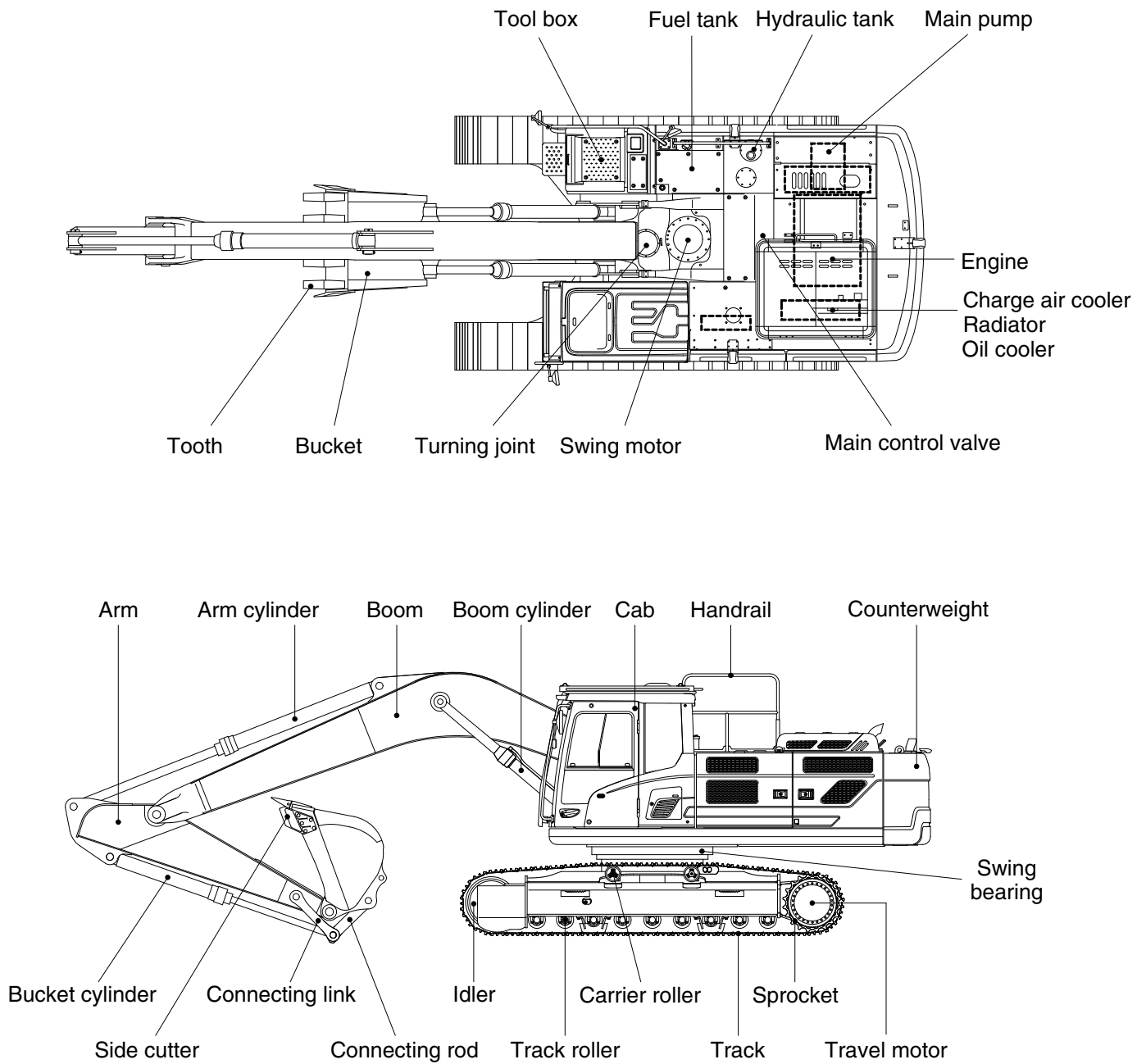


SPECIFICATIONS

1. MAJOR COMPONENT

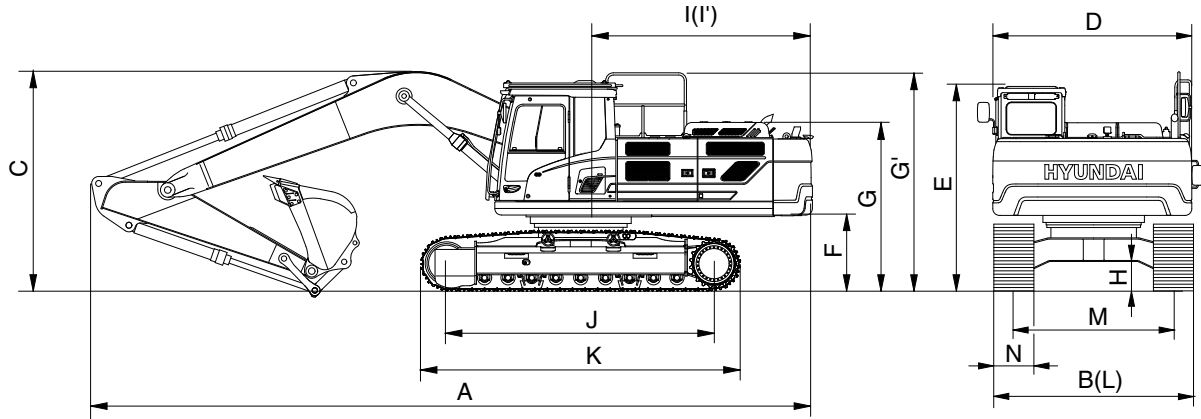


340S2SP01

2. SPECIFICATIONS

1) HX340HD

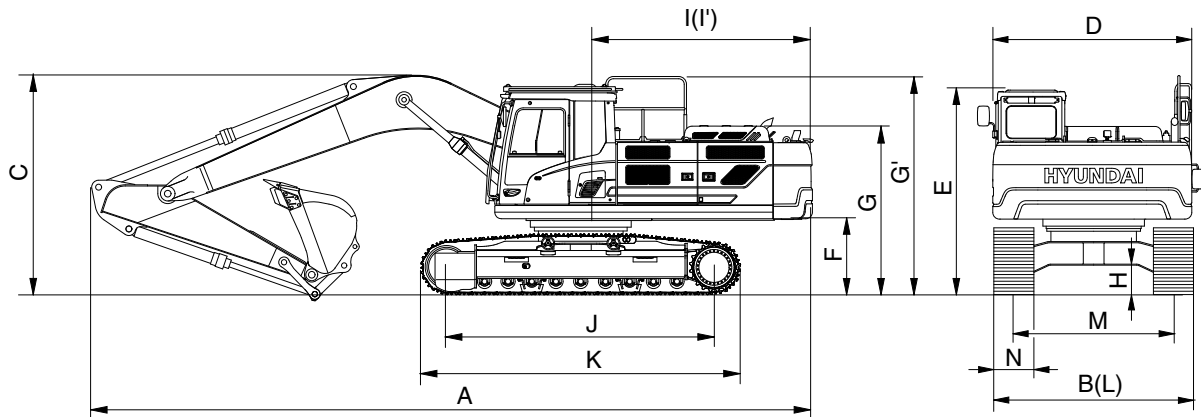
(1) 6.45 m (21' 2") boom and 3.20 m (10' 6") arm



330S2SP02

Description		Unit	Specification
Operating weight		kg (lb)	33000 (72750)
Bucket capacity (SAE heaped), standard		m ³ (yd ³)	1.74 (2.28)
Overall length	A	mm (ft-in)	11220 (36' 10")
Overall width, with 600 mm shoe	B		3280 (10' 9")
Overall height of boom	C		3360 (11' 0")
Superstructure width	D		2980 (9' 9")
Overall height of cab	E		3145 (10' 4")
Ground clearance of counterweight	F		1200 (3' 11")
