



HX500L, HX520L T3

CRAWLER EXCAVATOR



SERVICE MANUAL

FOREWORD	4
1. Structure	4
2. How To Read The Service Manual	5
3. Conversion Table	6
SECTION 1 GENERAL	12
Group 1 Safety	13
Group 2 Specifications	22
SECTION 2 STRUCTURE AND FUNCTION	59
Group 1 Pump Device	60
Group 2 Main Control Valve	76
Group 3 Swing Device	105
Group 4 Travel Device	116
Group 5 Rcv Lever	131
Group 6 Rcv Pedal	138
SECTION 3 HYDRAULIC SYSTEM	144
Group 1 Hydraulic Circuit	145
Group 2 Main Circuit	147
Group 3 Pilot Circuit	150
Group 4 Single Operation	157
Group 5 Combined Operation	167
SECTION 4 ELECTRICAL SYSTEM	175
Group 1 Component Location	176
Group 2 Electrical Circuit	178
Memorandum	181
Group 3 Electrical Component Specification	198
Group 4 Connectors	206
SECTION 5 MECHATRONICS SYSTEM	230
Group 1 Outline	231
Group 2 Mode Selection System	233
Group 3 Automatic Deceleration System	236
Group 4 Power Boost System (null)	237
Group 5 Travel Speed Control System	238
Group 6 Automatic Warming Up System	239
Group 7 Engine Overheat Prevention System	240
Group 8 Variable Power Control System	241
Group 9 Attachment Flow Control System	242
Group 10 Intelligent Power Control System	243

Group 11 Anti-restart System	245
Group 12 Self-diagnostic System	246
Group 13 Engine Control System	290
Group 14 Eppr Valve.	291
Group 15 Monitoring System.	294
Menu	312
Group 16 Fuel Warmer System	328
SECTION 6 TROUBLESHOOTING	329
Group 1 Before Troubleshooting.	330
Group 2 Hydraulic And Mechanical System	333
Group 3 Electrical System	354
Group 4 Mechatronics Systegroup System	372
Group 5 Air Conditioner And Heater System.	401
SECTION 7 MAINTENANCE STANDARD	404
Group 1 Operational Performance Test	405
Group 2 Major Component.	425
Group 3 Track And Work Equipment.	433
SECTION 8 DISASSEMBLY AND ASSEMBLY	441
Group 1 Precautions	442
Group 2 Tightening Torque.	445
Group 3 Pump Device	449
Group 4 Main Control Valve	492
Group 5 Swing Device	505
Group 6 Travel Device	538
Group 7 Rcv Lever	568
Group 8 Turning Joint	582
Group 9 Boom, Arm And Bucket Cylinder	587
Group 10 Undercarriage	610
Group 11 Work Equipment.	622

FOREWORD

1. STRUCTURE

This service manual has been prepared as an aid to improve the quality of repairs by giving the serviceman an accurate understanding of the product and by showing him the correct way to perform repairs and make judgements. Make sure you understand the contents of this manual and use it to full effect at every opportunity.

This service manual mainly contains the necessary technical information for operations performed in a service workshop.

For ease of understanding, the manual is divided into the following sections.

SECTION 1 GENERAL

This section explains the safety hints and gives the specification of the machine and major components.

SECTION 2 STRUCTURE AND FUNCTION

This section explains the structure and function of each component. It serves not only to give an understanding of the structure, but also serves as reference material for troubleshooting.

SECTION 3 HYDRAULIC SYSTEM

This section explains the hydraulic circuit, single and combined operation.

SECTION 4 ELECTRICAL SYSTEM

This section explains the electrical circuit, monitoring system and each component. It serves not only to give an understanding electrical system, but also serves as reference material for trouble shooting.

SECTION 5 MECHATRONICS SYSTEM

This section explains the computer aided power optimization system and each component.

SECTION 6 TROUBLESHOOTING

This section explains the troubleshooting charts correlating **problems** to **causes**.

SECTION 7 MAINTENANCE STANDARD

This section gives the judgement standards when inspecting disassembled parts.

SECTION 8 DISASSEMBLY AND ASSEMBLY

This section explains the order to be followed when removing, installing, disassembling or assembling each component, as well as precautions to be taken for these operations.

The specifications contained in this shop manual are subject to change at any time and without any advance notice. Contact your HYUNDAI distributor for the latest information.

2. HOW TO READ THE SERVICE MANUAL

Distribution and updating

Any additions, amendments or other changes will be sent to HYUNDAI distributors.

Get the most up-to-date information before you start any work.

Filing method

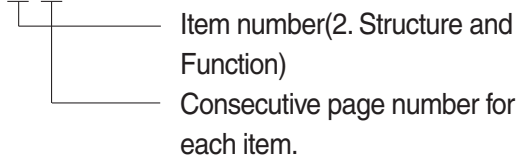
1. See the page number on the bottom of the page.

File the pages in correct order.

2. Following examples shows how to read the page number.

Example 1

2 - 3



3. Additional pages : Additional pages are indicated by a hyphen(-) and number after the page number. File as in the example.

8 - 4

8 - 4 - 1

8 - 4 - 2

8 - 5

Added pages

Revised edition mark(①②③···)

When a manual is revised, an edition mark is recorded on the bottom outside corner of the pages.

Revisions

Revised pages are shown at the list of revised pages on the between the contents page and section 1 page.

Symbols

So that the shop manual can be of ample practical use, important places for safety and quality are marked with the following symbols.

Symbol	Item	Remarks
	Safety	Special safety precautions are necessary when performing the work.
		Extra special safety precautions are necessary when performing the work because it is under internal pressure.
	Caution	Special technical precautions or other precautions for preserving standards are necessary when performing the work.

3. CONVERSION TABLE

Method of using the Conversion Table

The Conversion Table in this section is provided to enable simple conversion of figures. For details of the method of using the Conversion Table, see the example given below.

Example

1. Method of using the Conversion Table to convert from millimeters to inches

Convert 55 mm into inches.

- (1) Locate the number 50 in the vertical column at the left side, take this as (a), then draw a horizontal line from (a).
- (2) Locate the number 5 in the row across the top, take this as (b), then draw a perpendicular line down from (b).
- (3) Take the point where the two lines cross as (c). This point (c) gives the value when converting from millimeters to inches. Therefore, 55 mm = 2.165 inches.

2. Convert 550 mm into inches.

- (1) The number 550 does not appear in the table, so divide by 10 (Move the decimal point one place to the left) to convert it to 55 mm.
- (2) Carry out the same procedure as above to convert 55 mm to 2.165 inches.
- (3) The original value (550 mm) was divided by 10, so multiply 2.165 inches by 10 (Move the decimal point one place to the right) to return to the original value.
This gives 550 mm = 21.65 inches.

Millimeters to inches

(b)

1 mm = 0.03937 in

	0	1	2	3	4	5	6	7	8	9
0		0.039	0.079	0.118	0.157	0.197	0.236	0.276	0.315	0.354
10	0.394	0.433	0.472	0.512	0.551	0.591	0.630	0.669	0.709	0.748
20	0.787	0.827	0.866	0.906	0.945	0.984	1.024	1.063	1.102	1.142
30	1.181	1.220	1.260	1.299	1.339	1.378	1.417	1.457	1.496	1.536
40	1.575	1.614	1.654	1.693	1.732	1.772	1.811	1.850	1.890	1.929
(a) 50	1.969	2.008	2.047	2.087	2.126	(c) 2.165	2.205	2.244	2.283	2.323
60	2.362	2.402	2.441	2.480	2.520	2.559	2.598	2.638	2.677	2.717
70	2.756	2.795	2.835	2.874	2.913	2.953	2.992	3.032	3.071	3.110
80	3.150	3.189	3.228	3.268	3.307	3.346	3.386	3.425	3.465	3.504
90	3.543	3.583	3.622	3.661	3.701	3.740	3.780	3.819	3.858	3.898

Millimeters to inches

1 mm = 0.03937 in

	0	1	2	3	4	5	6	7	8	9
0		0.039	0.079	0.118	0.157	0.197	0.236	0.276	0.315	0.354
10	0.394	0.433	0.472	0.512	0.551	0.591	0.630	0.669	0.709	0.748
20	0.787	0.827	0.866	0.906	0.945	0.984	1.024	1.063	1.102	1.142
30	1.181	1.220	1.260	1.299	1.339	1.378	1.417	1.457	1.496	1.536
40	1.575	1.614	1.654	1.693	1.732	1.772	1.811	1.850	1.890	1.929
50	1.969	2.008	2.047	2.087	2.126	2.165	2.205	2.244	2.283	2.323
60	2.362	2.402	2.441	2.480	2.520	2.559	2.598	2.638	2.677	2.717
70	2.756	2.795	2.835	2.874	2.913	2.953	2.992	3.032	3.071	3.110
80	3.150	3.189	3.228	3.268	3.307	3.346	3.386	3.425	3.465	3.504
90	3.543	3.583	3.622	3.661	3.701	3.740	3.780	3.819	3.858	3.898

Kilogram to Pound

1 kg = 2.2046 lb

	0	1	2	3	4	5	6	7	8	9
0		2.20	4.41	6.61	8.82	11.02	13.23	15.43	17.64	19.84
10	22.05	24.25	26.46	28.66	30.86	33.07	35.27	37.48	39.68	41.89
20	44.09	46.30	48.50	50.71	51.91	55.12	57.32	59.5	61.73	63.93
30	66.14	68.34	70.55	72.75	74.96	77.16	79.37	81.57	83.78	85.98
40	88.18	90.39	92.59	94.80	97.00	99.21	101.41	103.62	105.82	108.03
50	110.23	112.44	114.64	116.85	119.05	121.25	123.46	125.66	127.87	130.07
60	132.28	134.48	136.69	138.89	141.10	143.30	145.51	147.71	149.91	152.12
70	154.32	156.53	158.73	160.94	163.14	165.35	167.55	169.76	171.96	174.17
80	176.37	178.57	180.78	182.98	185.19	187.39	189.60	191.80	194.01	196.21
90	198.42	200.62	202.83	205.03	207.24	209.44	211.64	213.85	216.05	218.26

Liter to U.S. Gallon

1 ℓ = 0.2642 U.S.Gal

	0	1	2	3	4	5	6	7	8	9
0		0.264	0.528	0.793	1.057	1.321	1.585	1.849	2.113	2.378
10	2.642	2.906	3.170	3.434	3.698	3.963	4.227	4.491	4.755	5.019
20	5.283	5.548	5.812	6.076	6.340	6.604	6.869	7.133	7.397	7.661
30	7.925	8.189	8.454	8.718	8.982	9.246	9.510	9.774	10.039	10.303
40	10.567	10.831	11.095	11.359	11.624	11.888	12.152	12.416	12.680	12.944
50	13.209	13.473	13.737	14.001	14.265	14.529	14.795	15.058	15.322	15.586
60	15.850	16.115	16.379	16.643	16.907	17.171	17.435	17.700	17.964	18.228
70	18.492	18.756	19.020	19.285	19.549	19.813	20.077	20.341	20.605	20.870
80	21.134	21.398	21.662	21.926	22.190	22.455	22.719	22.983	23.247	23.511
90	23.775	24.040	24.304	24.568	24.832	25.096	25.631	25.625	25.889	26.153

Liter to U.K. Gallon

1 ℓ = 0.21997 U.K.Gal

	0	1	2	3	4	5	6	7	8	9
0		0.220	0.440	0.660	0.880	1.100	1.320	1.540	1.760	1.980
10	2.200	2.420	2.640	2.860	3.080	3.300	3.520	3.740	3.950	4.179
20	4.399	4.619	4.839	5.059	5.279	5.499	5.719	5.939	6.159	6.379
30	6.599	6.819	7.039	7.259	7.479	7.699	7.919	8.139	8.359	8.579
40	8.799	9.019	9.239	9.459	9.679	9.899	10.119	10.339	10.559	10.778
50	10.998	11.281	11.438	11.658	11.878	12.098	12.318	12.528	12.758	12.978
60	13.198	13.418	13.638	13.858	14.078	14.298	14.518	14.738	14.958	15.178
70	15.398	15.618	15.838	16.058	16.278	16.498	16.718	16.938	17.158	17.378
80	17.598	17.818	18.037	18.257	18.477	18.697	18.917	19.137	19.357	19.577
90	19.797	20.017	20.237	20.457	20.677	20.897	21.117	21.337	21.557	21.777

kgf · m to lbf · ft

1 kgf · m = 7.233 lbf · ft

	0	1	2	3	4	5	6	7	8	9
		7.2	14.5	21.7	28.9	36.2	43.4	50.6	57.9	65.1
10	72.3	79.6	86.8	94.0	101.3	108.5	115.7	123.0	130.2	137.4
20	144.7	151.9	159.1	166.4	173.6	180.8	188.1	195.3	202.5	209.8
30	217.0	224.2	231.5	238.7	245.9	253.2	260.4	267.6	274.9	282.1
40	289.3	296.6	303.8	311.0	318.3	325.5	332.7	340.0	347.2	354.4
50	361.7	368.9	376.1	383.4	390.6	397.8	405.1	412.3	419.5	426.8
60	434.0	441.2	448.5	455.7	462.9	470.2	477.4	484.6	491.8	499.1
70	506.3	513.5	520.8	528.0	535.2	542.5	549.7	556.9	564.2	571.4
80	578.6	585.9	593.1	600.3	607.6	614.8	622.0	629.3	636.5	643.7
90	651.0	658.2	665.4	672.7	679.9	687.1	694.4	701.6	708.8	716.1
100	723.3	730.5	737.8	745.0	752.2	759.5	766.7	773.9	781.2	788.4
110	795.6	802.9	810.1	817.3	824.6	831.8	839.0	846.3	853.5	860.7
120	868.0	875.2	882.4	889.7	896.9	904.1	911.4	918.6	925.8	933.1
130	940.3	947.5	954.8	962.0	969.2	976.5	983.7	990.9	998.2	10005.4
140	1012.6	1019.9	1027.1	1034.3	1041.5	1048.8	1056.0	1063.2	1070.5	1077.7
150	1084.9	1092.2	1099.4	1106.6	1113.9	1121.1	1128.3	1135.6	1142.8	1150.0
160	1157.3	1164.5	1171.7	1179.0	1186.2	1193.4	1200.7	1207.9	1215.1	1222.4
170	1129.6	1236.8	1244.1	1251.3	1258.5	1265.8	1273.0	1280.1	1287.5	1294.7
180	1301.9	1309.2	1316.4	1323.6	1330.9	1338.1	1345.3	1352.6	1359.8	1367.0
190	1374.3	1381.5	1388.7	1396.0	1403.2	1410.4	1417.7	1424.9	1432.1	1439.4

