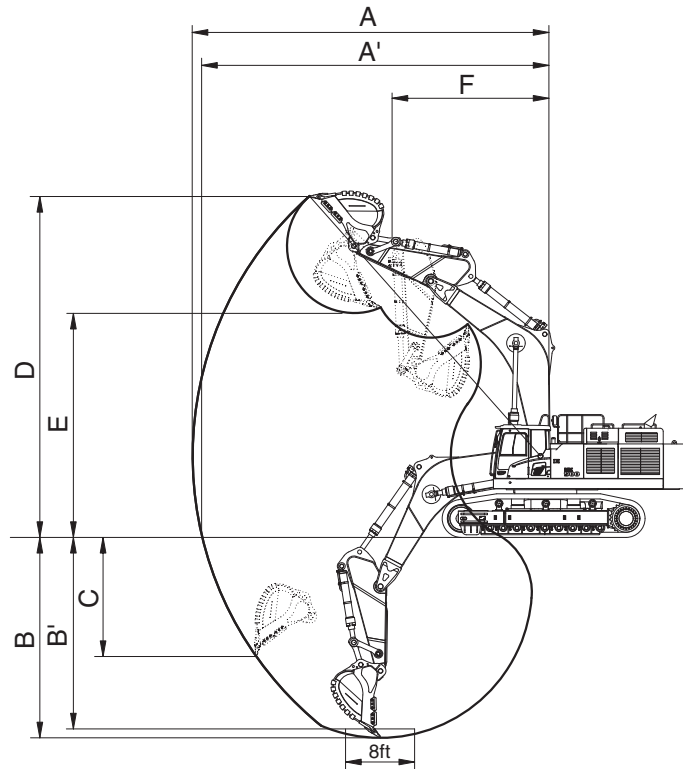
900F2SP03

Description		Unit	Specification
Operating weight		kg (lb)	88900 (195990) <89500 (197310)>
Bucket capacity (SAE heaped), standard		m ³ (yd ³)	3.6 (4.71)
Overall length	A	mm (ft-in)	14380 (47' 2")
Overall width, with 700 mm shoe	B		3775/4495 (12' 5"/14' 9")
Overall height	C		5180 (17' 0")
Superstructure width	D		3420 (11' 3")
Overall height of cab	E		3620 (11' 11") <4630 (15' 2")>
Ground clearance of counterweight	F		1615 (5' 4")
Engine cover height	G		3500 (11' 6")
Minimum ground clearance	H		925 (3' 0")
Rear-end distance	I		4550 (14' 11")
Rear-end swing radius	I'		4645 (15' 3")
Distance between tumblers	J		5130 (16' 10")
Undercarriage length	K		6445 (21' 2")
Undercarriage width	L		4200 (13' 9")
Track gauge	M		3500 (11' 6")
Track shoe width, standard	N		700 (28")
Travel speed (low/high)		km/hr (mph)	2.4/3.5 (1.5/2.2)
Swing speed		rpm	6.2
Gradeability		Degree (%)	35 (70)
Ground pressure (700 mm shoe)		kgf/cm ² (psi)	1.14 (16.3)
Max traction force		kg (lb)	66800 (147270)