Overall height of engine hood	G		2672 (8' 9")
Overall height of handrail	G'		3350 (11' 0")
Minimum ground clearance	H		500 (1' 8")
Rear-end distance	I		3510 (11' 6")
Rear-end swing radius	I'		3570 (11' 9")
Distance between tumblers	J		4030 (13' 3")
Undercarriage length	K		4940 (16' 2")
Undercarriage width	L		3280 (10' 9")
Track gauge	M		2680 (8' 10")
Track shoe width, standard	N		600 (24")
Travel speed (low/high)		km/hr (mph)	3.6/6.4 (2.11/3.98)
Swing speed		rpm	11.2
Gradeability		Degree (%)	35 (70)
Ground pressure (600 mm shoe)		kgf/cm ² (psi)	0.64 (9.03)
Max traction force		kg (lb)	29500 (65030)

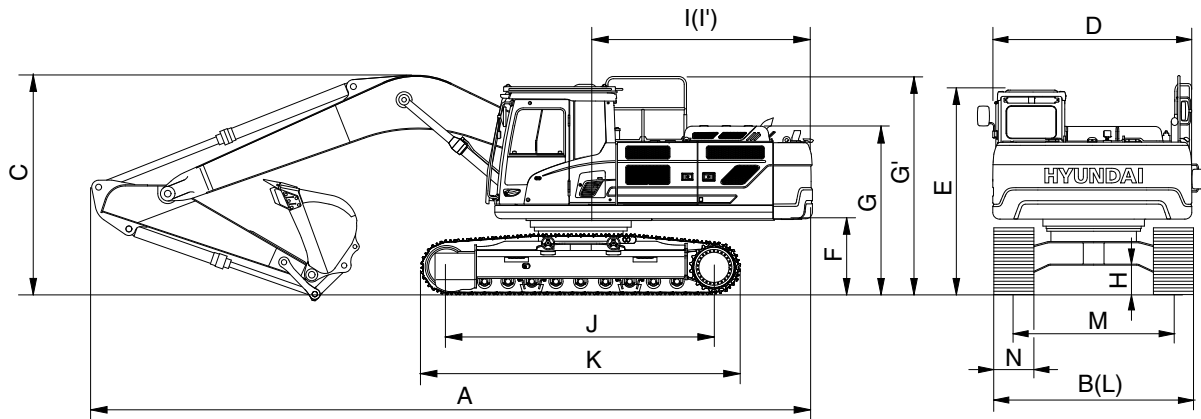
(2) 6.15 m (20' 2") boom and 2.2 m (7' 3") arm



