



# **HX130 LCR**

## **CRAWLER EXCAVATOR**

***HX130LCR***



# **SERVICE MANUAL**

|                                             |            |
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## 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

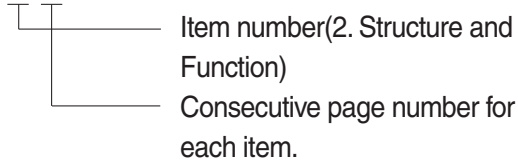
1. See the page number on the bottom of the page.

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.

2 - 4

2 - 4 - 1

2 - 4 - 2

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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 55mm 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, 55mm = 2.165 inches.

##### 2. Convert 550mm 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 55mm.
- (2) Carry out the same procedure as above to convert 55mm to 2.165 inches.
- (3) The original value (550mm) 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 550mm = 21.65 inches.

#### Millimeters to inches

(b)

1mm = 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

1mm = 0.03937in

|    | 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

1kg = 2.2046lb

|    | 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/cm<sup>2</sup> to lbf/in<sup>2</sup>

1 kgf / cm<sup>2</sup> = 14.2233 lbf / in<sup>2</sup>

|     | 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

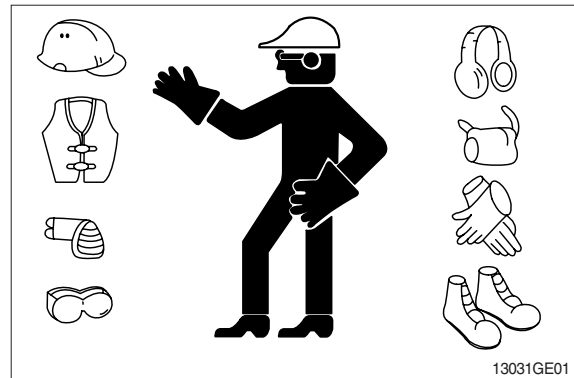
### GROUP 1 SAFETY

#### FOLLOW SAFE PROCEDURE

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

#### WEAR PROTECTIVE CLOTHING

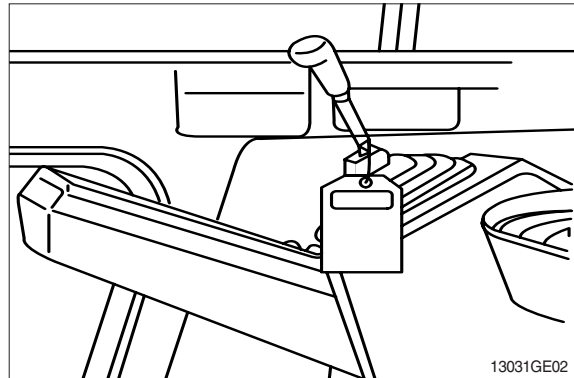
Wear close fitting clothing and safety equipment appropriate to the job.



#### 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.



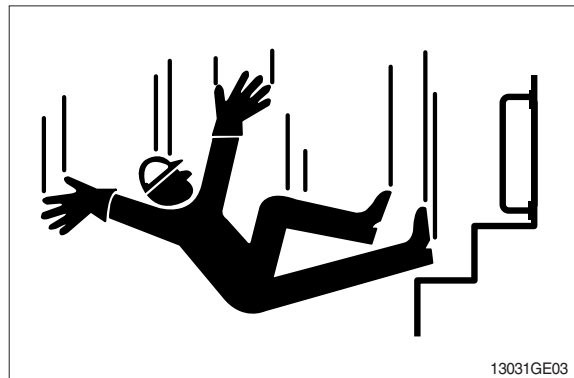
#### USE HANDHOLDS AND STEPS

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.

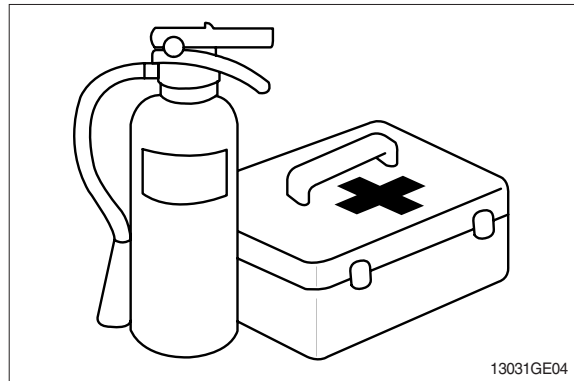


## PREPARE FOR EMERGENCIES

Be prepared if a fire starts.

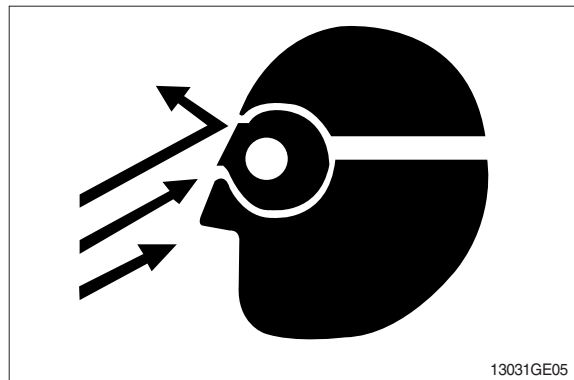
Keep a first aid kit and fire extinguisher handy.

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



## PROTECT AGAINST FLYING DEBRIS

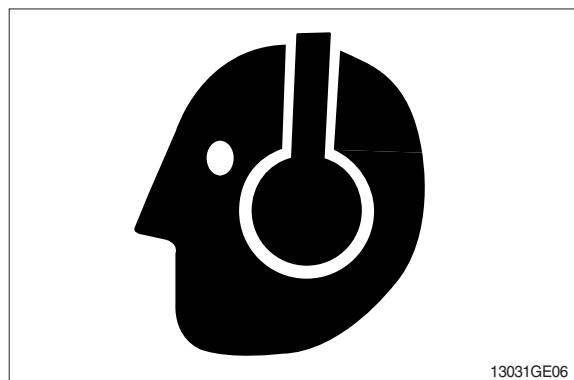
Guard against injury from flying pieces of metal or debris; Wear goggles or safety glasses.



## PROTECT AGAINST NOISE

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

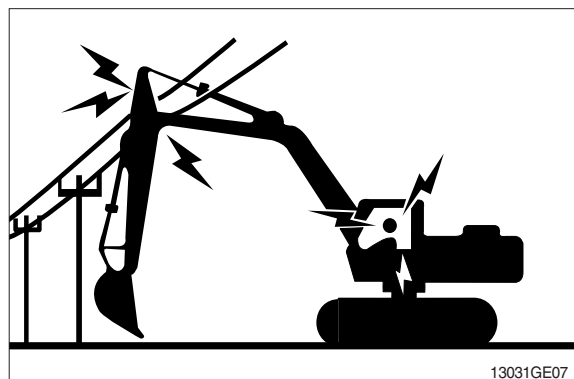
Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.



## AVOID POWER LINES

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

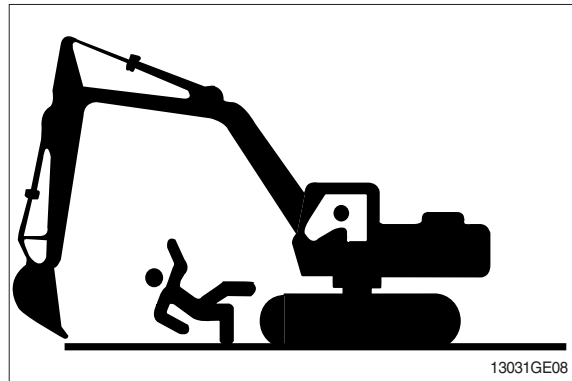
Never move any part of the machine or load closer to electric line than 3m(10ft) plus twice the line insulator length.



## 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.

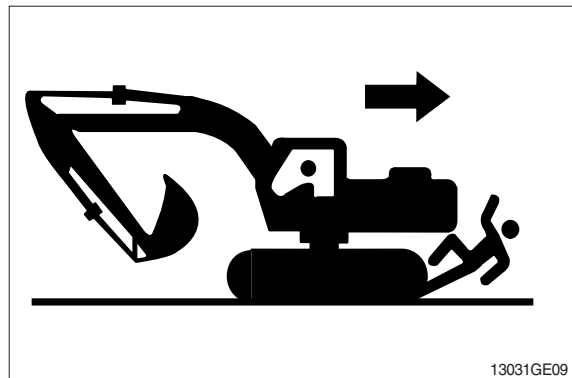


## MOVE AND OPERATE MACHINE SAFELY

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:

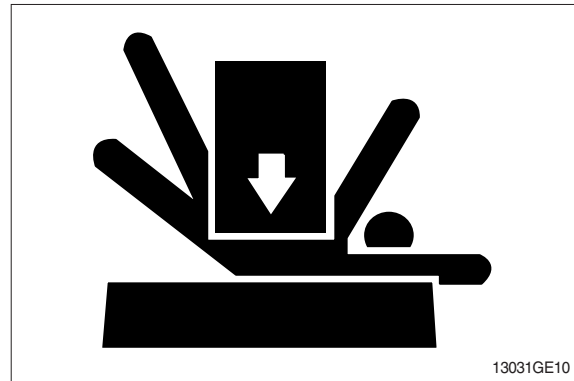
- Park machine on a level surface.
- Lower bucket to the ground.
- Turn auto idle switch off.
- Run engine at low idle speed without load for 5 minutes.
- Turn key switch to OFF to stop engine. Remove key from switch.
- Place safety lever to locked position.
- Allow engine to cool.

### **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.

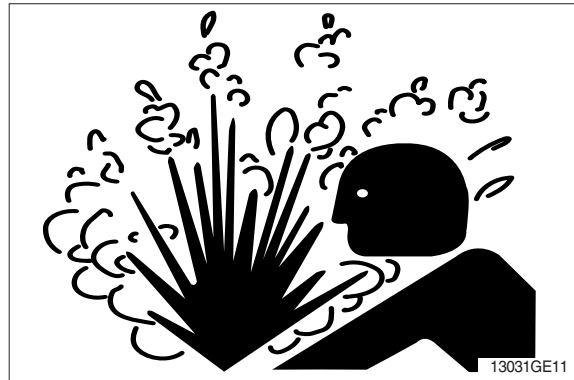
Do not work under a machine that is supported solely by a jack. Follow recommended procedures in this manual.



### **SERVICE COOLING SYSTEM SAFELY**

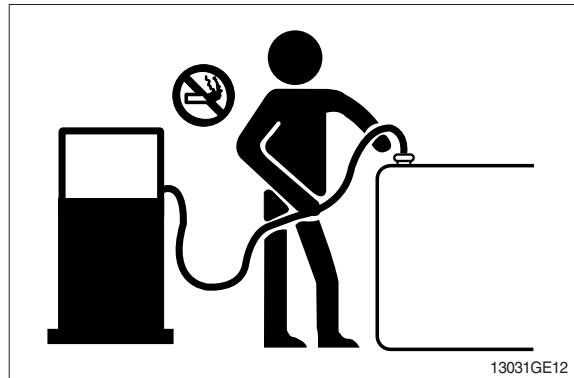
Explosive release of fluids from pressurized cooling system can cause serious burns.

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



### **HANDLE FLUIDS SAFELY-AVOID FIRES**

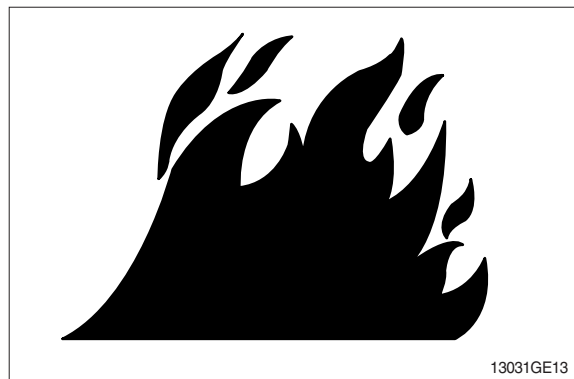
Handle fuel with care; It is highly flammable. Do not refuel the machine while smoking or when near open flame or sparks. Always stop engine before refueling machine. Fill fuel tank outdoors.



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

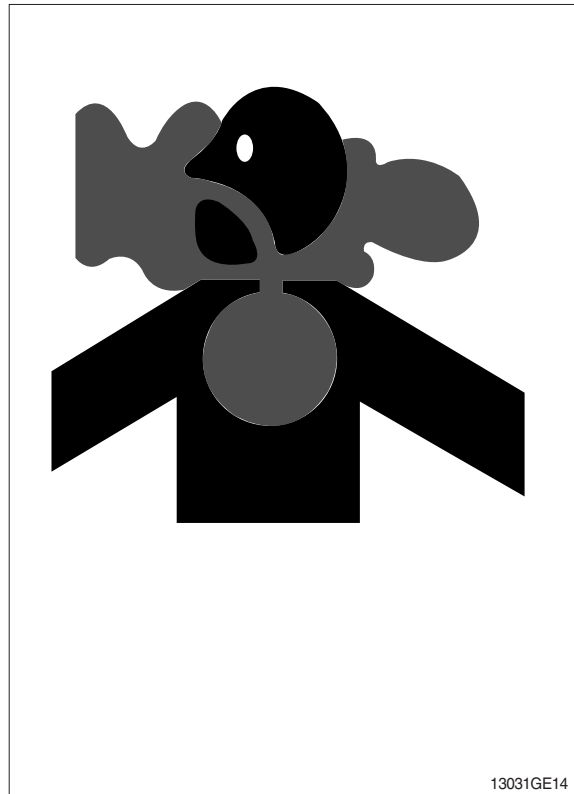
Avoid potentially toxic fumes and dust.

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

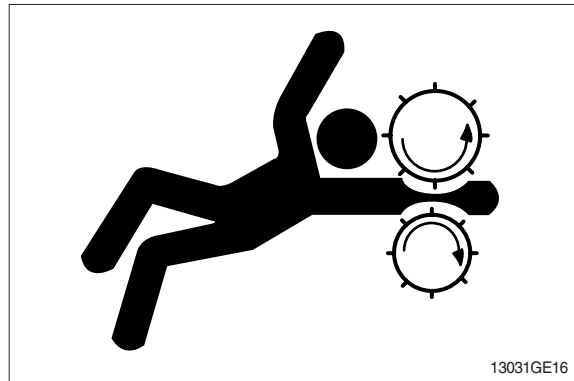
Illuminate your work area adequately but safely. Use a portable safety light for working inside or under the machine. Make sure the bulb is enclosed by a wire cage. The hot filament of an accidentally broken bulb can ignite spilled fuel or oil.