< > : Cabin riser

3. WORKING RANGE

1) 7.20 m (23' 7") BOOM

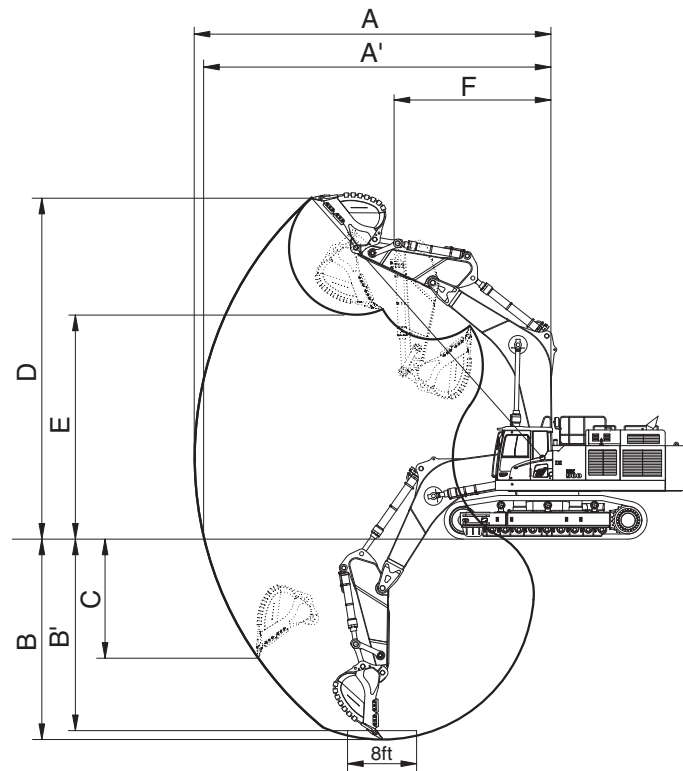


900F2SP04

Description		2.95 m (9' 8") Arm
Max digging reach	A	12300 mm (40' 4")
Max digging reach on ground	A'	12020 mm (39' 5")
Max digging depth	B	7230 mm (23' 9")
Max digging depth (8ft level)	B'	7090 mm (23' 3")
Max vertical wall digging depth	C	4370 mm (14' 4")
Max digging height	D	11910 mm (39' 1")
Max dumping height	E	7800 mm (25' 7")
Min swing radius	F	5100 mm (16' 9")
Bucket digging force	SAE	385.4 [420.4] kN
		39300 [42870] kgf
		86640 [94510] lbf
	ISO	439.3 [479.3] kN
		44800 [48870] kgf
		98770 [107740] lbf
Arm crowd force	SAE	372.7 [406.5] kN
		38000 [41450] kgf
		83780 [91380] lbf
	ISO	387.4 [422.6] kN
		39500 [43090] kgf
		87080 [95000] lbf

[] : Power boost

2) 8.20 m (26' 11") BOOM



900F2SP05

Description		2.95 m (9' 8") Arm	3.60 m (11' 10") Arm	4.40 m (14' 5") Arm
Max digging reach	A	13360 mm (43' 10")	13920 mm (45' 8")	14670 mm (48' 2")
Max digging reach on ground	A'	13090 mm (42' 11")	13670 mm (44' 10")	14430 mm (47' 4")
Max digging depth	B	8160 mm (26' 9")	8810 mm (28' 11")	9610 mm (31' 6")
Max digging depth (8ft level)	B'	8020 mm (26' 4")	8680 mm (28' 6")	9500 mm (31' 2")
Max vertical wall digging depth	C	5250 mm (17' 3")	6000 mm (19' 8")	6670 mm (21' 11")
Max digging height	D	12630 mm (41' 5")	12780 mm (41' 11")	13190 mm (43' 3")
Max dumping height	E	8490 mm (27' 10")	8690 mm (28' 6")	9030 mm (29' 8")
Min swing radius	F	5930 mm (19' 5")	5970 mm (19' 7")	5970 mm (19' 7")
Bucket digging force	SAE	385.4 [420.4] kN	334.4 [364.8] kN	334.4 kN
		39300 [42870] kgf	34100 [37200] kgf	34100 kgf
		86640 [94510] lbf	75180 [82010] lbf	75180 lbf
	ISO	439.3 [479.3] kN	381.5 [416.2] kN	381.5 kN
		44800 [48870] kgf	38900 [42440] kgf	38900 kgf
		98770 [107740] lbf	85760 [93560] lbf	85760 lbf
Arm crowd force	SAE	372.7 [406.5] kN	307.9 [335.9] kN	266.7 kN
		38000 [41450] kgf	31400 [34250] kgf	27200 kgf
		83780 [91380] lbf	69230 [75510] lbf	59970 lbf
	ISO	387.4 [422.6] kN	319.7 [348.7] kN	274.6 kN
		39500 [43090] kgf	32600 [35560] kgf	28000 kgf
		87080 [95000] lbf	71870[78400] lbf	61730 lbf

