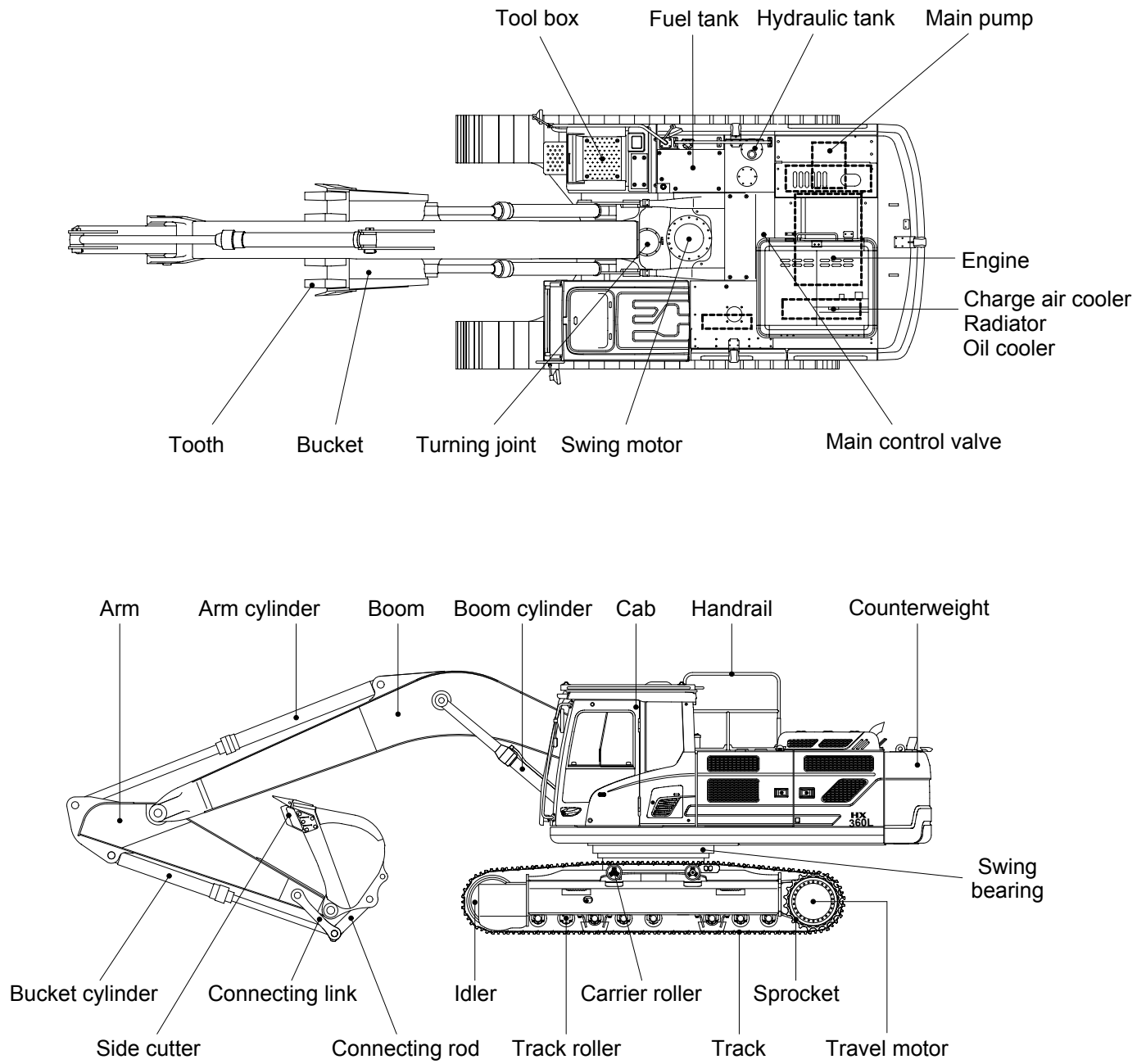


SPECIFICATIONS

1. MAJOR COMPONENT

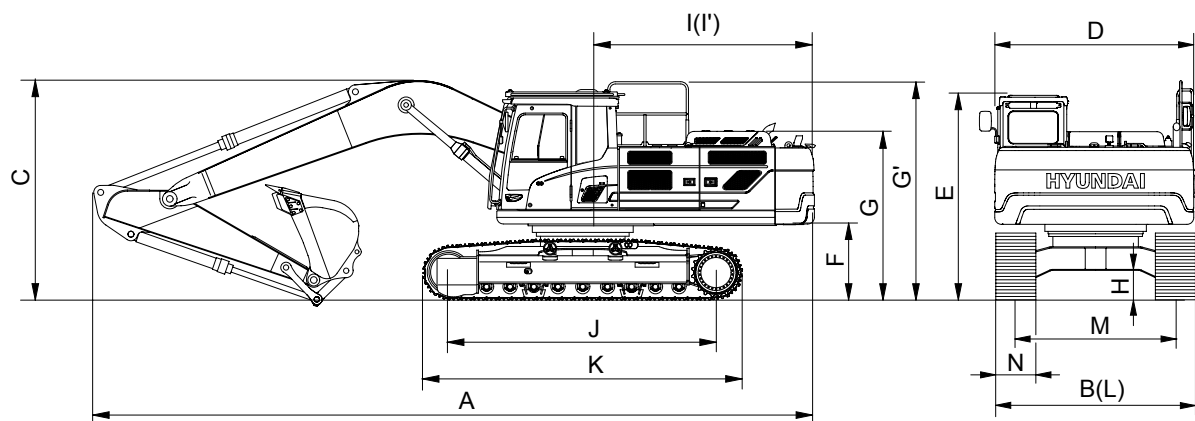


330S2SP01

2. SPECIFICATIONS

1) HX380L

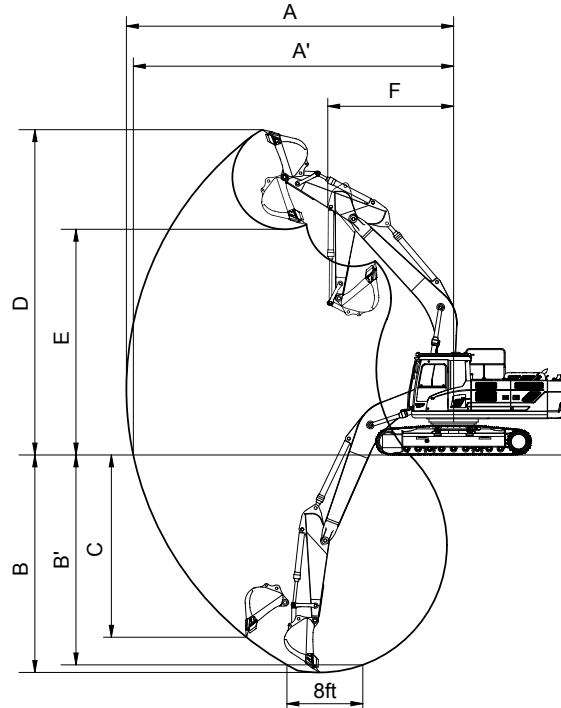
6.45 m (21' 2") boom and 2.65m (8'8") arm



Description		Unit	Specification
Operating weight		kg (lb)	37200 (82011)
Bucket capacity (SAE heaped), standard		m ³ (yd ³)	1.44 (1.88)
Overall length	A	mm (ft-in)	11340 (37' 2")
Overall width, with 600 mm shoe	B		3230 (10' 9")
Overall height of boom	C		3760 (12' 3")
Superstructure width	D		2980 (9' 9")
Overall height of cab	E		3190 (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		530 (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		2590 (8' 5")
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)	32500 (71650)