kgf/cm² to lbf/in²

1 kgf / cm² = 14.2233 lbf / in²

	0	1	2	3	4	5	6	7	8	9
		14.2	28.4	42.7	56.9	71.1	85.3	99.6	113.8	128.0
10	142.2	156.5	170.7	184.9	199.1	213.4	227.6	241.8	256.0	270.2
20	284.5	298.7	312.9	327.1	341.4	355.6	369.8	384.0	398.3	412.5
30	426.7	440.9	455.1	469.4	483.6	497.8	512.0	526.3	540.5	554.7
40	568.9	583.2	597.4	611.6	625.8	640.1	654.3	668.5	682.7	696.9
50	711.2	725.4	739.6	753.8	768.1	782.3	796.5	810.7	825.0	839.2
60	853.4	867.6	881.8	896.1	910.3	924.5	938.7	953.0	967.2	981.4
70	995.6	1010	1024	1038	1053	1067	1081	1095	1109	1124
80	1138	1152	1166	1181	1195	1209	1223	1237	1252	1266
90	1280	1294	1309	1323	1337	1351	1365	1380	1394	1408
100	1422	1437	1451	1465	1479	1493	1508	1522	1536	1550
110	1565	1579	1593	1607	1621	1636	1650	1664	1678	1693
120	1707	1721	1735	1749	1764	1778	1792	1806	1821	1835
130	1849	2863	1877	1892	1906	1920	1934	1949	1963	1977
140	1991	2005	2020	2034	2048	2062	2077	2091	2105	2119
150	2134	2148	2162	2176	2190	2205	2219	2233	2247	2262
160	2276	2290	2304	2318	2333	2347	2361	2375	2389	2404
170	2418	2432	2446	2460	2475	2489	2503	2518	2532	2546
180	2560	2574	2589	5603	2617	2631	2646	2660	2674	2688
200	2845	2859	2873	2887	2901	2916	2930	2944	2958	2973
210	2987	3001	3015	3030	3044	3058	3072	3086	3101	3115
220	3129	3143	3158	3172	3186	3200	3214	3229	3243	3257
230	3271	3286	3300	3314	3328	3343	3357	3371	3385	3399
240	3414	3428	3442	3456	3470	3485	3499	3513	3527	3542

TEMPERATURE

Fahrenheit-Centigrade Conversion.

A simple way to convert a fahrenheit temperature reading into a centigrade temperature reading or vice verse is to enter the accompanying table in the center or boldface column of figures.

These figures refer to the temperature in either Fahrenheit or Centigrade degrees.

If it is desired to convert from Fahrenheit to Centigrade degrees, consider the center column as a table of Fahrenheit temperatures and read the corresponding Centigrade temperature in the column at the left.

If it is desired to convert from Centigrade to Fahrenheit degrees, consider the center column as a table of Centigrade values, and read the corresponding Fahrenheit temperature on the right.

°C		°F	°C		°F	°C		°F	°C		°F
-40.4	-40	-40.0	-11.7	11	51.8	7.8	46	114.8	27.2	81	117.8
-37.2	-35	-31.0	-11.1	12	53.6	8.3	47	116.6	27.8	82	179.6
-34.4	-30	-22.0	-10.6	13	55.4	8.9	48	118.4	28.3	83	181.4
-31.7	-25	-13.0	-10.0	14	57.2	9.4	49	120.2	28.9	84	183.2
-28.9	-20	-4.0	-9.4	15	59.0	10.0	50	122.0	29.4	85	185.0
-28.3	-19	-2.2	-8.9	16	60.8	10.6	51	123.8	30.0	86	186.8
-27.8	-18	-0.4	-8.3	17	62.6	11.1	52	125.6	30.6	87	188.6
-27.2	-17	1.4	-7.8	18	64.4	11.7	53	127.4	31.1	88	190.4
-26.7	-16	3.2	-6.7	20	68.0	12.8	55	131.0	32.2	90	194.0
-26.1	-15	5.0	-6.7	20	68.0	12.8	55	131.0	32.2	90	194.0
-25.6	-14	6.8	-6.1	21	69.8	13.3	56	132.8	32.8	91	195.8
-25.0	-13	8.6	-5.6	22	71.6	13.9	57	134.6	33.3	92	197.6
-24.4	-12	10.4	-5.0	23	73.4	14.4	58	136.4	33.9	93	199.4
-23.9	-11	12.2	-4.4	24	75.2	15.0	59	138.2	34.4	94	201.2
-23.3	-10	14.0	-3.9	25	77.0	15.6	60	140.0	35.0	95	203.0
-22.8	-9	15.8	-3.3	26	78.8	16.1	61	141.8	35.6	96	204.8
-22.2	-8	17.6	-2.8	27	80.6	16.7	62	143.6	36.1	97	206.6
-21.7	-7	19.4	-2.2	28	82.4	17.2	63	145.4	36.7	98	208.4
-21.1	-6	21.2	-1.7	29	84.2	17.8	64	147.2	37.2	99	210.2
-20.6	-5	23.0	-1.1	35	95.0	21.1	70	158.0	51.7	125	257.0
-20.0	-4	24.8	-0.6	31	87.8	18.9	66	150.8	40.6	105	221.0
-19.4	-3	26.6	0	32	89.6	19.4	67	152.6	43.3	110	230.0
-18.9	-2	28.4	0.6	33	91.4	20.0	68	154.4	46.1	115	239.0
-18.3	-1	30.2	1.1	34	93.2	20.6	69	156.2	48.9	120	248.0
-17.8	0	32.0	1.7	35	95.0	21.1	70	158.0	51.7	125	257.0
-17.2	1	33.8	2.2	36	96.8	21.7	71	159.8	54.4	130	266.0
-16.7	2	35.6	2.8	37	98.6	22.2	72	161.6	57.2	135	275.0
-16.1	3	37.4	3.3	38	100.4	22.8	73	163.4	60.0	140	284.0
-15.6	4	39.2	3.9	39	102.2	23.3	74	165.2	62.7	145	293.0
-15.0	5	41.0	4.4	40	104.0	23.9	75	167.0	65.6	150	302.0
-14.4	6	42.8	5.0	41	105.8	24.4	76	168.8	68.3	155	311.0
-13.9	7	44.6	5.6	42	107.6	25.0	77	170.6	71.1	160	320.0
-13.3	8	46.4	6.1	43	109.4	25.6	78	172.4	73.9	165	329.0
-12.8	9	48.2	6.7	44	111.2	26.1	79	174.2	76.7	170	338.0
-12.2	10	50.0	7.2	45	113.0	26.7	80	176.0	79.4	172	347.0

SECTION 1 GENERAL

Group 1 Safety Hints	1-1
Group 2 Specifications	1-10

SECTION 1 GENERAL

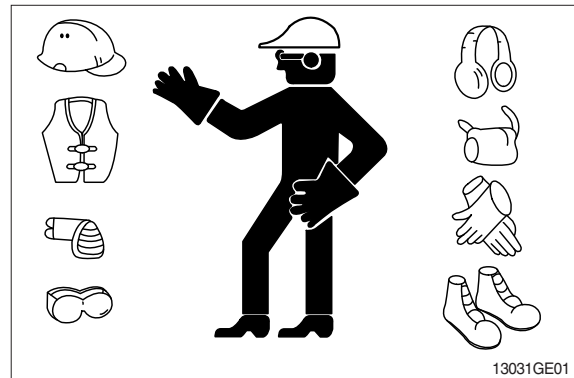
GROUP 1 SAFETY

FOLLOW SAFE PROCEDURE

Unsafe work practices are dangerous.
Understand service procedure before doing work; Do not attempt shortcuts.

WEAR PROTECTIVE CLOTHING

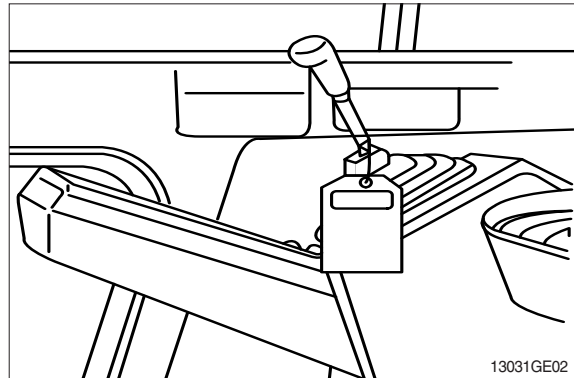
Wear close fitting clothing and safety equipment appropriate to the job.



WARN OTHERS OF SERVICE WORK

Unexpected machine movement can cause serious injury.

Before performing any work on the excavator, attach a **「Do Not Operate」** tag on the right side control lever.



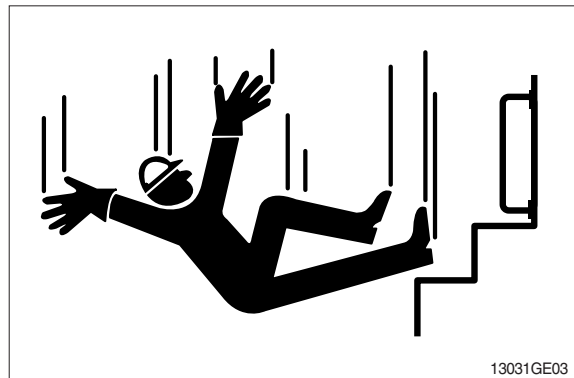
USE HANDHOLDS AND STEPS

Falling is one of the major causes of personal injury.

When you get on and off the machine, always maintain a three point contact with the steps and handrails and face the machine. Do not use any controls as handholds.

Never jump on or off the machine. Never mount or dismount a moving machine.

Be careful of slippery conditions on platforms, steps, and handrails when leaving the machine.

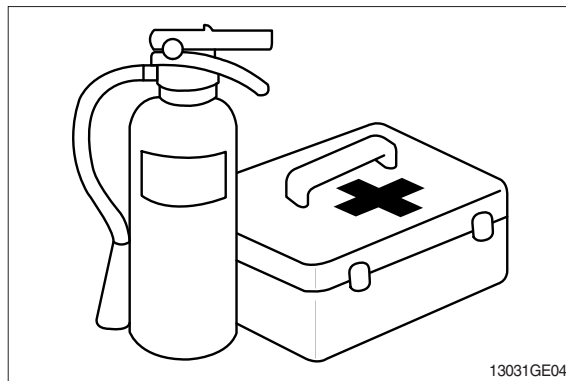


PREPARE FOR EMERGENCIES

Be prepared if a fire starts.

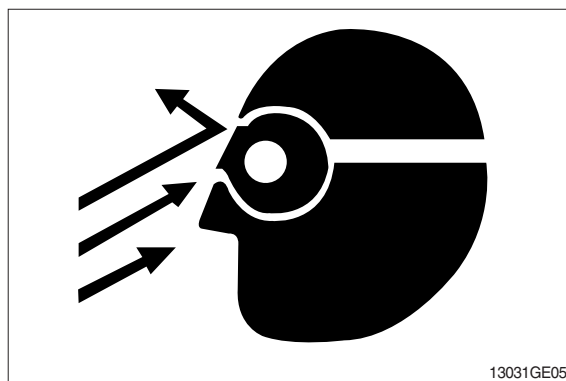
Keep a first aid kit and fire extinguisher handy.

Keep emergency numbers for doctors, ambulance service, hospital, and fire department near your telephone.



PROTECT AGAINST FLYING DEBRIS

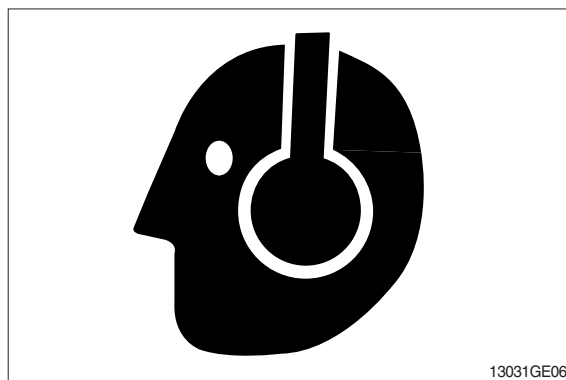
Guard against injury from flying pieces of metal or debris; Wear goggles or safety glasses.



PROTECT AGAINST NOISE

Prolonged exposure to loud noise can cause impairment or loss of hearing.

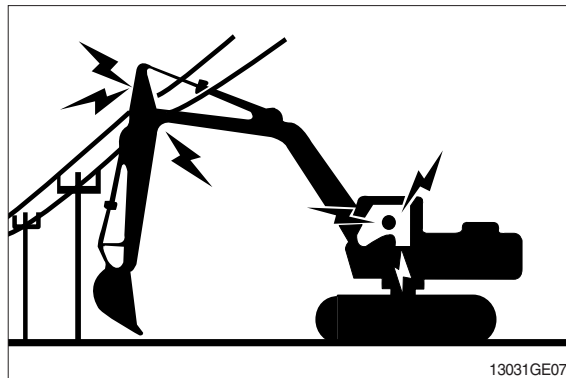
Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.