[] : Power boost

4. WEIGHT

Item	HX900 L	
	kg	lb
Upperstructure assembly	30630	67530
Main frame weld assembly	7548	16640
Engine assembly	1490	3280
Main pump assembly	300	660
Main control valve assembly	424	930
Swing motor assembly	548	1210
Hydraulic oil tank assembly	706	1556
Fuel tank assembly	600	1323
Counterweight	13600	29980
Cab assembly	490	1080
Cab riser assy	600	1320
Lower chassis assembly	34790	76700
Track frame weld assembly	12809	28240
Swing bearing	1304	2875
Travel motor assembly	935	2060
Turning joint	75	165
Track recoil spring and tension body	742	1636
Idler	567	1250
Sprocket	240	530
Carrier roller	75	165
Track roller	199	439
Track-chain assembly (700 mm standard triple grouser shoe)	5038	11110
Front attachment assembly (7.20 m boom, 2.95 m arm, 4.85 m ³ SAE heaped bucket)	23380	51540
7.20 m boom assembly	7650	16870
8.20 m boom assembly	8220	18120
2.95 m arm assembly	3430	7560
3.60 m arm assembly	3770	8310
3.60 m ³ SAE heaped bucket	4620	10190
4.85 m ³ SAE heaped bucket	5420	11950
Boom cylinder assembly	862	1906
Arm cylinder assembly	1087	2400
Bucket cylinder assembly	754	1662
Bucket control linkage total	480	1060

5. LIFTING CAPACITIES

Unit : mm

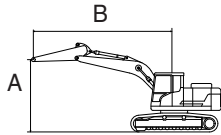
Model	Boom	Boom	Arm	Counterweight	Shoe	Dozer		Outrigger	
	Type	Length	Length	Weight (kg)	Width	Front	Rear	Front	Rear
HX900 L	Mono	7200	2950	13600	700	-	-	-	-



: Rating over-front



: Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)										At max. reach		
		3.0m (9.8ft)		4.5m (14.8ft)		6.0m (19.7ft)		7.5m (24.6ft)		9.0m (29.5ft)		Capacity		Reach
														m (ft)
9.0 m	kg							*22440	*22440			*20960	*20960	7.63
29.5 ft	lb							*49470	*49470			*46210	*46210	(25.0)
7.5 m	kg							*23970	*23970			*20020	19150	8.68
24.6 ft	lb							*52840	*52840			*44140	42220	(28.5)
6.0 m	kg			*38200	*38200	*29660	*29660	*24980	23980	*22110	17750	*19840	16520	9.38
19.7 ft	lb			*84220	*84220	*65390	*65390	*55070	52870	*48740	39130	*43740	36420	(30.8)
4.5 m	kg					*32700	32410	*26400	22960	*22560	17270	*20240	15040	9.79
14.8 ft	lb					*72090	71450	*58200	50620	*49740	38070	*44620	33160	(32.1)
3.0 m	kg					*35050	30510	*27590	21940	*22980	16720	*20640	14300	9.96
9.8 ft	lb					*77270	67260	*60830	48370	*50660	36860	*45500	31530	(32.7)
1.5 m	kg					*35620	29250	*28010	21130	*22900	16250	*20260	14160	9.90
4.9 ft	lb					*78530	64490	*61750	46580	*50490	35830	*44670	31220	(32.5)
0.0 m	kg					*34230	28650	*27230	20640	*21890	15960	*19740	14610	9.60
0.0 ft	lb					*75460	63160	*60030	45500	*48260	35190	*43520	32210	(31.5)
-1.5 m	kg			*37480	*37480	*31020	28520	*24890	20490	*19060	15960	*18860	15870	9.04
-4.9 ft	lb			*82630	*82630	*68390	62880	*54870	45170	*42020	35190	*41580	34990	(29.7)
-3.0 m	kg			*30370	*30370	*25700	*25700	*20210	*20210			*17140	*17140	8.17
-9.8 ft	lb			*66950	*66950	*56660	*56660	*44560	*44560			*37790	*37790	(26.8)
-4.5 m	kg			*19940	*19940	*16840	*16840					*13310	*13310	6.86
-14.8 ft	lb			*43960	*43960	*37130	*37130					*29340	*29340	(22.5)

※ Note

1. Lifting capacity are based on SAE J1097 and ISO 10567.
2. Lifting capacity of the ROBEX 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.