## 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.

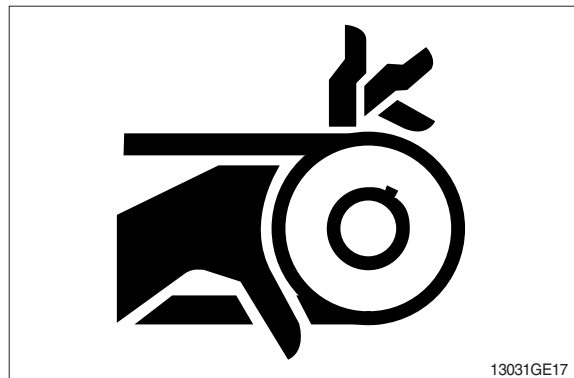
Remove rings and other jewelry to prevent electrical shorts and entanglement in moving parts.



## STAY CLEAR OF MOVING PARTS

Entanglements in moving parts can cause serious injury.

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



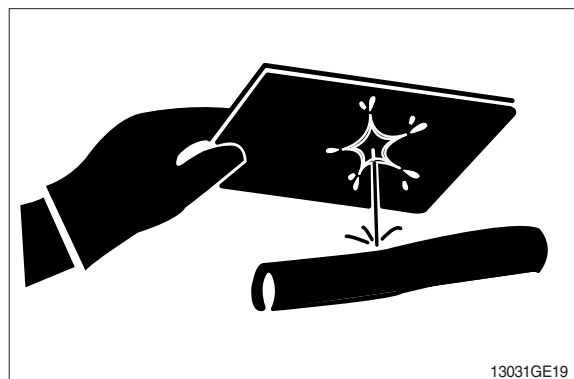
## AVOID HIGH PRESSURE FLUIDS

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:

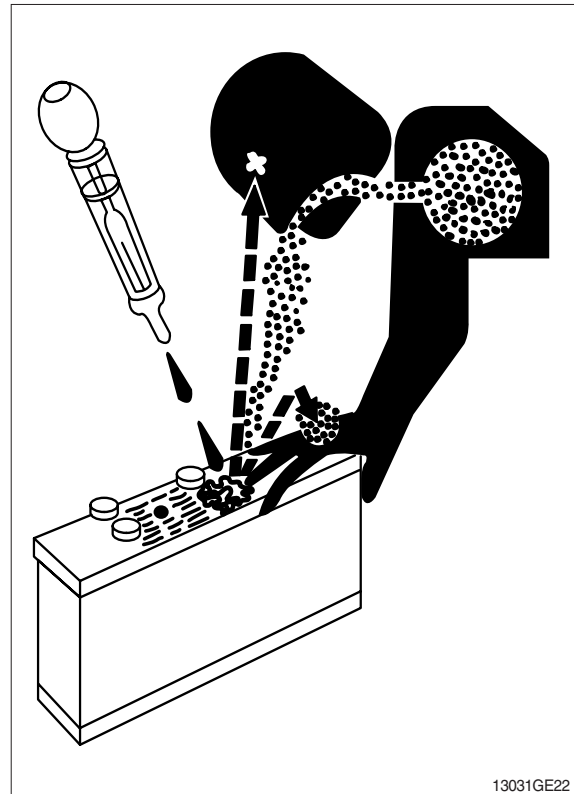
1. Filling batteries in a well-ventilated area.
2. Wearing eye protection and rubber gloves.
3. Avoiding breathing fumes when electrolyte is added.
4. Avoiding spilling or dripping electrolyte.
5. Use proper jump start procedure.

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.



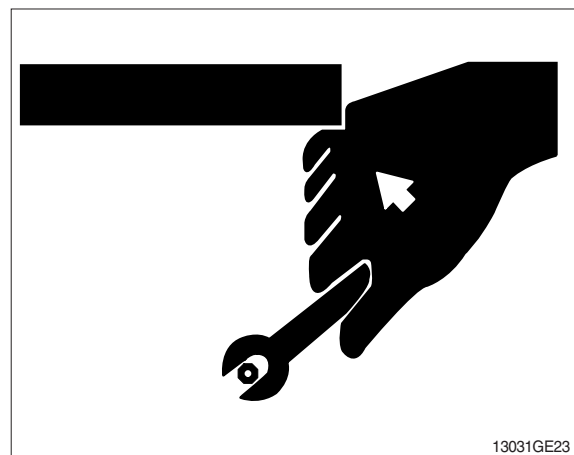
## USE TOOLS PROPERLY

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 manual.)

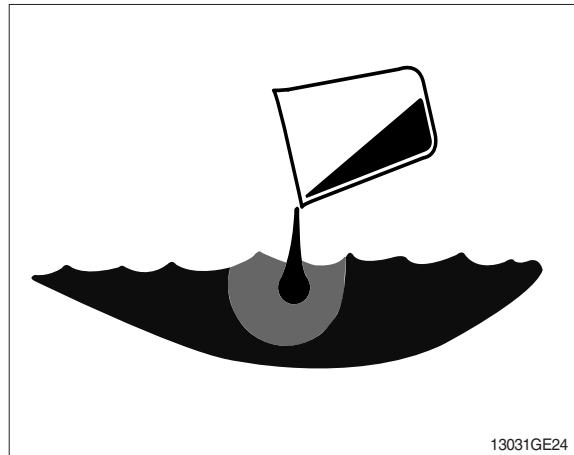


## DISPOSE OF FLUIDS PROPERLY

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.

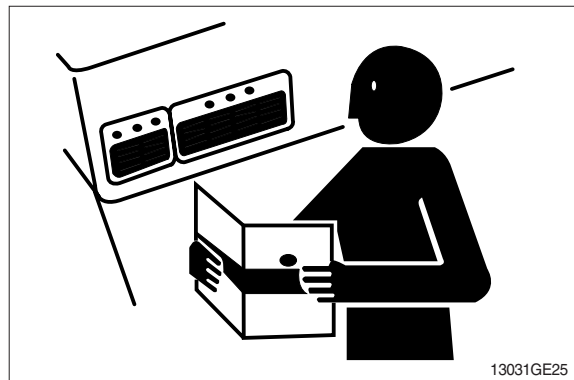
Use proper containers when draining fluids. Do not use food or beverage containers that may mislead someone into drinking from them.

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 LABELS

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

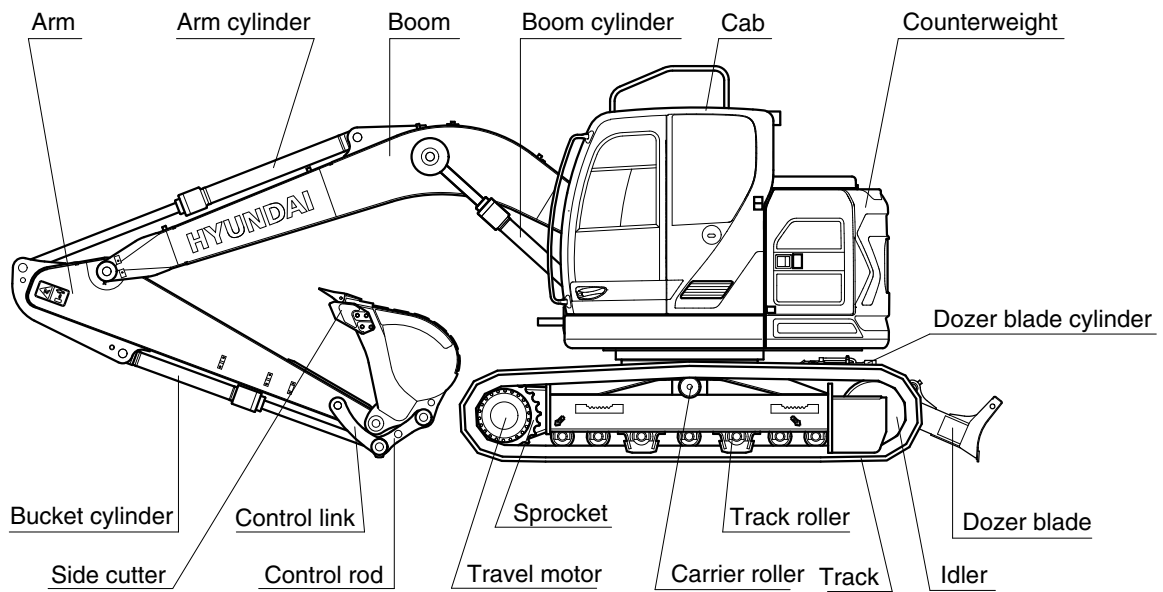
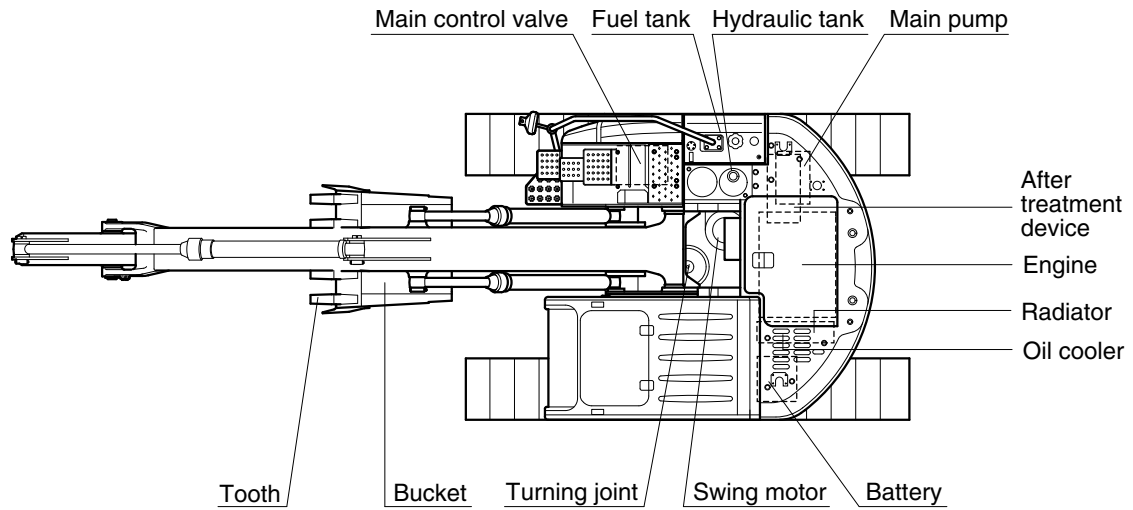


## LIVE WITH SAFETY

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

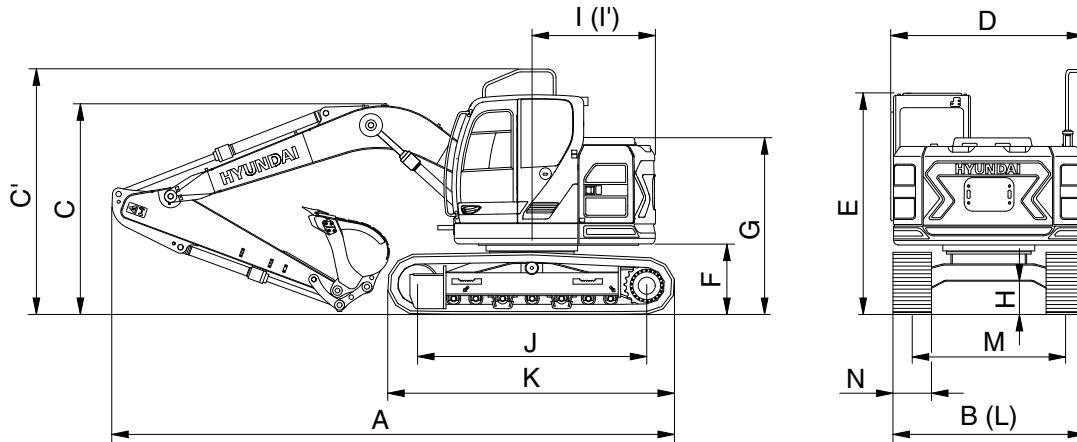


130ZF2SP01

## 2. SPECIFICATIONS

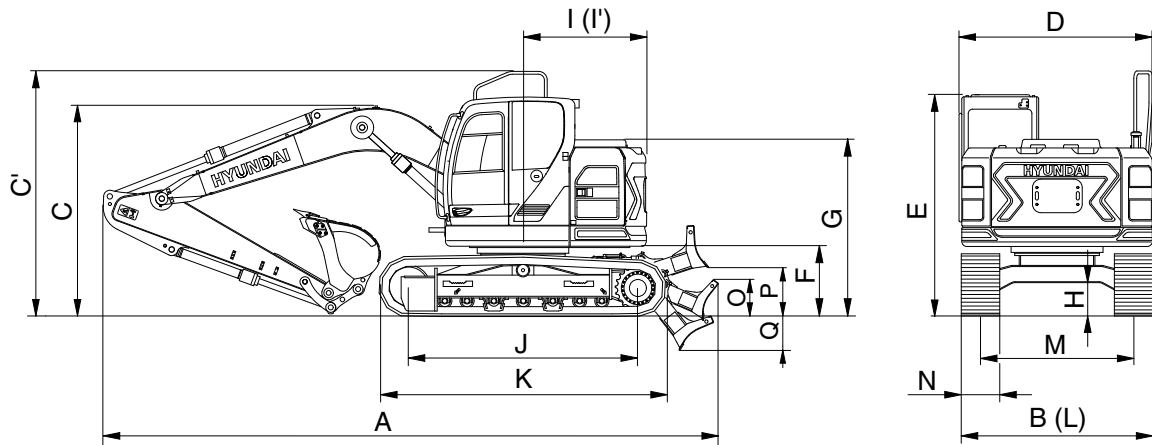
### 1) HX130LCR

· 4.30 m (14' 1") BOOM and 2.26 m (7' 5") ARM



| Description                            |    | Unit                              | Specification     |
|----------------------------------------|----|-----------------------------------|-------------------|
| Operating weight                       |    | kg (lb)                           | 12700 (28000)     |
| Bucket capacity (SAE heaped), standard |    | m <sup>3</sup> (yd <sup>3</sup> ) | 0.40 (0.52)       |
| Overall length                         | A  | mm (ft-in)                        | 6860 (22' 6")     |
| Overall width, with 500 mm shoe        | B  |                                   | 2490 (8' 2")      |
| Overall height of boom                 | C  |                                   | 2750 (9' 0")      |
| Overall height of guardrail            | C' |                                   | 3165 (10' 5")     |
| Superstructure width                   | D  |                                   | 2500 (8' 2")      |
| Overall height of cab                  | E  |                                   | 2900 (9' 6")      |
| Ground clearance of counterweight      | F  |                                   | 900 (2' 11")      |
| Engine cover height                    | G  |                                   | 2215 (7' 3")      |
| Minimum ground clearance               | H  |                                   | 440 (1' 5")       |
| Rear-end distance                      | I  |                                   | 1500 (4' 11")     |
| Rear-end swing radius                  | I' |                                   | 1500 (4' 11")     |
| Distance between tumblers              | J  |                                   | 2780 (9' 1")      |
| Undercarriage length                   | K  |                                   | 3490 (11' 5")     |
| Undercarriage width                    | L  |                                   | 2500 (8' 2")      |
| Track gauge                            | M  |                                   | 1990 (6' 6")      |
| Track shoe width, standard             | N  |                                   | 500 (20")         |
| Travel speed (low/high)                |    | km/hr (mph)                       | 3.3/5.5 (2.1/3.4) |
| Swing speed                            |    | rpm                               | 12.6              |
| Gradeability                           |    | Degree (%)                        | 35 (70)           |
| Ground pressure (500 mm shoe)          |    | kgf/cm <sup>2</sup> (psi)         | 0.42 (5.95)       |
| Max traction force                     |    | kg (lb)                           | 11400 (25100)     |