AVOID POWER LINES

Serious injury or death can result from contact with electric lines.

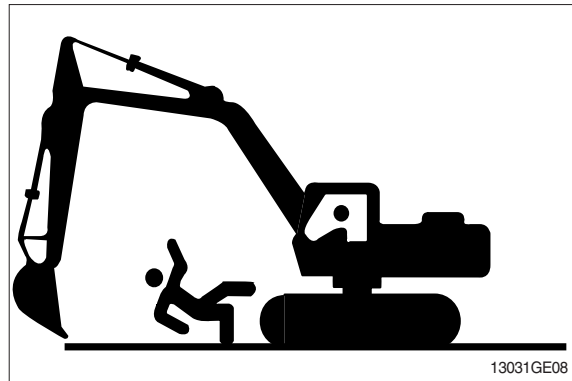
Never move any part of the machine or load closer to electric line than 3m(10ft) plus twice the line insulator length.



KEEP RIDERS OFF EXCAVATOR

Only allow the operator on the excavator. Keep riders off.

Riders on excavator are subject to injury such as being struck by foreign objects and being thrown off the excavator. Riders also obstruct the operator's view resulting in the excavator being operated in an unsafe manner.

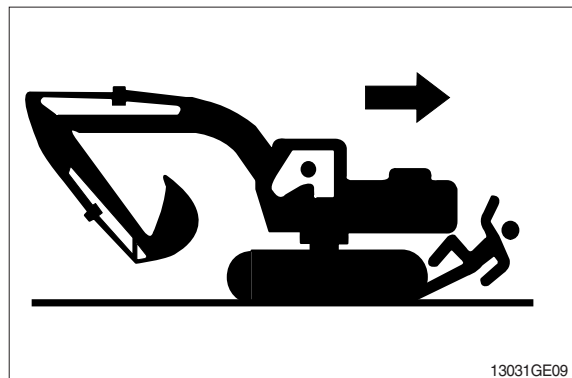


MOVE AND OPERATE MACHINE SAFELY

Bystanders can be run over. Know the location of bystanders before moving, swinging, or operating the machine.

Always keep the travel alarm in working condition. It warns people when the excavator starts to move.

Use a signal person when moving, swinging, or operating the machine in congested areas. Coordinate hand signals before starting the excavator.



OPERATE ONLY FROM OPERATOR'S SEAT

Avoid possible injury machine damage. Do not start engine by shorting across starter terminals.

NEVER start engine while standing on ground. Start engine only from operator's seat.



PARK MACHINE SAFELY

Before working on the machine:

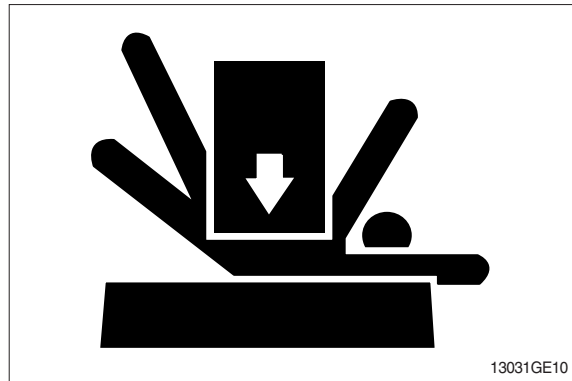
- Park machine on a level surface.
- Lower bucket to the ground.
- Turn auto idle switch off.
- Run engine at 1/2 speed without load for 2 minutes.
- Turn key switch to OFF to stop engine. Remove key from switch.
- Move pilot control shutoff lever to locked position.
- Allow engine to cool.

SUPPORT MACHINE PROPERLY

Always lower the attachment or implement to the ground before you work on the machine. If you must work on a lifted machine or attachment, securely support the machine or attachment.

Do not support the machine on cinder blocks, hollow tiles, or props that may crumble under continuous load.

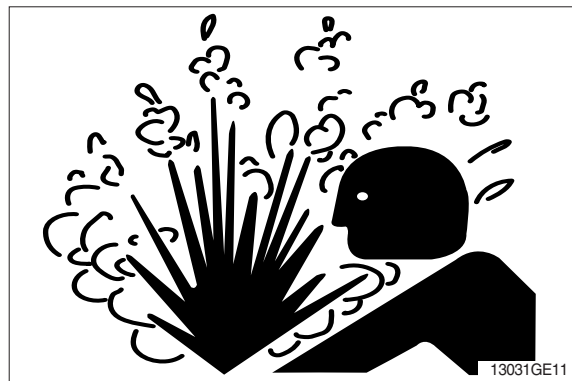
Do not work under a machine that is supported solely by a jack. Follow recommended procedures in this manual.



SERVICE COOLING SYSTEM SAFELY

Explosive release of fluids from pressurized cooling system can cause serious burns.

Shut off engine. Only remove filler cap when cool enough to touch with bare hands.



HANDLE FLUIDS SAFELY-AVOID FIRES

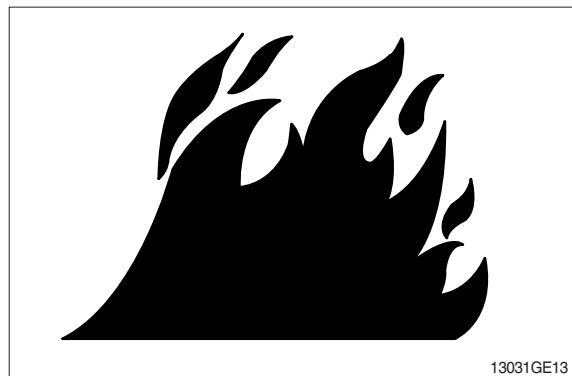
Handle fuel with care; It is highly flammable. Do not refuel the machine while smoking or when near open flame or sparks. Always stop engine before refueling machine. Fill fuel tank outdoors.



Store flammable fluids away from fire hazards. Do not incinerate or puncture pressurized containers.

Make sure machine is clean of trash, grease, and debris.

Do not store oily rags; They can ignite and burn spontaneously.



BEWARE OF EXHAUST FUMES

Prevent asphyxiation. Engine exhaust fumes can cause sickness or death.

If you must operate in a building, be positive there is adequate ventilation. Either use an exhaust pipe extension to remove the exhaust fumes or open doors and windows to bring enough outside air into the area.

REMOVE PAINT BEFORE WELDING OR HEATING

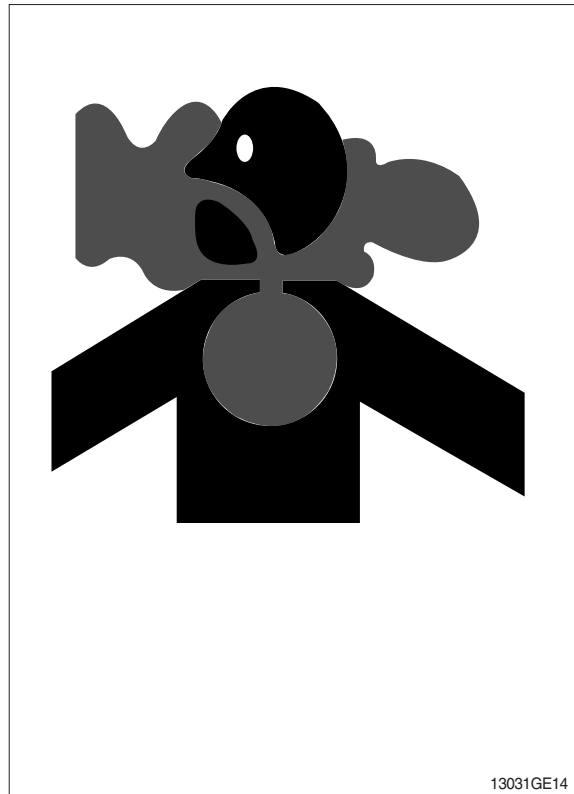
Avoid potentially toxic fumes and dust.

Hazardous fumes can be generated when paint is heated by welding, soldering, or using a torch.

Do all work outside or in a well ventilated area. Dispose of paint and solvent properly.

Remove paint before welding or heating:

- If you sand or grind paint, avoid breathing the dust.
Wear an approved respirator.
- If you use solvent or paint stripper, remove stripper with soap and water before welding. Remove solvent or paint stripper containers and other flammable material from area. Allow fumes to disperse at least 15 minutes before welding or heating.



ILLUMINATE WORK AREA SAFELY

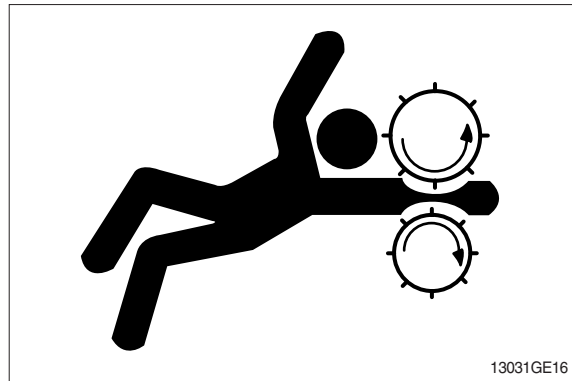
Illuminate your work area adequately but safely. Use a portable safety light for working inside or under the machine. Make sure the bulb is enclosed by a wire cage. The hot filament of an accidentally broken bulb can ignite spilled fuel or oil.



SERVICE MACHINE SAFELY

Tie long hair behind your head. Do not wear a necktie, scarf, loose clothing or necklace when you work near machine tools or moving parts. If these items were to get caught, severe injury could result.

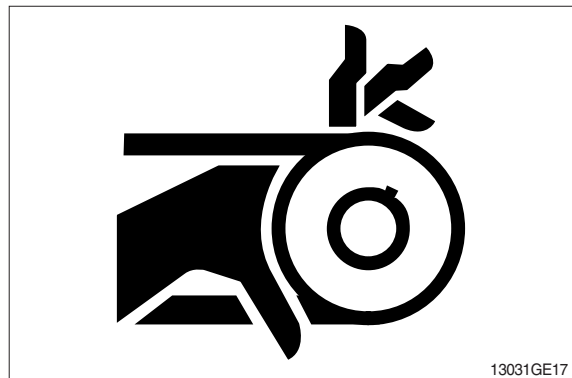
Remove rings and other jewelry to prevent electrical shorts and entanglement in moving parts.



STAY CLEAR OF MOVING PARTS

Entanglements in moving parts can cause serious injury.

To prevent accidents, use care when working around rotating parts.



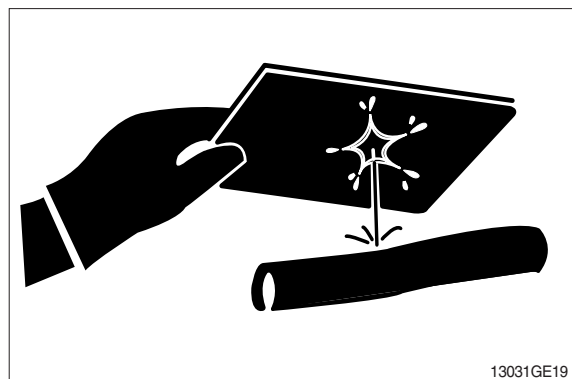
AVOID HIGH PRESSURE FLUIDS

Escaping fluid under pressure can penetrate the skin causing serious injury.

Avoid the hazard by relieving pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure.

Search for leaks with a piece of cardboard. Protect hands and body from high pressure fluids.

If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result.



AVOID HEATING NEAR PRESSURIZED FLUID LINES

Flammable spray can be generated by heating near pressurized fluid lines, resulting in severe burns to yourself and bystanders. Do not heat by welding, soldering, or using a torch near pressurized fluid lines or other flammable materials.

Pressurized lines can be accidentally cut when heat goes beyond the immediate flame area. Install fire resisting guards to protect hoses or other materials.



PREVENT BATTERY EXPLOSIONS

Keep sparks, lighted matches, and flame away from the top of battery. Battery gas can explode.

Never check battery charge by placing a metal object across the posts. Use a volt-meter or hydrometer.

Do not charge a frozen battery; It may explode. Warm battery to 16°C (60°F).



PREVENT ACID BURNS

Sulfuric acid in battery electrolyte is poisonous. It is strong enough to burn skin, eat holes in clothing, and cause blindness if splashed into eyes.

Avoid the hazard by:

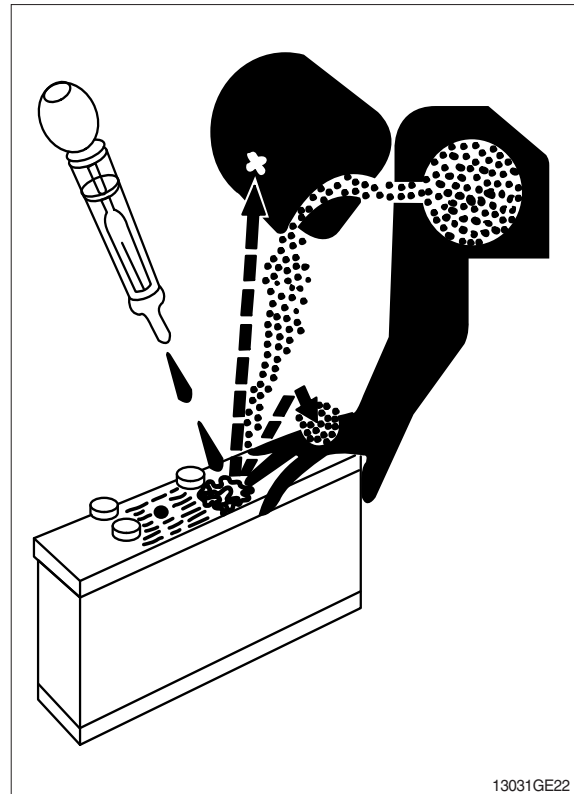
1. Filling batteries in a well-ventilated area.
2. Wearing eye protection and rubber gloves.
3. Avoiding breathing fumes when electrolyte is added.
4. Avoiding spilling or dripping electrolyte.
5. Use proper jump start procedure.

