

# DX55W

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MODEL

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# 1. GENERAL SPECIFICATION

ITEMS		UNIT	DX55W(1)	DX55W(2)
OPERATING WEIGHT		<b>ton</b>	<b>5.55</b>	<b>5.57</b>
BUCKET CAPACITY (CECE / SAE)		<b>m<sup>3</sup></b>	<b>0.15 / 0.175</b>	
ENGINE	RATED POWER	<b>PS/rpm</b>	<b>55.5 / 2,400</b>	
	MAX. TORQUE	<b>kg.m/rpm</b>	<b>21 / 1,550</b>	
SYSTEM PRESSURE (FRONT, TRAVEL/SWING, DOZER)		<b>kg/cm<sup>2</sup></b>	<b>230 / 210</b>	
SWING SPEED		<b>rpm</b>	<b>8.7</b>	
TRAVEL SPEED		<b>km/h</b>	<b>30/10</b>	
GRADEABILITY		<b>%(deg)</b>	<b>70 (35°)</b>	
TIRE SIZE (SINGLE / TWIN)		<b>mm</b>	<b>12-16.5-12 PR / 8.25-15-14PR</b>	
DIGGING FORCE(SAE)	BUCKET (ISO / SAE)	<b>ton</b>	<b>4.1 / 3.6</b>	<b>4.1/3.6</b>
	ARM (ISO / SAE)	<b>ton</b>	<b>2.7 / 2.6</b>	<b>2.4/2.3</b>
WORKING RANGE	MAX. DIGGING REACH	<b>mm</b>	<b>6,110</b>	<b>6,400</b>
	MAX. DIGGING DEPTH	<b>mm</b>	<b>3,495</b>	<b>3,795</b>
	MAX. DIGGING HEIGHT	<b>mm</b>	<b>5,980</b>	<b>4,455</b>
	REAR SWING RADIUS	<b>mm</b>	<b>1,650</b>	<b>6,170</b>
	MIN. SWING RADIUS	<b>mm</b>	<b>1,980</b>	<b>1,990</b>
TRAVEL DIMENSION	OVERALL LENGTH	<b>mm</b>	<b>6,120</b>	
	OVERALL WIDTH	<b>mm</b>	<b>1,920</b>	
	OVERALL HEIGHT	<b>mm</b>	<b>2,855</b>	
	GROUND CLEARANCE	<b>mm</b>	<b>290</b>	
	WHEEL BASE	<b>mm</b>	<b>2,100</b>	
	TREAD	<b>mm</b>	<b>1,600</b>	
DOZER BLADE WIDTH x HEIGHT		<b>mm</b>	<b>1,920 x 500</b>	
MIN. TURNING RADIUS		<b>m</b>	<b>5.0</b>	
OPTION ATTACHMENT		<b>ARM : 1.6M, 1.9M</b> <b>BUCKET : 0.175 m<sup>3</sup>, 0.19 m<sup>3</sup>, 0.07 m<sup>3</sup>,</b> <b>REAR DOZER BLADE : 1,920 x 500, 2,290 x 500</b> <b>TIRE : SINGLE 12 - 16.5 - 12PR</b> <b>TWIN 8.25 - 15 - 14PR</b> <b>STANDARD BOOM LOCK VALVE</b> <b>CLAMSHELL PIPING</b> <b>ROTATION PIPING</b>		
DX55W(1) : <b>STD BOOM(3,000 mm), STD ARM(1,600 mm), BUCKET(0.175 m<sup>3</sup>), REAR DOZER BLADE(1,920x500)</b> DX55W(2) : <b>STD BOOM(3,000 mm), OPT ARM(1,900 mm), BUCKET(0.175 m<sup>3</sup>), REAR DOZER BLADE(1,920x500)</b>				

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## 2. ENGINE SYSTEM

### 2.1) ENGINE

RATED HORSE POWER	:	<b>40.8KW (55.5 PS) @2,400 rpm</b>
MAX. TORQUE	:	<b>21 kgf.m @ 1,550 rpm</b>
FUEL CONSUMPTION	:	<b>181 g/ps.hr @ RATED SPEED</b>
TYPE	:	<b>4 – Cycle, Water-cooled, Direct injection</b>
DISPLACEMENT	:	<b>3,319 cc</b>
No. OF CYLINDER	:	<b>4</b>
BORE DIA. & STROKE	:	<b>Φ98 x 110 mm</b>