330S2SP02

Description		Unit	Specification
Operating weight		kg (lb)	32806 (72325)
Bucket capacity (SAE heaped), standard		m ³ (yd ³)	1.44 (1.88)
Overall length	A	mm (ft-in)	11170 (36' 8")
Overall width, with 600 mm shoe	B		3280 (10' 9")
Overall height of boom	C		3680 (12' 1")
Superstructure width	D		2980 (9' 9")
Overall height of cab	E		3145 (10' 4")
Ground clearance of counterweight	F		1200 (3' 11")
Overall height of engine hood	G		2672 (8' 9")
Overall height of handrail	G'		3350 (11' 0")
Minimum ground clearance	H		500 (1' 8")
Rear-end distance	I		3510 (11' 6")
Rear-end swing radius	I'		3570 (11' 9")
Distance between tumblers	J		4030 (13' 3")
Undercarriage length	K		4940 (16' 2")
Undercarriage width	L		3280 (10' 9")
Track gauge	M		2680 (8' 10")
Track shoe width, standard	N		600 (24")
Travel speed (low/high)		km/hr (mph)	3.6/6.4 (2.11/3.98)
Swing speed		rpm	11.2
Gradeability		Degree (%)	35 (70)
Ground pressure (600 mm shoe)		kgf/cm ² (psi)	0.64 (9.03)
Max traction force		kg (lb)	29500 (65030)

(2) 6.15 m (20' 2") boom and 2.5 m (8' 2") arm

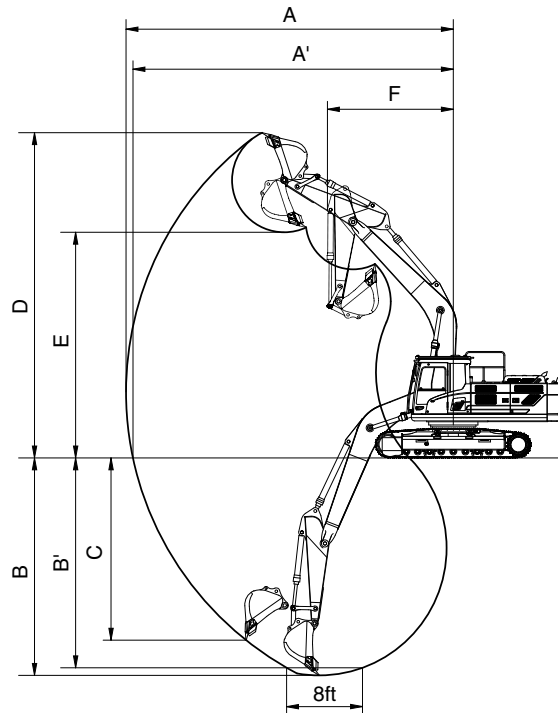


330S2SP02

Description		Unit	Specification
Operating weight		kg (lb)	33000 (72750)
Bucket capacity (SAE heaped), standard		m ³ (yd ³)	2.30(3.01)
Overall length	A	mm (ft-in)	11040(36' 3")
Overall width, with 600 mm shoe	B		3280 (10' 9")
Overall height of boom	C		3600 (11' 10")
Superstructure width	D		2980 (9' 9")
Overall height of cab	E		3145 (10' 4")
Ground clearance of counterweight	F		1200 (3' 11")
Overall height of engine hood	G		2672 (8' 9")
Overall height of handrail	G'		3350 (11' 0")
Minimum ground clearance	H		500 (1' 8")
Rear-end distance	I		3510 (11' 6")
Rear-end swing radius	I'		3570 (11' 9")
Distance between tumblers	J		4030 (13' 3")
Undercarriage length	K		4940 (16' 2")
Undercarriage width	L		3280 (10' 9")
Track gauge	M		2680 (8' 10")
Track shoe width, standard	N		600 (24")
Travel speed (low/high)		km/hr (mph)	3.6/6.4 (2.11/3.98)
Swing speed		rpm	11.2
Gradeability		Degree (%)	35 (70)
Ground pressure (600 mm shoe)		kgf/cm ² (psi)	0.64 (9.03)
Max traction force		kg (lb)	29500 (65030)