If you spill acid on yourself:

1. Flush your skin with water.
2. Apply baking soda or lime to help neutralize the acid.
3. Flush your eyes with water for 10-15 minutes. Get medical attention immediately.

If acid is swallowed:

1. Drink large amounts of water or milk.
2. Then drink milk of magnesia, beaten eggs, or vegetable oil.
3. Get medical attention immediately.



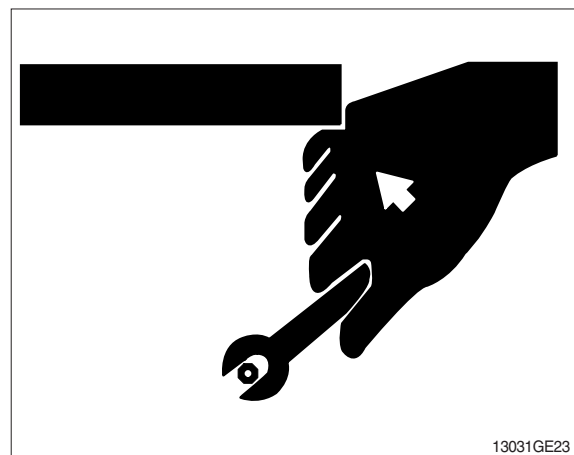
USE TOOLS PROPERLY

Use tools appropriate to the work. Makeshift tools, parts, and procedures can create safety hazards.

Use power tools only to loosen threaded tools and fasteners.

For loosening and tightening hardware, use the correct size tools. DO NOT use U.S. measurement tools on metric fasteners. Avoid bodily injury caused by slipping wrenches.

Use only recommended replacement parts. (See Parts catalogue.)

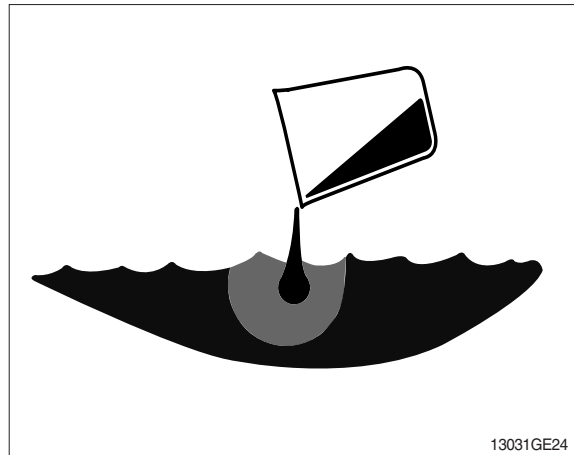


DISPOSE OF FLUIDS PROPERLY

Improperly disposing of fluids can harm the environment and ecology. Before draining any fluids, find out the proper way to dispose of waste from your local environmental agency.

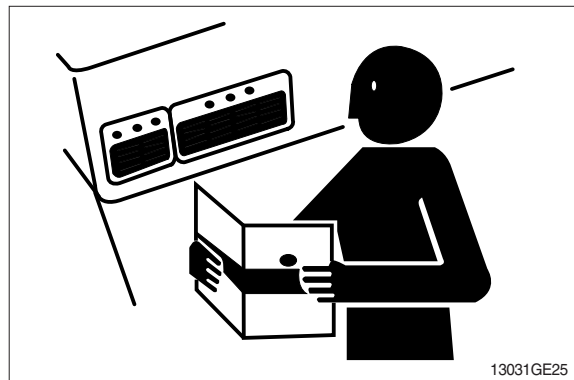
Use proper containers when draining fluids. Do not use food or beverage containers that may mislead someone into drinking from them.

DO NOT pour oil into the ground, down a drain, or into a stream, pond, or lake. Observe relevant environmental protection regulations when disposing of oil, fuel, coolant, brake fluid, filters, batteries, and other harmful waste.



REPLACE SAFETY SIGNS

Replace missing or damaged safety signs. See the machine operator's manual for correct safety sign placement.

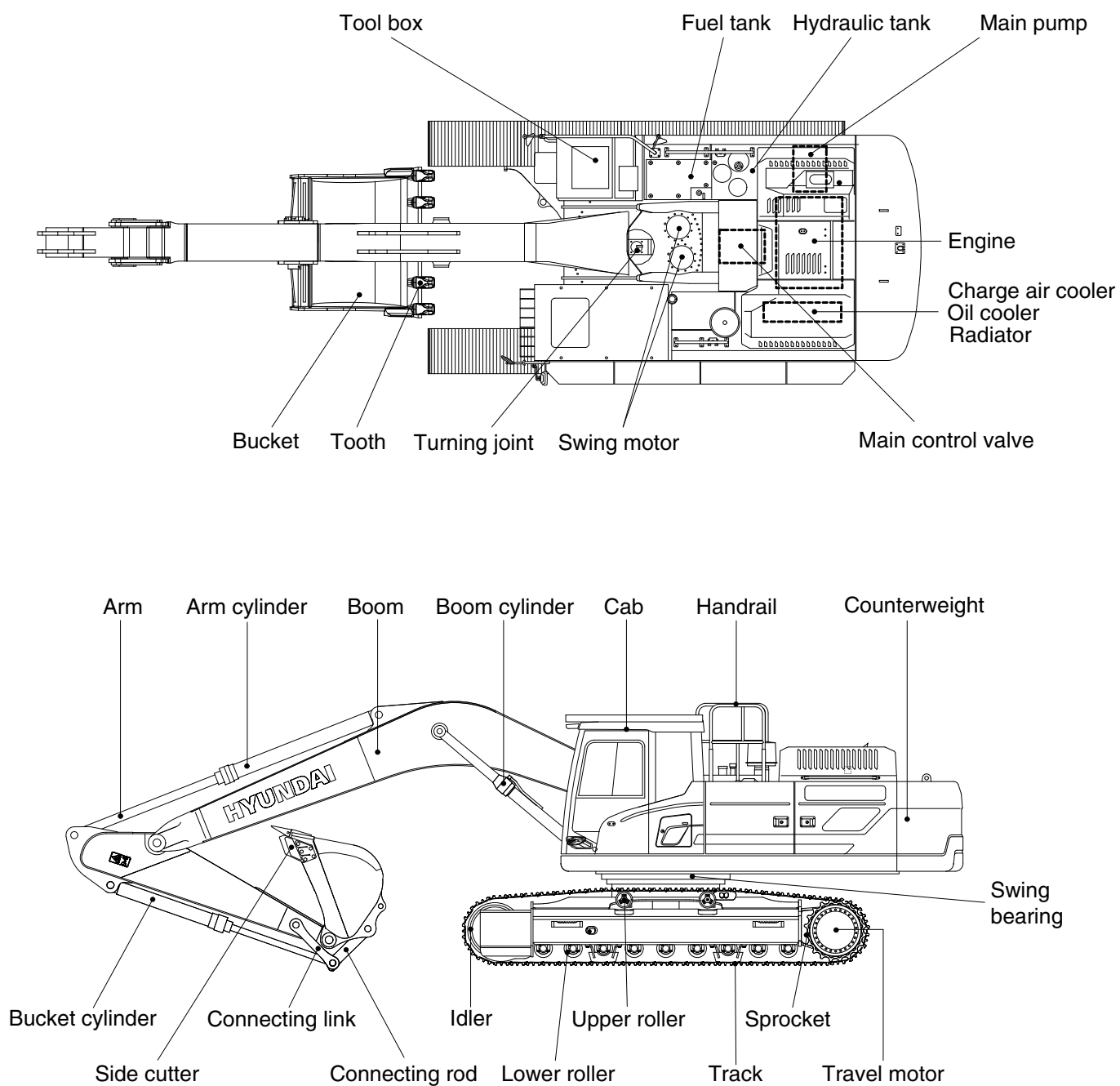


LIVE WITH SAFETY

Before returning machine to customer, make sure machine is functioning properly, especially the safety systems. Install all guards and shields.

GROUP 2 SPECIFICATIONS

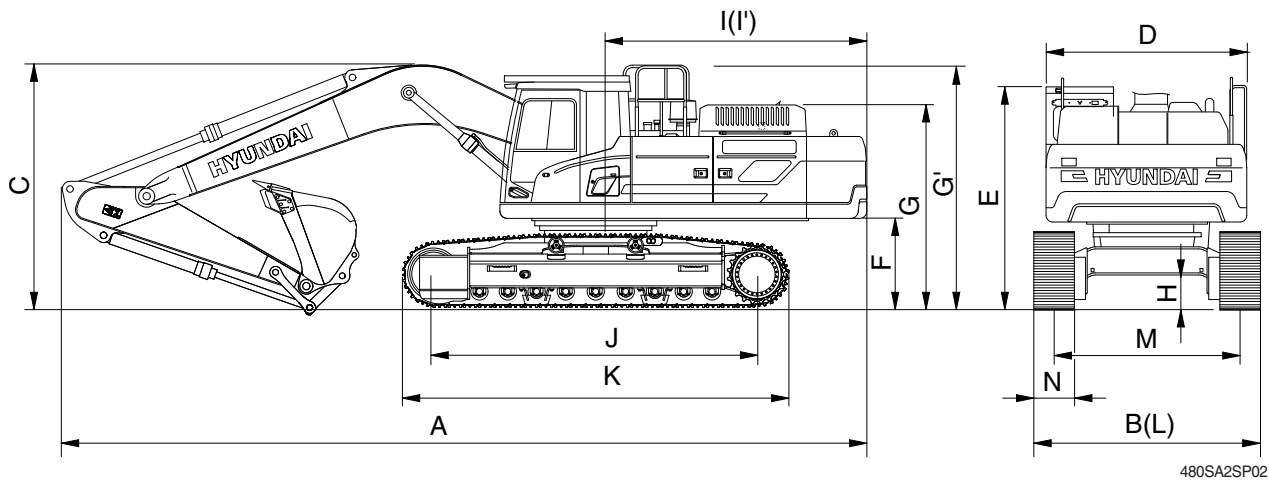
1. MAJOR COMPONENT



480SA2SP01

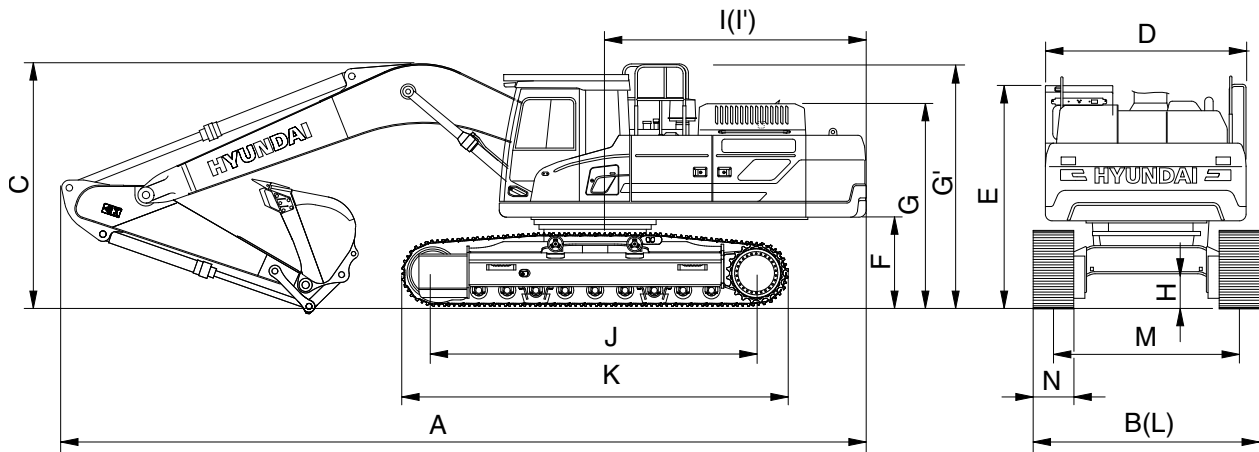
2. SPECIFICATIONS

1) HX500LT3 (1/2)