### 2.2) ALTERNATOR

VOLTAGE	:	<b>12 V</b>
RATING AMPERES	:	<b>60A</b>

### 2.3) BATTERY

SYSTEM VOLTAGE	:	<b>12 V</b>
QUANTITY	:	<b>1</b>
CAPACITY (AMP)	:	<b>100 AH</b>

## 3. HYDRAULIC SYSTEM

### 3.1) MAIN PUMP

DISPLACEMENT	:	<b>2 x 25 + 16.2 + 8.9 cc/rev</b>
MAX. FLOW RATE	:	<b>2 x 60 + 38.9 + 21.4 Liter/min</b>

### 3.2) CONTROL VALVE; MAIN

RELIEF VALVE PRESSURE	:	<b>210 Kg/cm<sup>2</sup> (SW, DZ, BS)</b>
	:	<b>230 Kg/cm<sup>2</sup> (ALL OTHERS)</b>

### 3.3) REMOTE CONTROL VALVE; JOYSTICK

TYPE	:	<b>PILOT</b>
SUPPLY PRESSURE	:	<b>33 Kg/cm</b>

## 4. SWING MECHANISM

### 4.1) SWING MOTOR

MOTOR SHAFT SPEED	:	<b>1,303 rpm</b>
MOTOR SHAFT TORQUE	:	<b>8.7 kg-.m</b>

## 5. TRAVEL SYSTEM

### 5.1) TRAVELLING PERFORMANCE (SEE PAGE 14)

MAX. SPEED	:	<b>30 Km/Hr</b>
MAX. TRACTIVE EFFORT	:	<b>3.3 TON</b>
GRADEABILITY	:	<b>35° (70%)</b>

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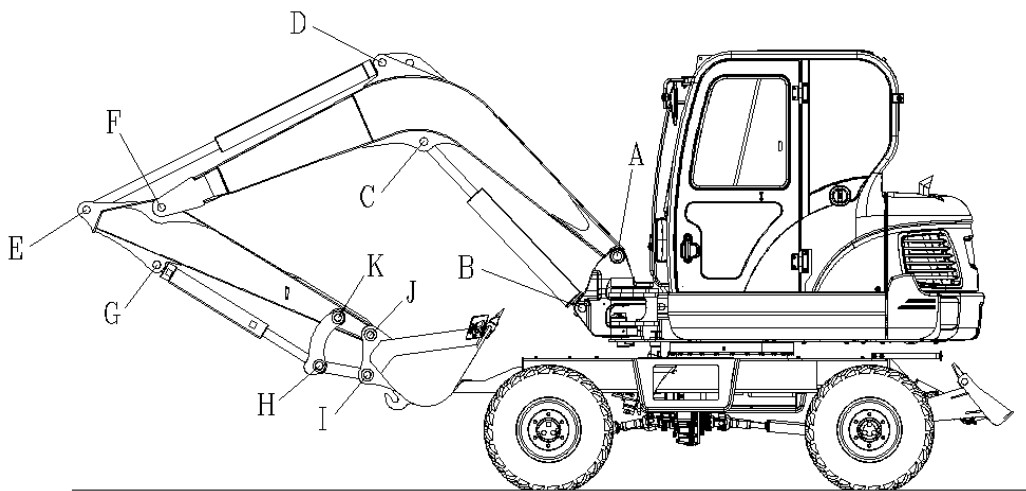
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## 6. HYDRAULIC CYLINDERS

	BOOM	ARM	BUCKET	DOZER	CHOCKING	BOOM SWING
QUANTITY	1	1	1	1	2	1
BORE	110mm (4.33")	85mm (3.34")	80mm (3.15 ")	110mm (4.33")	75mm (2.95 ")	95mm (3.74 ")
STROKE	712mm (2' 4")	873mm (2' 10")	600mm (2')	160mm (6.3")	100mm (3.94")	558mm (1' 10")
ROD DIA.	60mm (2.36")	55mm (2.17")	50mm (1.97")	60mm (2.36")	75mm (2.95 ")	50mm (1.97")

## 7. FRONT

### 7.1) FRONT LINKAGE PIN SIZES



POINT	DIA(mm)	LINGTH(mm)
A	55	357
B	50	205
C	50	206
D	50	152
E	50	152
F	50	287
G	50	152
H	50	286
I	45	285
J	45	285
K	45	286