Unit : mm

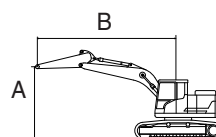
Model	Boom	Boom	Arm	Counterweight	Shoe	Dozer		Outrigger	
	Type	Length	Length	Weight (kg)	Width	Front	Rear	Front	Rear
HX900 L	Mono	8200	2950	13600	700	-	-	-	-



: Rating over-front



: Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)														At max. reach		
		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		9.0 m (30.0 ft)		10.5 m (34.0 ft)		12.0 m (39.0 ft)		Capacity		Reach
																		m (ft)
10.5 m	kg							*21570	*21570							*21500	*21500	7.67
34.4 ft	lb							*47550	*47550							*47400	*47400	(25.2)
9.0 m	kg															*19770	18110	8.98
29.5 ft	lb															*43590	39930	(29.5)
7.5 m	kg							*21980	*21980	*19660	17890					*18850	15090	9.89
24.6 ft	lb							*48460	*48460	*43340	39440					*41560	33270	(32.4)
6.0 m	kg					*28820	*28820	*23450	23140	*20270	17330					*18290	13330	10.50
19.7 ft	lb					*63540	*63540	*51700	51010	*44690	38210					*40320	29390	(34.4)
4.5 m	kg							*25090	21870	*21060	16630	*18440	13030			*17920	12280	10.87
14.8 ft	lb							*55310	48220	*46430	36660	*40650	28730			*39510	27070	(35.7)
3.0 m	kg							*26350	20720	*21720	15950	*18600	12660			*17650	11730	11.02
9.8 ft	lb							*58090	45680	*47880	35160	*41010	27910			*38910	25860	(36.2)
1.5 m	kg							*26780	19910	*21950	15400	*18450	12350			*17400	11600	10.96
4.9 ft	lb							*59040	43890	*48390	33950	*40680	27230			*38360	25570	(36.0)
0.0 m	kg							*26210	19460	*21510	15060	*17640	12180			*17070	11880	10.70
0.0 ft	lb							*57780	42900	*47420	33200	*38890	26850			*37630	26190	(35.1)
-1.5 m	kg					*29630	27100	*24560	19330	*20120	14960					*16540	12690	10.20
-4.9 ft	lb					*65320	59750	*54150	42620	*44360	32980					*36460	27980	(33.5)
-3.0 m	kg			*28720	*28720	*25840	*25840	*21630	19500	*17200	15150					*15550	14290	9.44
-9.8 ft	lb			*63320	*63320	*56970	*56970	*47690	42990	*37920	33400					*34280	31500	(31.0)
-4.5 m	kg			*22220	*22220	*20270	*20270	*16600	*16600							*13570	*13570	8.33
-14.8 ft	lb			*48990	*48990	*44690	*44690	*36600	*36600							*29920	*29920	(27.3)
-6.0 m	kg																	
-19.7 ft	lb																	

Unit : mm

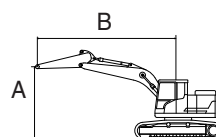
Model	Boom	Boom	Arm	Counterweight	Shoe	Dozer		Outrigger	
	Type	Length	Length	Weight (kg)	Width	Front	Rear	Front	Rear
HX900 L	Mono	8200	3600	13600	700	-	-	-	-