3. WORKING RANGE

1) HX380L



Description		6.45 m (21' 2") Boom		
		2.2 m (7' 3") Arm	2.65 m (8' 8") Arm	3.2 m (10' 6") Arm
Max digging reach	A	10330 mm (33' 11")	10710mm (35' 1")	11150 mm (36' 7")
Max digging reach on ground	A'	10120 mm (33' 2")	10580mm (34' 7")	10950 mm (35' 11")
Max digging depth	B	6360 mm (20' 10")	6820 mm (22' 4")	7360 mm (24' 2")
Max digging depth (8ft level)	B'	6170 mm (20' 3")	6650 mm (21' 10")	7200 mm (23' 7")
Max vertical wall digging depth	C	5970 mm (19' 7")	6320 mm (20' 7")	6330 mm (20' 9")
Max digging height	D	10260 mm (33' 8")	10190 mm (33' 4")	10360 mm (34' 0")
Max dumping height	E	7060 mm (23' 2")	7120 mm (23' 4")	7260 mm (23' 10")
Min swing radius	F	4630 mm (15' 2")	4620 mm (15' 2")	4360 mm (14' 4")
Bucket digging force	SAE	186.3 [203.3] kN	186.3 [203.3] kN	188.3 [205.5] kN
		19000 [20730] kgf	19000 [20730] kgf	19200 [20950] kgf
		41890 [45700] lbf	41890 [45700] lbf	42330 [46190] lbf
	ISO	214.8 [234.3] kN	214.8 [234.3] kN	216.7 [236.4] kN
		21900 [23890] kgf	21900 [23890] kgf	22100 [24110] kgf
		48280 [52670] lbf	48280 [52670] lbf	48720 [53150] lbf
Arm crowd force	SAE	195.2 [212.9] kN	156.9 [171.2] kN	140.2 [153.0] kN
		19900 [21710] kgf	16000 [17480] kgf	14300 [15600] kgf
		43870 [47860] lbf	35270 [38480] lbf	31530 [34390] lbf
	ISO	205.0 [223.6] kN	162.8 [177.6] kN	145.1 [158.4] kN
		20900 [22800] kgf	16600 [18080] kgf	14800 [16150] kgf
		46080 [50270] lbf	36600 [39930] lbf	32630 [35600] lbf

[] : Power boost

4. WEIGHT













1) HX380L

Item	HX380L	
	kg	lb
Upperstructure assembly	10714.71	23621.89
Main frame weld assembly	2919.22	6435.77
Engine assembly	730	1609.37
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	6600	13230
Cab assembly	515	1135.38
Radiator assy	230	510
Oil cooler assy	80	180
Lower chassis assembly	8917.23	19659.12
Track frame weld assembly	4951.13	10915.37
Swing bearing	468	1031.76
Travel motor assembly	380	837.75
Turning joint	53	116.85
Tension cylinder	225	496
Idler	261	575.4
Sprocket	83	183
Carrier roller	79.50	175.26
Track roller	40	88.18
Track-chain assembly (600 mm standard triple grouser shoe)	2196	4841.35
Front attachment assembly (6.45 m boom, 2.65 m arm)	2879.52	6348.25
6.45 m boom assembly	272.68	601.15
2.65 m arm assembly	1219.68	2688.9
1.44 m³ SAE heaped bucket	1230	2710
Boom cylinder assembly	314.10	692.47
Arm cylinder assembly	434.70	958.34
Bucket cylinder assembly	266.3	587.09
Bucket control linkage assembly	372.06	820.25













5. LIFTING CAPACITIES

- 1) 6.45m (21'2") boom, 2.65 m (8'7") arm equipped with 600 mm (24") triple grouser shoe and 6,600 kg (13230 lb) counterweight.

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

Load Point Height		Load Radius										At max. reach		
		3.0m (9.8 ft)		4.5 m (14.8 ft)		6.0m (19.7 ft)		7.5m (24.6 ft)		9.0 (29.5 ft)		Capacity		Reach
														m (ft)
7.5m	Kg											*6990	*6990	7.2
24.6ft	lb											*15410	*15410	(23.6)
6.0m	Kg							*7110	6400			*7050	5480	8.13
19.7ft	lb							*15670	14110			*15540	12080	(26.7)
4.5m	Kg			*11190	*11190	*8840	*8840	*7690	6140			*7230	4680	8.71
14.8ft	lb			*24670	*24670	*19490	*19491	*16950	13540			*15940	10320	(28.6)
3.0m	Kg			*14550	12910	8310	8310	*8490	5820	6750	4250	6750	4250	9.00
9.8ft	lb			*32080	28460	18320	18320	*18720	12830	14880	9370	14880	9370	(29.5)
1.5m	Kg			*16970	11930	7770	7770	8840	5520	6590	4110	6560	4080	9.03
4.9ft	lb			*37410	26300	17130	17130	19490	12170	14530	9060	14460	8990	(29.6)
Ground line	Kg			*17790	11570	7450	7450	8620	5320			6720	4160	8.80
Ground line	lb			*39220	25510	16420	16420	19000	11730			14820	9170	(28.9)
-1.5m	Kg	*15040	*15040	*17480	11540	7330	7330	8530	5240			7330	4520	8.29
-4.9ft	lb	*33160	*33160	*38540	25440	16160	16160	18810	11550			16160	9960	(27.2)
-3.0m	Kg	*22610	*22610	*16230	11720	7410	7410					8720	5390	7.45
-9.8ft	lb	*49850	*49850	*35780	25840	16340	16340					19220	11880	(24.4)
-4.5m	Kg	*18600	*18600	*13680	12130	7720	7720					*9830	7500	6.12
-14.8ft	lb	*41010	*41010	*30160	26740	17020	17020					*21670	16530	(20.1)

