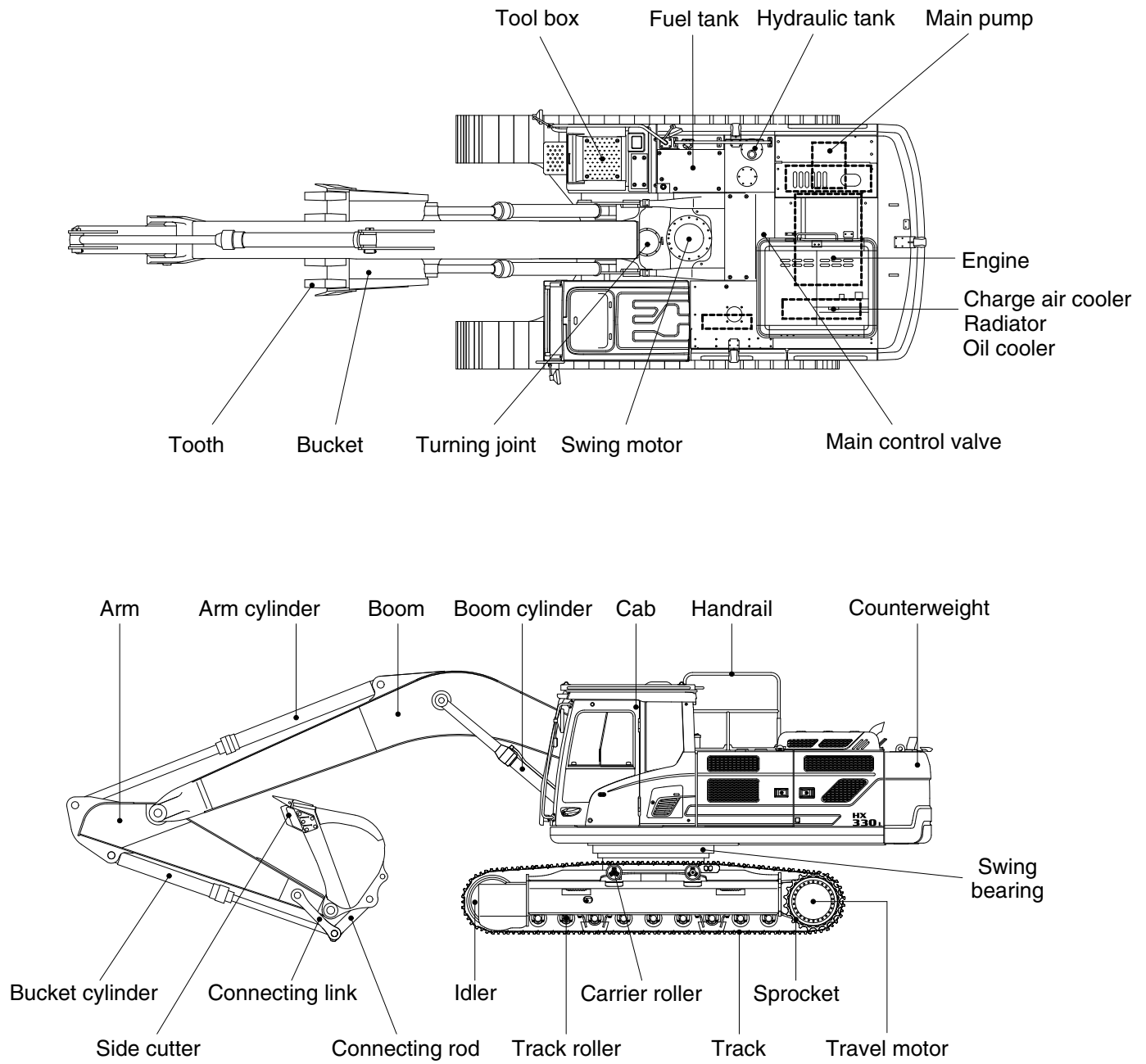


SPECIFICATIONS

1. MAJOR COMPONENT

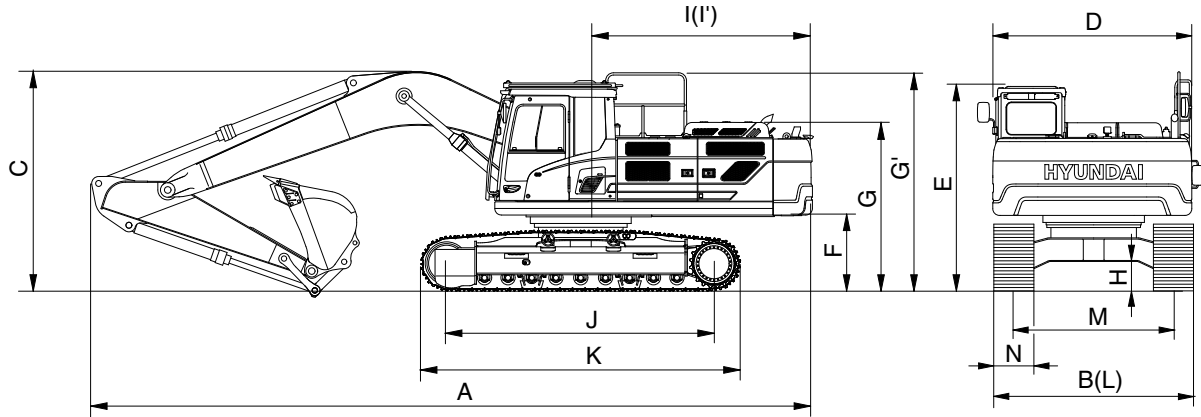


330S2SP01

2. SPECIFICATIONS

1) HX330S L

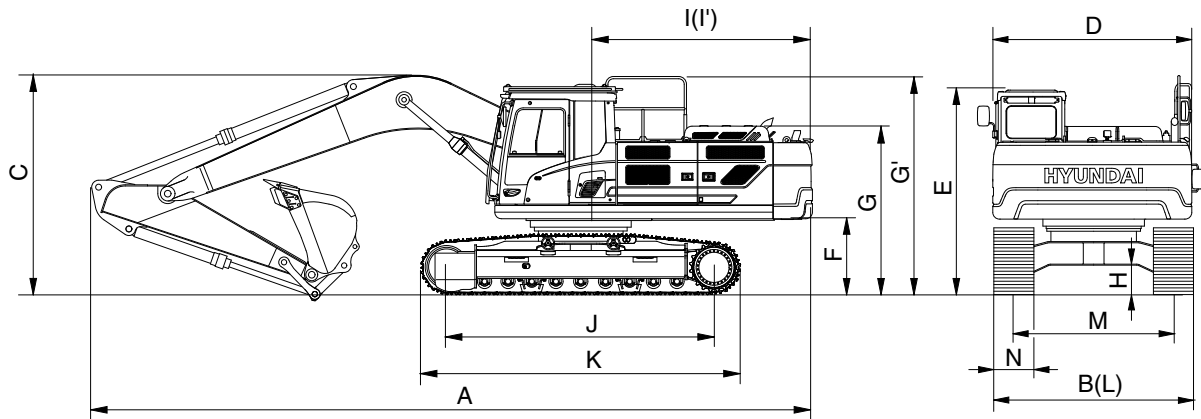
(1) 6.45 m (21' 2") boom and 3.20 m (10' 6") arm



330S2SP02

Description		Unit	Specification