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7.2) WORKING ATTACHMENT

7.2.1) BOOM

	LENGTH (mm)	WEIGHT (kg)
MONO BLOCK BOOM (STANDARD)	<b>3,000</b>	<b>258</b>

7.2.2) ARM

	LENGTH (mm)	WEIGHT (kgf)	DIGGING FORCE (TON)
SHORT	<b>X</b>	<b>X</b>	
STANDARD	<b>1,600</b>	<b>120</b>	<b>[SAE] 2.615 [ISO] 2.69</b>
LONG	<b>1,900</b>	<b>140</b>	<b>[SAE] 2.270 [ISO] 2.41</b>

7.2.3) BUCKET

	CAPACITY (m <sup>3</sup> )		BUCKET WIDTH (mm)		DIGGING FORCE (TON)
	CECE	SAE	W/CUTTER	W/O CUTTER	
GP	<b>0.15</b>	<b>0.175</b>	<b>724</b>	<b>654</b>	<b>[SAE] 3.637 [ISO] 4.06</b>
	<b>0.17</b>	<b>0.19</b>	<b>784</b>	<b>712</b>	
	<b>0.06</b>	<b>0.07</b>	<b>362</b>	<b>300</b>	

7.3) OPTION PIPING

AVAILABLE ATTACHMENT

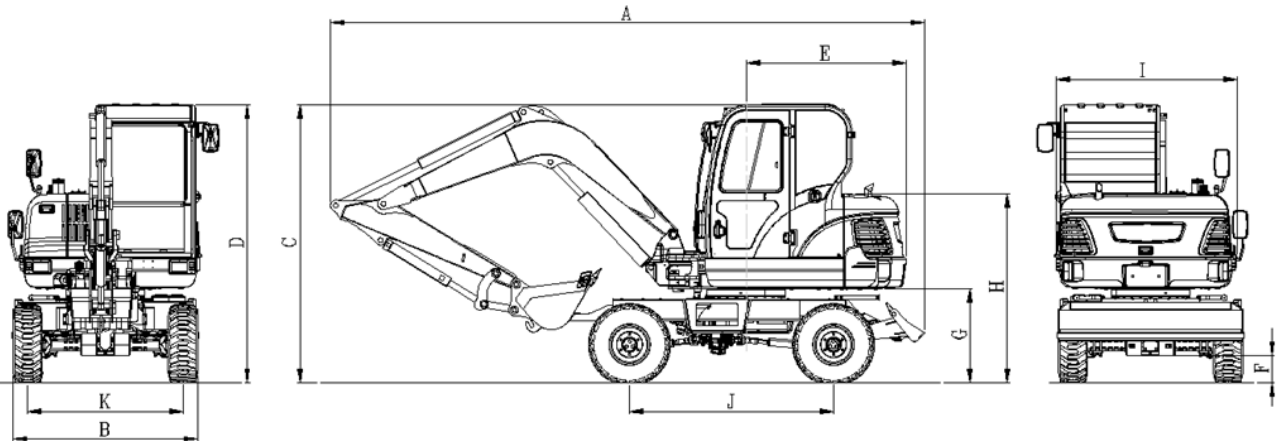
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**BREAKER**  
**CLAMSHELL**

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## 8. DIMENSIONS AND WORKING RANGE