## 2) HX130LCRD

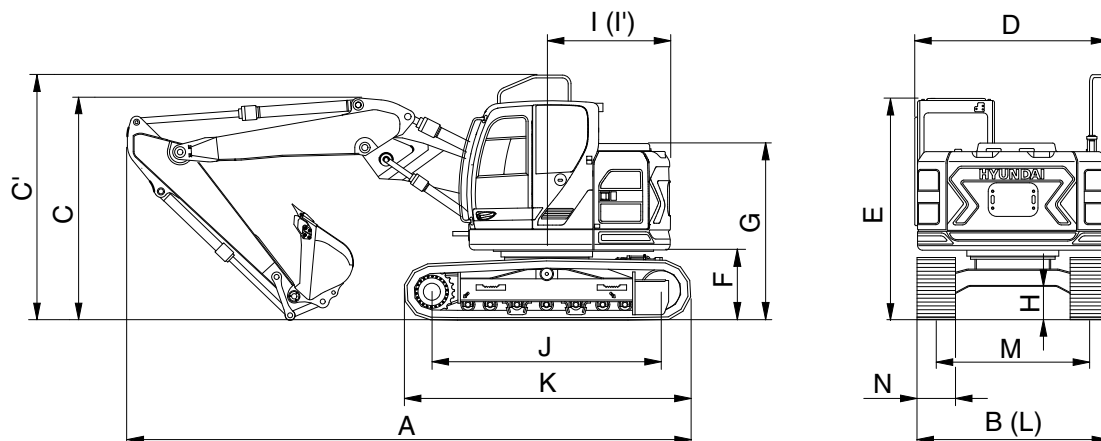


130ZF2SP03

| Description                            |    | Unit                              | Specification     |
|----------------------------------------|----|-----------------------------------|-------------------|
| Operating weight                       |    | kg (lb)                           | 13400 (29500)     |
| Bucket capacity (SAE heaped), standard |    | m <sup>3</sup> (yd <sup>3</sup> ) | 0.40 (0.52)       |
| Overall length                         | A  | mm (ft-in)                        | 7600 (24' 11")    |
| Overall width, with 500 mm shoe        | B  |                                   | 2490 (8' 2")      |
| Overall height                         | C  |                                   | 2750 (9' 0")      |
| Overall height of guardrail            | C' |                                   | 3165 (10' 5")     |
| Superstructure width                   | D  |                                   | 2500 (8' 2")      |
| Overall height of cab                  | E  |                                   | 2900 (9' 6")      |
| Ground clearance of counterweight      | F  |                                   | 900 (2' 11")      |
| Engine cover height                    | G  |                                   | 2215 (7' 3")      |
| Minimum ground clearance               | H  |                                   | 440 (1' 5")       |
| Rear-end distance                      | I  |                                   | 1500 (4' 11")     |
| Rear-end swing radius                  | I' |                                   | 1500 (4' 11")     |
| Distance between tumblers              | J  |                                   | 2780 (9' 1")      |
| Undercarriage length                   | K  |                                   | 3490 (11' 5")     |
| Undercarriage width                    | L  |                                   | 2500 (8' 2")      |
| Track gauge                            | M  |                                   | 1990 (6' 6")      |
| Track shoe width, standard             | N  |                                   | 500 (20")         |
| Height of blade                        | O  |                                   | 580 (1' 11")      |
| Ground clearance of blade up           | P  |                                   | 545 (1' 9")       |
| Depth of blade down                    | Q  |                                   | 515 (1' 8")       |
| Travel speed (low/high)                |    | km/hr (mph)                       | 3.3/5.5 (2.1/3.4) |
| Swing speed                            |    | rpm                               | 12.6              |
| Gradeability                           |    | Degree (%)                        | 35 (70)           |
| Ground pressure (500 mm shoe)          |    | kgf/cm <sup>2</sup> (psi)         | 0.44 (6.26)       |
| Max traction force                     |    | kg (lb)                           | 11400 (25100)     |

### 3) HX130LCR 2-PIECE BOOM

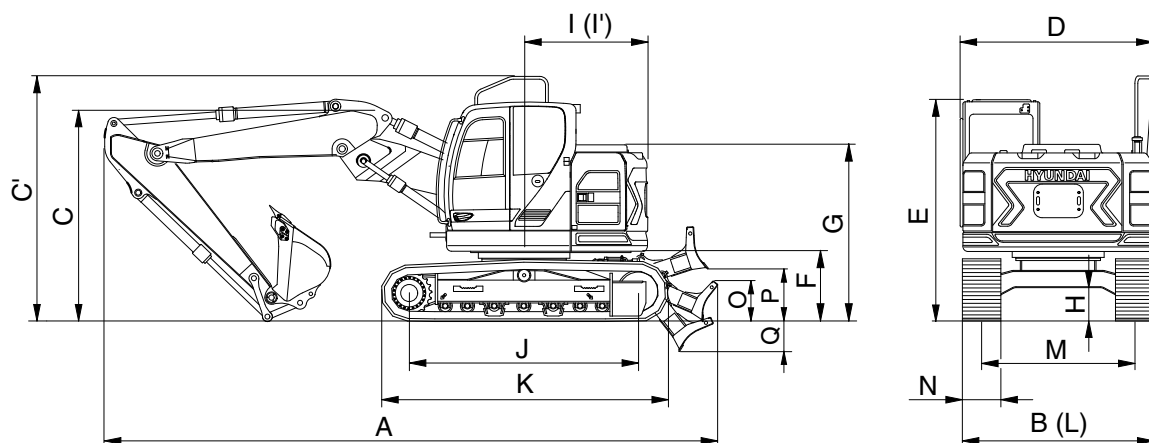
#### (1) Without dozer



130ZF2SP06

| Description                            |    | Unit                              | Specification      |                    |
|----------------------------------------|----|-----------------------------------|--------------------|--------------------|
|                                        |    |                                   | 1.96 m (6' 5") Arm | 2.26 m (7' 5") Arm |
| Operating weight                       |    | kg (lb)                           | 13060 (28790)      | 13090 (28860)      |
| Bucket capacity (SAE heaped), standard |    | m <sup>3</sup> (yd <sup>3</sup> ) | 0.40 (0.52)        | ←                  |
| Overall length                         | A  | mm (ft-in)                        | 7100 (23' 3")      | 7090 (23' 2")      |
| Overall width, with 500 mm shoe        | B  |                                   | 2490 (8' 2")       | ←                  |
| Overall height                         | C  |                                   | 2455 (5' 0")       | 2615 (8' 7")       |
| Overall height of guardrail            | C' |                                   | 3165 (10' 5")      | ←                  |
| Superstructure width                   | D  |                                   | 2500 (8' 2")       | ←                  |
| Overall height of cab                  | E  |                                   | 2900 (9' 6")       | ←                  |
| Ground clearance of counterweight      | F  |                                   | 900 (2' 11")       | ←                  |
| Engine cover height                    | G  |                                   | 2215 (7' 3")       | ←                  |
| Minimum ground clearance               | H  |                                   | 440 (1' 5")        | ←                  |
| Rear-end distance                      | I  |                                   | 1500 (4' 11")      | ←                  |
| Rear-end swing radius                  | I' |                                   | 1500 (4' 11")      | ←                  |
| Distance between tumblers              | J  |                                   | 2610 (8' 6")       | ←                  |
| Undercarriage length                   | K  |                                   | 3300 (10' 8")      | ←                  |
| Undercarriage width                    | L  |                                   | 2500 (8' 2")       | ←                  |
| Track gauge                            | M  |                                   | 1990 (6' 6")       | ←                  |
| Track shoe width, standard             | N  |                                   | 500 (20")          | ←                  |
| Travel speed (low/high)                |    | km/hr (mph)                       | 3.3/5.5 (2.1/3.4)  | ←                  |
| Swing speed                            |    | rpm                               | 12.6               | ←                  |
| Gradeability                           |    | Degree (%)                        | 35 (70)            | ←                  |
| Ground pressure (500 mm shoe)          |    | kgf/cm <sup>2</sup> (psi)         | 0.46 (6.52)        | 0.46 (6.54)        |
| Max traction force                     |    | kg (lb)                           | 11400 (25100)      | ←                  |

## (2) With dozer

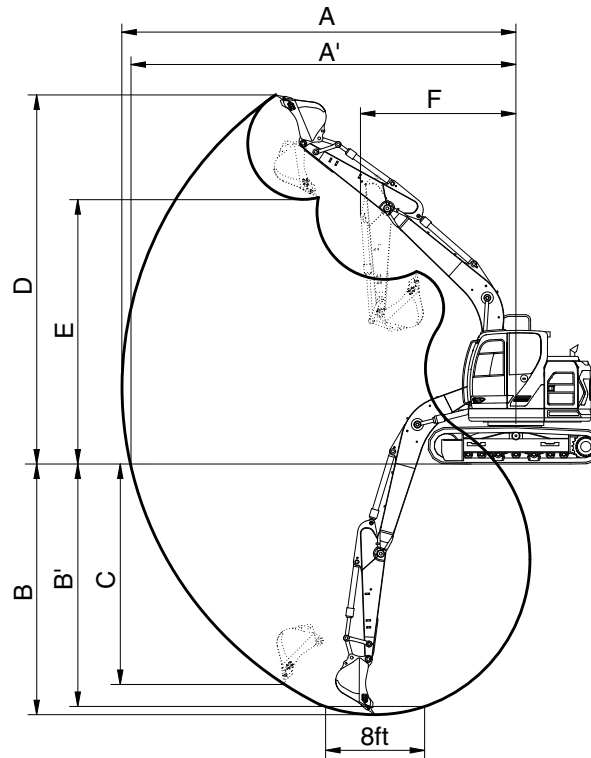


130ZF2SP07

| Description                            |    | Unit                              | Specification      |                    |
|----------------------------------------|----|-----------------------------------|--------------------|--------------------|
|                                        |    |                                   | 1.96 m (6' 5") Arm | 2.26 m (7' 5") Arm |
| Operating weight                       |    | kg (lb)                           | 13220 (29150)      | 13250 (29110)      |
| Bucket capacity (SAE heaped), standard |    | m <sup>3</sup> (yd <sup>3</sup> ) | 0.40 (0.52)        | ←                  |
| Overall length                         | A  | mm (ft-in)                        | 7840 (25' 9")      | 7830 (25' 8")      |
| Overall width, with 500 mm shoe        | B  |                                   | 2490 (8' 2")       | ←                  |
| Overall height                         | C  |                                   | 2455 (8' 1")       | 2615 (8' 7")       |
| Overall height of guardrail            | C' |                                   | 3165 (10' 5")      | ←                  |
| Superstructure width                   | D  |                                   | 2500 (8' 2")       | ←                  |
| Overall height of cab                  | E  |                                   | 2900 (9' 6")       | ←                  |
| Ground clearance of counterweight      | F  |                                   | 900 (2' 11")       | ←                  |
| Engine cover height                    | G  |                                   | 2215 (7' 3")       | ←                  |
| Minimum ground clearance               | H  |                                   | 440 (1' 5")        | ←                  |
| Rear-end distance                      | I  |                                   | 1500 (4' 11")      | ←                  |
| Rear-end swing radius                  | I' |                                   | 1500 (4' 11")      | ←                  |
| Distance between tumblers              | J  |                                   | 2780 (9' 1")       | ←                  |
| Undercarriage length                   | K  |                                   | 3490 (11' 5")      | ←                  |
| Undercarriage width                    | L  |                                   | 2500 (8' 2")       | ←                  |
| Track gauge                            | M  |                                   | 1990 (6' 6")       | ←                  |
| Track shoe width, standard             | N  |                                   | 500 (20")          | ←                  |
| Height of blade                        | O  |                                   | 580 (1' 11")       | ←                  |
| Ground clearance of blade up           | P  |                                   | 545 (1' 9")        | ←                  |
| Depth of blade down                    | Q  |                                   | 515 (1' 8")        | ←                  |
| Travel speed (low/high)                |    | km/hr (mph)                       | 3.3/5.5 (2.1/3.4)  | ←                  |
| Swing speed                            |    | rpm                               | 12.6               | ←                  |
| Gradeability                           |    | Degree (%)                        | 35 (70)            | ←                  |
| Ground pressure (500 mm shoe)          |    | kgf/cm <sup>2</sup> (psi)         | 0.44 (6.27)        | 0.44 (6.28)        |
| Max traction force                     |    | kg (lb)                           | 11400 (25100)      | ←                  |