Operating weight		kg (lb)	33000 (72750)
Bucket capacity (SAE heaped), standard		m ³ (yd ³)	1.44 (1.88)
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

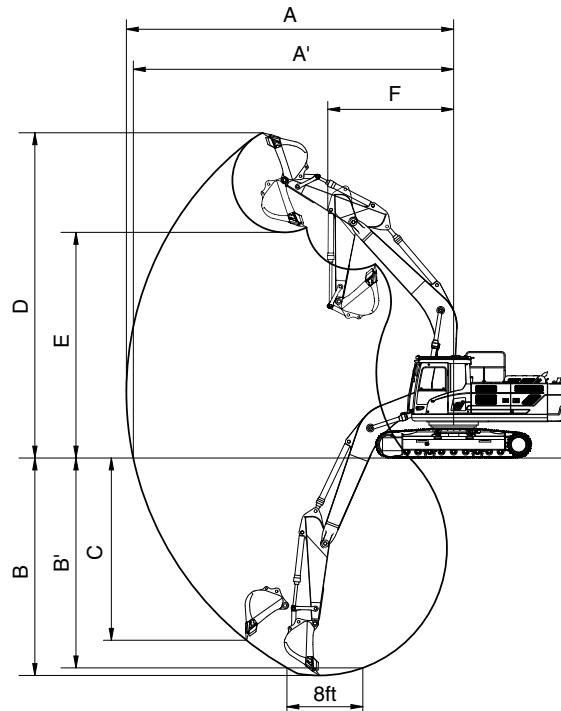


330S2SP02

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)	0.63 (8.98)
Max traction force		kg (lb)	29500 (65030)