Description		Unit	Specification			
		m (ft-in)	Boom	7.06 (23' 2")		
			Arm	3.38 (11' 1")	2.90 (9' 6")	4.00 (13' 1")
		mm (in)	Shoe	600 (24)		
Operating weight		kg (lb)		48860 (107720)	48790 (107560)	48850 (107700)
Bucket capacity (SAE heaped), standard		m³ (yd³)		2.20 (2.88)	2.20 (2.88)	2.20 (2.88)
Overall length	A	mm (ft-in)		12210 (40' 1")	12220 (40' 1")	12160 (39' 11")
Overall width	B			3340 (10' 11")	3340 (10' 11")	3340 (10' 11")
Overall height of boom	C			3790 (12' 5")	3850 (12' 8")	3850 (12' 8")
Superstructure width	D			2980 (9' 9")	2980 (9' 9")	2980 (9' 9")
Overall height of cab	E			3240 (10' 8")	3240 (10' 8")	3240 (10' 8")
Ground clearance of counterweight	F			1370 (4' 6")	1370 (4' 6")	1370 (4' 6")
Overall height of engine hood	G			3140 (10' 4")	3140 (10' 4")	3140 (10' 4")
Overall height of handrail	G'			3610 (11' 10")	3610 (11' 10")	3610 (11' 10")
Minimum ground clearance	H			585 (1' 11")	585 (1' 11")	585 (1' 11")
Rear-end distance	I			3745 (12' 3")	3745 (12' 3")	3745 (12' 3")
Rear-end swing radius	I'			3800 (12' 6")	3800 (12' 6")	3800 (12' 6")
Distance between tumblers	J			4470 (14' 8")	4470 (14' 8")	4470 (14' 8")
Undercarriage length (without grouser)	K			5416 (17' 9")	5416 (17' 9")	5416 (17' 9")
Undercarriage length (with grouser)	K			5490 (18' 0")	5490 (18' 0")	5490 (18' 0")
Undercarriage width	L			3340 (10' 11")	3340 (10' 11")	3340 (10' 11")
Track gauge	M			2740 (9' 0")	2740 (9' 0")	2740 (9' 0")
Track shoe width, standard	N			600 (24")	600 (24")	600 (24")
Travel speed (low/high)		km/hr (mph)		3.2/5.2 (2.0/3.2)	3.2/5.2 (2.0/3.2)	3.2/5.2 (2.0/3.2)
Swing speed		rpm		8.8	8.8	8.8
Gradeability		Degree (%)		35 (70)	35 (70)	35 (70)
Ground pressure		kgf/cm² (psi)		0.85 (12.1)	0.85 (12.1)	0.85 (12.1)
Max traction force		kg (lb)		39674 (87466)	39674 (87466)	39674 (87466)

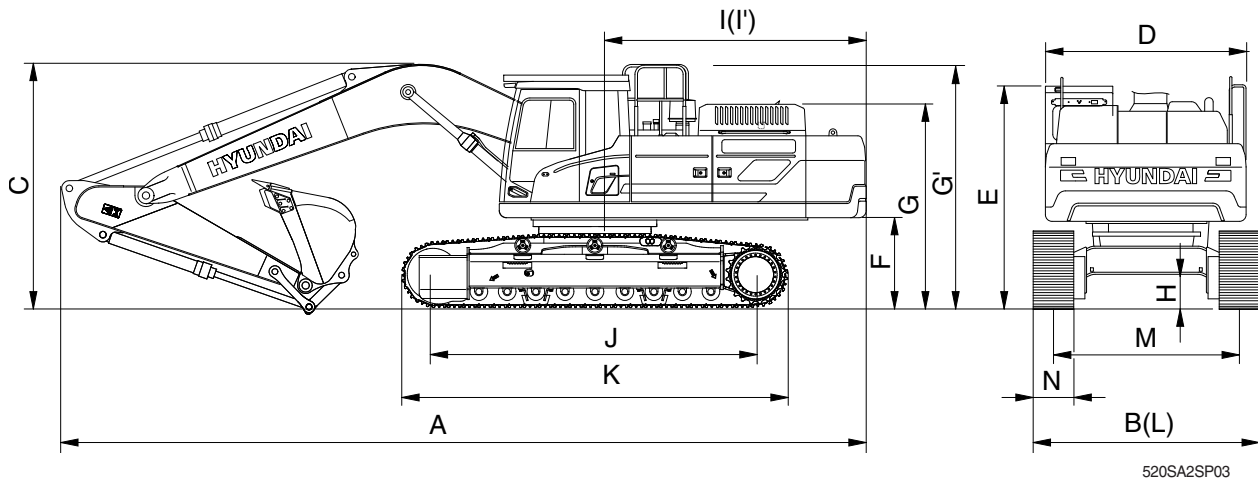
2) HX500LT3 (2/2)



480SA2SP02

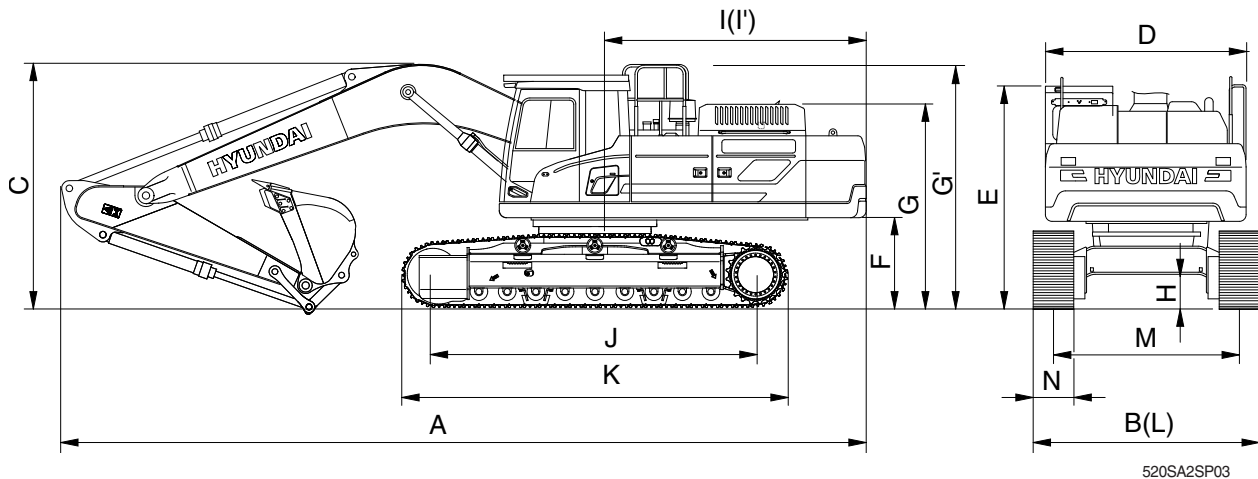
Description		Unit		Specification	
		m (ft-in)	Boom	6.55 (21' 6")	9.00 (29' 6")
			Arm	2.55 (8' 4")	6.00 (19' 8")
		mm (in)	Shoe	600 (24)	
Operating weight		kg (lb)		48430 (106770)	49690 (109550)
Bucket capacity (SAE heaped), standard		m ³ (yd ³)		2.20 (2.88)	1.38 (1.80)
Overall length	A	mm (ft-in)		11680 (38' 4")	14070 (46' 2")
Overall width	B			3340 (10' 11")	3340 (10' 11")
Overall height of boom	C			3790 (12' 5")	3970 (13' 0")
Superstructure width	D			2980 (9' 9")	2980 (9' 9")
Overall height of cab	E			3240 (10' 8")	3240 (10' 8")
Ground clearance of counterweight	F			1370 (4' 6")	1370 (4' 6")
Overall height of engine hood	G			3140 (10' 4")	3140 (10' 4")
Overall height of handrail	G'			3610 (11' 10")	3610 (11' 10")
Minimum ground clearance	H			585 (1' 11")	585 (1' 11")
Rear-end distance	I			3745 (12' 3")	3745 (12' 3")
Rear-end swing radius	I'			3800 (12' 6")	3800 (12' 6")
Distance between tumblers	J			4470 (14' 8")	4470 (14' 8")
Undercarriage length (without grouser)	K			5416 (17' 9")	5416 (17' 9")
Undercarriage length (with grouser)	K			5490 (18' 0")	5490 (18' 0")
Undercarriage width	L			3340 (10' 11")	3340 (10' 11")
Track gauge	M			2740 (9' 0")	2740 (9' 0")
Track shoe width, standard	N			600 (24")	600 (24")
Travel speed (low/high)		km/hr (mph)		3.2/5.2 (2.0/3.2)	3.2/5.2 (2.0/3.2)
Swing speed		rpm		8.8	8.8
Gradeability		Degree (%)		35 (70)	35 (70)
Ground pressure		kgf/cm ² (psi)		0.84 (12.0)	0.86 (12.3)
Max traction force		kg (lb)		39674 (87466)	39674 (87466)

3) HX520LT3 (1/2)



Description	Unit		Specification			
	m (ft-in)	Boom	7.06 (23' 2")			
		Arm	3.38 (11' 1")	2.90 (9' 6")	4.00 (13' 1")	2.55 (8' 4")
	mm (in)	Shoe	600 (24)			
Operating weight	kg (lb)		51390 (113300)	51320 (113140)	51380 (113270)	51140 (112740)
Bucket capacity (SAE heaped), standard	m ³ (yd ³)		2.20 (2.88)	2.20 (2.88)	2.20 (2.88)	2.20 (2.88)
Overall length	A	mm (ft-in)	12200 (40' 0")	12210 (40' 1")	12160 (39' 11")	12150 (39' 10")
Overall width (transport position)	B		2980 (9' 9")	2980 (9' 9")	2980 (9' 9")	2980 (9' 9")
Overall width (working position)	B		3540 (11' 7")	3540 (11' 7")	3540 (11' 7")	3540 (11' 7")
Overall height of boom	C		3830 (12' 7")	3890 (12' 9")	3850 (12' 8")	3980 (13' 1")
Superstructure width	D		2980 (9' 9")	2980 (9' 9")	2980 (9' 9")	2980 (9' 9")
Overall height of cab	E		3385 (11' 1")	3385 (11' 1")	3385 (11' 1")	3385 (11' 1")
Ground clearance of counterweight	F		1445 (4' 9")	1445 (4' 9")	1445 (4' 9")	1445 (4' 9")
Overall height of engine hood	G		3140 (10' 4")	3140 (10' 4")	3140 (10' 4")	3140 (10' 4")
Overall height of handrail	G'		3600 (11' 10")	3600 (11' 10")	3600 (11' 10")	3600 (11' 10")
Minimum ground clearance	H		780 (2' 7")	780 (2' 7")	780 (2' 7")	780 (2' 7")
Rear-end distance	I		3745 (12' 3")	3745 (12' 3")	3745 (12' 3")	3745 (12' 3")
Rear-end swing radius	I'		3800 (12' 6")	3800 (12' 6")	3800 (12' 6")	3800 (12' 6")
Distance between tumblers	J		4470 (14' 8")	4470 (14' 8")	4470 (14' 8")	4470 (14' 8")
Undercarriage length (transport position)	K		5416 (17' 9")	5416 (17' 9")	5416 (17' 9")	5416 (17' 9")
Undercarriage length (working position)	K		5490 (18' 0")	5490 (18' 0")	5490 (18' 0")	5490 (18' 0")
Undercarriage width (transport position)	L		2980 (9' 9")	2980 (9' 9")	2980 (9' 9")	2980 (9' 9")
Undercarriage width (working position)	L		3540 (11' 7")	3540 (11' 7")	3540 (11' 7")	3540 (11' 7")
Track gauge (transport position)	M		2380 (7' 10")	2380 (7' 10")	2380 (7' 10")	2380 (7' 10")
Track gauge (working position)	M		2940 (9' 8")	2940 (9' 8")	2940 (9' 8")	2940 (9' 8")
Track shoe width, standard	N		600 (24")	600 (24")	600 (24")	600 (24")
Travel speed (low/high)	km/hr (mph)		3.2/5.2 (2.0/3.2)	3.2/5.2 (2.0/3.2)	3.2/5.2 (2.0/3.2)	3.2/5.2 (2.0/3.2)
Swing speed	rpm		8.8	8.8	8.8	8.8
Gradeability	Degree (%)		35 (70)	35 (70)	35 (70)	35 (70)
Ground pressure	kgf/cm ² (psi)		0.89 (12.7)	0.89 (12.7)	0.89 (12.7)	0.89 (12.6)
Max traction force	kg (lb)		39674 (87466)	39674 (87466)	39674 (87466)	34100 (87466)

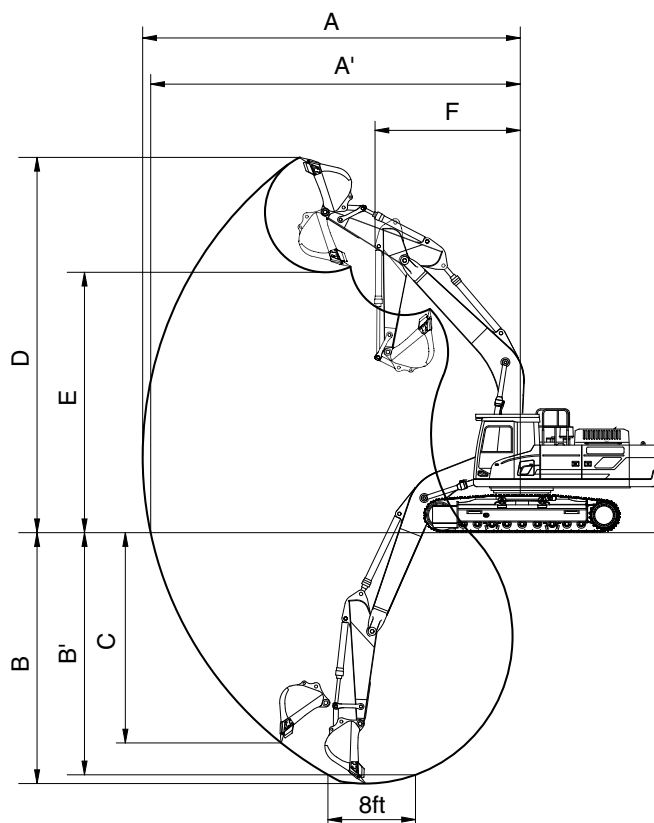
4) HX520LT3 (2/2)