### 8.1) DIMENSIONS



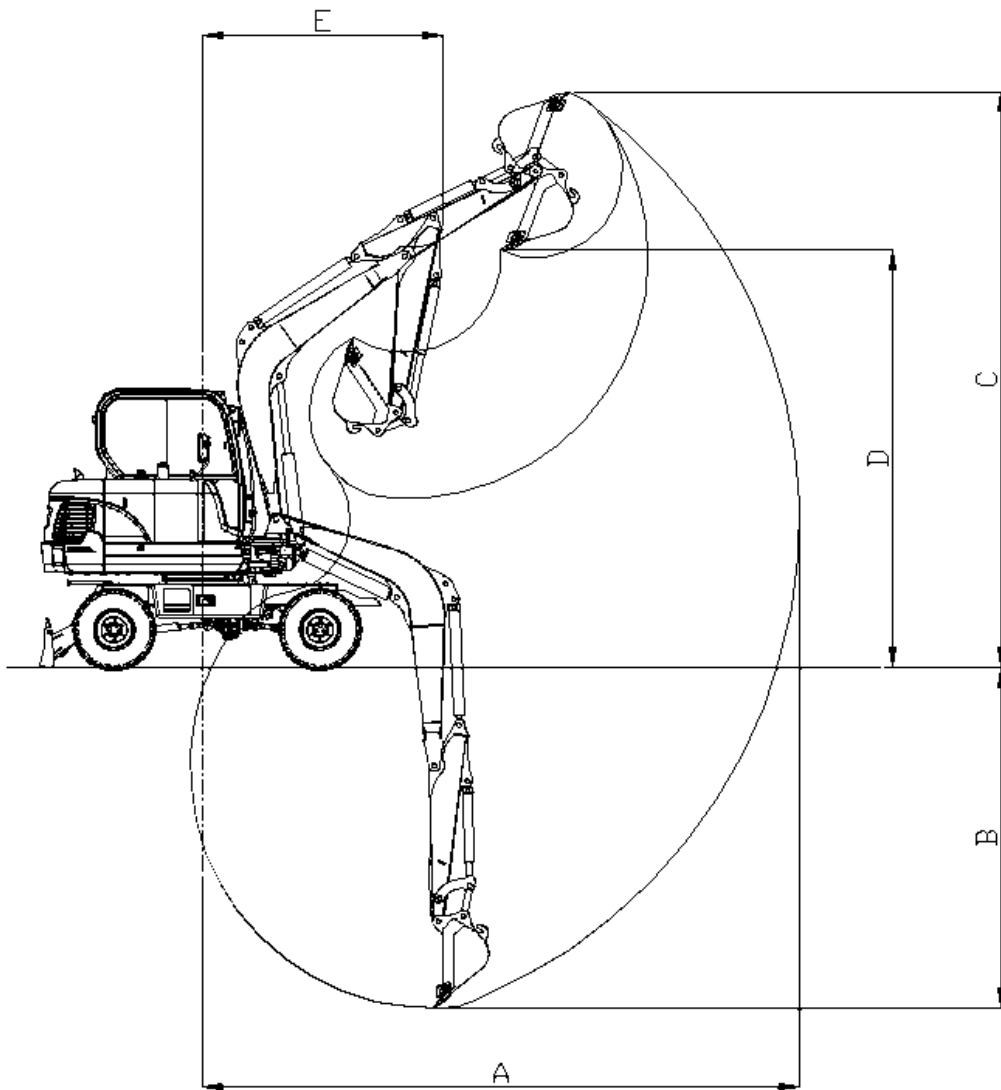
DESCRIPTION	REFERENCE	DIMENSIONS	
		STANDARD (SINGLE TIRE)	OPTION (TWIN TIRE)
OVERALL LENGTH	A	<b>6,120mm</b>	
OVERALL WIDTH	B	<b>1,920mm</b>	<b>2,290mm</b>
OVERALL HEIGHT	C	<b>2,855mm</b>	
OVERALL HEIGHT (TO TOP OF CAB)	D	<b>2,855mm</b>	
TAIL SWING RADIUS	E	<b>1,650mm</b>	
MINIMUM GROUND CLEARANCE	F	<b>290mm</b>	
UPPER STRUCTURE GROUND CLEARANCE	G	<b>980mm</b>	
ENGINE COVER HEIGHT	H	<b>1,935mm</b>	
UPPER STRUCTURE WIDTH	I	<b>1,850mm</b>	
WHEEL BASE	J	<b>2,100mm</b>	
TREAD WIDTH	K	<b>1,600mm</b>	<b>2,275mm</b>