3. WORKING RANGE

1) HX330S L



330S2SP05

Description		6.45 m (21' 2") Boom				6.15 m (20' 2") Boom
		2.2 m (7' 3") Arm	2.5 m (8' 2") Arm	3.2 m (10' 6") Arm	4.05 m (13' 3") Arm	2.2 m (7' 3") Arm
Max digging reach	A	10330 mm (33' 11")	10500 mm (34' 5")	11150 mm (36' 7")	11950 mm (39' 2")	10020 mm (32' 10")
Max digging reach on ground	A'	10120 mm (33' 2")	10290 mm (33' 9")	10950 mm (35' 11")	11770 mm (38' 7")	9810 mm (32' 2")
Max digging depth	B	6360 mm (20' 10")	6660 mm (21' 10")	7360 mm (24' 2")	8210 mm (26' 11")	6150 mm (20' 2")
Max digging depth (8ft level)	B'	6170 mm (20' 3")	6450 mm (21' 2")	7200 mm (23' 7")	8080 mm (26' 6")	5950 mm (19' 6")
Max vertical wall digging depth	C	5970 mm (19' 7")	5660 mm (18' 7")	6330 mm (20' 9")	7240 mm (23' 9")	5700 mm (18' 8")
Max digging height	D	10260 mm (33' 8")	10050 mm (33' 0")	10360 mm (34' 0")	10780 mm (35' 4")	9980 mm (32' 9")
Max dumping height	E	7060 mm (23' 2")	6950 mm (22' 10")	7260 mm (23' 10")	7670 mm (25' 2")	6790 mm (22' 3")
Min swing radius	F	4630 mm (15' 2")	4440 mm (14' 7")	4360 mm (14' 4")	4290 mm (14' 1")	4450 mm (14' 7")
Bucket digging force	SAE	186.3 [203.3] kN	187.3 [204.4] kN	188.3 [205.5] kN	189.3 [206.4] kN	186.3 [203.3] kN
		19000 [20730] kgf	19100 [20840] kgf	19200 [20950] kgf	19300 [21050] kgf	19000 [20730] kgf
		41890 [45700] lbf	42110 [45940] lbf	42330 [46190] lbf	42550 [46410] lbf	41890 [45700] lbf
	ISO	214.8 [234.3] kN	215.7 [235.4] kN	216.7 [236.4] kN	217.7 [237.5] kN	214.8 [234.3] kN
		21900 [23890] kgf	22000 [24000] kgf	22100 [24110] kgf	22200 [24220] kgf	21900 [23890] kgf
		48280 [52670] lbf	48500 [52910] lbf	48720 [53150] lbf	48940 [53400] lbf	48280 [52670] lbf
Arm digging force	SAE	195.2 [212.9] kN	175.5 [191.5] kN	140.2 [153.0] kN	118.7 [129.4] kN	195.2 [212.9] kN
		19900 [21710] kgf	17900 [19530] kgf	14300 [15600] kgf	12100 [13200] kgf	19900 [21710] kgf
		43870 [47860] lbf	39460 [43060] lbf	31530 [34390] lbf	26680 [29100] lbf	43870 [47860] lbf
	ISO	205.0 [223.6] kN	184.4 [201.1] kN	145.1 [158.4] kN	123.6 [134.8] kN	205.0 [223.6] kN
		20900 [22800] kgf	18800 [20510] kgf	14800 [16150] kgf	12600 [13750] kgf	20900 [22800] kgf
		46080 [50270] lbf	41450 [45220] lbf	32630 [35600] lbf	27780 [30310] lbf	46080 [50270] lbf

[] : Power boost

4. WEIGHT

1) HX330S L

Item	HX330S L	
	kg	lb
Upperstructure assembly	15420	33995
Main frame weld assembly	3910	8620
Engine assembly	617	1360
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
Front attachment assembly (6.45 m boom, 3.2 m arm, 1.44 m³ SAE heaped bucket)	6580	14510
6.45 m boom assembly	2560	5640
3.2 m arm assembly	1170	2580
1.44 m³ SAE heaped bucket	1230	2710
Boom cylinder assembly	305	670
Arm cylinder assembly	380	840
Bucket cylinder assembly	265	580
Bucket control linkage assembly	370	820