### 3. WORKING RANGE

#### 1) 4.30 m (14' 1") MONO BOOM



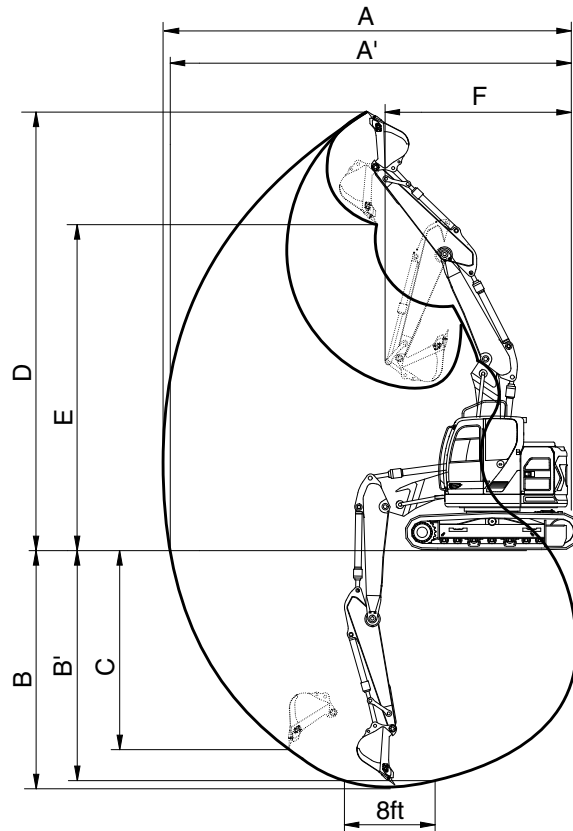
130ZF2SP04

| Description                     |     | 1.96 m (6' 5") Arm | ※2.26 m ( 7' 5") Arm | 2.81 (9' 3") Arm  |
|---------------------------------|-----|--------------------|----------------------|-------------------|
| Max digging reach               | A   | 7410 mm (24' 4")   | 7690 mm (25' 3")     | 8220 mm (27' 0")  |
| Max digging reach on ground     | A'  | 7250 mm (23' 9")   | 7540 mm (24' 9")     | 8080 mm (26' 6")  |
| Max digging depth               | B   | 4720 mm (15' 6")   | 5020 mm (16' 6")     | 5570 mm (18' 3")  |
| Max digging depth (8ft level)   | B'  | 4460 mm (14' 8")   | 4790 mm (15' 9")     | 5380 mm (17' 8")  |
| Max vertical wall digging depth | C   | 3960 mm (13' 0")   | 4290 mm (14' 1")     | 4830 mm (15' 10") |
| Max digging height              | D   | 7920 mm (26' 0")   | 8110 mm (26' 7")     | 8480 mm (27' 10") |
| Max dumping height              | E   | 5620 mm (18' 5")   | 5800 mm (19' 0")     | 6170 mm (20' 3")  |
| Min swing radius                | F   | 2310 mm ( 7' 6")   | 2340 mm ( 7' 8")     | 2470 mm ( 8' 1")  |
| Bucket digging force            | SAE | 87.8 [95.8] kN     | 87.8 [95.8] kN       | 87.8 [95.8] kN    |
|                                 |     | 8954 [9768] kgf    | 8954 [9768] kgf      | 8954 [9768] kgf   |
|                                 |     | 19740 [21534] lbf  | 19740 [21534] lbf    | 19740 [21534] lbf |
|                                 | ISO | 101.7 [111.0] kN   | 101.7 [111.0] kN     | 101.7 [111.0] kN  |
|                                 |     | 10369 [11312] kgf  | 10369 [11312] kgf    | 10369 [11312] kgf |
|                                 |     | 22860 [24938] lbf  | 22860 [24938] lbf    | 22860 [24938] lbf |
| Arm crowd force                 | SAE | 60.6 [66.1] kN     | 56.1 [61.2] kN       | 48.3 [52.7] kN    |
|                                 |     | 6178 [6739] kgf    | 5716 [6236] kgf      | 4928 [5376] kgf   |
|                                 |     | 13619 [14857] lbf  | 12602 [13747] lbf    | 10865 [11852] lbf |
|                                 | ISO | 63.2 [68.9] kN     | 58.3 [63.6] kN       | 50.0 [54.5] kN    |
|                                 |     | 6443 [7029] kgf    | 5943 [6484] kgf      | 5093 [5556] kgf   |
|                                 |     | 14204 [15495] lbf  | 13103 [14294] lbf    | 12228 [12249] lbf |

※ : STD

[ ] : Power boost

## 2) 4.556 m (14' 11") 2-PIECE BOOM



130ZF2SP08

| Description                     |     | 1.96 m (6' 5") Arm | 2.26 m (7' 5") Arm |
|---------------------------------|-----|--------------------|--------------------|
| Max digging reach               | A   | 7715 mm (25' 4")   | 8000 mm (26' 3")   |
| Max digging reach on ground     | A'  | 7570 mm (24' 10")  | 7860 mm (25' 9")   |
| Max digging depth               | B   | 4920 mm (16' 2")   | 5215 mm (17' 1")   |
| Max digging depth (8ft level)   | B'  | 4790 mm (15' 9")   | 5095 mm (16' 9")   |
| Max vertical wall digging depth | C   | 4070 mm (13' 4")   | 4380 mm (14' 4")   |
| Max digging height              | D   | 8600 mm (28' 3")   | 8825 mm (28' 11")  |
| Max dumping height              | E   | 6230 mm (20' 5")   | 6455 mm (21' 2")   |
| Min swing radius                | F   | 2220 mm (7' 3")    | 2430 mm (8' 0")    |
| Bucket digging force            | SAE | 87.8 [95.8] kN     | 87.8 [95.8] kN     |
|                                 |     | 8954 [9768] kgf    | 8954 [9768] kgf    |
|                                 |     | 19740 [21534] lbf  | 19740 [21534] lbf  |
|                                 | ISO | 101.7 [111.0] kN   | 101.7 [111.0] kN   |
|                                 |     | 10369 [11312] kgf  | 10369 [11312] kgf  |
|                                 |     | 22860 [24938] lbf  | 22860 [24938] lbf  |
| Arm crowd force                 | SAE | 60.6 [66.1] kN     | 56.1 [61.2] kN     |
|                                 |     | 6178 [6739] kgf    | 5716 [6236] kgf    |
|                                 |     | 13619 [14857] lbf  | 12602 [13747] lbf  |
|                                 | ISO | 63.2 [68.9] kN     | 58.3 [63.6] kN     |
|                                 |     | 6443 [7029] kgf    | 5943 [6484] kgf    |
|                                 |     | 14204 [15495] lbf  | 13103 [14294] lbf  |

[ ] : Power boost

## 4. WEIGHT

| Item                                                            | HX130LCR |      | HX130LCRD |      |
|-----------------------------------------------------------------|----------|------|-----------|------|
|                                                                 | kg       | lb   | kg        | lb   |
| Upper structure assembly                                        |          |      |           |      |
| · Main frame weld assembly                                      | 1231     | 2710 | ←         |      |
| · Engine assembly                                               | 341      | 750  | ←         |      |
| · Main pump assembly                                            | 90       | 200  | ←         |      |
| · Main control valve assembly                                   | 140      | 310  | ←         |      |
| · Swing motor assembly                                          | 120      | 260  | ←         |      |
| · Hydraulic oil tank assembly                                   | 150      | 330  | ←         |      |
| · Fuel tank assembly                                            | 145      | 320  | ←         |      |
| · Counterweight                                                 | 2000     | 4410 | ←         |      |
| · Cab assembly                                                  | 450      | 990  | ←         |      |
| Lower chassis assembly                                          |          |      |           |      |
| · Track frame weld assembly (LC type)                           | 1285     | 2830 | 1424      | 3140 |
| · Swing bearing                                                 | 262      | 580  | ←         |      |
| · Travel motor assembly                                         | 140      | 310  | ←         |      |
| · Turning joint                                                 | 56       | 120  | ←         |      |
| · Track recoil spring                                           | 95       | 210  | ←         |      |
| · Idler                                                         | 108      | 240  | ←         |      |
| · Carrier roller                                                | 12       | 26   | ←         |      |
| · Track roller                                                  | 24       | 53   | ←         |      |
| · Sprocket                                                      | 40       | 88   | ←         |      |
| · Track-chain assembly<br>(500 mm standard triple grouser shoe) | 716      | 1580 | ←         |      |
| · Dozer blade assembly (500 mm shoe)                            | -        |      | 485       | 1070 |
| Front attachment assembly                                       |          |      |           |      |
| · 4.30 m boom assembly                                          | 710      | 1570 | ←         |      |
| · 2.26 m arm assembly                                           | 360      | 790  | ←         |      |
| · 0.40 m³ SAE heaped bucket                                     | 390      | 860  | ←         |      |
| · Boom cylinder assembly                                        | 200      | 440  | ←         |      |
| · Arm cylinder assembly                                         | 120      | 270  | ←         |      |
| · Bucket cylinder assembly                                      | 80       | 180  | ←         |      |
| · Bucket control rod assembly                                   | 90       | 200  | ←         |      |
| · Dozer blade cylinder assembly                                 | -        |      | 55        | 120  |

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

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

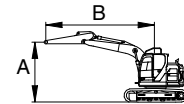
## 5. LIFTING CAPACITIES

Unit : mm

| Model    | Boom | Boom   | Arm    | Counterweight | Shoe  | Dozer |      | Outrigger |      |
|----------|------|--------|--------|---------------|-------|-------|------|-----------|------|
|          | Type | Length | Length | Weight (kg)   | Width | Front | Rear | Front     | Rear |
| HX130LCR | Mono | 4300   | 1960   | 2000          | 500   | Down  | -    | -         | -    |

·  : Rating over-front

·  : Rating over-side or 360 degree



| 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)                                                                   |                                                                                   | Capacity                                                                            |                                                                                     | Reach  |
|                       |    |  |  |  |  |  |  |  |  |  |  | m (ft) |
| 6.0m                  | kg |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *2600                                                                               | *2600                                                                               | 4.24   |
| 19.7ft                | lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *5730                                                                               | *5730                                                                               | (13.9) |
| 4.5m                  | kg |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *3340                                                                             | *3340                                                                             |                                                                                   |                                                                                   | *2300                                                                               | *2300                                                                               | 5.43   |
| 14.8ft                | lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *7360                                                                             | *7360                                                                             |                                                                                   |                                                                                   | *5070                                                                               | *5070                                                                               | (17.8) |
| 3.0m                  | kg |                                                                                   |                                                                                   | *5320                                                                             | *5320                                                                             | *3930                                                                             | 3220                                                                              | *2480                                                                             | 2050                                                                              | *2260                                                                               | 2040                                                                                | 6.03   |
| 9.8ft                 | lb |                                                                                   |                                                                                   | *11730                                                                            | *11730                                                                            | *8660                                                                             | 7100                                                                              | *5470                                                                             | 4520                                                                              | *4980                                                                               | 4500                                                                                | (19.8) |
| 1.5m                  | kg |                                                                                   |                                                                                   | *7280                                                                             | 5610                                                                              | *4730                                                                             | 3050                                                                              | *3780                                                                             | 2000                                                                              | *2390                                                                               | 1900                                                                                | 6.22   |
| 4.9ft                 | lb |                                                                                   |                                                                                   | *16050                                                                            | 12370                                                                             | *10430                                                                            | 6720                                                                              | *8330                                                                             | 4410                                                                              | *5270                                                                               | 4190                                                                                | (20.4) |
| 0.0m                  | kg |                                                                                   |                                                                                   | *7250                                                                             | 5430                                                                              | *5280                                                                             | 2940                                                                              | *3050                                                                             | 1960                                                                              | *2720                                                                               | 1950                                                                                | 6.03   |
| 0.0ft                 | lb |                                                                                   |                                                                                   | *15980                                                                            | 11970                                                                             | *11640                                                                            | 6480                                                                              | *6720                                                                             | 4320                                                                              | *6000                                                                               | 4300                                                                                | (19.8) |
| -1.5m                 | kg | *5370                                                                             | *5370                                                                             | *7900                                                                             | 5440                                                                              | *5250                                                                             | 2920                                                                              |                                                                                   |                                                                                   | *3490                                                                               | 2260                                                                                | 5.43   |
| -4.9ft                | lb | *11840                                                                            | *11840                                                                            | *17420                                                                            | 11990                                                                             | *11570                                                                            | 6440                                                                              |                                                                                   |                                                                                   | *7690                                                                               | 4980                                                                                | (17.8) |
| -3.0m                 | kg |                                                                                   |                                                                                   | *6460                                                                             | 5580                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *4340                                                                               | 3290                                                                                | 4.24   |
| -9.8ft                | lb |                                                                                   |                                                                                   | *14240                                                                            | 12300                                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *9570                                                                               | 7250                                                                                | (13.9) |

### ※ Note

- Lifting capacity are based on SAE J1097 and ISO 10567.
- 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.
- The lift-point is bucket pivot mounting pin on the arm (without bucket mass).
- \*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 Hyundai 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

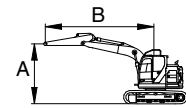
| Model    | Boom | Boom   | Arm    | Counterweight | Shoe  | Dozer |      | Outrigger |      |
|----------|------|--------|--------|---------------|-------|-------|------|-----------|------|
|          | Type | Length | Length | Weight (kg)   | Width | Front | Rear | Front     | Rear |
| HX130LCR | Mono | 4300   | 1960   | 2000          | 500   | Up    | -    | -         | -    |



: Rating over-front



: Rating over-side or 360 degree



| 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) |      | Capacity      |       | Reach  |
|                       |    |                       |        |                |        |                 |      |                 |      |               |       | m (ft) |
| 6.0m                  | kg |                       |        |                |        |                 |      |                 |      | *2600         | *2600 | 4.24   |
| 19.7ft                | lb |                       |        |                |        |                 |      |                 |      | *5730         | *5730 | (13.9) |
| 4.5m                  | kg |                       |        |                |        | *3340           | 3110 |                 |      | *2300         | 2270  | 5.43   |
| 14.8ft                | lb |                       |        |                |        | *7360           | 6860 |                 |      | *5070         | 5000  | (17.8) |
| 3.0m                  | kg |                       |        | *5320          | *5320  | *3930           | 2980 | *2480           | 1900 | *2260         | 1880  | 6.03   |
| 9.8ft                 | lb |                       |        | *11730         | *11730 | *8660           | 6570 | *5470           | 4190 | *4980         | 4140  | (19.8) |
| 1.5m                  | kg |                       |        | *7280          | 5100   | 3910            | 2810 | 2520            | 1850 | 2380          | 1750  | 6.22   |
| 4.9ft                 | lb |                       |        | *16050         | 11240  | 8620            | 6190 | 5560            | 4080 | 5250          | 3860  | (20.4) |
| 0.0m                  | kg |                       |        | *7250          | 4920   | 3780            | 2700 | 2480            | 1810 | 2460          | 1800  | 6.03   |
| 0.0ft                 | lb |                       |        | *15980         | 10850  | 8330            | 5950 | 5470            | 3990 | 5420          | 3970  | (19.8) |
| -1.5m                 | kg | *5370                 | *5370  | 7480           | 4930   | 3760            | 2680 |                 |      | 2860          | 2080  | 5.43   |
| -4.9ft                | lb | *11840                | *11840 | 16490          | 10870  | 8290            | 5910 |                 |      | 6310          | 4590  | (17.8) |
| -3.0m                 | kg |                       |        | *6460          | 5060   |                 |      |                 |      | 4240          | 3020  | 4.24   |
| -9.8ft                | lb |                       |        | *14240         | 11160  |                 |      |                 |      | 9350          | 6660  | (13.9) |