Description	Unit		Specification			
	m (ft-in)	Boom	6.55 (21' 6")			9.00 (29' 6")
		Arm	3.38 (11' 1")	2.90 (9' 6")	2.55 (8' 4")	6.00 (19' 8")
	mm (in)	Shoe	600 (24)			
Operating weight	kg (lb)		51200 (112880)	51130 (112720)	50960 (112350)	52200 (115080)
Bucket capacity (SAE heaped), standard	m ³ (yd ³)		2.20 (2.88)	2.20 (2.88)	2.20 (2.88)	1.38 (1.80)
Overall length	A	mm (ft-in)	11680 (38' 4")	11690 (38' 4")	11650 (38' 3")	14080 (46' 2")
Overall width (transport position)	B		2980 (9' 9")	2980 (9' 9")	2980 (9' 9")	2980 (9' 9")
Overall width (working position)	B		3540 (11' 7")	3540 (11' 7")	3540 (11' 7")	3540 (11' 7")
Overall height of boom	C		3920 (12' 10")	3970 (13' 0")	3900 (12' 10")	3970 (13' 0")
Superstructure width	D		2980 (9' 9")	2980 (9' 9")	2980 (9' 9")	2980 (9' 9")
Overall height of cab	E		3385 (11' 1")	3385 (11' 1")	3385 (11' 1")	3385 (11' 1")
Ground clearance of counterweight	F		1445 (4' 9")	1445 (4' 9")	1445 (4' 9")	1445 (4' 9")
Overall height of engine hood	G		3140 (10' 4")	3140 (10' 4")	3140 (10' 4")	3140 (10' 4")
Overall height of handrail	G'		3600 (11' 10")	3600 (11' 10")	3600 (11' 10")	3600 (11' 10")
Minimum ground clearance	H		770 (2' 6")	770 (2' 6")	770 (2' 6")	770 (2' 6")
Rear-end distance	I		3745 (12' 3")	3745 (12' 3")	3745 (12' 3")	3745 (12' 3")
Rear-end swing radius	I'		3800 (12' 6")	3800 (12' 6")	3800 (12' 6")	3800 (12' 6")
Distance between tumblers	J		4470 (14' 8")	4470 (14' 8")	4470 (14' 8")	4470 (14' 8")
Undercarriage length (transport position)	K		5416 (17' 9")	5416 (17' 9")	5416 (17' 9")	5416 (17' 9")
Undercarriage length (working position)	K		5490 (18' 0")	5490 (18' 0")	5490 (18' 0")	5490 (18' 0")
Undercarriage width (transport position)	L		2980 (9' 9")	2980 (9' 9")	2980 (9' 9")	2980 (9' 9")
Undercarriage width (working position)	L		3540 (11' 7")	3540 (11' 7")	3540 (11' 7")	3540 (11' 7")
Track gauge (transport position)	M		2380 (7' 10")	2380 (7' 10")	2380 (7' 10")	2380 (7' 10")
Track gauge (working position)	M		2940 (9' 8")	2940 (9' 8")	2940 (9' 8")	2940 (9' 8")
Track shoe width, standard	N		600 (24")	600 (24")	600 (24")	600 (24")
Travel speed (low/high)	km/hr (mph)		3.2/5.2 (2.0/3.2)	3.2/5.2 (2.0/3.2)	3.2/5.2 (2.0/3.2)	3.2/5.2 (2.0/3.2)
Swing speed	rpm		8.8	8.8	8.8	8.8
Gradeability	Degree (%)		35 (70)	35 (70)	35 (70)	35 (70)
Ground pressure	kgf/cm ² (psi)		0.89 (12.6)	0.89 (12.6)	0.89 (12.6)	0.91 (12.9)
Max traction force	kg (lb)		39674 (87466)	39674 (87466)	39674 (87466)	34100 (87466)

3. WORKING RANGE AND DIGGING FORCE

1) HX500LT3 (1/2)

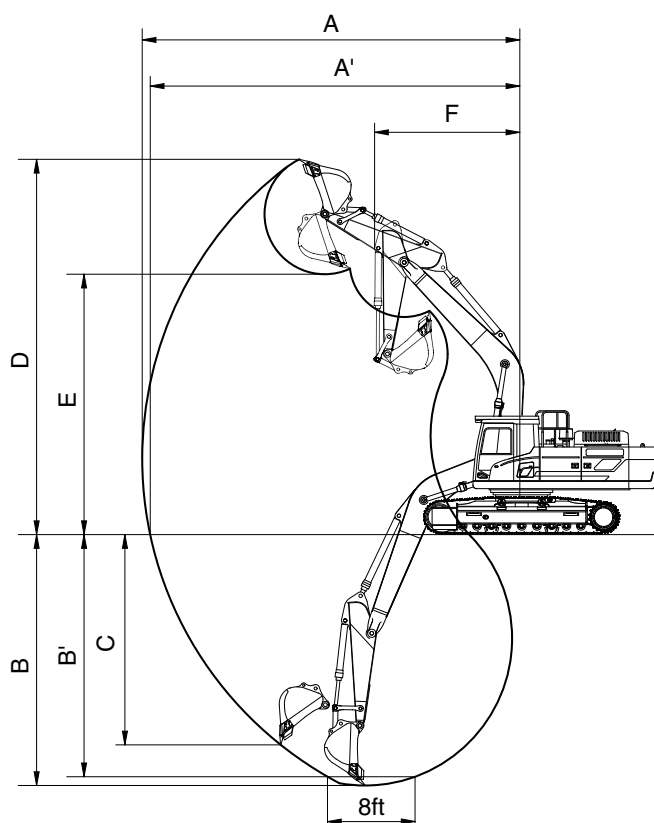


480SA2SP05

Description	m (ft-in)	Boom	7.06 (23' 2")			
		Arm	2.55 (8' 4")	2.90 (9' 6")	3.38 (11' 1")	4.00 (13' 1")
Max digging reach	mm (ft-in)	A	11410 (37' 5")	11670 (38' 3")	12060 (39' 7")	12610 (41' 4")
Max digging reach on ground		A'	11190 (36' 9")	11460 (37' 7")	11850 (38' 11")	12410 (40' 9")
Max digging depth		B	6900 (22' 8")	7250 (23' 9")	7730 (25' 4")	8350 (27' 5")
Max digging depth (8 ft level)		B'	6730 (22' 1")	7090 (23' 3")	7590 (24' 11")	8220 (27' 0")
Max vertical wall digging depth		C	5280 (17' 4")	5710 (18' 9")	5490 (18' 0")	6170 (20' 3")
Max digging height		D	11070 (36' 4")	11090 (36' 5")	11060 (36' 3")	11330 (37' 2")
Max dumping height		E	7600 (24' 11")	7630 (25' 0")	7710 (25' 4")	7920 (26' 0")
Min swing radius		F	4820 (15' 10")	4880 (16' 0")	4870 (16' 0")	4630 (15' 2")
Bucket digging force	kN	SAE	212.8 [231.0]	212.8 [231.0]	212.8 [231.0]	212.8 [231.0]
	kgf		21700 [23560]	21700 [23560]	21700 [23560]	21700 [23560]
	lbf		47840 [51941]	47840 [51941]	47840 [51941]	47840 [51941]
	kN	ISO	247.1 [268.3]	247.1 [268.3]	247.1 [268.3]	247.1 [268.3]
	kgf		25200 [27360]	25200 [27360]	25200 [27360]	25200 [27360]
	lbf		55556 [60318]	55556 [60318]	55556 [60318]	55556 [60318]
Arm digging force	kN	SAE	235.4 [255.6]	218.7 [237.4]	198.1 [215.1]	173.6 [188.5]
	kgf		24000 [26060]	22300 [24210]	20200 [21930]	17700 [19220]
	lbf		52911 [57452]	49163 [53374]	44533 [48347]	39022 [42373]
	kN	ISO	246.1 [267.2]	227.5 [247.0]	205.0 [222.5]	179.5 [194.9]
	kgf		25100 [27250]	23200 [25190]	20900 [22690]	18300 [19870]
	lbf		55336 [60076]	51147 [55534]	46077 [50023]	40345 [43806]

[] : Power boost

2) HX500LT3 (2/2)

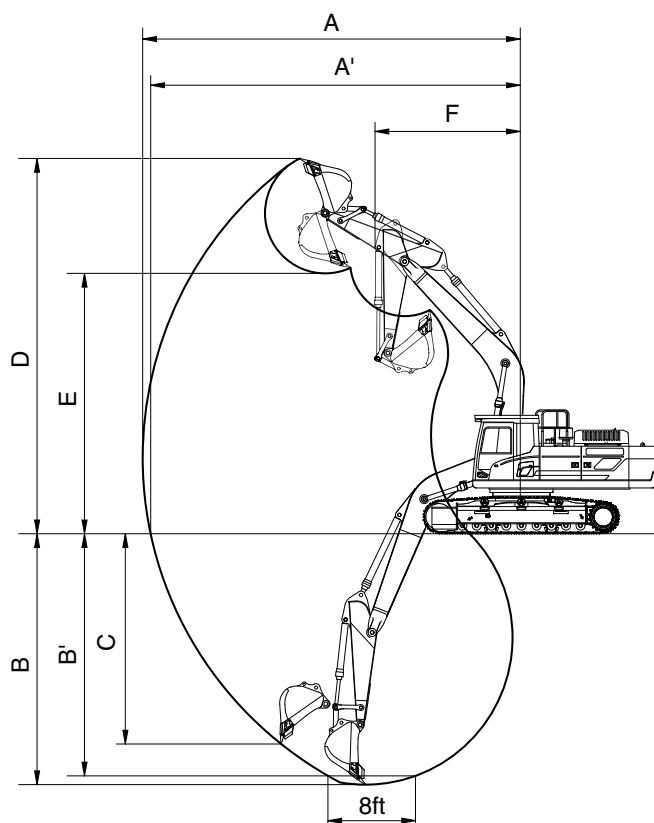


480SA2SP05

Description	m (ft-in)	Boom	6.55 (21' 6")	9.00 (29' 6")
		Arm	2.55 (8' 4")	6.00 (19' 8")
Max digging reach	mm (ft-in)	A	10870 (35' 8")	16110 (52' 10")
Max digging reach on ground		A'	10640 (34' 11")	15950 (52' 4")
Max digging depth		B	6460 (21' 2")	11710 (38' 5")
Max digging depth (8 ft level)		B'	6290 (20' 8")	11620 (38' 1")
Max vertical wall digging depth		C	4840 (15' 11")	8660 (28' 5")
Max digging height		D	10670 (35' 0")	13100 (43' 0")
Max dumping height		E	7210 (23' 8")	9800 (32' 2")
Min swing radius		F	4440 (14' 7")	5630 (18' 6")
Bucket digging force	kN	SAE	240.3 [260.9]	212.8 -
	kgf		24500 [26600]	21700 -
	lbf		54013 [58643]	47840 -
	kN	ISO	279.5 [303.4]	247.1 -
	kgf		28500 [30940]	25200 -
	lbf		62832 [68211]	55556 -
Arm digging force	kN	SAE	235.4 [255.6]	127.5 -
	kgf		24000 [26060]	13000 -
	lbf		52911 [57452]	28660 -
	kN	ISO	246.1 [267.2]	130.4 -
	kgf		25100 [27250]	13300 -
	lbf		55336 [60076]	29321 -

[] : Power boost

3) HX520LT3 (1/2)

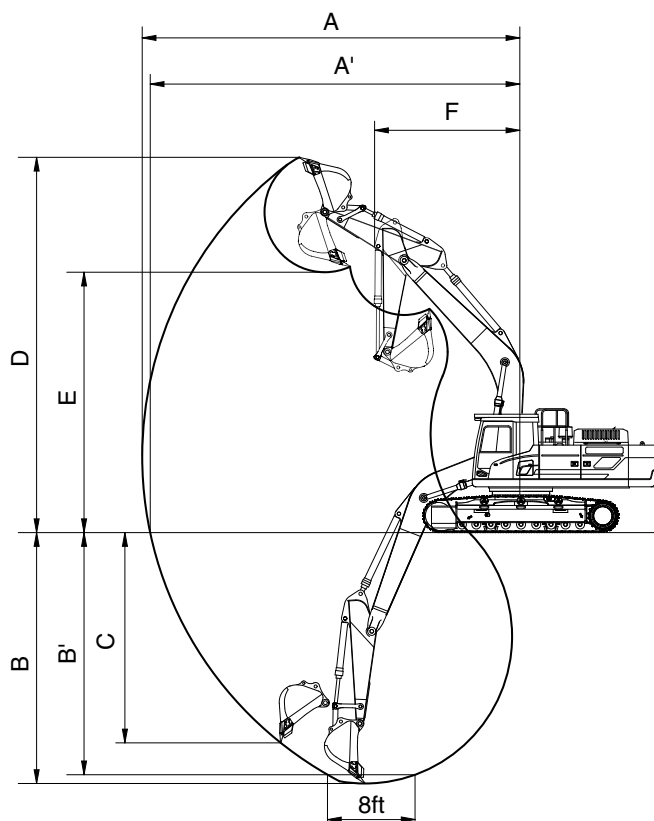


520SA2SP06

Description	m (ft-in)	7.06 (23' 2")				
		Boom				
		Arm	2.55 (8' 4")	2.90 (9' 6")	3.38 (11' 1")	4.00 (13' 1")
Max digging reach	mm (ft-in)	A	11410 (37' 5")	11670 (38' 3")	12060 (39' 7")	12610 (41' 4")
Max digging reach on ground		A'	11170 (36' 8")	11440 (37' 6")	11840 (38' 10")	12400 (40' 8")
Max digging depth		B	6820 (22' 5")	7170 (23' 6")	7650 (25' 1")	8270 (27' 2")
Max digging depth (8 ft level)		B'	6650 (21' 10")	7010 (23' 0")	7510 (24' 8")	8140 (26' 8")
Max vertical wall digging depth		C	5200 (17' 1")	5630 (18' 6")	5410 (17' 9")	6090 (20' 0")
Max digging height		D	11150 (36' 7")	11170 (36' 8")	11140 (36' 7")	11410 (37' 5")
Max dumping height		E	7680 (25' 2")	7710 (25' 4")	7790 (25' 7")	8000 (26' 3")
Min swing radius		F	4820 (15' 10")	4880 (16' 0")	4870 (16' 0")	4630 (15' 2")
Bucket digging force	kN	SAE	240.3 [260.9]	240.3 [260.9]	240.3 [260.9]	240.3 [260.9]
	kgf		24500 [26600]	24500 [26600]	24500 [26600]	24500 [26600]
	lbf		54013 [58643]	54013 [58643]	54013 [58643]	54013 [58643]
	kN	ISO	279.5 [303.4]	279.5 [303.4]	279.5 [303.4]	279.5 [303.4]
	kgf		28500 [30940]	28500 [30940]	28500 [30940]	28500 [30940]
	lbf		62832 [68211]	62832 [68211]	62832 [68211]	62832 [68211]
Arm digging force	kN	SAE	235.4 [255.6]	218.7 [237.4]	198.1 [215.1]	173.6 [188.5]
	kgf		24000 [26060]	22300 [24210]	20200 [21930]	17700 [19220]
	lbf		52911 [57452]	49163 [53374]	44533 [48347]	39022 [42373]
	kN	ISO	246.1 [267.2]	227.5 [247.0]	205.0 [222.5]	179.5 [194.9]
	kgf		25100 [27250]	23200 [25190]	20900 [22690]	18300 [19870]
	lbf		55336 [60076]	51147 [55534]	46077 [50023]	40345 [43806]