5. LIFTING CAPACITIES

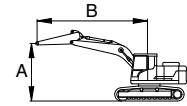
1) HX330S L

Unit : mm

Model	Boom	Boom	Arm	Counterweight	Shoe	Dozer		Outrigger	
	Type	Length	Length	Weight (kg)	Width	Front	Rear	Front	Rear
HX330S L	Mono	6150	2200	6000	600	-	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Load point height		Load radius												At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		9.0 m (29.5 ft)		Capacity		Reach
																m (ft)
7.5m	kg							*9740	9610					*9890	8800	6.31
24.6ft	lb							*21470	21190					*21800	19400	(20.7)
6.0m	kg							*9940	9490					*9660	6770	7.36
19.7ft	lb							*21910	20920					*21300	14930	(24.2)
4.5m	kg							*11120	9120	9690	6480			8710	5830	8.00
14.8ft	lb							*24520	20110	21360	14290			19200	12850	(26.2)
3.0m	kg							*12620	8680	9480	6290			8080	5380	8.31
9.8ft	lb							*27820	19140	20900	13870			17810	11860	(27.3)
1.5m	kg							13020	8330	9280	6110			7930	5260	8.34
4.9ft	lb							28700	18360	20460	13470			17480	11600	(27.4)
0.0m	kg							12810	8150	9170	6010			8230	5440	8.10
0.0ft	lb							28240	17970	20220	13250			18140	11990	(26.6)
-1.5m	kg					*18500	12460	12800	8140	9220	6050			9150	6010	7.54
-4.9ft	lb					*40790	27470	28220	17950	20330	13340			20170	13250	(24.7)
-3.0m	kg			*21230	*21230	*16370	12690	*12350	8310					*10680	7360	6.60
-9.8ft	lb			*46800	*46800	*36090	27980	*27230	18320					*23550	16230	(21.6)

※ 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 mounting pin on the arm (without 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.

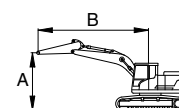
Make adjustments to the rated load as necessary for non-standard configurations.

Unit : mm

Model	Boom	Boom	Arm	Counterweight	Shoe	Dozer		Outrigger	
	Type	Length	Length	Weight (kg)	Width	Front	Rear	Front	Rear
HX330S L	Mono	6450	2200	6000	600	-	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



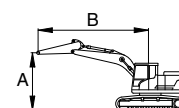
Load point height		Load radius												At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		9.0 m (29.5 ft)		Capacity		Reach
																m (ft)
7.5m 24.6ft	kg lb							*9270 *20440	*9270 *20440					*9420 *20770	7920 17460	6.71 (22.0)
6.0m 19.7ft	kg lb							*9780 *21560	9400 20720	*9190 *20260	6550 14440			*9230 *20350	6240 13760	7.71 (25.3)
4.5m 14.8ft	kg lb							*11070 *24410	8980 19800	*9570 *21100	6410 14130			8120 17900	5420 11950	8.32 (27.3)
3.0m 9.8ft	kg lb							*12590 *27760	8510 18760	9370 20660	6190 13650			7570 16690	5030 11090	8.62 (28.3)
1.5m 4.9ft	kg lb							12820 28260	8160 17990	9160 20190	6000 13230			7440 16400	4920 10850	8.65 (28.4)
0.0m 0.0ft	kg lb							12630 27840	7990 17610	9050 19950	5900 13010			7700 16980	5070 11180	8.41 (27.6)
-1.5m -4.9ft	kg lb					*18120 *39950	12280 27070	12630 27840	7990 17610	9060 19970	5910 13030			8480 18700	5560 12260	7.88 (25.8)
-3.0m -9.8ft	kg lb			*20410 *45000	*20410 *45000	*16200 *35710	12500 27560	*12490 *27540	8140 17950					*10120 *22310	6680 14730	6.98 (22.9)
-4.5m -14.8ft	kg lb					*12370 *27270	*12370 *27270							*9550 *21050	*9550 *21050	5.54 (18.2)