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

Load Point Height		Load Radius										At max. reach		
		3.0m (9.8 ft)		4.5 m (14.8 ft)		6.0m (19.7 ft)		7.5m (24.6 ft)		9.0 (29.5 ft)		Capacity		Reach
														m (ft)
7.5m	Kg											*8510	7720	7.09
24.6ft	lb											*18760	17020	(23.3)
6.0m	Kg					*9010	*9010	*8450	6970			*8440	6190	8.04
19.7ft	lb					*19860	*19860	*18630	15370			*18610	13650	(26.4)
4.5m	Kg			13210	13211	*10310	9540	*8970	6780			8070	5400	8.62
14.8ft	lb			*29120	*29121	*22370	21030	*19780	14950			17790	11900	(28.3)
3.0m	Kg					*11880	9000	*9740	6510			7530	5010	8.92
9.8ft	lb					*26190	19840	*21470	14350			16600	11050	(29.3)
1.5m	Kg					*13180	8570	9580	6280			7380	4880	8.95
4.9ft	lb					*29060	18890	21120	13850			16270	10760	(29.3)
Ground line	Kg			*18160	12660	13180	8330	9420	6130			7600	5000	8.71
Ground line	lb			*40040	27910	29060	18360	20770	13510			16760	11020	(28.6)
-1.5m	Kg	*12520	*12520	*18300	12700	13110	8270	9380	6090			8280	5430	8.20
-4.9ft	lb	*27600	*27600	*40340	28000	28900	18230	20680	13430			18250	11970	(26.9)
-3.0m	Kg	*22130	*22130	*16700	12900	*12760	8380					9820	6400	7.34
-9.8ft	lb	*48790	*48790	*36820	28440	*28130	18470					21650	14110	(24.1)
-4.5m	Kg			*13570	13310							*9820	8760	5.99
-14.8ft	lb			*29920	29340							*21760	19310	(19.7)

2) 6.45m (21'2") boom, 3.2m (10'4") arm equipped with 600mm (24") triple grouser shoe and 6,600 kg (13230 lb) counterweight



Rating over-front



Rating over-side or 360 degree

Load Point Height		Load Radius										At max. reach		
		3.0m (9.8 ft)		4.5 m (14.8 ft)		6.0m (19.7 ft)		7.5m (24.6 ft)		9.0 (29.5 ft)		Capacity		Reach
														m (ft)
7.5m	Kg							*6300	*6300			*4910	*4910	7.88
24.6ft	lb							*13890	*13890			*10820	*10820	(25.9)
6.0m	Kg							*6530	*6530			*4850	*4850	8.75
19.7ft	lb							*14400	*14400			*10690	*10690	(28.7)
4.5m	Kg					*8150	*8150	*7200	6290	*6570	4500	*4990	4230	9.28
14.8ft	lb					*17970	*17970	*15870	13870	*14480	9920	*11000	9330	(30.5)
3.0m	Kg			*13430	*13430	*9830	8560	*8100	5960	6840	4330	*5320	3870	9.56
9.8ft	lb			*29610	*29610	*21670	18870	*17860	13140	15080	9550	*11730	8530	(31.4)
1.5m	Kg			*16300	12370	*11410	7990	8970	5640	6660	4170	*5870	3730	9.58
4.9ft	lb			*35940	27270	*25150	17610	19780	12430	14680	9190	*12940	8220	(31.4)
Ground line	Kg	*8690	*8690	*17710	11820	12470	7600	8710	5400	6520	4040	6120	3780	9.37
Ground line	lb	*19160	*19160	*39040	26060	27490	16760	19200	11900	14370	8910	13490	8330	(30.7)
-1.5m	Kg	*13540	*13540	*17870	11670	12260	7420	8570	5280			6590	4070	8.89
-4.9ft	lb	*29850	*29850	*39400	25730	27030	16360	18890	11640			14530	8970	(29.2)
-3.0m	Kg	*19290	*19290	*17020	11760	12260	7430	8580	5290			7620	4720	8.11
-9.8ft	lb	*42530	*42530	*37520	25930	27030	16380	18920	11660			16800	10410	(26.6)
-4.5m	Kg	*21120	*21120	*15000	12050	*11130	7620					*9200	6170	6.92
-14.8ft	lb	*46560	*46560	*33070	26570	*24540	16800					*20280	13600	(22.7)
-6.0m	Kg			*10840	*10840							*9590	*9590	5.01
-19.7ft	lb			*23900	*23900							*21140	*21140	(16.4)

- NOTES :
1. Lifting Capacity are based on SAE J1097, 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 load point is a hook (standard equipment) located on the back of the bucket.
 4. (★) Indicates load limited by hydraulic capacity.