3. WORKING RANGE

1) HX340HD HEAVY DUTY BUCKET



Description	m (ft-in)	Boom	6.15 (20' 2")		6.45 (21' 2")		
		Arm	2.20 (7' 3")	2.50 (8' 2")	2.20 (7' 3")	2.50 (8' 2")	3.20 (10' 6")
Max digging reach	mm (ft-in)	A	10020 (32'10")	10190 (33' 5")	10330 (33'11")	10500 (34' 5")	11150 (36' 7")
Max digging reach on ground		A'	9810 (32' 2")	9980 (32' 9")	10120 (33' 2")	10290 (33' 9")	10950 (35'11")
Max digging depth		B	6150 (20' 2")	6450 (21' 2")	6360 (20'10")	6660 (21'10")	7360 (24' 2")
Max digging depth (8ft level)		B'	5950 (19' 6")	6230 (20' 5")	6170 (20' 3")	6450 (21' 2")	7200 (23' 7")
Max vertical wall digging depth		C	5700 (18' 8")	5420 (17' 9")	5970 (19' 7")	5660 (18' 7")	6330 (20' 9")
Max digging height		D	9980 (32' 9")	9760 (32' 0")	10260 (33' 8")	10050 (33' 0")	10360 (34' 0")
Max dumping height		E	6790 (22' 3")	6670 (21'11")	7060 (23' 2")	6950 (22'10")	7260 (23'10")
Min swing radius		F	4450 (14' 7")	4290 (14' 1")	4630 (15' 2")	4440 (14' 7")	4360 (14' 4")
Bucket digging force	kN	SAE	200.1 [217.2]	187.3 [203.4]	200.1 [217.2]	187.3 [203.4]	188.3 [204.5]
	kgf		20400 [22150]	19100 [20740]	20400 [22150]	19100 [20740]	19200 [20850]
	lbf		44970 [48830]	42110 [45720]	44970 [48830]	42110 [45720]	42330 [45970]
	kN	ISO	230.5 [250.2]	215.7 [234.3]	230.5 [250.2]	215.7 [234.3]	216.7 [235.3]
	kgf		23500 [25510]	22000 [23890]	23500 [25510]	22000 [23890]	22100 [23990]
	lbf		51810 [56240]	48500 [52670]	51810 [56240]	48500 [52670]	48720 [52890]
Arm digging force	kN	SAE	220.7 [239.6]	198.1 [215.1]	220.7 [239.6]	198.1 [215.1]	140.2 [152.3]
	kgf		22500 [24430]	20200 [21930]	22500 [24430]	20200 [21930]	14300 [15530]
	lbf		49600 [53860]	44530 [48350]	49600 [53860]	44530 [48350]	31530 [34240]
	kN	ISO	231.4 [251.3]	207.9 [225.8]	231.4 [251.3]	207.9 [225.8]	145.1 [157.6]
	kgf		23600 [25620]	21200 [23020]	23600 [25620]	21200 [23020]	14800 [16070]
	lbf		52030 [56480]	46740 [50750]	52030 [56480]	46740 [50750]	32630 [35430]

[] : Power boost

4. WEIGHT

1) HX340HD

Item	HX340HD	
	kg	lb
Upperstructure assembly	15420	33995
Main frame weld assembly	3910	8620
Engine assembly	604	1332
Main pump assembly	201	443
Main control valve assembly	220	485
Swing motor assembly	370	820
Hydraulic oil tank assembly	300	661
Fuel tank assembly	350	772
Counterweight	6000	13230
Cab assembly	422	930
Radiator assy	230	510
Oil cooler assy	80	180
Lower chassis assembly	11500	25350
Track frame weld assembly	3970	8750
Swing bearing	470	1040
Travel motor assembly	440	970
Turning joint	54	119
Tension cylinder	225	496
Idler	250	551
Sprocket	83	183
Carrier roller	35	77
Track roller	56	123
Track-chain assembly (600 mm standard triple grouser shoe)	1880	4145
6.15 m boom assembly	2806	6186
6.45 m boom assembly	2885	6360
3.2 m arm assembly	1170	2580
2.5 m arm assembly	1064	2346
1.44 m³ SAE heaped bucket	1460	3219
2.30 m³ SAE heaped bucket	1907	4204
Boom cylinder assembly	305	670
Arm cylinder assembly	380	840
Bucket cylinder assembly	265	580
Bucket control linkage assembly	370	820

※ 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.