Unit : mm

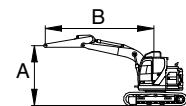
| Model    | Boom | Boom   | Arm    | Counterweight | Shoe  | Dozer |      | Outrigger |      |
|----------|------|--------|--------|---------------|-------|-------|------|-----------|------|
|          | Type | Length | Length | Weight (kg)   | Width | Front | Rear | Front     | Rear |
| HX130LCR | Mono | 4300   | 1960   | 2000          | 500   | -     | -    | -         | -    |



: Rating over-front



: Rating over-side or 360 degree



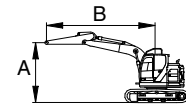
| Lift-point height (A) |    | Lift-point radius (B) |        |                |       |                 |      |                 |      | At max. reach |       |        |
|-----------------------|----|-----------------------|--------|----------------|-------|-----------------|------|-----------------|------|---------------|-------|--------|
|                       |    | 1.5 m (4.9 ft)        |        | 3.0 m (9.8 ft) |       | 4.5 m (14.8 ft) |      | 6.0 m (19.7 ft) |      | Capacity      |       | Reach  |
|                       |    |                       |        |                |       |                 |      |                 |      |               |       | m (ft) |
| 6.0m                  | kg |                       |        |                |       |                 |      |                 |      | *2600         | *2600 | 4.24   |
| 19.7ft                | lb |                       |        |                |       |                 |      |                 |      | *5730         | *5730 | (13.9) |
| 4.5m                  | kg |                       |        |                |       | *3340           | 2940 |                 |      | *2300         | 2140  | 5.43   |
| 14.8ft                | lb |                       |        |                |       | *7360           | 6480 |                 |      | *5070         | 4720  | (17.8) |
| 3.0m                  | kg |                       |        | *5320          | 5300  | *3930           | 2810 | *2480           | 1780 | *2260         | 1760  | 6.03   |
| 9.8ft                 | lb |                       |        | *11730         | 11680 | *8660           | 6190 | *5470           | 3920 | *4980         | 3880  | (19.8) |
| 1.5m                  | kg |                       |        | *7280          | 4790  | 3920            | 2640 | 2520            | 1730 | *2390         | 1640  | 6.22   |
| 4.9ft                 | lb |                       |        | *16050         | 10560 | 8640            | 5820 | 5560            | 3810 | *5270         | 3620  | (20.4) |
| 0.0m                  | kg |                       |        | *7250          | 4620  | 3790            | 2530 | 2480            | 1690 | 2470          | 1680  | 6.03   |
| 0.0ft                 | lb |                       |        | *15980         | 10190 | 8360            | 5580 | 5470            | 3730 | 5450          | 3700  | (19.8) |
| -1.5m                 | kg | *5370                 | *5370  | 7500           | 4620  | 3770            | 2510 |                 |      | 2870          | 1940  | 5.43   |
| -4.9ft                | lb | *11840                | *11840 | 16530          | 10190 | 8310            | 5530 |                 |      | 6330          | 4280  | (17.8) |
| -3.0m                 | kg |                       |        | *6460          | 4760  |                 |      |                 |      | 4260          | 2840  | 4.24   |
| -9.8ft                | lb |                       |        | *14240         | 10490 |                 |      |                 |      | 9390          | 6260  | (13.9) |

Unit : mm

| Model    | Boom | Boom   | Arm    | Counterweight | Shoe  | Dozer |      | Outrigger |      |
|----------|------|--------|--------|---------------|-------|-------|------|-----------|------|
|          | Type | Length | Length | Weight (kg)   | Width | Front | Rear | Front     | Rear |
| HX130LCR | Mono | 4300   | 2260   | 2000          | 500   | Down  | -    | -         | -    |

·  : Rating over-front

·  : Rating over-side or 360 degree



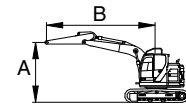
| Lift-point height (A) |    | Lift-point radius (B)                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     | 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)                                                                   |                                                                                     | Capacity                                                                            |                                                                                     | Reach  |
|                       |    |  |  |  |  |  |  |  |  |  |  | m (ft) |
| 6.0m                  | kg |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *2780                                                                             | *2780                                                                             |                                                                                   |                                                                                     | *2340                                                                               | *2340                                                                               | 4.64   |
| 19.7ft                | lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *6130                                                                             | *6130                                                                             |                                                                                   |                                                                                     | *5160                                                                               | *5160                                                                               | (15.2) |
| 4.5m                  | kg |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *3070                                                                             | *3070                                                                             |                                                                                   |                                                                                     | *2100                                                                               | *2100                                                                               | 5.75   |
| 14.8ft                | lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *6770                                                                             | *6770                                                                             |                                                                                   |                                                                                     | *4630                                                                               | *4630                                                                               | (18.9) |
| 3.0m                  | kg |                                                                                   |                                                                                   | *4800                                                                             | *4800                                                                             | *3690                                                                             | 3250                                                                              | *3300                                                                             | 2070                                                                                | *2060                                                                               | 1900                                                                                | 6.32   |
| 9.8ft                 | lb |                                                                                   |                                                                                   | *10580                                                                            | *10580                                                                            | *8140                                                                             | 7170                                                                              | *7280                                                                             | 4560                                                                                | *4540                                                                               | 4190                                                                                | (20.7) |
| 1.5m                  | kg |                                                                                   |                                                                                   | *7130                                                                             | 5680                                                                              | *4550                                                                             | 3070                                                                              | *3650                                                                             | 2000                                                                                | *2170                                                                               | 1770                                                                                | 6.50   |
| 4.9ft                 | lb |                                                                                   |                                                                                   | *15720                                                                            | 12520                                                                             | *10030                                                                            | 6770                                                                              | *8050                                                                             | 4410                                                                                | *4780                                                                               | 3900                                                                                | (21.3) |
| 0.0m                  | kg |                                                                                   |                                                                                   | *7520                                                                             | 5430                                                                              | *5180                                                                             | 2940                                                                              | *3900                                                                             | 1950                                                                                | *2460                                                                               | 1820                                                                                | 6.32   |
| 0.0ft                 | lb |                                                                                   |                                                                                   | *16580                                                                            | 11970                                                                             | *11420                                                                            | 6480                                                                              | *8600                                                                             | 4300                                                                                | *5420                                                                               | 4010                                                                                | (20.7) |
| -1.5m                 | kg | *4880                                                                             | *4880                                                                             | *8050                                                                             | 5400                                                                              | *5290                                                                             | 2890                                                                              |                                                                                   |                                                                                     | *3080                                                                               | 2070                                                                                | 5.75   |
| -4.9ft                | lb | *10760                                                                            | *10760                                                                            | *17750                                                                            | 11900                                                                             | *11660                                                                            | 6370                                                                              |                                                                                   |                                                                                     | *6790                                                                               | 4560                                                                                | (18.9) |
| -3.0m                 | kg | *9320                                                                             | *9320                                                                             | *6880                                                                             | 5510                                                                              | *4410                                                                             | 2970                                                                              |                                                                                   |                                                                                     | *4170                                                                               | 2850                                                                                | 4.64   |
| -9.8ft                | lb | *20550                                                                            | *20550                                                                            | *15170                                                                            | 12150                                                                             | *9720                                                                             | 6550                                                                              |                                                                                   |                                                                                     | *9190                                                                               | 6280                                                                                | (15.2) |

Unit : mm

| Mode     | Boom | Boom   | Arm    | Counterweight | Shoe  | Dozer |      | Outrigger |      |
|----------|------|--------|--------|---------------|-------|-------|------|-----------|------|
|          | Type | Length | Length | Weight (kg)   | Width | Front | Rear | Front     | Rear |
| HX130LCR | Mono | 4300   | 2260   | 2000          | 500   | Up    | -    | -         | -    |

·  : Rating over-front

·  : Rating over-side or 360 degree



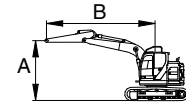
| Lift-point height (A) |    | Lift-point radius (B)                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       | 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)                                                                     |                                                                                       | Capacity                                                                              |                                                                                       | Reach  |
|                       |    |  |  |  |  |  |  |  |  |  |  | m (ft) |
| 6.0m                  | kg |                                                                                     |                                                                                     |                                                                                     |                                                                                     | *2780                                                                               | *2780                                                                               |                                                                                     |                                                                                       | *2340                                                                                 | *2340                                                                                 | 4.64   |
| 19.7ft                | lb |                                                                                     |                                                                                     |                                                                                     |                                                                                     | *6130                                                                               | *6130                                                                               |                                                                                     |                                                                                       | *5160                                                                                 | *5160                                                                                 | (15.2) |
| 4.5m                  | kg |                                                                                     |                                                                                     |                                                                                     |                                                                                     | *3070                                                                               | *3070                                                                               |                                                                                     |                                                                                       | *2100                                                                                 | 2090                                                                                  | 5.75   |
| 14.8ft                | lb |                                                                                     |                                                                                     |                                                                                     |                                                                                     | *6770                                                                               | *6770                                                                               |                                                                                     |                                                                                       | *4630                                                                                 | 4610                                                                                  | (18.9) |
| 3.0m                  | kg |                                                                                     |                                                                                     | *4800                                                                               | *4800                                                                               | *3690                                                                               | 3000                                                                                | 2590                                                                                | 1910                                                                                  | *2060                                                                                 | 1750                                                                                  | 6.32   |
| 9.8ft                 | lb |                                                                                     |                                                                                     | *10580                                                                              | *10580                                                                              | *8140                                                                               | 6610                                                                                | 5710                                                                                | 4210                                                                                  | *4540                                                                                 | 3860                                                                                  | (20.7) |
| 1.5m                  | kg |                                                                                     |                                                                                     | *7130                                                                               | 5160                                                                                | 3920                                                                                | 2830                                                                                | 2520                                                                                | 1850                                                                                  | *2170                                                                                 | 1640                                                                                  | 6.50   |
| 4.9ft                 | lb |                                                                                     |                                                                                     | *15720                                                                              | 11380                                                                               | 8640                                                                                | 6240                                                                                | 5560                                                                                | 4080                                                                                  | *4780                                                                                 | 3620                                                                                  | (21.3) |
| 0.0m                  | kg |                                                                                     |                                                                                     | 7470                                                                                | 4920                                                                                | 3780                                                                                | 2700                                                                                | 2460                                                                                | 1800                                                                                  | 2290                                                                                  | 1670                                                                                  | 6.32   |
| 0.0ft                 | lb |                                                                                     |                                                                                     | 16470                                                                               | 10850                                                                               | 8330                                                                                | 5950                                                                                | 5420                                                                                | 3970                                                                                  | 5050                                                                                  | 3680                                                                                  | (20.7) |
| -1.5m                 | kg | *4880                                                                               | *4880                                                                               | 7440                                                                                | 4890                                                                                | 3740                                                                                | 2660                                                                                |                                                                                     |                                                                                       | 2620                                                                                  | 1900                                                                                  | 5.75   |
| -4.9ft                | lb | *10760                                                                              | *10760                                                                              | 16400                                                                               | 10780                                                                               | 8250                                                                                | 5860                                                                                |                                                                                     |                                                                                       | 5780                                                                                  | 4190                                                                                  | (18.9) |
| -3.0m                 | kg | *9320                                                                               | *9320                                                                               | *6880                                                                               | 5000                                                                                | 3810                                                                                | 2730                                                                                |                                                                                     |                                                                                       | 3650                                                                                  | 2620                                                                                  | 4.64   |
| -9.8ft                | lb | *20550                                                                              | *20550                                                                              | *15170                                                                              | 11020                                                                               | 8400                                                                                | 6020                                                                                |                                                                                     |                                                                                       | 8050                                                                                  | 5780                                                                                  | (15.2) |

Unit : mm

| Model    | Boom | Boom   | Arm    | Counterweight | Shoe  | Dozer |      | Outrigger |      |
|----------|------|--------|--------|---------------|-------|-------|------|-----------|------|
|          | Type | Length | Length | Weight (kg)   | Width | Front | Rear | Front     | Rear |
| HX130LCR | Mono | 4300   | 2260   | 2000          | 500   | -     | -    | -         | -    |