Load Point Height		Load Radius										At max. reach		
		3.0m (9.8 ft)		4.5 m (14.8 ft)		6.0m (19.7 ft)		7.5m (24.6 ft)		9.0 (29.5 ft)		Capacity		Reach
														m (ft)
7.5m	Kg							*7750	7210			*6630	*6630	7.74
24.6ft	lb							*17090	15900			*14620	*14620	(25.4)
6.0m	Kg							*7860	7140			*6420	5620	8.62
19.7ft	lb							*17330	15740			*14150	12390	(28.3)
4.5m	Kg			*11980	*11980	*9650	*9650	*8500	6930	7650	5150	*6450	4990	9.17
14.8ft	lb			*26410	*26410	*21270	*21270	*18740	15280	16870	11350	*14220	11000	(30.1)
3.0m	Kg			*15520	14090	*11340	9250	*9380	6660	7520	5030	*6690	4660	9.44
9.8ft	lb			*34220	31060	*25000	20390	*20680	14680	16580	11090	*14750	10270	(31.0)
1.5m	Kg			*18140	13210	*12840	8770	9710	6400	7390	4910	6840	4540	9.47
4.9ft	lb			*39990	29120	*28310	19330	21410	14110	16290	10820	15080	10010	(31.1)
Ground line	Kg			*19100	12840	13340	8470	9510	6210	7290	4820	7010	4630	9.25
Ground line	lb			*42110	28310	29410	18670	20970	13690	16070	10630	15450	10210	(30.4)
-1.5m	Kg	*12280	*12280	*18880	12780	13200	8360	9420	6130			7540	4970	8.77
-4.9ft	lb	*27070	*27070	*41620	28180	29100	18430	20770	13510			16620	10960	(28.8)
-3.0m	Kg	*19800	*19800	*17670	12910	13250	8400	9470	6180			8700	5710	7.98
-9.8ft	lb	*43650	*43650	*38960	28460	29210	18520	20880	13620			19180	12590	(26.2)
-4.5m	Kg	*20570	*20570	*15170	13220	*11400	8620					*9590	7350	6.76
-14.8ft	lb	*45350	*45350	*33440	29150	*25130	19000					*21140	16200	(22.2)
-6.0m	Kg													
-19.7ft	lb													

- NOTES :
1. Lifting Capacity are based on SAE J1097, 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 load point is a hook (standard equipment) located on the back of the bucket.
 4. (★) Indicates load limited by hydraulic capacity.

3) 6.45m (21'2") boom, 2.2m (7'2") arm equipped with 600mm (24") triple grouser shoe and 6,600 kg (13230 lb) counterweight



Rating over-front



Rating over-side or 360 degree

Load Point Height		Load Radius								At max. reach	
		3.0m (9.8 ft)		4.5 m (14.8 ft)		6.0m (19.7 ft)		7.5m (24.6 ft)		Capacity	Reach
											m (ft)
7.5m	Kg									*7740	7480
24.6ft	lb									*17060	16490
6.0m	Kg					*8300	*8300	*7740	6420	*7710	5810
19.7ft	lb					*18300	*18300	*17060	14150	*17000	12810
4.5m	Kg			*12400	*12400	*9570	8960	*8250	6200	7700	4960
14.8ft	lb			*27340	*27340	*21100	19750	*18190	13670	16980	10930
3.0m	Kg					*11110	8370	*9010	5920	7120	4530
9.8ft	lb					*24470	18450	*19860	13050	15700	9990
1.5m	Kg					*12380	7900	8980	5660	6940	4380
4.9ft	lb					*27290	17420	19800	12480	15300	9660
Ground line	Kg			*18100	11850	12490	7650	8800	5500	7150	4490
Ground line	lb			*39900	26120	27540	16870	19400	12130	15760	9900
-1.5m	Kg			*17460	11900	12420	7590	8760	5470	7860	4930
-4.9ft	lb			*38490	26230	27380	16730	19310	12060	17330	10870
-3.0m	Kg	*13840	*13840	*15900	12130	*12020	7710			9470	5940
-9.8ft	lb	*30510	*30510	*35050	26470	*26500	17000			20880	13100
-4.5m	Kg	*21290	*21290	*12860	12590					*9720	8480
-14.8ft	lb	*46990	*46990	*28350	27760					*21430	18700