[] : Power boost

4) HX520LT3 (2/2)



520SA2SP06

Description	m (ft-in)	Boom			
		Arm	6.55 (21' 6")		
			2.55 (8' 4")	2.90 (9' 6")	3.38 (11' 1")
Max digging reach	mm (ft-in)	A	10870 (35' 8")	11130 (36' 6")	11520 (37' 10")
Max digging reach on ground		A'	10610 (34' 10")	10890 (35' 9")	11280 (37' 0")
Max digging depth		B	6380 (20' 11")	6730 (22' 1")	7210 (23' 8")
Max digging depth (8 ft level)		B'	6210 (20' 4")	6570 (21' 7")	7070 (23' 2")
Max vertical wall digging depth		C	4760 (15' 7")	4820 (15' 10")	4990 (16' 4")
Max digging height		D	10760 (35' 4")	10710 (35' 2")	10740 (35' 3")
Max dumping height		E	7290 (23' 11")	7320 (24' 0")	7400 (24' 3")
Min swing radius		F	4440 (14' 7")	4450 (14' 7")	4490 (14' 9")
Bucket digging force	kN	SAE	240.3 [260.9]	240.3 [260.9]	240.3 [260.9]
	kgf		24500 [26600]	24500 [26600]	24500 [26600]
	lbf		54013 [58643]	54013 [58643]	54013 [58643]
	kN	ISO	279.5 [303.4]	279.5 [303.4]	279.5 [303.4]
	kgf		28500 [30940]	28500 [30940]	28500 [30940]
	lbf		62832 [68211]	62832 [68211]	62832 [68211]
Arm digging force	kN	SAE	235.4 [255.6]	218.7 [237.4]	198.1 [215.1]
	kgf		24000 [26060]	22300 [24210]	20200 [21930]
	lbf		52911 [57452]	49163 [53374]	44533 [48347]
	kN	ISO	246.1 [267.2]	227.5 [247.0]	205.0 [222.5]
	kgf		25100 [27250]	23200 [25190]	20900 [22690]
	lbf		55336 [60076]	51147 [55534]	46077 [50023]

[] : Power boost

4. WEIGHT

Item	HX500LT3		HX520LT3	
	kg	lb	kg	lb
Upperstructure assembly				
· Main frame weld assembly	4313	9508	4313	9508
· Engine assembly	860	1896	860	1896
· Main pump assembly	194	428	194	428
· Main control valve assembly	421	928	421	928
· Swing motor assembly	667	1470	667	1470
· Hydraulic oil tank WA	418	922	418	922
· Fuel tank WA	376	829	376	829
· Counterweight	9700	21385	10700	23589
· Cab assembly	495	1092	495	1092
Lower chassis assembly				
· Track frame weld assembly	6600	14550	7888	17390
· Swing bearing	719	1585	719	1585
· Travel motor assembly (2EA)	1264	2787	1264	2787
· Turning joint	96	212	96	212
· Sprocket (2EA)	188	415	188	415
· Track recoil spring (2EA)	653	1440	653	1440
· Idler (2EA)	639	1408	639	1408
· Upper roller (HX500LT3 - 4EA / HX520LT3 - 6EA)	351	774	244	538
· Lower roller (18EA)	1579	3481	1531	3375
· Track-chain assembly (600 mm triple grouser shoe) (2EA)	5534	12200	5534	12200
· Track-chain assembly (700 mm triple grouser shoe) (2EA)	6054	13347	6054	13347
· Track-chain assembly (800 mm triple grouser shoe) (2EA)	6584	14515	6584	14515
· Track-chain assembly (900 mm triple grouser shoe) (2EA)	7092	15635	7092	15635
· Track-chain assembly (600 mm double grouser shoe) (2EA)	5566	12271	5566	12271
· Track-chain assembly (600 mm HD triple grouser shoe) (2EA)	5714	12597	5714	12597
Front attachment assembly				
· 7.06 m boom assembly	3640	8025	3640	8025
· 3.38 m arm assembly	1845	4067	1845	4067
· 2.20 m³ SAE heaped bucket	2020	4453	2020	4453
· Boom cylinder assembly (2EA)	1142	2518	1142	2518
· Arm cylinder assembly	591	1303	591	1303
· Bucket cylinder assembly	366	807	366	807
· Bucket control linkage total	519	1144	519	1144

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

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

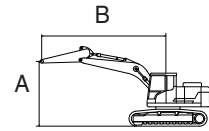
5. LIFTING CAPACITIES

1) HX500LT3

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX500LT3	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		6550	2550	9200	600	-	-	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)								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)
9.0 m (29.5 ft)	kg lb									*13880 *30600	*13880 *30600	5.79 (19.0)
7.5 m (24.6 ft)	kg lb					*13190 *29080	*13190 *29080			*12600 *27780	10960 24160	7.22 (23.7)
6.0 m (19.7 ft)	kg lb					*13980 *30820	*13980 *30820	*12410 *27360	10200 22490	*12070 *26610	8900 19620	8.12 (26.6)
4.5 m (14.8 ft)	kg lb			*20370 *44910	*20370 *44910	*15430 *34020	13870 30580	*12960 *28570	9900 21830	*11830 *26080	7840 17280	8.67 (28.4)
3.0 m (9.8 ft)	kg lb					*16960 *37390	13100 28880	*13650 *30090	9520 20990	*11730 *25860	7320 16140	8.94 (29.3)
1.5 m (4.9 ft)	kg lb					*17890 *39440	12510 27580	*14120 *31130	9190 20260	*11690 *25770	7170 15810	8.94 (29.3)
0.0 m (0.0 ft)	kg lb			*21030 *46360	18620 41050	*17850 *39350	12210 26920	*14030 *30930	8990 19820	*11620 *25620	7390 16290	8.69 (28.5)
-1.5 m (-4.9 ft)	kg lb	*15060 *33200	*15060 *33200	*21280 *46910	18720 41270	*16720 *36860	12170 26830	*13030 *28730	8970 19780	*11390 *25110	8070 17790	8.15 (26.7)
-3.0 m (-9.8 ft)	kg lb	*20530 *45260	*20530 *45260	*17830 *39310	*17830 *39310	*14160 *31220	12360 27250			*10720 *23630	9590 21140	7.26 (23.8)

Note 1. Lifting capacity are based on ISO 10567.

2. Lifting capacity of the HX series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.

3. The 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.

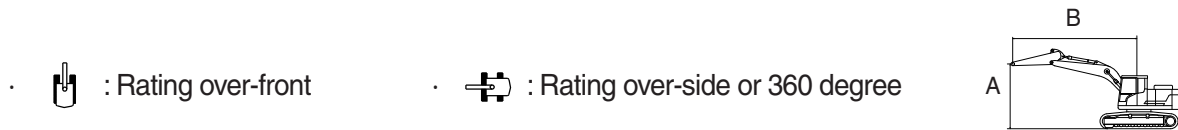
Lifting capacities will vary with different work tools, ground conditions and attachments.

The difference between the weight of a work tool attachment must be subtracted.

Consult with your local Hyundai dealer regarding the lifting capacities for specific work tools and attachments.

▲ Failure to comply to the rated load can cause serious injury, death, or property damage. Make adjustments to the rated load as necessary for non-standard configurations.

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX500LT3	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		6550	2900	9200	600	-	-	-	-	-



Lift-point height (A)		Lift-point radius (B)										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)
9.0 m (29.5 ft)	kg lb											*11820 *26060	*11820 *26060	6.19 (20.3)
7.5 m (24.6 ft)	kg lb							*11250 *24800	10350 22820			*10890 *24010	10250 22600	7.54 (24.7)
6.0 m (19.7 ft)	kg lb					*13340 *29410	*13340 *29410	*11880 *26190	10240 22580			*10600 *23370	8420 18560	8.41 (27.6)
4.5 m (14.8 ft)	kg lb			*19300 *42550	*19300 *42550	*14830 *32690	13940 30730	*12520 *27600	9900 21830			*10710 *23610	7450 16420	8.94 (29.3)
3.0 m (9.8 ft)	kg lb			*22770 *50200	19820 43700	*16450 *36270	13110 28900	*13290 *29300	9480 20900	*11400 *25130	7190 15850	*11180 *24650	6950 15320	9.20 (30.2)
1.5 m (4.9 ft)	kg lb			*19910 *43890	18720 41270	*17560 *38710	12450 27450	*13870 *30580	9110 20080	*11500 *25350	7020 15480	*11210 *24710	6800 14990	9.20 (30.2)
0.0 m (0.0 ft)	kg lb			*23720 *52290	18390 40540	*17760 *39150	12080 26630	*13950 *30750	8870 19550			*11220 *24740	6970 15370	8.96 (29.4)
-1.5 m (-4.9 ft)	kg lb	*16270 *35870	*16270 *35870	*21890 *48260	18420 40610	*16900 *37260	11980 26410	*13220 *29150	8800 19400			*11120 *24520	7550 16640	8.44 (27.7)
-3.0 m (-9.8 ft)	kg lb	*22850 *50380	*22850 *50380	*18760 *41360	18700 41230	*14740 *32500	12120 26720	*10960 *24160	8970 19780			*10700 *23590	8850 19510	7.58 (24.9)
-4.5 m (-14.8 ft)	kg lb			*13560 *29890	*13560 *29890	*10150 *22380	*10150 *22380					*9330 *20570	*9330 *20570	6.27 (20.6)

Note 1. Lifting capacity are based on ISO 10567.

2. Lifting capacity of the HX series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.

3. The 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.

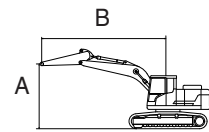
Consult with your local Hyundai dealer regarding the lifting capacities for specific work tools and attachments.

▲ Failure to comply to the rated load can cause serious injury, death, or property damage. Make adjustments to the rated load as necessary for non-standard configurations.

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX500LT3	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		7060	2550	9200	600	-	-	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)										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)
9.0 m (29.5 ft)	kg lb											*12380 *27290	*12380 *27290	6.60 (21.6)
7.5 m (24.6 ft)	kg lb							*11560 *25490	10350 22820			*11490 *25330	9480 20900	7.87 (25.8)
6.0 m (19.7 ft)	kg lb					*13640 *30070	*13640 *30070	*11840 *26100	10150 22380			*11100 *24470	7900 17420	8.71 (28.6)
4.5 m (14.8 ft)	kg lb					*15260 *33640	13570 29920	*12560 *27690	9760 21520	*11060 *24380	7350 16200	*10910 *24050	7050 15540	9.22 (30.3)
3.0 m (9.8 ft)	kg lb					*16820 *37080	12750 28110	*13340 *29410	9340 20590	*11320 *24960	7160 15790	*10840 *23900	6610 14570	9.47 (31.1)
1.5 m (4.9 ft)	kg lb					*17670 *38960	12180 26850	*13860 *30560	8990 19820	*11470 *25290	6980 15390	*10810 *23830	6490 14310	9.48 (31.1)
0.0 m (0.0 ft)	kg lb					*17570 *38740	11930 26300	*13880 *30600	8790 19380	*11210 *24710	6880 15170	*10770 *23740	6650 14660	9.24 (30.3)
-1.5 m (-4.9 ft)	kg lb			*20510 *45220	18440 40650	*16560 *36510	11900 26230	*13170 *29030	8750 19290			*10610 *23390	7190 15850	8.74 (28.7)
-3.0 m (-9.8 ft)	kg lb	*19190 *42310	*19190 *42310	*17720 *39070	*17720 *39070	*14510 *31990	12070 26610	*11260 *24820	8900 19620			*10150 *22380	8340 18390	7.92 (26.0)
-4.5 m (-14.8 ft)	kg lb			*13240 *29190	*13240 *29190	*10610 *23390	*10610 *23390					*8830 *19470	*8830 *19470	6.66 (21.9)

Note 1. Lifting capacity are based on ISO 10567.

2. Lifting capacity of the HX series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.

3. The 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.

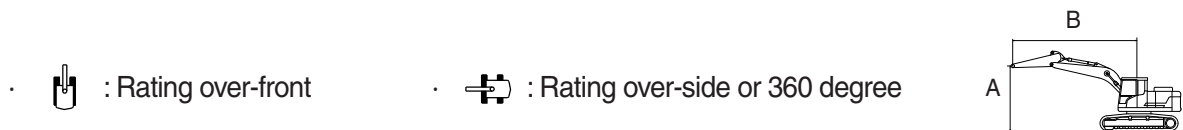
Lifting capacities will vary with different work tools, ground conditions and attachments.