·  : Rating over-front

·  : Rating over-side or 360 degree



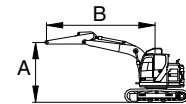
| Lift-point height (A) |    | Lift-point radius (B)                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     | 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)                                                                   |                                                                                     | Capacity                                                                            |                                                                                     | Reach  |
|                       |    |  |  |  |  |  |  |  |  |  |  | m (ft) |
| 6.0m                  | kg |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *2780                                                                             | *2780                                                                             |                                                                                   |                                                                                     | *2340                                                                               | *2340                                                                               | 4.64   |
| 19.7ft                | lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *6130                                                                             | *6130                                                                             |                                                                                   |                                                                                     | *5160                                                                               | *5160                                                                               | (15.2) |
| 4.5m                  | kg |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *3070                                                                             | 2970                                                                              |                                                                                   |                                                                                     | *2100                                                                               | 1960                                                                                | 5.75   |
| 14.8ft                | lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *6770                                                                             | 6550                                                                              |                                                                                   |                                                                                     | *4630                                                                               | 4320                                                                                | (18.9) |
| 3.0m                  | kg |                                                                                   |                                                                                   | *4800                                                                             | *4800                                                                             | *3690                                                                             | 2830                                                                              | 2590                                                                              | 1790                                                                                | *2060                                                                               | 1640                                                                                | 6.32   |
| 9.8ft                 | lb |                                                                                   |                                                                                   | *10580                                                                            | *10580                                                                            | *8140                                                                             | 6240                                                                              | 5710                                                                              | 3950                                                                                | *4540                                                                               | 3620                                                                                | (20.7) |
| 1.5m                  | kg |                                                                                   |                                                                                   | *7130                                                                             | 4860                                                                              | 3930                                                                              | 2650                                                                              | 2530                                                                              | 1730                                                                                | *2170                                                                               | 1530                                                                                | 6.50   |
| 4.9ft                 | lb |                                                                                   |                                                                                   | *15720                                                                            | 10710                                                                             | 8660                                                                              | 5840                                                                              | 5580                                                                              | 3810                                                                                | *4780                                                                               | 3370                                                                                | (21.3) |
| 0.0m                  | kg |                                                                                   |                                                                                   | 7490                                                                              | 4610                                                                              | 3790                                                                              | 2520                                                                              | 2470                                                                              | 1680                                                                                | 2290                                                                                | 1560                                                                                | 6.32   |
| 0.0ft                 | lb |                                                                                   |                                                                                   | 16510                                                                             | 10160                                                                             | 8360                                                                              | 5560                                                                              | 5450                                                                              | 3700                                                                                | 5050                                                                                | 3440                                                                                | (20.7) |
| -1.5m                 | kg | *4880                                                                             | *4880                                                                             | 7460                                                                              | 4590                                                                              | 3750                                                                              | 2480                                                                              |                                                                                   |                                                                                     | 2620                                                                                | 1780                                                                                | 5.75   |
| -4.9ft                | lb | *10760                                                                            | *10760                                                                            | 16450                                                                             | 10120                                                                             | 8270                                                                              | 5470                                                                              |                                                                                   |                                                                                     | 5780                                                                                | 3920                                                                                | (18.9) |
| -3.0m                 | kg | *9320                                                                             | *9320                                                                             | *6880                                                                             | 4690                                                                              | 3820                                                                              | 2550                                                                              |                                                                                   |                                                                                     | 3660                                                                                | 2450                                                                                | 4.64   |
| -9.8ft                | lb | *20550                                                                            | *20550                                                                            | *15170                                                                            | 10340                                                                             | 8420                                                                              | 5620                                                                              |                                                                                   |                                                                                     | 8070                                                                                | 5400                                                                                | (15.2) |

Unit : mm

| Model    | Boom | Boom   | Arm    | Counterweight | Shoe  | Dozer |      | Outrigger |      |
|----------|------|--------|--------|---------------|-------|-------|------|-----------|------|
|          | Type | Length | Length | Weight (kg)   | Width | Front | Rear | Front     | Rear |
| HX130LCR | Mono | 4300   | 2810   | 2000          | 500   | Down  | -    | -         | -    |

·  : Rating over-front

·  : Rating over-side or 360 degree



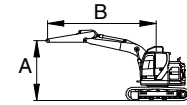
| Lift-point height (A) |    | Lift-point radius (B)                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       | 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)                                                                     |                                                                                       | Capacity                                                                              |                                                                                       | Reach  |
|                       |    |  |  |  |  |  |  |  |  |  |  | m (ft) |
| 6.0m                  | kg |                                                                                     |                                                                                     |                                                                                     |                                                                                     | *2460                                                                               | *2460                                                                               |                                                                                     |                                                                                       | *1760                                                                                 | *1760                                                                                 | 5.36   |
| 19.7ft                | lb |                                                                                     |                                                                                     |                                                                                     |                                                                                     | *5420                                                                               | *5420                                                                               |                                                                                     |                                                                                       | *3880                                                                                 | *3880                                                                                 | (17.6) |
| 4.5m                  | kg |                                                                                     |                                                                                     |                                                                                     |                                                                                     | *2550                                                                               | *2550                                                                               | *2380                                                                               | 2120                                                                                  | *1600                                                                                 | *1600                                                                                 | 6.34   |
| 14.8ft                | lb |                                                                                     |                                                                                     |                                                                                     |                                                                                     | *5620                                                                               | *5620                                                                               | *5250                                                                               | 4670                                                                                  | *3530                                                                                 | *3530                                                                                 | (20.8) |
| 3.0m                  | kg |                                                                                     |                                                                                     | *3820                                                                               | *3820                                                                               | *3210                                                                               | *3210                                                                               | *2980                                                                               | 2080                                                                                  | *1570                                                                                 | *1570                                                                                 | 6.86   |
| 9.8ft                 | lb |                                                                                     |                                                                                     | *8420                                                                               | *8420                                                                               | *7080                                                                               | *7080                                                                               | *6570                                                                               | 4590                                                                                  | *3460                                                                                 | *3460                                                                                 | (22.5) |
| 1.5m                  | kg |                                                                                     |                                                                                     | *6270                                                                               | 5810                                                                                | *4150                                                                               | 3090                                                                                | *3380                                                                               | 2000                                                                                  | *1650                                                                                 | 1550                                                                                  | 7.03   |
| 4.9ft                 | lb |                                                                                     |                                                                                     | *13820                                                                              | 12810                                                                               | *9150                                                                               | 6810                                                                                | *7450                                                                               | 4410                                                                                  | *3640                                                                                 | 3420                                                                                  | (23.1) |
| 0.0m                  | kg |                                                                                     |                                                                                     | *7830                                                                               | 5420                                                                                | *4940                                                                               | 2920                                                                                | *3740                                                                               | 1920                                                                                  | *1830                                                                                 | 1580                                                                                  | 6.86   |
| 0.0ft                 | lb |                                                                                     |                                                                                     | *17260                                                                              | 11950                                                                               | *10890                                                                              | 6440                                                                                | *8250                                                                               | 4230                                                                                  | *4030                                                                                 | 3480                                                                                  | (22.5) |
| -1.5m                 | kg | *4170                                                                               | *4170                                                                               | *8140                                                                               | 5320                                                                                | *5260                                                                               | 2840                                                                                | *3830                                                                               | 1890                                                                                  | *2210                                                                                 | 1760                                                                                  | 6.34   |
| -4.9ft                | lb | *9190                                                                               | *9190                                                                               | *17950                                                                              | 11730                                                                               | *11600                                                                              | 6260                                                                                | *8440                                                                               | 4170                                                                                  | *4870                                                                                 | 3880                                                                                  | (20.8) |
| -3.0m                 | kg | *7330                                                                               | *7330                                                                               | *7430                                                                               | 5380                                                                                | *4880                                                                               | 2870                                                                                |                                                                                     |                                                                                       | *3140                                                                                 | 2260                                                                                  | 5.36   |
| -9.8ft                | lb | *16160                                                                              | *16160                                                                              | *16380                                                                              | 11860                                                                               | *10760                                                                              | 6330                                                                                |                                                                                     |                                                                                       | *6920                                                                                 | 4980                                                                                  | (17.6) |

Unit : mm

| Model    | Boom | Boom   | Arm    | Counterweight | Shoe  | Dozer |      | Outrigger |      |
|----------|------|--------|--------|---------------|-------|-------|------|-----------|------|
|          | Type | Length | Length | Weight (kg)   | Width | Front | Rear | Front     | Rear |
| HX130LCR | Mono | 4300   | 2810   | 2000          | 500   | Up    | -    | -         | -    |

·  : Rating over-front

·  : Rating over-side or 360 degree



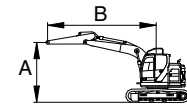
| Lift-point height (A) |    | Lift-point radius (B)                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     | 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)                                                                   |                                                                                     | Capacity                                                                            |                                                                                     | Reach  |
|                       |    |  |  |  |  |  |  |  |  |  |  | m (ft) |
| 6.0m                  | kg |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *2460                                                                             | *2460                                                                             |                                                                                   |                                                                                     | *1760                                                                               | *1760                                                                               | 5.36   |
| 19.7ft                | lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *5420                                                                             | *5420                                                                             |                                                                                   |                                                                                     | *3880                                                                               | *3880                                                                               | (17.6) |
| 4.5m                  | kg |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *2550                                                                             | *2550                                                                             | *2380                                                                             | 1970                                                                                | *1600                                                                               | *1600                                                                               | 6.34   |
| 14.8ft                | lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *5620                                                                             | *5620                                                                             | *5250                                                                             | 4340                                                                                | *3530                                                                               | *3530                                                                               | (20.8) |
| 3.0m                  | kg |                                                                                   |                                                                                   | *3820                                                                             | *3820                                                                             | *3210                                                                             | 3040                                                                              | 2600                                                                              | 1920                                                                                | *1570                                                                               | 1520                                                                                | 6.86   |
| 9.8ft                 | lb |                                                                                   |                                                                                   | *8420                                                                             | *8420                                                                             | *7080                                                                             | 6700                                                                              | 5730                                                                              | 4230                                                                                | *3460                                                                               | 3350                                                                                | (22.5) |
| 1.5m                  | kg |                                                                                   |                                                                                   | *6270                                                                             | 5280                                                                              | 3950                                                                              | 2840                                                                              | 2510                                                                              | 1840                                                                                | *1650                                                                               | 1430                                                                                | 7.03   |
| 4.9ft                 | lb |                                                                                   |                                                                                   | *13820                                                                            | 11640                                                                             | 8710                                                                              | 6260                                                                              | 5530                                                                              | 4060                                                                                | *3640                                                                               | 3150                                                                                | (23.1) |
| 0.0m                  | kg |                                                                                   |                                                                                   | 7480                                                                              | 4910                                                                              | 3770                                                                              | 2680                                                                              | 2440                                                                              | 1770                                                                                | *1830                                                                               | 1450                                                                                | 6.86   |
| 0.0ft                 | lb |                                                                                   |                                                                                   | 16490                                                                             | 10820                                                                             | 8310                                                                              | 5910                                                                              | 5380                                                                              | 3900                                                                                | *4030                                                                               | 3200                                                                                | (22.5) |
| -1.5m                 | kg | *4170                                                                             | *4170                                                                             | 7360                                                                              | 4810                                                                              | 3690                                                                              | 2610                                                                              | 2400                                                                              | 1740                                                                                | *2210                                                                               | 1610                                                                                | 6.34   |
| -4.9ft                | lb | *9190                                                                             | *9190                                                                             | 16230                                                                             | 10600                                                                             | 8140                                                                              | 5750                                                                              | 5290                                                                              | 3840                                                                                | *4870                                                                               | 3550                                                                                | (20.8) |
| -3.0m                 | kg | *7330                                                                             | *7330                                                                             | 7430                                                                              | 4870                                                                              | 3710                                                                              | 2630                                                                              |                                                                                   |                                                                                     | 2880                                                                                | 2070                                                                                | 5.36   |
| -9.8ft                | lb | *16160                                                                            | *16160                                                                            | 16380                                                                             | 10740                                                                             | 8180                                                                              | 5800                                                                              |                                                                                   |                                                                                     | 6350                                                                                | 4560                                                                                | (17.6) |

Unit : mm

| Model    | Boom | Boom   | Arm    | Counterweight | Shoe  | Dozer |      | Outrigger |      |
|----------|------|--------|--------|---------------|-------|-------|------|-----------|------|
|          | Type | Length | Length | Weight (kg)   | Width | Front | Rear | Front     | Rear |
| HX130LCR | Mono | 4300   | 2810   | 2000          | 500   | -     | -    | -         | -    |

·  : Rating over-front

·  : Rating over-side or 360 degree



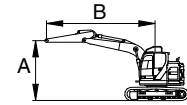
| Lift-point height (A) |    | Lift-point radius (B)                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       | 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)                                                                     |                                                                                       | Capacity                                                                              |                                                                                       | Reach  |
|                       |    |  |  |  |  |  |  |  |  |  |  | m (ft) |
| 6.0m                  | kg |                                                                                     |                                                                                     |                                                                                     |                                                                                     | *2460                                                                               | *2460                                                                               |                                                                                     |                                                                                       | *1760                                                                                 | *1760                                                                                 | 5.36   |
| 19.7ft                | lb |                                                                                     |                                                                                     |                                                                                     |                                                                                     | *5420                                                                               | *5420                                                                               |                                                                                     |                                                                                       | *3880                                                                                 | *3880                                                                                 | (17.6) |
| 4.5m                  | kg |                                                                                     |                                                                                     |                                                                                     |                                                                                     | *2550                                                                               | *2550                                                                               | *2380                                                                               | 1850                                                                                  | *1600                                                                                 | *1600                                                                                 | 6.34   |
| 14.8ft                | lb |                                                                                     |                                                                                     |                                                                                     |                                                                                     | *5620                                                                               | *5620                                                                               | *5250                                                                               | 4080                                                                                  | *3530                                                                                 | *3530                                                                                 | (20.8) |
| 3.0m                  | kg |                                                                                     |                                                                                     | *3820                                                                               | *3820                                                                               | *3210                                                                               | 2870                                                                                | 2610                                                                                | 1800                                                                                  | *1570                                                                                 | 1420                                                                                  | 6.86   |
| 9.8ft                 | lb |                                                                                     |                                                                                     | *8420                                                                               | *8420                                                                               | *7080                                                                               | 6330                                                                                | 5750                                                                                | 3970                                                                                  | *3460                                                                                 | 3130                                                                                  | (22.5) |
| 1.5m                  | kg |                                                                                     |                                                                                     | *6270                                                                               | 4980                                                                                | 3960                                                                                | 2670                                                                                | 2520                                                                                | 1720                                                                                  | *1650                                                                                 | 1330                                                                                  | 7.03   |
| 4.9ft                 | lb |                                                                                     |                                                                                     | *13820                                                                              | 10980                                                                               | 8730                                                                                | 5890                                                                                | 5560                                                                                | 3790                                                                                  | *3640                                                                                 | 2930                                                                                  | (23.1) |
| 0.0m                  | kg |                                                                                     |                                                                                     | 7500                                                                                | 4610                                                                                | 3780                                                                                | 2510                                                                                | 2440                                                                                | 1650                                                                                  | *1830                                                                                 | 1350                                                                                  | 6.86   |
| 0.0ft                 | lb |                                                                                     |                                                                                     | 16530                                                                               | 10160                                                                               | 8330                                                                                | 5530                                                                                | 5380                                                                                | 3640                                                                                  | *4030                                                                                 | 2980                                                                                  | (22.5) |
| -1.5m                 | kg | *4170                                                                               | *4170                                                                               | 7380                                                                                | 4510                                                                                | 3700                                                                                | 2430                                                                                | 2410                                                                                | 1620                                                                                  | *2210                                                                                 | 1500                                                                                  | 6.34   |
| -4.9ft                | lb | *9190                                                                               | *9190                                                                               | 16270                                                                               | 9940                                                                                | 8160                                                                                | 5360                                                                                | 5310                                                                                | 3570                                                                                  | *4870                                                                                 | 3310                                                                                  | (20.8) |
| -3.0m                 | kg | *7330                                                                               | *7330                                                                               | *7430                                                                               | 4560                                                                                | 3720                                                                                | 2450                                                                                |                                                                                     |                                                                                       | 2880                                                                                  | 1940                                                                                  | 5.36   |
| -9.8ft                | lb | *16160                                                                              | *16160                                                                              | *16380                                                                              | 10050                                                                               | 8200                                                                                | 5400                                                                                |                                                                                     |                                                                                       | 6350                                                                                  | 4280                                                                                  | (17.6) |