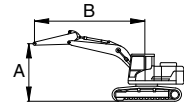
5. LIFTING CAPACITIES

Unit : mm

Model	Boom	Boom	Arm	Counterweight	Shoe	Dozer		Outrigger	
	Type	Length	Length	Weight (kg)	Width	Front	Rear	Front	Rear
HX340HD	Heavy duty	6450	3200	6000	600	-	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Lift point height m (ft)		Lift-point radius										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)		9.0 m (29.5 ft)		Capacity		Reach	
														m (ft)	
7.5 m (24.6 ft)	kg lb							*6,830 *15,060	6,780 14,950			*5,610 *12,370	*5,610 *12,370	7.74 (25.4)	
6.0 m (19.7 ft)	kg lb							*7,800 *17,200	6,710 14,790			*5,430 *11,970	5,240 11,550	8.62 (28.3)	
4.5 m (14.8 ft)	kg lb			*11,900 *26,230	*11,900 *26,230	*9,580 *21,120	9,230 20,350	*8,430 *18,580	6,490 14,310	*6,660 *14,680	4,770 10,520	*5,450 *12,020	4,620 10,190	9.17 (30.1)	
3.0 m (9.8 ft)	kg lb			*15,380 *33,910	13,200 29,100	*11,230 *24,760	8,650 19,070	*9,280 *20,460	6,200 13,670	7,070 15,590	4,650 10,250	*5,650 *12,460	4,290 9,460	9.44 (31.0)	
1.5 m (4.9 ft)	kg lb			*17,450 *38,470	12,250 27,010	*12,700 *28,000	8,140 17,950	9,130 20,130	5,920 13,050	6,920 15,260	4,510 9,940	*6,050 *13,340	4,170 9,190	9.47 (31.1)	
0.0 m (0.0 ft)	kg lb			*17,260 *38,050	11,850 26,120	12,510 27,580	7,820 17,240	8,910 19,640	5,720 12,610	6,810 15,010	4,410 9,720	6,540 14,420	4,240 9,350	9.25 (30.4)	
-1.5 m (-4.9 ft)	kg lb	*10,800 *23,810	*10,800 *23,810	*18,640 *41,090	11,780 25,970	12,360 27,250	7,680 16,930	8,810 19,420	5,630 12,410			7,050 15,540	4,560 10,050	8.77 (28.8)	
-3.0 m (-9.8 ft)	kg lb	*17,460 *38,490	*17,460 *38,490	*17,440 *38,450	11,910 26,260	12,400 27,340	7,720 17,020	8,860 19,530	5,680 12,520			8,140 17,950	5,250 11,570	7.98 (26.2)	
-4.5 m (-14.8 ft)	kg lb	*20,250 *44,640	*20,250 *44,640	*14,950 *32,960	12,240 26,980	*11,230 *24,760	7,960 17,550					*9,440 *20,810	6,790 14,970	6.76 (22.2)	

Unit : mm

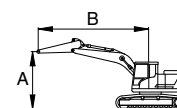
Model	Boom	Boom	Arm	Counterweight	Shoe	Dozer		Outrigger	
	Type	Length	Length	Weight (kg)	Width	Front	Rear	Front	Rear
HX340HD	Heavy duty	6450	3200	6600	600	-	-	-	-



: Rating over-front



: Rating over-side or 360 degree



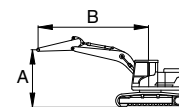
Lift point height m (ft)		Lift-point radius										At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		9.0 m (29.5 ft)		Capacity		Reach
														m (ft)
7.5 m (24.6 ft)	kg lb							*6830 *15060	*6,830 *15,060			*5,610 *12,370	*5,610 *12,370	7.74 (25.4)
6.0 m (19.7 ft)	kg lb							*7800 *17200	7,060 15,560			*5,430 *11,970	*5,430 *11,970	8.62 (28.3)
4.5 m (14.8 ft)	kg lb			*11,900 *26,230	*11,900 *26,230	*9,580 *21,120	*9,580 *21,120	*8430 *18580	6,830 15,060	*6,660 *14,680	5,050 11,130	*5,450 *12,020	4,880 10,760	9.17 (30.1)
3.0 m (9.8 ft)	kg lb			*15,380 *33,910	13,880 30,600	*11,230 *24,760	9,100 20,060	*9280 *20460	6,540 14,420	7,400 16,310	4,920 10,850	*5,650 *12,460	4,550 10,030	9.44 (31.0)
1.5 m (4.9 ft)	kg lb			*17,450 *38,470	12,920 28,480	*12,700 *28,000	8,590 18,940	9550 21050	6,260 13,800	7,250 15,980	4,790 10,560	*6,050 *13,340	4,430 9,770	9.47 (31.1)
0.0 m (0.0 ft)	kg lb			*17,260 *38,050	12,530 27,620	13,090 28,860	8,270 18,230	9330 20570	6,060 13,360	7,140 15,740	4,690 10,340	*6,720 *14,820	4,510 9,940	9.25 (30.4)
-1.5 m (-4.9 ft)	kg lb	*10,800 *23,810	*10,800 *23,810	*18,640 *41,090	12,460 27,470	12,940 28,530	8,140 17,950	9230 20350	5,970 13,160			7,390 16,290	4,840 10,670	8.77 (28.8)
-3.0 m (-9.8 ft)	kg lb	*17,460 *38,490	*17,460 *38,490	*17,440 *38,450	12,580 27,730	12,990 28,640	8,180 18,030	9280 20460	6,020 13,270			8,530 18,810	5,560 12,260	7.98 (26.2)
-4.5 m (-14.8 ft)	kg lb	*20,250 *44,640	*20,250 *44,640	*14,950 *32,960	12,910 28,460	*11,230 *24,760	8,410 18,540					*9,440 *20,810	7,180 15,830	6.76 (22.2)