Unit : mm

Model	Boom	Boom	Arm	Counterweight	Shoe	Dozer		Outrigger	
	Type	Length	Length	Weight (kg)	Width	Front	Rear	Front	Rear
HX330S L	Mono	6450	2500	6000	600	-	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



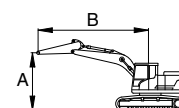
Load point height		Load radius												At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		9.0 m (29.5 ft)		Capacity		Reach
																m (ft)
7.5m 24.6ft	kg lb													*8820 *19440	7570 16690	6.93 (22.7)
6.0m 19.7ft	kg lb							*9310 *20530	*9310 *20530	*8740 *19270	6590 14530			*8740 *19270	6020 13270	7.90 (25.9)
4.5m 14.8ft	kg lb					*13730 *30270	*13730 *30270	*10630 *23440	9020 19890	*9230 *20350	6410 14130			7860 17330	5240 11550	8.49 (27.9)
3.0m 9.8ft	kg lb							*12200 *26900	8520 18780	9360 20640	6180 13620			7330 16160	4860 10710	8.79 (28.8)
1.5m 4.9ft	kg lb							12800 28220	8130 17920	9130 20130	5960 13140			7190 15850	4740 10450	8.82 (28.9)
0.0m 0.0ft	kg lb					*15200 *33510	12060 26590	12570 27710	7930 17480	8990 19820	5830 12850			7410 16340	4860 10710	8.58 (28.2)
-1.5m -4.9ft	kg lb					*18400 *40570	12120 26720	12530 27620	7890 17390	8970 19780	5820 12830			8110 17880	5300 11680	8.06 (26.4)
-3.0m -9.8ft	kg lb			*21480 *47360	*21480 *47360	*16690 *36800	12330 27180	12670 27930	8020 17680					9700 21380	6300 13890	7.19 (23.6)
-4.5m -14.8ft	kg lb					*13340 *29410	12750 28110							*10060 *22180	8800 19400	5.80 (19.0)

Unit : mm

Model	Boom	Boom	Arm	Counterweight	Shoe	Dozer		Outrigger	
	Type	Length	Length	Weight (kg)	Width	Front	Rear	Front	Rear
HX330S L	Mono	6450	3200	6000	600	-	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



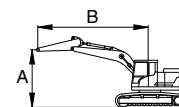
Load point height		Load radius												At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		9.0 m (29.5 ft)		Capacity		Reach
																m (ft)
7.5m 24.6ft	kg lb									*6830 *15060	6770 14930			*5610 *12370	*5610 *12370	7.74 (25.4)
6.0m 19.7ft	kg lb									*7870 *17350	6710 14790			*5430 *11970	5270 11620	8.62 (28.3)
4.5m 14.8ft	kg lb					*11980 *26410	*11980 *26410	*9660 *21300	9210 20300	*8520 *18780	6500 14330	*6670 *14700	4820 10630	*5450 *12020	4660 10270	9.17 (30.1)
3.0m 9.8ft	kg lb					*15550 *34280	13250 29210	*11360 *25040	8680 19140	*9400 *20720	6240 13760	7090 15630	4700 10360	*5650 *12460	4350 9590	9.44 (31.0)
1.5m 4.9ft	kg lb					*17440 *38450	12390 27320	*12870 *28370	8220 18120	9160 20190	5990 13210	6960 15340	4580 10100	*6050 *13340	4240 9350	9.47 (31.1)
0.0m 0.0ft	kg lb					*17250 *38030	12040 26540	12590 27760	7940 17500	8970 19780	5810 12810	6870 15150	4500 9920	6600 14550	4320 9520	9.25 (30.4)
-1.5m -4.9ft	kg lb			*10800 *23810	*10800 *23810	*18950 *41780	11990 26430	12460 27470	7820 17240	8880 19580	5730 12630			7110 15670	4650 10250	8.77 (28.8)
-3.0m -9.8ft	kg lb			*17460 *38490	*17460 *38490	*17750 *39130	12120 26720	12510 27580	7870 17350	8940 19710	5790 12760			8210 18100	5350 11790	7.98 (26.2)
-4.5m -14.8ft	kg lb			*20680 *45590	*20680 *45590	*15250 *33620	12440 27430	*11460 *25260	8100 17860					*9640 *21250	6910 15230	6.76 (22.2)