: Rating over-front



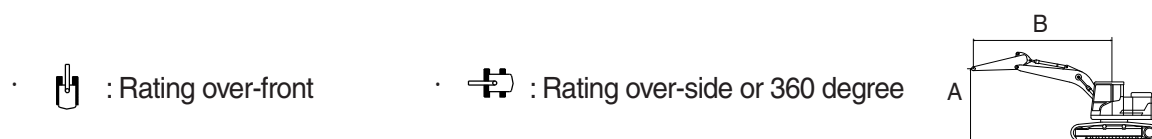
: Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)														At max. reach		
		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		9.0 m (30.0 ft)		10.5 m (34.0 ft)		12.0 m (39.0 ft)		Capacity		Reach
																		m (ft)
10.5 m	kg															*14300	*14300	8.47
34.4 ft	lb															*31530	*31530	(27.8)
9.0 m	kg									*17910	*17910					*13440	*13440	9.67
29.5 ft	lb									*39480	*39480					*29630	*29630	(31.7)
7.5 m	kg									*18750	18280	*13220	*13220			*13070	*13070	10.51
24.6 ft	lb									*41340	40300	*29150	*29150			*28810	*28810	(34.5)
6.0 m	kg					*27270	*27270	*22480	*22480	*19540	17690	*17600	13630			*13040	12320	11.09
19.7 ft	lb					*60120	*60120	*49560	*49560	*43080	39000	*38800	30050			*28750	27160	(36.4)
4.5 m	kg					*30770	*30770	*24320	22430	*20510	16960	*18000	13240			*13300	11420	11.44
14.8 ft	lb					*67840	*67840	*53620	49450	*45220	37390	*39680	29190			*29320	25180	(37.5)
3.0 m	kg					*33410	29230	*25890	21200	*21390	16230	*18380	12820			*13850	10930	11.59
9.8 ft	lb					*73660	64440	*57080	46740	*47160	35780	*40520	28260			*30530	24100	(38.0)
1.5 m	kg					*34260	27890	*26730	20260	*21890	15610	*18500	12440			*14740	10790	11.53
4.9 ft	lb					*75530	61490	*58930	44670	*48260	34410	*40790	27430			*32500	23790	(37.8)
0.0 m	kg					*33450	27280	*26620	19660	*21790	15180	*18130	12180			*16110	11000	11.28
0.0 ft	lb					*73740	60140	*58690	43340	*48040	33470	*39970	26850			*35520	24250	(37.0)
-1.5 m	kg			*23630	*23630	*31380	27120	*25470	19400	*20860	14960	*16900	12090			*15970	11640	10.81
-4.9 ft	lb			*52100	*52100	*69180	59790	*56150	42770	*45990	32980	*37260	26650			*35210	25660	(35.5)
-3.0 m	kg	*24830	*24830	*33260	*33260	*28120	27280	*23140	19430	*18760	15000					*15350	12900	10.09
-9.8 ft	lb	*54740	*54740	*73330	*73330	*61990	60140	*51010	42840	*41360	33070					*33840	28440	(33.1)
-4.5 m	kg			*26990	*26990	*23290	*23290	*19160	*19160	*14380	*14380					*14080	*14080	9.07
-14.8 ft	lb			*59500	*59500	*51350	*51350	*42240	*42240	*31700	*31700					*31040	*31040	(29.8)
-6.0 m	kg					*15890	*15890	*11750	*11750							*11240	*11240	7.62
-19.7 ft	lb					*35030	*35030	*25900	*25900							*24780	*24780	(25.0)

Unit : mm

Model	Boom	Boom	Arm	Counterweight	Shoe	Dozer		Outrigger	
	Type	Length	Length	Weight (kg)	Width	Front	Rear	Front	Rear
HX900 L	Mono	8200	4400	16500	700	-	-	-	-

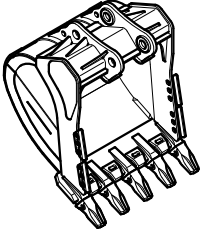
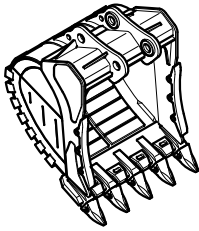
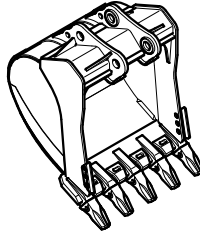
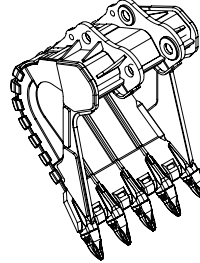