Unit : mm

Model	Boom	Boom	Arm	Counterweight	Shoe	Dozer		Outrigger	
	Type	Length	Length	Weight (kg)	Width	Front	Rear	Front	Rear
HX340HD	Heavy duty	6150	2200	6600	600	-	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



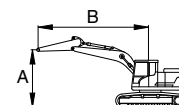
Load point height		Load radius								At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
												m (ft)
7.5m	kg					*9650	*9650			*9790	9210	6.31
24.6ft	lb					*21270	*21270			*21580	20300	(20.7)
6.0m	kg					*9850	*9850			*9550	7070	7.36
19.7ft	lb					*21720	*21720			*21050	15590	(24.2)
4.5m	kg					*10990	9530	*9690	6760	9060	6080	8.00
14.8ft	lb					*24230	21010	*21360	14900	19970	13400	(26.2)
3.0m	kg					*12440	9040	9850	6550	8390	5600	8.31
9.8ft	lb					*27430	19930	21720	14440	18500	12350	(27.3)
1.5m	kg					13510	8650	9630	6350	8220	5460	8.34
4.9ft	lb					29780	19070	21230	14000	18120	12040	(27.4)
0.0m	kg					13270	8450	9510	6230	8530	5640	8.10
0.0ft	lb					29260	18630	20970	13730	18810	12430	(26.6)
-1.5m	kg			*18180	12900	13250	8430	9540	6270	9480	6230	7.54
-4.9ft	lb			*40080	28440	29210	18580	21030	13820	20900	13730	(24.7)
-3.0m	kg	*20780	*20780	*16060	13140	*12120	8610			*10470	7620	6.59
-9.8ft	lb	*45810	*45810	*35410	28970	*26720	18980			*23080	16800	(21.6)

Unit : mm

Model	Boom	Boom	Arm	Counterweight	Shoe	Dozer		Outrigger	
	Type	Length	Length	Weight (kg)	Width	Front	Rear	Front	Rear
HX340HD	Heavy duty	6150	2500	6600	600	-	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



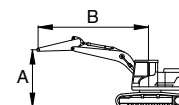
Load point height		Load radius								At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
												m (ft)
7.5m	kg					*9030	*9030			*9160	8800	6.53
24.6ft	lb					*19910	*19910			*20190	19400	(21.4)
6.0m	kg					*9380	*9380	*9020	6920	*9030	6840	7.55
19.7ft	lb					*20680	*20680	*19890	15260	*19910	15080	(24.8)
4.5m	kg			*13270	*13270	*10570	9600	*9340	6790	8780	5890	8.17
14.8ft	lb			*29260	*29260	*23300	21160	*20590	14970	19360	12990	(26.8)
3.0m	kg					*12080	9080	9870	6560	8140	5430	8.48
9.8ft	lb					*26630	20020	21760	14460	17950	11970	(27.8)
1.5m	kg					*13360	8660	9620	6330	7970	5280	8.51
4.9ft	lb					*29450	19090	21210	13960	17570	11640	(27.9)
0.0m	kg			*19170	12750	13240	8420	9470	6190	8230	5430	8.27
0.0ft	lb			*42260	28110	29190	18560	20880	13650	18140	11970	(27.1)
-1.5m	kg	*15260	*15260	*18450	12780	13180	8360	9450	6180	9080	5960	7.72
-4.9ft	lb	*33640	*33640	*40680	28180	29060	18430	20830	13620	20020	13140	(25.3)
-3.0m	kg	*22130	*22130	*16600	12990	*12550	8490			*10580	7190	6.81
-9.8ft	lb	*48790	*48790	*36600	28640	*27670	18720			*23320	15850	(22.3)
-4.5m	kg			*12670	*12670					*10370	*10370	5.31
-14.8ft	lb			*27930	*27930					*22860	*22860	(17.4)

Unit : mm

Model	Boom	Boom	Arm	Counterweight	Shoe	Dozer		Outrigger	
	Type	Length	Length	Weight (kg)	Width	Front	Rear	Front	Rear
HX340HD	Heavy duty	6450	2200	6600	600	-	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