Unit : mm

| Model    | Boom | Boom   | Arm    | Counterweight | Shoe  | Dozer |      | Outrigger |      |
|----------|------|--------|--------|---------------|-------|-------|------|-----------|------|
|          | Type | Length | Length | Weight (kg)   | Width | Front | Rear | Front     | Rear |
| HX130LCR | 2PCS | 4556   | 1960   | 2350          | 500   | Down  | -    | -         | -    |

·  : Rating over-front

·  : Rating over-side or 360 degree



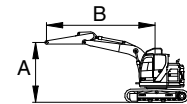
| Lift-point height (A) |    | Lift-point radius (B)                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     | 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)                                                                   |                                                                                     | Capacity                                                                            |                                                                                     | Reach  |
|                       |    |  |  |  |  |  |  |  |  |  |  | m (ft) |
| 6.0m                  | kg |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *3290                                                                             | *3290                                                                             |                                                                                   |                                                                                     | *2660                                                                               | *2660                                                                               | 4.68   |
| 19.7ft                | lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *7250                                                                             | *7250                                                                             |                                                                                   |                                                                                     | *5860                                                                               | *5860                                                                               | (15.4) |
| 4.5m                  | kg |                                                                                   |                                                                                   | *3660                                                                             | *3660                                                                             | *3290                                                                             | *3290                                                                             |                                                                                   |                                                                                     | *2350                                                                               | 2340                                                                                | 5.78   |
| 14.8ft                | lb |                                                                                   |                                                                                   | *8070                                                                             | *8070                                                                             | *7250                                                                             | *7250                                                                             |                                                                                   |                                                                                     | *5180                                                                               | 5160                                                                                | (19.0) |
| 3.0m                  | kg |                                                                                   |                                                                                   | *5610                                                                             | *5610                                                                             | *3910                                                                             | 3390                                                                              | *3360                                                                             | 2170                                                                                | *2290                                                                               | 1970                                                                                | 6.35   |
| 9.8ft                 | lb |                                                                                   |                                                                                   | *12370                                                                            | *12370                                                                            | *8620                                                                             | 7470                                                                              | *7410                                                                             | 4780                                                                                | *5050                                                                               | 4340                                                                                | (20.8) |
| 1.5m                  | kg |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *4670                                                                             | 3180                                                                              | *3630                                                                             | 2090                                                                                | *2380                                                                               | 1840                                                                                | 6.53   |
| 4.9ft                 | lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *10300                                                                            | 7010                                                                              | *8000                                                                             | 4610                                                                                | *5250                                                                               | 4060                                                                                | (21.4) |
| 0.0m                  | kg |                                                                                   |                                                                                   | *4620                                                                             | *4620                                                                             | *5130                                                                             | 3040                                                                              | *3800                                                                             | 2040                                                                                | *2640                                                                               | 1880                                                                                | 6.35   |
| 0.0ft                 | lb |                                                                                   |                                                                                   | *10190                                                                            | *10190                                                                            | *11310                                                                            | 6700                                                                              | *8380                                                                             | 4500                                                                                | *5820                                                                               | 4140                                                                                | (20.8) |
| -1.5m                 | kg |                                                                                   |                                                                                   | *7520                                                                             | 5630                                                                              | *5070                                                                             | 3010                                                                              |                                                                                   |                                                                                     | *3230                                                                               | 2150                                                                                | 5.78   |
| -4.9ft                | lb |                                                                                   |                                                                                   | *16580                                                                            | 12410                                                                             | *11180                                                                            | 6640                                                                              |                                                                                   |                                                                                     | *7120                                                                               | 4740                                                                                | (19.0) |
| -3.0m                 | kg |                                                                                   |                                                                                   | *6200                                                                             | 5780                                                                              | *4050                                                                             | 3120                                                                              |                                                                                   |                                                                                     |                                                                                     |                                                                                     |        |
| -9.8ft                | lb |                                                                                   |                                                                                   | *13670                                                                            | 12740                                                                             | *8930                                                                             | 6880                                                                              |                                                                                   |                                                                                     |                                                                                     |                                                                                     |        |

Unit : mm

| Model    | Boom | Boom   | Arm    | Counterweight | Shoe  | Dozer |      | Outrigger |      |
|----------|------|--------|--------|---------------|-------|-------|------|-----------|------|
|          | Type | Length | Length | Weight (kg)   | Width | Front | Rear | Front     | Rear |
| HX130LCR | 2PCS | 4556   | 1960   | 2350          | 500   | Up    | -    | -         | -    |

·  : Rating over-front

·  : Rating over-side or 360 degree



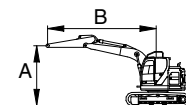
| Lift-point height (A) |    | Lift-point radius (B)                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       | 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)                                                                     |                                                                                       | Capacity                                                                              |                                                                                       | Reach  |
|                       |    |  |  |  |  |  |  |  |  |  |  | m (ft) |
| 6.0m                  | kg |                                                                                     |                                                                                     |                                                                                     |                                                                                     | *3290                                                                               | *3290                                                                               |                                                                                     |                                                                                       | *2660                                                                                 | *2660                                                                                 | 4.68   |
| 19.7ft                | lb |                                                                                     |                                                                                     |                                                                                     |                                                                                     | *7250                                                                               | *7250                                                                               |                                                                                     |                                                                                       | *5860                                                                                 | *5860                                                                                 | (15.4) |
| 4.5m                  | kg |                                                                                     |                                                                                     | *3660                                                                               | *3660                                                                               | *3290                                                                               | *3290                                                                               |                                                                                     |                                                                                       | *2350                                                                                 | 2170                                                                                  | 5.78   |
| 14.8ft                | lb |                                                                                     |                                                                                     | *8070                                                                               | *8070                                                                               | *7250                                                                               | *7250                                                                               |                                                                                     |                                                                                       | *5180                                                                                 | 4780                                                                                  | (19.0) |
| 3.0m                  | kg |                                                                                     |                                                                                     | *5610                                                                               | *5610                                                                               | *3910                                                                               | 3130                                                                                | 2730                                                                                | 2000                                                                                  | *2290                                                                                 | 1820                                                                                  | 6.35   |
| 9.8ft                 | lb |                                                                                     |                                                                                     | *12370                                                                              | *12370                                                                              | *8620                                                                               | 6900                                                                                | 6020                                                                                | 4410                                                                                  | *5050                                                                                 | 4010                                                                                  | (20.8) |
| 1.5m                  | kg |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 4090                                                                                | 2920                                                                                | 2650                                                                                | 1930                                                                                  | 2320                                                                                  | 1700                                                                                  | 6.53   |
| 4.9ft                 | lb |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 9020                                                                                | 6440                                                                                | 5840                                                                                | 4250                                                                                  | 5110                                                                                  | 3750                                                                                  | (21.4) |
| 0.0m                  | kg |                                                                                     |                                                                                     | *4620                                                                               | *4620                                                                               | 3950                                                                                | 2790                                                                                | 2590                                                                                | 1870                                                                                  | 2390                                                                                  | 1730                                                                                  | 6.35   |
| 0.0ft                 | lb |                                                                                     |                                                                                     | *10190                                                                              | *10190                                                                              | 8710                                                                                | 6150                                                                                | 5710                                                                                | 4120                                                                                  | 5270                                                                                  | 3810                                                                                  | (20.8) |
| -1.5m                 | kg |                                                                                     |                                                                                     | *7520                                                                               | 5100                                                                                | 3920                                                                                | 2760                                                                                |                                                                                     |                                                                                       | 2740                                                                                  | 1980                                                                                  | 5.78   |
| -4.9ft                | lb |                                                                                     |                                                                                     | *16580                                                                              | 11240                                                                               | 8640                                                                                | 6080                                                                                |                                                                                     |                                                                                       | 6040                                                                                  | 4370                                                                                  | (19.0) |
| -3.0m                 | kg |                                                                                     |                                                                                     | *6200                                                                               | 5240                                                                                | 4030                                                                                | 2860                                                                                |                                                                                     |                                                                                       |                                                                                       |                                                                                       |        |
| -9.8ft                | lb |                                                                                     |                                                                                     | *13670                                                                              | 11550                                                                               | 8880                                                                                | 6310                                                                                |                                                                                     |                                                                                       |                                                                                       |                                                                                       |        |

Unit : mm

| Model    | Boom | Boom   | Arm    | Counterweight | Shoe  | Dozer |      | Outrigger |      |
|----------|------|--------|--------|---------------|-------|-------|------|-----------|------|
|          | Type | Length | Length | Weight (kg)   | Width | Front | Rear | Front     | Rear |
| HX130LCR | 2PCS | 4556   | 1960   | 2350          | 500   | -     | -    | -         | -    |

·  : Rating over-front

·  : Rating over-side or 360 degree



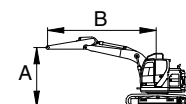
| Lift-point height (A) |    | Lift-point radius (B)                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     | 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)                                                                   |                                                                                     | Capacity                                                                            |                                                                                     | Reach  |
|                       |    |  |  |  |  |  |  |  |  |  |  | m (ft) |
| 6.0m                  | kg |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *3290                                                                             | 3160                                                                              |                                                                                   |                                                                                     | *2660                                                                               | *2660                                                                               | 4.68   |
| 19.7ft                | lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *7250                                                                             | 6970                                                                              |                                                                                   |                                                                                     | *5860                                                                               | *5860                                                                               | (15.4) |
| 4.5m                  | kg |                                                                                   |                                                                                   | *3660                                                                             | *3660                                                                             | *3290                                                                             | 3140                                                                              |                                                                                   |                                                                                     | *2350                                                                               | 2040                                                                                | 5.78   |
| 14.8ft                | lb |                                                                                   |                                                                                   | *8070                                                                             | *8070                                                                             | *7250                                                                             | 6920                                                                              |                                                                                   |                                                                                     | *5180                                                                               | 4500                                                                                | (19.0) |
| 3.0m                  | kg |                                                                                   |                                                                                   | *5610                                                                             | 5540                                                                              | *3910                                                                             | 2960                                                                              | 2730                                                                              | 1880                                                                                | *2290                                                                               | 1710                                                                                | 6.35   |
| 9.8ft                 | lb |                                                                                   |                                                                                   | *12370                                                                            | 12210                                                                             | *8620                                                                             | 6530                                                                              | 6020                                                                              | 4140                                                                                | *5050                                                                               | 3770                                                                                | (20.8) |
| 1.5m                  | kg |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 4100                                                                              | 2750                                                                              | 2650                                                                              | 1810                                                                                | 2330                                                                                | 1590                                                                                | 6.53   |
| 4.9ft                 | lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 9040                                                                              | 6060                                                                              | 5840                                                                              | 3990                                                                                | 5140                                                                                | 3510                                                                                | (21.4) |
| 0.0m                  | kg |                                                                                   |                                                                                   | *4620                                                                             | *4620                                                                             | 3960                                                                              | 2620                                                                              | 2590                                                                              | 1750                                                                                | 2390                                                                                | 1620                                                                                | 6.35   |
| 0.0ft                 | lb |                                                                                   |                                                                                   | *10190                                                                            | *10190                                                                            | 8730                                                                              | 5780                                                                              | 5710                                                                              | 3860                                                                                | 5270                                                                                | 3570                                                                                | (20.8) |
| -1.5m                 | kg |                                                                                   |                                                                                   | *7520                                                                             | 4790                                                                              | 3930                                                                              | 2590                                                                              |                                                                                   |                                                                                     | 2740                                                                                | 1850                                                                                | 5.78   |
| -4.9ft                | lb |                                                                                   |                                                                                   | *16580                                                                            | 10560                                                                             | 8660                                                                              | 5710                                                                              |                                                                                   |                                                                                     | 6040                                                                                | 4080                                                                                | (19.0) |
| -3.0m                 | kg |                                                                                   |                                                                                   | *6200                                                                             | 4930                                                                              | 4040                                                                              | 2690                                                                              |                                                                                   |                                                                                     |                                                                                     |                                                                                     |        |
| -9.8ft                | lb |                                                                                   |                                                                                   | *13670                                                                            | 10870                                                                             | 8910                                                                              | 5930                                                                              |                                                                                   |                                                                                     |                                                                                     |                                                                                     |        |

Unit : mm

| Model    | Boom | Boom   | Arm    | Counterweight | Shoe  | Dozer |      | Outrigger |      |
|----------|------|--------|--------|---------------|-------|-------|------|-----------|------|
|          | Type | Length | Length | Weight (kg)   | Width | Front | Rear | Front     | Rear |
| HX130LCR | 2PCS | 4556   | 2260   | 2350          | 500   | Down  | -    | -         | -    |