Lift-point height (A)		Lift-point radius (B)																At max. reach		
		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0ft)		7.5 m (25.0 ft)		9.0 m (30.0 ft)		10.5 m (34.0 ft)		12.0 m (39.0 ft)		Capacity		Reach		
																		m (ft)		
10.5m	kg																	*14300	*14300	8.47
34.4ft	lb																	*31530	*31530	(27.8)
9.0m	kg									*17910	*17910							*13440	*13440	9.67
29.5ft	lb									*39480	*39480							*29630	*29630	(31.7)
7.5m	kg									*18750	18280	*13220	*13220					*13070	*13070	10.51
24.6ft	lb									*41340	40300	*29150	*29150					*28810	*28810	(34.5)
6.0m	kg					*27270	*27270	*22480	*22480	*19540	17690	*17600	13630					*13040	12320	11.09
19.7ft	lb					*60120	*60120	*49560	*49560	*43080	39000	*38800	30050					*28750	27160	(36.4)
4.5m	kg					*30770	*30770	*24320	22430	*20510	16960	*18000	13240					*13300	11420	11.44
14.8ft	lb					*67840	*67840	*53620	49450	*45220	37390	*39680	29190					*29320	25180	(37.5)
3.0m	kg					*33410	29230	*25890	21200	*21390	16230	*18380	12820					*13850	10930	11.59
9.8ft	lb					*73660	64440	*57080	46740	*47160	35780	*40520	28260					*30530	24100	(38.0)
1.5m	kg					*34260	27890	*26730	20260	*21890	15610	*18500	12440					*14740	10790	11.53
4.9ft	lb					*75530	61490	*58930	44670	*48260	34410	*40790	27430					*32500	23790	(37.8)
0.0m	kg					*33450	27280	*26620	19660	*21790	15180	*18130	12180					*16110	11000	11.28
0.0ft	lb					*73740	60140	*58690	43340	*48040	33470	*39970	26850					*35520	24250	(37.0)
-1.5m	kg			*23630	*23630	*31380	27120	*25470	19400	*20860	14960	*16900	12090					*15970	11640	10.81
-4.9ft	lb			*52100	*52100	*69180	59790	*56150	42770	*45990	32980	*37260	26650					*35210	25660	(35.5)
-3.0m	kg	*24830	*24830	*33260	*33260	*28120	27280	*23140	19430	*18760	15000							*15350	12900	10.09
-9.8ft	lb	*54740	*54740	*73330	*73330	*61990	60140	*51010	42840	*41360	33070							*33840	28440	(33.1)
-4.5m	kg			*26990	*26990	*23290	*23290	*19160	*19160	*14380	*14380							*14080	*14080	9.07
-14.8ft	lb			*59500	*59500	*51350	*51350	*42240	*42240	*31700	*31700							*31040	*31040	(29.8)
-6.0m	kg					*15890	*15890	*11750	*11750									*11240	*11240	7.62
-19.7ft	lb					*35030	*35030	*25900	*25900									*24780	*24780	(25.0)

6. BUCKET SELECTION GUIDE

1) HX900 L

(1) HEAVY DUTY AND ROCK-HEAVY DUTY BUCKET

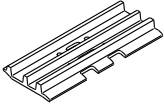
			
◇ Heavy duty	◆ Rock-heavy duty	◆ Light-heavy duty	★ Rock-special heavy duty (Cubic marble handling)

Capacity		Width	Weight	Tooth	Recommendation			
					7.2 m (23' 7") boom	8.2 m (26' 11") boom		
					2.95 m (9' 8") arm	2.95 m (9' 8") arm	3.6 m (11' 10") arm	4.4 m (14' 5") arm
◇ 3.70 m ³ (4.84 yd ³)	3.30 m ³ (4.32 yd ³)	1845 mm (72.6")	4370 kg (9630 lb)	4 EA	●	◐	■	■
◇ 4.25 m ³ (5.56 yd ³)	3.75 m ³ (4.90 yd ³)	2045 mm (80.5")	4730 kg (10430 lb)	5 EA	●	■	▲	▲
◇ 4.85 m ³ (6.34 yd ³)	4.25 m ³ (5.56 yd ³)	2245mm (88.4")	5000 kg (11020 lb)	5 EA	◐	▲	▲	▲
◇ 5.40 m ³ (7.06 yd ³)	4.75 m ³ (6.21 yd ³)	2445mm (96.3")	5275 kg (11630 lb)	5 EA	■			
◇ 5.80 m ³ (7.59 yd ³)	5.05 m ³ (6.61 yd ³)	2585mm (101.8")	5555 kg (12250 lb)	6 EA	▲			
◆ 3.70 m ³ (4.84 yd ³)	3.30 m ³ (4.32 yd ³)	1845mm (72.6")	4850 kg (10690 lb)	4 EA	●	◐	■	■
◆ 4.25 m ³ (5.56 yd ³)	3.75 m ³ (4.90 yd ³)	2045mm (80.5")	5235 kg (11540 lb)	5 EA	◐	■	▲	▲
◆ 4.85 m ³ (6.34 yd ³)	4.25 m ³ (5.56 yd ³)	2245mm (88.4")	5530 kg (12190 lb)	5 EA	■	▲		
◆ 5.40 m ³ (7.06 yd ³)	4.75 m ³ (6.21 yd ³)	2445mm (96.3")	5830 kg (12850 lb)	5 EA	■			
◆ 4.25 m ³ (5.56 yd ³)	3.75 m ³ (4.90 yd ³)	2045mm (80.5")	4150 kg (9150 lb)	5 EA	●	■	■	■
★ 3.60 m ³ (4.71 yd ³)	3.10 m ³ (4.05 yd ³)	1920mm (75.6")	4600 kg (10140 lb)	5 EA	●	◐	■	■