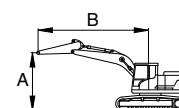
Load point height		Load radius								At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
												m (ft)
7.5m 24.6ft	kg lb					*9180 *20240	*9180 *20240			*9300 *20500	8290 18280	6.71 (22.0)
6.0m 19.7ft	kg lb					*9660 *21300	*9660 *21300	*9060 *19970	6840 15080	*9090 *20040	6510 14350	7.71 (25.3)
4.5m 14.8ft	kg lb					*10910 *24050	9380 20680	*9420 *20770	6680 14730	8440 18610	5640 12430	8.32 (27.3)
3.0m 9.8ft	kg lb					*12390 *27320	8850 19510	9740 21470	6440 14200	7850 17310	5220 11510	8.62 (28.3)
1.5m 4.9ft	kg lb					13290 29300	8460 18650	9500 20940	6220 13710	7700 16980	5090 11220	8.65 (28.4)
0.0m 0.0ft	kg lb					13070 28810	8260 18210	9360 20640	6100 13450	7960 17550	5240 11550	8.41 (27.6)
-1.5m -4.9ft	kg lb			*17750 *39130	12670 27930	13050 28770	8250 18190	9370 20660	6100 13450	8770 19330	5750 12680	7.88 (25.8)
-3.0m -9.8ft	kg lb	*19890 *43850	*19890 *43850	*15830 *34900	12910 28460	*12210 *26920	8410 18540			*9890 *21800	6910 15230	6.98 (22.9)
-4.5m -14.8ft	kg lb			*12030 *26520	*12030 *26520					*9280 *20460	*9280 *20460	5.54 (18.2)

Unit : mm

Model	Boom	Boom	Arm	Counterweight	Shoe	Dozer		Outrigger	
	Type	Length	Length	Weight (kg)	Width	Front	Rear	Front	Rear
HX340HD	Heavy duty	6450	2500	6600	600	-	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Load point height		Load radius								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)
7.5m	kg									*8730	7950	6.93
24.6ft	lb									*19250	17530	(22.7)
6.0m	kg					*9230	*9230	*8630	6900	*8620	6300	7.90
19.7ft	lb					*20350	*20350	*19030	15210	*19000	13890	(25.9)
4.5m	kg			*13590	*13590	*10510	9450	*9110	6710	8190	5480	8.49
14.8ft	lb			*29960	*29960	*23170	20830	*20080	14790	18060	12080	(27.9)
3.0m	kg					*12030	8900	9750	6450	7620	5060	8.79
9.8ft	lb					*26520	19620	21500	14220	16800	11160	(28.8)
1.5m	kg					*13260	8460	9490	6210	7460	4930	8.82
4.9ft	lb					*29230	18650	20920	13690	16450	10870	(28.9)
0.0m	kg			*17240	12480	13030	8220	9320	6060	7690	5050	8.58
0.0ft	lb			*38010	27510	28730	18120	20550	13360	16950	11130	(28.2)
-1.5m	kg			*18050	12540	12980	8180	9290	6030	8410	5500	8.06
-4.9ft	lb			*39790	27650	28620	18030	20480	13290	18540	12130	(26.4)
-3.0m	kg	*21280	*21280	*16340	12750	*12540	8300			*9960	6530	7.19
-9.8ft	lb	*46910	*46910	*36020	28110	*27650	18300			*21960	14400	(23.6)
-4.5m	kg			*13020	*13020					*9810	9120	5.80
-14.8ft	lb			*28700	*28700					*21630	20110	(19.0)

6. BUCKET SELECTION GUIDE



General bucket



Heavy duty
(without side cutter)



Rock heavy duty

Type	Capacity		Width	Weight	Tooth	Recommendation				
	SAE Heaped	CECE heaped	Without side cutter			6.15 m (20' 2") Boom		6.45 m (21' 2") Boom (HD)		
	m ³ (yd ³)	m ³ (yd ³)	mm (in)			2.20 m (7' 3") Arm	2.50 m (8' 2") Arm	2.20 m (7' 3") Arm	2.50 m (8' 2") Arm	3.20 m (8' 2") Arm
General bucket	1.44 (1.88)	1.25 (1.63)	1,380 (54.3")	1,150 (2,540)	5	●	●	●	●	●
	1.74 (2.28)	1.50 (1.96)	1,620 (63.8")	1,260 (2,780)	6	●	●	◐	◐	■
	2.10 (2.75)	1.80 (2.35)	1,910 (75.2")	1,640 (3,620)	6	■	■	■	■	▲
Heavy duty	1.90 (2.49)	1.65 (2.16)	1,600 (63.0")	1,780 (3,920)	5	◐	◐	■	■	▲
	2.30 (3.01)	2.02 (2.64)	1,750 (68.9")	1,915 (4,220)	5	■	▲	▲	▲	X
Rock heavy duty	1.44 (1.88)	1.25 (1.63)	1,470 (57.9")	1,600 (3,530)	5	●	●	●	●	◐
	1.60 (2.09)	1.39 (1.82)	1,585 (62.4")	1,680 (3,700)	5	●	●	◐	◐	■
	1.73 (2.26)	1.50 (1.96)	1,710 (67.3")	1,750 (3,860)	5	◐	◐	◐	◐	■
	1.83 (2.39)	1.59 (2.08)	1,765 (69.5")	1,850 (4,080)	5	◐	◐	■	■	▲
	1.90 (2.49)	1.65 (2.16)	1,600 (63.0")	1,980 (4,370)	5	◐	■	■	■	▲

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

※ 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.