- NOTES :
1. Lifting Capacity are based on SAE J1097, 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 load point is a hook (standard equipment) located on the back of the bucket.
 4. (*) Indicates load limited by hydraulic capacity.

Load Point Height		Load Radius								At max. reach	
		3.0m (9.8 ft)		4.5 m (14.8 ft)		6.0m (19.7 ft)		7.5m (24.6 ft)		Capacity	Reach
											m (ft)
7.5m	Kg					*9270	*9270			*9410	8410
24.6ft	lb					*20440	*20440			*20750	18450
6.0m	Kg					*9770	*9770	*9170	6980	*9210	6650
19.7ft	lb					*21450	*21450	*20220	15390	*20300	14660
4.5m	Kg					*11050	9550	*9550	6830	8600	5790
14.8ft	lb					*24360	21050	*21050	15060	18960	12760
3.0m	Kg					*12560	9060	9930	6610	8020	5370
9.8ft	lb					*27690	19970	21890	14570	17680	11840
1.5m	Kg					13580	8700	9710	6410	7880	5250
4.9ft	lb					29440	19180	21410	14130	17370	11570
Ground line	Kg					13380	8530	9580	6300	8150	5420
Ground line	lb					29500	18810	21120	13890	17970	11950
-1.5m	Kg			*18050	13070	13360	8520	9590	6310	8980	5940
-4.9ft	lb			*39790	28810	29450	18780	21140	13910	19800	13100
-3.0m	Kg	*20300	*20300	*16130	13290	*12440	8670			*10070	7150
-9.8ft	lb	*44750	*44750	*35560	29300	*27430	19110			*22200	15700
-4.5m	Kg			*12300	*12300					*9490	*9490
-14.8ft	lb			*27120	*27120					*20920	*20920

6. BUCKET SELECTION GUIDE



General bucket



Heavy duty
(without side cutter)



Rock heavy duty

Capacity m3 (yd3)		Width mm(in)	Weight kg(lb)	Tooth	Recommendation mm(ft-in)	Recommendation mm(ft-in)	Recommendation mm(ft-in)
					6.450 (21'2") Boom	6.450 (21'2") Boom	6.450 (21'2") Boom
SAE heaped	CECE heaped				2650 (8'7") Arm	2200 (7'2") Arm	3200 (10'4") Arm
2.10 (2.75)	1.80 (2.35)	1823	1650 (3640)	5	■	●	
1.44 (1.88)	1.25 (1.63)	1278	1485 (3270)	4	●		●
▲ 1.62 (2.12)	1.40 (1.83)	1540	1570 (3460)	5	●	●	
2.3	2.02	1746	1830 (4034)	6	■	■	
▲ 1.8	1.6	1556	1722 (3796)	5	●	●	

▲ Heavy Duty Bucket

L' Rock-Heavy duty bucket [Granite/Marble Bucket]

● Applicable for materials with density of 2,100 Kg/m³ (3,500 lbf/yd³) or less

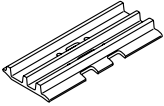
■ Applicable for materials with density of 1,500 Kg/m³ (2,500 lbf/yd³) or less

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		
					
HX360L	Shoe width	mm (in)	600 (24)	700 (28)	800 (32)
	Operating weight	kg (lb)	36070 (79521)	42081 (92774)	48093 (106027)
	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	8EA
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-1

Item	Specification
Model	HD HD Hyundai 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 × 160Ah

1) ENGINE-2

Item	Specification
Model	HD HD Hyundai 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
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
	Cushion	Extend and retract
Bucket cylinder	Bore dia × Rod dia × Stroke	Ø140 × Ø100 × 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
HX360L	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 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 and, therefore, will meet the highest safety and quality requirements.

We recommend that you use only HD Hyundai genuine lubricating oils and grease officially approved by HD 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	Tank : 210 (55.5) System : 414 (109.4)	★ISO VG 15							
			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 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.