Unit : mm

Model	Boom	Boom	Arm	Counterweight	Shoe	Dozer		Outrigger	
	Type	Length	Length	Weight (kg)	Width	Front	Rear	Front	Rear
HX330S L	Mono	6450	4050	6000	600	-	-	-	-

·  : Rating over-front

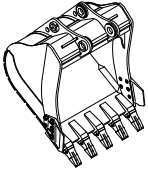
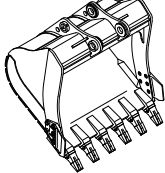
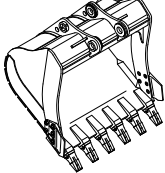
·  : Rating over-side or 360 degree



Load point height		Load radius												At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		9.0 m (29.5 ft)		Capacity		Reach
																m (ft)
7.5m 24.6ft	kg lb													*4200 *9260	*4200 *9260	8.72 (28.6)
6.0m 19.7ft	kg lb									*6810 *15010	*6810 *15010	*5820 *12830	4970 10960	*4070 *8970	*4070 *8970	9.50 (31.2)
4.5m 14.8ft	kg lb									*7560 *16670	6600 14550	*7140 *15740	4860 10710	*4080 *8990	4020 8860	10.00 (32.8)
3.0m 9.8ft	kg lb					*13330 *29390	*13330 *29390	*10120 *22310	8860 19530	*8540 *18830	6290 13870	7110 15670	4710 10380	*4210 *9280	3760 8290	10.25 (33.6)
1.5m 4.9ft	kg lb					*16570 *36530	12650 27890	*11870 *26170	8300 18300	9180 20240	5990 13210	6930 15280	4540 10010	*4460 *9830	3670 8090	10.28 (33.7)
0.0m 0.0ft	kg lb			*6350 *14000	*6350 *14000	*18440 *40650	12020 26500	12580 27730	7910 17440	8920 19670	5750 12680	6780 14950	4400 9700	*4880 *10760	3720 8200	10.08 (33.1)
-1.5m -4.9ft	kg lb	*6460 *14240	*6460 *14240	*9880 *21780	*9880 *21780	*18970 *41820	11790 25990	12340 27210	7690 16950	8760 19310	5600 12350	6700 14770	4330 9550	*5560 *12260	3940 8690	9.64 (31.6)
-3.0m -9.8ft	kg lb	*10380 *22880	*10380 *22880	*14460 *31880	*14460 *31880	*18440 *40650	11810 26040	12290 27090	7650 16870	8730 19250	5580 12300			*6730 *14840	4420 9740	8.92 (29.3)
-4.5m -14.8ft	kg lb	*15030 *33140	*15030 *33140	*20820 *45900	*20820 *45900	*16780 *36990	12020 26500	12430 27400	7770 17130	8870 19550	5700 12570			8320 18340	5380 11860	7.86 (25.8)
-6.0m -19.7ft	kg lb			*18490 *40760	*18490 *40760	*13330 *29390	12470 27490	*9580 *21120	8140 17950					*8920 *19670	7700 16980	6.26 (20.5)

6. BUCKET SELECTION GUIDE

1) GENERAL BUCKET

		
1.44 m³ SAE heaped bucket	1.74 m³ SAE heaped bucket	2.10 m³ SAE heaped bucket

Capacity		Width		Weight	Recommendation				
					6.45 m (21' 2") boom				6.15 m (20' 2") boom
SAE heaped	CECE heaped	Without side cutter	With side cutter		2.2 m arm (7' 3")	2.5 m arm (8' 2")	3.2 m arm (10' 6")	4.05 m arm (13' 3")	2.2 m arm (7' 3")
1.44 m³ (1.88 yd³)	1.25 m³ (1.63 yd³)	1380 mm (54")	1500 mm (59")	1150 kg (2540 lb)	●	●	●	■	●
1.74 m³ (2.28 yd³)	1.50 m³ (1.96 yd³)	1620 mm (64")	1740 mm (69")	1260 kg (2780 lb)	◐	◐	■	▲	●
2.10 m³ (2.75 yd³)	1.80 m³ (2.35 yd³)	1910 mm (75")	2030 mm (80")	1650 kg (3640 lb)	■	■	▲	X	■

●	Applicable for materials with density of 2100 kg/m³ (3500 lb/yd³) or less
◐	Applicable for materials with density of 1800 kg/m³ (3000 lb/yd³) or less
■	Applicable for materials with density of 1500 kg/m³ (2500 lb/yd³) or less
▲	Applicable for materials with density of 1200 kg/m³ (2000 lb/yd³) or less
X	Not recommended

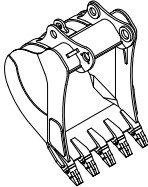
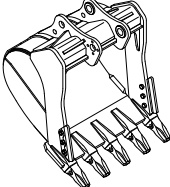
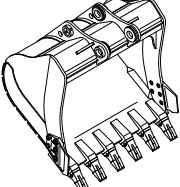
※ These recommendations are for general conditions and average use.