- ▲ Applicable for materials with density of 1200 kg/m³ (2000 lb/yd³) or less
- Applicable for materials with density of 1500 kg/m³ (2500 lb/yd³) or less
- ◐ Applicable for materials with density of 1800 kg/m³ (3000 lb/yd³) or less
- Applicable for materials with density of 2100 kg/m³ (3500 lb/yd³) or less

7. UNDERCARRIAGE

1) TRACKS

Model	Shapes		Double grouser		
					
HX900 L	Shoe width	mm (in)	700 (28)	800 (32)	900 (36)
	Operating weight	kg (lb)	88900 (195990)	89720 (197800)	90540 (199610)
	Ground pressure	kgf/cm ² (psi)	1.14 (16.3)	1.01 (14.4)	0.91 (12.9)
	Overall width	mm (in)	4200 (13' 9")	4300 (14' 1")	4400 (14' 5")

2) NUMBER OF ROLLERS AND SHOES ON EACH SIDE

Item	Quantity
Carrier rollers	3 EA
Track rollers	9 EA
Track shoes	52 EA

3) 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
700 mm triple grouser	Option	A
800 mm triple grouser	Option	B
900 mm triple grouser	Option	C

※ **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
C	Extremely soft ground (swampy ground)	· Use the shoes only in the conditions that the machine sinks and it is impossible to use the shoes of category A or B · 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	Scania DC16 084A
Type	Eco-friendly, 4-cycle turbocharged charger air cooled diesel engine
Cooling method	Water cooling
Number of cylinders and arrangement	8 cylinders
Firing order	1-5-4-2-6-3-7-8
Combustion chamber type	Direct injection type
Cylinder bore × stroke	130 × 154 mm (5.12" × 6.1")
Piston displacement	16400 cc (1000 cu in)
Compression ratio	17.4 : 1
Rated horse power	641 Hp at 2100 rpm (478 kW at 2100 rpm)
Maximum torque	321 kgf · m (2322 lbf · ft) at 1350 rpm
Engine oil quantity	49 ℓ (12.9 U.S. gal)
Dry weight	1490 kg (3280 lb)
Low idling speed	850 ± 100 rpm
High idling speed	1750 ± 50 rpm
Rated fuel consumption	155 g/Hp · hr at 1800 rpm
Starting motor	24V-7kW
Alternator	24V-100A
Battery	4 × 12V × 160Ah

2) MAIN PUMP

Item	Specification
Type	Variable displacement axial piston pumps
Capacity	2 × 280 cc/rev
Maximum pressure	330 kgf/cm ² (4690 psi) [360 kgf/cm ² (5120 psi)]
Rated oil flow	2 × 504 ℓ /min (133.1 U.S. gpm / 110.9 U.K. gpm)
Rated speed	1800 rpm

[] : Power boost

3) GEAR PUMP

Item	Specification
Type	Fixed displacement gear pump single stage
Capacity	15 cc/rev
Maximum pressure	40 kgf/cm ² (570 psi)
Rated oil flow	27 ℓ /min (7.1 U.S. gpm/5.9 U.K. gpm)

4) MAIN CONTROL VALVE

Item	Specification
Type	9 spools
Operating method	Hydraulic pilot system
Main relief valve pressure	330 kgf/cm ² (4690 psi) [360 kgf/cm ² (5120 psi)]
Port relief valve pressure	380 kgf/cm ² (5400 psi)

[] : Power boost

5) SWING MOTOR

Item	Specification
Type	Fixed displacement axial piston motor
Capacity	250cc/rev
Relief pressure	300 kgf/cm ² (3360 psi)
Braking system	Automatic, spring applied hydraulic released
Braking torque	165.2 kgf · m (1195 lbf · ft) over
Brake release pressure	33.7~50 kgf/cm ² (479~711 psi)
Reduction gear type	2 - stage planetary

6) TRAVEL MOTOR

Item	Specification
Type	Axial piston motor
Relief pressure	350 kgf/cm ² (4980 psi)
Capacity (max / min)	337.2/228.6 cc/rev
Reduction gear type	3-stage planetary
Braking system	Automatic, spring applied hydraulic released
Brake release pressure	18 kgf/cm ² (256 psi) below
Braking torque	114 kgf · m (825 lbf · ft) over