·  : Rating over-front

·  : Rating over-side or 360 degree



| 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)                                                                     |                                                                                       | Capacity                                                                              |                                                                                       | Reach  |
|                       |    |  |  |  |  |  |  |  |  |  |  | m (ft) |
| 7.5m                  | kg |                                                                                     |                                                                                     | *3530                                                                               | *3530                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                       | *3290                                                                                 | *3290                                                                                 | 3.08   |
| 24.6ft                | lb |                                                                                     |                                                                                     | *7780                                                                               | *7780                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                       | *7250                                                                                 | *7250                                                                                 | (10.1) |
| 6.0m                  | kg |                                                                                     |                                                                                     |                                                                                     |                                                                                     | *2940                                                                               | *2940                                                                               |                                                                                     |                                                                                       | *2380                                                                                 | *2380                                                                                 | 5.07   |
| 19.7ft                | lb |                                                                                     |                                                                                     |                                                                                     |                                                                                     | *6480                                                                               | *6480                                                                               |                                                                                     |                                                                                       | *5250                                                                                 | *5250                                                                                 | (16.6) |
| 4.5m                  | kg |                                                                                     |                                                                                     |                                                                                     |                                                                                     | *3050                                                                               | *3050                                                                               | *2620                                                                               | 2230                                                                                  | *2140                                                                                 | *2140                                                                                 | 6.10   |
| 14.8ft                | lb |                                                                                     |                                                                                     |                                                                                     |                                                                                     | *6720                                                                               | *6720                                                                               | *5780                                                                               | 4920                                                                                  | *4720                                                                                 | *4720                                                                                 | (20.0) |
| 3.0m                  | kg |                                                                                     |                                                                                     | *5110                                                                               | *5110                                                                               | *3700                                                                               | 3420                                                                                | *3200                                                                               | 2180                                                                                  | *2090                                                                                 | 1840                                                                                  | 6.64   |
| 9.8ft                 | lb |                                                                                     |                                                                                     | *11270                                                                              | *11270                                                                              | *8160                                                                               | 7540                                                                                | *7050                                                                               | 4810                                                                                  | *4610                                                                                 | 4060                                                                                  | (21.8) |
| 1.5m                  | kg |                                                                                     |                                                                                     |                                                                                     |                                                                                     | *4510                                                                               | 3200                                                                                | *3520                                                                               | 2100                                                                                  | *2160                                                                                 | 1720                                                                                  | 6.81   |
| 4.9ft                 | lb |                                                                                     |                                                                                     |                                                                                     |                                                                                     | *9940                                                                               | 7050                                                                                | *7760                                                                               | 4630                                                                                  | *4760                                                                                 | 3790                                                                                  | (22.4) |
| 0.0m                  | kg |                                                                                     |                                                                                     | *4950                                                                               | *4950                                                                               | *5060                                                                               | 3040                                                                                | *3760                                                                               | 2030                                                                                  | *2390                                                                                 | 1760                                                                                  | 6.64   |
| 0.0ft                 | lb |                                                                                     |                                                                                     | *10910                                                                              | *10910                                                                              | *11160                                                                              | 6700                                                                                | *8290                                                                               | 4480                                                                                  | *5270                                                                                 | 3880                                                                                  | (21.8) |
| -1.5m                 | kg |                                                                                     |                                                                                     | *7690                                                                               | 5590                                                                                | *5110                                                                               | 2990                                                                                | *3630                                                                               | 2020                                                                                  | *2870                                                                                 | 1980                                                                                  | 6.10   |
| -4.9ft                | lb |                                                                                     |                                                                                     | *16950                                                                              | 12320                                                                               | *11270                                                                              | 6590                                                                                | *8000                                                                               | 4450                                                                                  | *6330                                                                                 | 4370                                                                                  | (20.0) |
| -3.0m                 | kg |                                                                                     |                                                                                     | *6580                                                                               | 5710                                                                                | *4400                                                                               | 3060                                                                                |                                                                                     |                                                                                       | *3610                                                                                 | 2610                                                                                  | 5.07   |
| -9.8ft                | lb |                                                                                     |                                                                                     | *14510                                                                              | 12590                                                                               | *9700                                                                               | 6750                                                                                |                                                                                     |                                                                                       | *7960                                                                                 | 5750                                                                                  | (16.6) |

Unit : mm

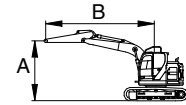
| Model    | Boom | Boom   | Arm    | Counterweight | Shoe  | Dozer |      | Outrigger |      |
|----------|------|--------|--------|---------------|-------|-------|------|-----------|------|
|          | Type | Length | Length | Weight (kg)   | Width | Front | Rear | Front     | Rear |
| HX130LCR | 2PCS | 4556   | 2260   | 2350          | 500   | Up    | -    | -         | -    |



: Rating over-front



: Rating over-side or 360 degree



| 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) |      | Capacity      | Reach |
|                       |    |                       |  |                |        |                 |       |                 |      |               |       |
| 7.5m                  | kg |                       |  | *3530          | *3530  |                 |       |                 |      | *3290         | *3290 |
| 24.6ft                | lb |                       |  | *7780          | *7780  |                 |       |                 |      | *7250         | *7250 |
| 6.0m                  | kg |                       |  |                |        | *2940           | *2940 |                 |      | *2380         | *2380 |
| 19.7ft                | lb |                       |  |                |        | *6480           | *6480 |                 |      | *5250         | *5250 |
| 4.5m                  | kg |                       |  |                |        | *3050           | *3050 | *2620           | 2060 | *2140         | 1990  |
| 14.8ft                | lb |                       |  |                |        | *6720           | *6720 | *5780           | 4540 | *4720         | 4390  |
| 3.0m                  | kg |                       |  | *5110          | *5110  | *3700           | 3160  | 2740            | 2020 | *2090         | 1700  |
| 9.8ft                 | lb |                       |  | *11270         | *11270 | *8160           | 6970  | 6040            | 4450 | *4610         | 3750  |
| 1.5m                  | kg |                       |  |                |        | 4120            | 2940  | 2650            | 1930 | *2160         | 1590  |
| 4.9ft                 | lb |                       |  |                |        | 9080            | 6480  | 5840            | 4250 | *4760         | 3510  |
| 0.0m                  | kg |                       |  | *4950          | *4950  | 3950            | 2790  | 2580            | 1860 | 2230          | 1610  |
| 0.0ft                 | lb |                       |  | *10910         | *10910 | 8710            | 6150  | 5690            | 4100 | 4920          | 3550  |
| -1.5m                 | kg |                       |  | *7690          | 5050   | 3890            | 2740  | 2570            | 1850 | 2510          | 1820  |
| -4.9ft                | lb |                       |  | *16950         | 11130  | 8580            | 6040  | 5670            | 4080 | 5530          | 4010  |
| -3.0m                 | kg |                       |  | *6580          | 5170   | 3960            | 2800  |                 |      | 3340          | 2400  |
| -9.8ft                | lb |                       |  | *14510         | 11400  | 8730            | 6170  |                 |      | 7360          | 5290  |

Unit : mm

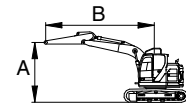
| Model    | Boom | Boom   | Arm    | Counterweight | Shoe  | Dozer |      | Outrigger |      |
|----------|------|--------|--------|---------------|-------|-------|------|-----------|------|
|          | Type | Length | Length | Weight (kg)   | Width | Front | Rear | Front     | Rear |
| HX130LCR | 2PCS | 4556   | 2260   | 2350          | 500   | -     | -    | -         | -    |



: Rating over-front



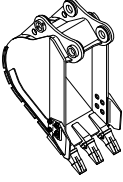
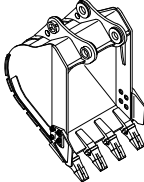
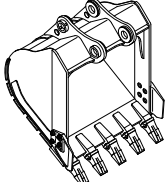
: Rating over-side or 360 degree



| 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) |      | Capacity      | Reach |
|                       |    |                       |  |                |        |                 |       |                 |      |               |       |
| 7.5m                  | kg |                       |  | *3530          | *3530  |                 |       |                 |      | *3290         | *3290 |
| 24.6ft                | lb |                       |  | *7780          | *7780  |                 |       |                 |      | *7250         | *7250 |
| 6.0m                  | kg |                       |  |                |        | *2940           | *2940 |                 |      | *2380         | *2380 |
| 19.7ft                | lb |                       |  |                |        | *6480           | *6480 |                 |      | *5250         | *5250 |
| 4.5m                  | kg |                       |  |                |        | *3050           | *3050 | *2620           | 1940 | *2140         | 1880  |
| 14.8ft                | lb |                       |  |                |        | *6720           | *6720 | *5780           | 4280 | *4720         | 4140  |
| 3.0m                  | kg |                       |  | *5110          | *5110  | *3700           | 2990  | 2750            | 1900 | *2090         | 1590  |
| 9.8ft                 | lb |                       |  | *11270         | *11270 | *8160           | 6590  | 6060            | 4190 | *4610         | 3510  |
| 1.5m                  | kg |                       |  |                |        | 4130            | 2770  | 2660            | 1810 | *2160         | 1480  |
| 4.9ft                 | lb |                       |  |                |        | 9110            | 6110  | 5860            | 3990 | *4760         | 3260  |
| 0.0m                  | kg |                       |  | *4950          | 4750   | 3960            | 2620  | 2580            | 1740 | 2230          | 1510  |
| 0.0ft                 | lb |                       |  | *10910         | 10470  | 8730            | 5780  | 5690            | 3840 | 4920          | 3330  |
| -1.5m                 | kg |                       |  | *7690          | 4740   | 3900            | 2570  | 2570            | 1730 | 2520          | 1700  |
| -4.9ft                | lb |                       |  | *16950         | 10450  | 8600            | 5670  | 5670            | 3810 | 5560          | 3750  |
| -3.0m                 | kg |                       |  | *6580          | 4860   | 3970            | 2630  |                 |      | 3350          | 2250  |
| -9.8ft                | lb |                       |  | *14510         | 10710  | 8750            | 5800  |                 |      | 7390          | 4960  |

## 6. BUCKET SELECTION GUIDE

### 1) GENERAL BUCKET

|                                                                                   |                                                                                   |                                                                                     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |
| 0.30 m³ SAE<br>heaped bucket                                                      | ※ 0.40, 0.45, 0.50 m³ SAE<br>heaped bucket                                        | 0.59 m³ SAE<br>heaped bucket                                                        |

| Capacity                |                       | Width                  |                     | Weight              | Recommendation              |                       |                       |                                   |                       |
|-------------------------|-----------------------|------------------------|---------------------|---------------------|-----------------------------|-----------------------|-----------------------|-----------------------------------|-----------------------|
|                         |                       |                        |                     |                     | 4.3 m (14' 1")<br>Mono boom |                       |                       | 4.556 m (14' 11")<br>2-piece boom |                       |
| SAE<br>heaped           | CECE<br>heaped        | Without<br>side cutter | With<br>side cutter |                     | 1.96 m arm<br>(6' 5")       | 2.26 m arm<br>(7' 5") | 2.81 m arm<br>(9' 3") | 1.96 m arm<br>(6' 5")             | 2.26 m arm<br>(7' 5") |
| 0.30 m³<br>(0.39 yd³)   | 0.27 m³<br>(0.35 yd³) | 610 mm<br>(24.0")      | 700 mm<br>(27.6")   | 332 kg<br>(730 lb)  | ●                           | ●                     | ●                     | ●                                 | ●                     |
| ※ 0.40 m³<br>(0.52 yd³) | 0.35 m³<br>(0.46 yd³) | 760 mm<br>(29.9")      | 850 mm<br>(33.5")   | 383 kg<br>(840 lb)  | ●                           | ●                     | ●                     | ●                                 | ●                     |
| 0.45 m³<br>(0.59 yd³)   | 0.40 m³<br>(0.52 yd³) | 830 mm<br>(32.7")      | 920 mm<br>(36.2")   | 401 kg<br>(880 lb)  | ●                           | ●                     | ◐                     | ●                                 | ●                     |
| 0.50 m³<br>(0.65 yd³)   | 0.45 m³<br>(0.59 yd³) | 900 mm<br>(35.4")      | 990 mm<br>(39.0")   | 419 kg<br>(920 lb)  | ●                           | ●                     | ◐                     | ●                                 | ◐                     |
| 0.59 m³<br>(0.77 yd³)   | 0.52 m³<br>(0.68 yd³) | 1030 mm<br>(40.6")     | 1120 mm<br>(44.1")  | 463 kg<br>(1020 lb) | ◐                           | ■                     | ▲                     | ◐                                 | ■                     |

※ : Standard bucket

- Applicable for materials with density of 2100 kg/m³ (3540 lb/yd³) or less
- ◐ Applicable for materials with density of 1800 kg/m³ (3030 lb/yd³) or less
- Applicable for materials with density of 1500 kg/m³ (2530 lb/yd³) or less
- ▲ Applicable for materials with density of 1200 kg/m³ (2020 lb/yd³) or less

※ 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.

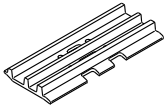
Consult your Hyundai dealer for information on selecting the correct boom-arm-bucket combination.

## 7. UNDERCARRIAGE

### 1) TRACKS

X-leg type center frame is integrally welded with reinforced box-section track frames. The design includes dry tracks, lubricated rollers, idlers, sprockets, hydraulic track adjusters with shock absorbing springs and assembled track-type tractor shoes with triple grousers.

### 2) TYPES OF SHOES

| Model     | Shapes           |                           | Triple grouser                                                                     |               |               |
|-----------|------------------|---------------------------|------------------------------------------------------------------------------------|---------------|---------------|
|           |                  |                           |  |               |               |
| HX130LCR  | Shoe width       | mm (in)                   | ※ 500 (20)                                                                         | 600 (24)      | 700 (28)      |
|           | Operating weight | kg (lb)                   | 12700 (28000)                                                                      | 12850 (28330) | 13000 (28660) |
|           | Ground pressure  | kgf/cm <sup>2</sup> (psi) | 0.42 (5.95)                                                                        | 0.35 (5.02)   | 0.31 (4.35)   |
|           | Overall width    | mm (ft-in)                | 2500 (8' 2")                                                                       | 2600 (8' 6")  | 2700 (8' 10") |
| HX130LCRD | Shoe width       | mm (in)                   | ※ 500 (20)                                                                         | 600 (24)      | -             |
|           | Operating weight | kg (lb)                   | 13400 (29540)                                                                      | 13560 (29890) | -             |
|           | Ground pressure  | kgf/cm <sup>2</sup> (psi) | 0.44 (6.28)                                                                        | 0.37 (5.30)   | -             |
|           | Overall width    | mm (ft-in)                | 2500 (8' 2")                                                                       | 2600 (8' 6")  | -             |
|           | Dozer width      | mm (ft-in)                | 2500 (8' 2")                                                                       | 2600 (8' 6")  | -             |

※ Standard

### 3) NUMBER OF ROLLERS AND SHOES ON EACH SIDE

| Item            | Quantity           |
|-----------------|--------------------|
|                 | HX130LCR/HX130LCRD |
| Carrier rollers | 1 EA               |
| Track rollers   | 7 EA               |
| Track shoes     | 45 EA              |

#### 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 |
|-----------------------|---------------|----------|
| 500 mm triple grouser | Standard      | A        |
| 600 mm triple grouser | Option        | A        |
| 700 mm triple grouser | Option        | B        |

※ **Table 2**

| Category | Applications                                | Applications                                                                                                                                                                                                                       |
|----------|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A        | Rocky ground,<br>river beds,<br>normal soil | · Travel at low speed on rough ground with large obstacles such as boulders or fallen trees                                                                                                                                        |
| B        | Normal soil,<br>soft ground                 | · These shoes cannot be used on rough ground with large obstacles such as boulders or fallen trees<br>· Travel at high speed only on flat ground<br>· Travel slowly at low speed if it is impossible to avoid going over obstacles |

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