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) HEAVY DUTY AND ROCK-HEAVY DUTY BUCKET

		
◆ 1.44 m ³ SAE heaped bucket	◆ 1.44 m ³ SAE ◆ 1.60 m ³ SAE ◆ 1.73 m ³ SAE heaped bucket	◆ 1.83 m ³ SAE heaped bucket

Capacity		Width		Weight	Recommendation				
					6.45 m (21' 2") boom				6.15 m (20' 2") boom
SAE heaped	CECE heaped	Without side cutter	With side cutter		2.2 m arm (7' 3")	2.5 m arm (8' 2")	3.2 m arm (10' 6")	4.05 m arm (13' 3")	2.2 m arm (7' 3")
◆ 1.44 m ³ (1.88 yd ³)	1.25 m ³ (1.63 yd ³)	1470 mm (58")	-	1410 kg (3110 lb)	●	●	◐	■	●
◆ 1.44 m ³ (1.88 yd ³)	1.25 m ³ (1.63 yd ³)	1470 mm (58")	-	1485 kg (3270 lb)	●	●	◐	X	●
◆ 1.60 m ³ (2.09 yd ³)	1.39 m ³ (1.82 yd ³)	1585 mm (62")	-	1650 kg (3640 lb)	●	◐	■	X	●
◆ 1.73 m ³ (2.26 yd ³)	1.5 m ³ (1.96 yd ³)	1710 mm (67")	-	1675 kg (3690 lb)	◐	◐	■	X	●
◆ 1.83 m ³ (2.39 yd ³)	1.59 m ³ (2.08 yd ³)	1765 mm (69")	-	1850 kg (4080 lb)	■	■	▲	X	◐

◆ : Heavy duty bucket

◆ : Rock-Heavy duty bucket

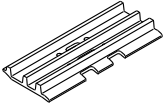
●	Applicable for materials with density of 2100 kg/m ³ (3500 lb/yd ³) or less
◐	Applicable for materials with density of 1800 kg/m ³ (3000 lb/yd ³) or less
■	Applicable for materials with density of 1500 kg/m ³ (2500 lb/yd ³) or less
▲	Applicable for materials with density of 1200 kg/m ³ (2000 lb/yd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

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		
					
HX330S L	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 diesel engine
Cooling method	Water cooling
Number of cylinders and arrangement	6 cylinders, in-line
Firing order	1-5-3-6-2-4
Combustion chamber type	Direct injection type
Cylinder bore × stroke	114 × 134.9 mm (4.49" × 5.31")
Piston displacement	8290 cc (506 cu in)
Compression ratio	18 : 1
Rated net horse power (SAE J1349)	245 Hp (183 kW) at 2200 rpm
Rated gross horse power (SAE J1995)	250 Hp (186 kW) at 2200 rpm
Maximum torque	124 kgf · m (899 lbf · ft) at 1300 rpm
Engine oil quantity	26.5 ℓ (7.0 U.S. gal)
Wet weight	617 kg (1360 lb)
High idling speed	2457 + 50 rpm
Low idling speed	850 ± 100 rpm
Rated fuel consumption	151 g/Hp · hr at 1400 rpm
Starting motor	24V-7.2 kW
Alternator	24V 90A
Battery	2 × 12V × 150Ah

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	Ø 150 × Ø 105 × 1480 mm
	Cushion	Extend only
Arm cylinder	Bore dia × Rod dia × Stroke	Ø 160 × Ø 110 × 1685 mm
	Cushion	Extend and retract
Bucket cylinder	Bore dia × Rod dia × Stroke	Ø 140 × Ø 100 × 1285 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
HX330S L	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

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★ 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	Tank : 210 (55.5)	★ISO VG 15								
		System : 414 (109.4)	ISO VG 32								
			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 : 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.

※ 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.