The difference between the weight of a work tool attachment must be subtracted.

Consult with your local Hyundai dealer regarding the lifting capacities for specific work tools and attachments.

▲ Failure to comply to the rated load can cause serious injury, death, or property damage. Make adjustments to the rated load as necessary for non-standard configurations.

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX500LT3	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		7060	2900	9200	600	-	-	-	-	-



Lift-point height (A)		Lift-point radius (B)										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)
9.0 m (29.5 ft)	kg											*11510	*11510	6.97
	lb											*25380	*25380	(22.9)
7.5 m (24.6 ft)	kg							*10980	10420			*10810	8910	8.19
	lb							*24210	22970			*23830	19640	(26.9)
6.0 m (19.7 ft)	kg					*13030	*13030	*11370	10180			*10500	7480	8.99
	lb					*28730	*28730	*25070	22440			*23150	16490	(29.5)
4.5 m (14.8 ft)	kg			*19780	*19780	*14660	13630	*12140	9760	*10690	7330	*10370	6690	9.49
	lb			*43610	*43610	*32320	30050	*26760	21520	*23570	16160	*22860	14750	(31.1)
3.0 m (9.8 ft)	kg					*16310	12750	*12980	9300	*11040	7100	*10340	6280	9.74
	lb					*35960	28110	*28620	20500	*24340	15650	*22800	13850	(31.9)
1.5 m (4.9 ft)	kg					*17350	12110	*13600	8910	*11280	6890	*10360	6140	9.74
	lb					*38250	26700	*29980	19640	*24870	15190	*22840	13540	(32.0)
0.0 m (0.0 ft)	kg			*14480	*14480	*17470	11780	*13750	8670	*11190	6760	*10380	6270	9.51
	lb			*31920	*31920	*38510	25970	*30310	19110	*24670	14900	*22880	13820	(31.2)
-1.5 m (-4.9 ft)	kg			*21210	18090	*16700	11700	*13230	8580	*10370	6760	*10320	6740	9.02
	lb			*46760	39880	*36820	25790	*29170	18920	*22860	14900	*22750	14860	(29.6)
-3.0 m (-9.8 ft)	kg	*21630	*21630	*18580	18360	*14930	11830	*11720	8690			*10040	7730	8.23
	lb	*47690	*47690	*40960	40480	*32910	26080	*25840	19160			*22130	17040	(27.0)
-4.5 m (-14.8 ft)	kg			*14450	*14450	*11610	*11610					*9130	*9130	7.04
	lb			*31860	*31860	*25600	*25600					*20130	*20130	(23.1)

Note 1. Lifting capacity are based on ISO 10567.

2. Lifting capacity of the HX series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.

3. The 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.

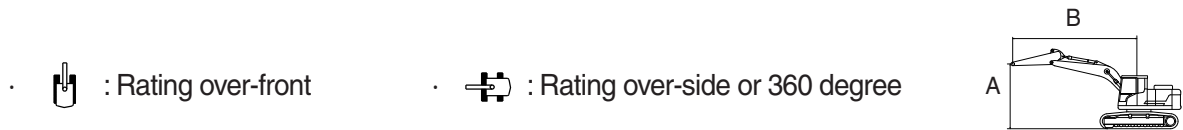
Lifting capacities will vary with different work tools, ground conditions and attachments.

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Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX500LT3	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		7060	3380	9200	600	-	-	-	-	-



Lift-point height (A)		Lift-point radius (B)										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)
9.0 m (29.5 ft)	kg							*9510	*9510			*9450	*9450	7.51
	lb							*20970	*20970			*20830	*20830	(24.6)
7.5 m (24.6 ft)	kg							*10350	*10350			*8950	8240	8.65
	lb							*22820	*22820			*19730	18170	(28.4)
6.0 m (19.7 ft)	kg							*10850	10330	*9990	7610	*8830	7020	9.41
	lb							*23920	22770	*22020	16780	*19470	15480	(30.9)
4.5 m (14.8 ft)	kg			*18480	*18480	*14010	13910	*11700	9900	*10330	7420	*8960	6310	9.89
	lb			*40740	*40740	*30890	30670	*25790	21830	*22770	16360	*19750	13910	(32.5)
3.0 m (9.8 ft)	kg					*15810	13010	*12650	9420	*10790	7160	*9350	5930	10.12
	lb					*34860	28680	*27890	20770	*23790	15790	*20610	13070	(33.2)
1.5 m (4.9 ft)	kg					*17100	12290	*13410	9000	*11150	6930	9870	5800	10.13
	lb					*37700	27090	*29560	19840	*24580	15280	21760	12790	(33.2)
0.0 m (0.0 ft)	kg			*17130	*17130	*17540	11870	*13740	8710	*11240	6750	*9970	5900	9.91
	lb			*37770	*37770	*38670	26170	*30290	19200	*24780	14880	*21980	13010	(32.5)
-1.5 m (-4.9 ft)	kg	*12220	*12220	*22260	18060	*17080	11720	*13470	8580	*10790	6690	*10000	6290	9.44
	lb	*26940	*26940	*49070	39820	*37650	25840	*29700	18920	*23790	14750	*22050	13870	(31.0)
-3.0 m (-9.8 ft)	kg	*20690	*20690	*19920	18260	*15660	11780	*12340	8610			*9900	7100	8.69
	lb	*45610	*45610	*43920	40260	*34520	25970	*27210	18980			*21830	15650	(28.5)
-4.5 m (-14.8 ft)	kg	*19790	*19790	*16250	*16250	*12920	12050	*9580	8890			*9390	8790	7.57
	lb	*43630	*43630	*35830	*35830	*28480	26570	*21120	19600			*20700	19380	(24.8)

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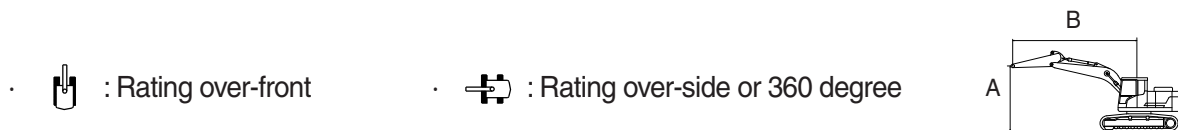
Lifting capacities will vary with different work tools, ground conditions and attachments.

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Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX500LT3	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		7060	4000	9200	600	-	-	-	-	-



Lift-point height (A)		Lift-point radius (B)														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)		10.5 m (34.4 ft)		Capacity		Reach
																		m (ft)
9.0m 29.5ft	kg lb															*7340 *16180	*7340 *16180	8.24 (27.0)
7.5m 24.6ft	kg lb											*8410 *18540	7900 17420			*7010 *15450	*7010 *15450	9.29 (30.5)
6.0m 19.7ft	kg lb									*10200 *22490	*10200 *22490	*9450 *20830	7800 17200			*6930 *15280	6450 14220	10.01 (32.8)
4.5m 14.8ft	kg lb							*13140 *28970	*13140 *28970	*11140 *24560	10130 22330	*9910 *21850	7580 16710			*7030 *15500	5860 12920	10.46 (34.3)
3.0m 9.8ft	kg lb					*20800 *45860	20410 45000	*15100 *33290	13370 29480	*12210 *26920	9630 21230	*10480 *23100	7300 16090	*8720 *19220	5690 12540	*7320 *16140	5530 12190	10.68 (35.0)
1.5m 4.9ft	kg lb					*20070 *44250	18940 41760	*16700 *36820	12570 27710	*13140 *28970	9170 20220	*10990 *24230	7030 15500	9410 20750	5560 12260	*7820 *17240	5410 11930	10.68 (35.0)
0.0m 0.0ft	kg lb					*19100 *42110	18270 40280	*17520 *38620	12050 26570	*13700 *30200	8820 19440	*11260 *24820	6820 15040			*8600 *18960	5480 12080	10.47 (34.4)
-1.5m -4.9ft	kg lb			*12230 *26960	*12230 *26960	*23290 *51350	18100 39900	*17450 *38470	11800 26010	*13710 *30230	8630 19030	*11110 *24490	6710 14790			*9540 *21030	5790 12760	10.03 (32.9)
-3.0m -9.8ft	kg lb	*14130 *31150	*14130 *31150	*18540 *40870	*18540 *40870	*21430 *47250	18190 40100	*16470 *36310	11770 25950	*12980 *28620	8600 18960	*10210 *22510	6720 14820			*9570 *21100	6420 14150	9.33 (30.6)
-4.5m -14.8ft	kg lb			*23840 *52560	*23840 *52560	*18340 *40430	*18340 *40430	*14340 *31610	11950 26350	*11120 *24520	8740 19270					*9360 *20640	7670 16910	8.30 (27.2)
-6.0m -19.7ft	kg lb					*13350 *29430	*13350 *29430	*10290 *22690	*10290 *22690							*8450 *18630	*8450 *18630	6.78 (22.3)

Note 1. Lifting capacity are based on ISO 10567.

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3. The Lift-point is bucket pivot mounting pin on the arm (without bucket mass).

4. *Indicates load limited by hydraulic capacity.

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A diagram of a crane. Dimension A is the vertical height from the ground to the top of the crane's boom. Dimension B is the horizontal distance from the vertical line of the crane's base to the end of the boom.

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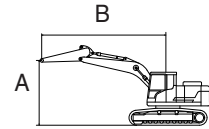
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2) HX520LT3

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX520LT3	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		6550	2550	10200	600	-	-	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)								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)
9.0 m (29.5 ft)	kg lb									*13740 *30290	*13740 *30290	5.92 (19.4)
7.5 m (24.6 ft)	kg lb					*13220 *29150	*13220 *29150			*12550 *27670	12490 27540	7.29 (23.9)
6.0 m (19.7 ft)	kg lb					*14060 *31000	*14060 *31000	*12430 *27400	11850 26120	*12050 *26570	10280 22660	8.17 (26.8)
4.5 m (14.8 ft)	kg lb			*20650 *45530	*20650 *45530	*15550 *34280	*15550 *34280	*13010 *28680	11530 25420	*11820 *26060	9140 20150	8.70 (28.5)
3.0 m (9.8 ft)	kg lb					*17050 *37590	15340 33820	*13700 *30200	11140 24560	*11730 *25860	8600 18960	8.94 (29.3)
1.5 m (4.9 ft)	kg lb					*17930 *39530	14760 32540	*14130 *31150	10820 23850	*11690 *25770	8480 18700	8.93 (29.3)
0.0 m (0.0 ft)	kg lb			*21780 *48020	*21780 *48020	*17810 *39260	14470 31900	*14000 *30860	10630 23440	*11610 *25600	8770 19330	8.66 (28.4)
-1.5 m (-4.9 ft)	kg lb	*16090 *35470	*16090 *35470	*21090 *46500	*21090 *46500	*16590 *36570	14440 31830	*12900 *28440	10620 23410	*11370 *25070	9630 21230	8.10 (26.6)
-3.0 m (-9.8 ft)	kg lb	*20140 *44400	*20140 *44400	*17510 *38600	*17510 *38600	*13900 *30640	*13900 *30640			*10640 *23460	*10640 *23460	7.18 (23.6)

Note 1. Lifting capacity are based on ISO 10567.

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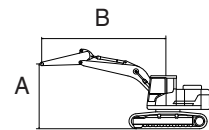
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Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX520LT3	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		6550	2900	10200	600	-	-	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)										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)
9.0 m (29.5 ft)	kg											*11720	*11720	6.31
	lb											*25840	*25840	(20.7)
7.5 m (24.6 ft)	kg							*11790	*11790			*10850	*10850	7.61
	lb							*25990	*25990			*23920	*23920	(25.0)
6.0 m (19.7 ft)	kg					*13430	*13430	*11920	11890			*10600	9740	8.45
	lb					*29610	*29610	*26280	26210			*23370	21470	(27.7)
4.5 m (14.8 ft)	kg			*19570	*19570	*14950	*14950	*12570	11530			*10730	8700	8.97
	lb			*43140	*43140	*32960	*32960	*27710	25420			*23660	19180	(29.4)
3.0 m (9.8 ft)	kg			*22960	*22960	*16550	15350	*13340	11110	*11410	8470	*11190	8180	9.21
	lb			*50620	*50620	*36490	33840	*29410	24490	*25150	18670	*24670	18030	(30.2)
1.5 m (4.9 ft)	kg			*19880	*19880	*17610	14700	*13890	10740	*11490	8300	*11210	8050	9.19
	lb			*43830	*43830	*38820	32410	*30620	23680	*25330	18300	*24710	17750	(30.2)
0.0 m (0.0 ft)	kg			*23620	22030	*17730	14340	*13920	10510			*11210	8300	8.93
	lb			*52070	48570	*39090	31610	*30690	23170			*24710	18300	(29.3)
-1.5 m (-4.9 ft)	kg	*17060	*17060	*21710	*21710	*16790	14250	*13120	10450			*11100	9030	8.39
	lb	*37610	*37610	*47860	*47860	*37020	31420	*28920	23040			*24470	19910	(27.5)
-3.0 m (-9.8 ft)	kg	*22460	*22460	*18470	*18470	*14520	14410	*10680	10650			*10650	10630	7.51
	lb	*49520	*49520	*40720	*40720	*32010	31770	*23550	23480			*23480	23440	(24.6)
-4.5 m (-14.8 ft)	kg			*13060	*13060	*9620	*9620					*9150	*9150	6.15
	lb			*28790	*28790	*21210	*21210					*20170	*20170	(20.2)

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