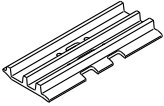
Consult with your local HD Hyundai Construction Equipment dealer for information on selecting the correct boom—arm—bucket combination.

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		
					
HX340HD	Shoe width	mm (in)	600 (24)	700 (28)	800 (32)
	Operating weight	kg (lb)	33000 (72750)	33570 (74010)	33950 (74850)
	Ground pressure	kgf/cm ² (psi)	0.64 (9.03)	0.55 (7.88)	0.49 (6.97)
	Overall width	mm (ft-in)	3280 (10' 9")	3380 (11' 1")	3480 (11' 5")

3) NUMBER OF ROLLERS AND SHOES ON EACH SIDE

Item	Quantity
Carrier rollers	2EA
Track rollers	9EA
Track shoes	48EA

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
700 mm triple grouser	Option	B
800 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 or a wide range of general civil engineering work
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	HD Hyundai Construction Equipment / HM8.3
Type	4-cycle, turbocharged, charger air cooled, mechanical controlled diesel engine
Cooling method	Water cooled
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	114 × 135 mm (4.49" × 5.31")
Piston displacement	8.3 ℓ (506 cu in)
Compression ratio	18 : 1
Gross power	260 Hp (194 kW) at 2200 rpm
Net power	255 Hp (190 kW) at 2200 rpm
Max. power	261 Hp (195 kW) at 2200 rpm
Maximum torque	1150 N·m (848 lbf·ft) at 1300 rpm
Engine oil quantity	26.5 ℓ (7.0 U.S. gal)
Wet weight	604 kg (1332 lb)
Starting motor	24 V-7.5 kW
Alternator	24 V-90A

2) MAIN PUMP

Item	Specification
Type	Variable displacement tandem axis piston pumps
Capacity	2 × 175 cc/rev
Rated oil flow	2 × 306 ℓ /min (80.8 U.S. gpm / 67.3 U.K. gpm)
Rated speed	1750 rpm

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	26.3 ℓ /min (6.9 U.S. gpm/5.8 U.K. gpm)

4) MAIN CONTROL VALVE

Item	Specification
Type	10 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	Axial piston motor
Capacity	156.9 cc/rev
Relief pressure	300 kgf/cm ² (4270 psi)
Braking system	Automatic, spring applied hydraulic released
Braking torque	84.4 kgf · m (610 lbf · ft)
Brake release pressure	36.5 kgf/cm ² (519 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)	282.6/156.9 cc/rev
Reduction gear type	2-stage planetary
Braking system	Automatic, spring applied hydraulic released
Brake release pressure	17 kgf/cm ² (242 psi)
Braking torque	134 kgf · m (969 lbf · ft)

7) CYLINDER

Item		Specification
Boom cylinder	Bore dia × Rod dia × Stroke	Ø150 × Ø105 × 1480 mm
	Cushion	Extend only
Arm cylinder	Bore dia × Rod dia × Stroke	Ø160 × Ø110 × 1685 mm Ø170 × Ø115 × 1685 mm (Heavy duty boom only)
	Cushion	Extend and retract
Bucket cylinder	Bore dia × Rod dia × Stroke	Ø140 × Ø100 × 1285 mm Ø145 × Ø105 × 1285 mm (2.2 m arm only)
	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
HX340HD	Standard	☆ 600 mm (24")	0.64 kgf/cm ² (9.03 psi)	48	3280 mm (10' 9")
	Option	☆ 700 mm (28")	0.55 kgf/cm ² (7.88 psi)	48	3380 mm (11' 1")
		☆ 800 mm (32")	0.49 kgf/cm ² (6.97 psi)	48	3480 mm (11' 5")

☆ : Triple grouser

9. RECOMMENDED OILS

HYUNDAI 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 HYUNDAI and, therefore, will meet the highest safety and quality requirements.

We recommend that you use only HYUNDAI genuine lubricating oils and grease officially approved by HYUNDAI.

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)
Engine oil pan	Engine oil★ ¹	26.5 (7.0)	★SAE 0W-40							
			★SAE 0W-30							
			SAE 5W-30							
			SAE 10W-30							
			SAE 15W-40							
Swing drive	Gear oil	11 (2.91)	★SAE 75W-90							
Final drive		7.8×2 (2.1×2)	SAE 80W-90							
Hydraulic tank	Hydraulic oil★ ³	Tank : 210 (55.5)	ISO VG 32							
		System : 414 (109.4)	ISO VG 46, HBHO VG 46★ ³							
			ISO VG 68							
Fuel tank	Diesel fuel	600 (158.5)	★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	27 (7.1)	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

★ : Cold region

Russia, CIS, Mongolia

★¹ : Meet or exceeds API CH-4 grade

★² : Soft water

City water or distilled water

★³ : Hyundai Bio Hydraulic Oil

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

※ Do not mix HYUNDAI 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.

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