7) CYLINDER

Item		Specification
Boom cylinder	Bore dia × Rod dia × Stroke	Ø215 × Ø150 × 1935 mm
	Cushion	Extend only
Arm cylinder	Bore dia × Rod dia × Stroke	Ø225 × Ø160 × 2290 mm
	Cushion	Extend and retract
Bucket cylinder	Bore dia × Rod dia × Stroke	Ø215 × Ø150 × 1593 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
HX900 L	Standard	★700 mm (28")	1.14 kgf/cm ² (16.3 psi)	52	4200 mm (13' 9")
	Option	★800 mm (32")	1.01 kgf/cm ² (14.4 psi)	52	4300 mm (14' 1")
		★900 mm (36")	0.91 kgf/cm ² (12.9 psi)	52	4400 mm (14' 5")

★ : Double grouser

9) BUCKET

Item	Capacity		Tooth quantity	Width
	SAE heaped	CECE heaped		
HX900 L	◇3.70 m ³ (4.84 yd ³)	3.30 m ³ (4.32 yd ³)	4	1845 mm (72.6")
	◇4.25 m ³ (5.56 yd ³)	3.75 m ³ (4.90 yd ³)	5	2045 mm (80.5")
	◇4.85 m ³ (6.34 yd ³)	4.25 m ³ (5.56 yd ³)	5	2245mm (88.4")
	◇5.40 m ³ (7.06 yd ³)	4.75 m ³ (6.21 yd ³)	5	2445mm (96.3")
	◇5.80 m ³ (7.59 yd ³)	5.05 m ³ (6.61 yd ³)	6	2585mm (101.8")
	◆3.70 m ³ (4.84 yd ³)	3.30 m ³ (4.32 yd ³)	4	1845mm (72.6")
	◆4.25 m ³ (5.56 yd ³)	3.75 m ³ (4.90 yd ³)	5	2045mm (80.5")
	◆4.85 m ³ (6.34 yd ³)	4.25 m ³ (5.56 yd ³)	5	2245mm (88.4")
	◆5.40 m ³ (7.06 yd ³)	4.75 m ³ (6.21 yd ³)	5	2445mm (96.3")
	◆4.25 m ³ (5.56 yd ³)	3.75 m ³ (4.90 yd ³)	5	2045mm (80.5")
	★3.60 m ³ (4.71 yd ³)	3.10 m ³ (4.05 yd ³)	5	1920mm (75.6")

◇ : Heavy duty

◆ : Rock-heavy duty

◆ : Light-heavy duty

★ : Rock-special heavy duty (Cubic marble handling)

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	49 (12.9)	★SAE 5W-40								
								SAE 30			
				SAE 10W							
			SAE 10W-30								
				SAE 15W-40							
DEF/AdBlue® tank	Mixture of urea and deionized water	69 (18.2)	ISO 22241, High-purity urea + deionized water (32.5:67.5)								
Swing drive	Gear oil	14×2 (3.7×2)	★SAE 85W-140 (GL-4)								
Final drive		20×2 (5.3×2)		SAE 80W-90 (GL-5)							
Hydraulic tank	Hydraulic oil	Tank : 450 (119)	★ISO VG 15								
			ISO VG 32								
		System : 940 (248)		ISO VG 46, HBHO VG 46 ★ ³							
				ISO VG 68							
Fuel tank	Diesel fuel★ ¹	1110 (293)	★ASTM D975 NO.1					ASTM D975 NO.2			
Track roller	Gear oil	1.56 (0.41)	★SAE 75W-90								
Carrier roller		0.6 (0.16)		SAE 85W-140							
Idler		1.1 (0.29)									
Fitting (grease nipple)	Grease	As required	★NLGI NO.1								
				NLGI NO.2							
Radiator (reservoir tank)	Mixture of antifreeze and soft water★ ²	70 (18.5)	Ethylene glycol base permanent type (50 : 50)								
			★Ethylene glycol base permanent type (60 : 40)								

SAE : Society of Automotive Engineers

API : American Petroleum Institute

ISO : International Organization for Standardization

NLGI : National Lubricating Grease Institute

ASTM : American Society of Testing and Material

DEF : Diesel Exhaust Fluid, DEF compatible with AdBlue®

★ : Cold region (Russia, CIS, Mongolia)

★¹ : Ultra low sulfur diesel
- sulfur content ≤ 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.