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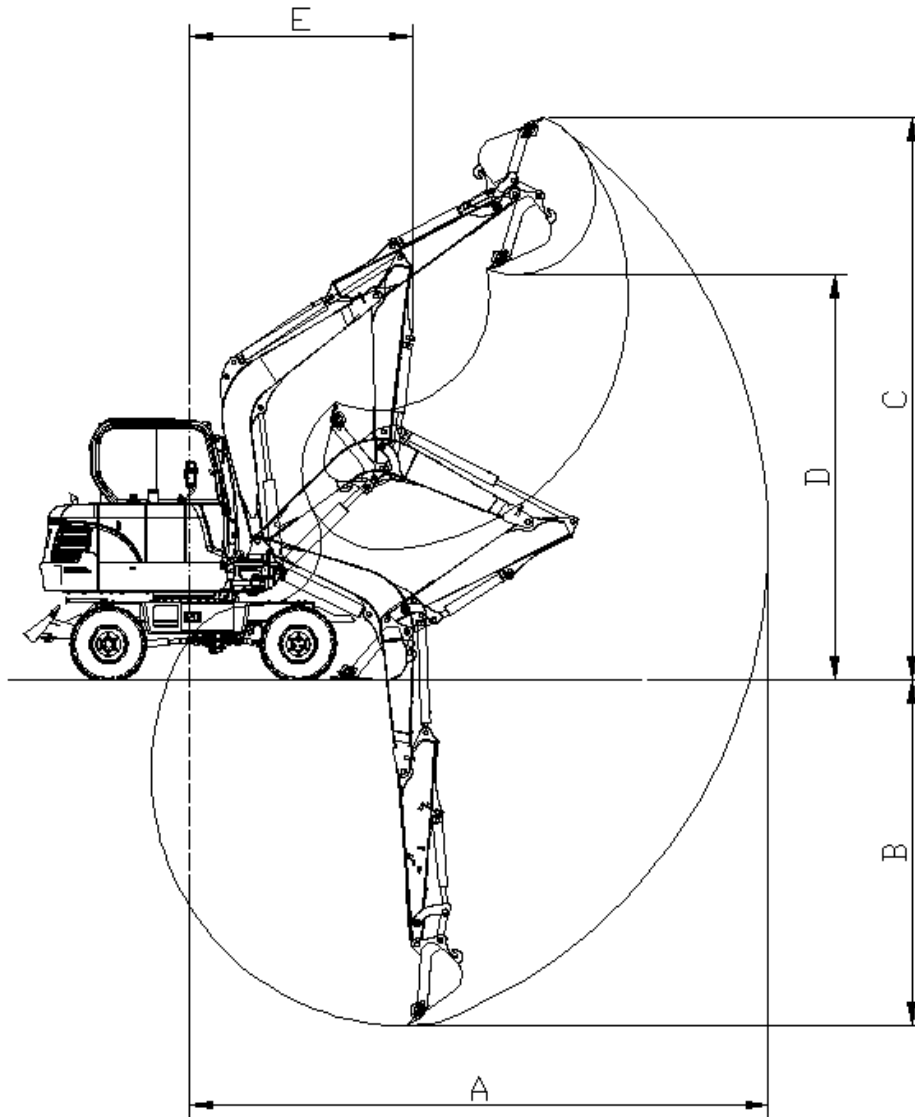
8.2) WORKING RANGE(1.6M ARM)



REFERANCE	DISCRIPTION	DIMENSION
		STANDARD (3.0m BOOM, 1.6m ARM)
A	<b>Max. Digging Radius</b>	<b>6,110 mm</b>
B	<b>Max. Digging Depth</b>	<b>3,495 mm</b>
C	<b>Max. Digging Height</b>	<b>5,980 mm</b>
D	<b>Max. Dump Height</b>	<b>4,265 mm</b>
E	<b>Min. Swing Radius</b>	<b>2,445 mm</b>

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8.3) WORKING RANGE(1.9M ARM)



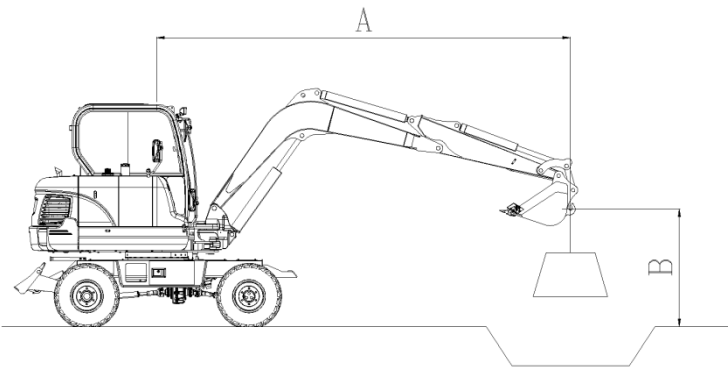
REFERANCE	DISCRIPTION	DIMENSION
		STANDARD (3.0m BOOM, 1.9m ARM)
A	<b>Max. Digging Radius</b>	<b>6,400 mm</b>
B	<b>Max. Digging Depth</b>	<b>3,795 mm</b>
C	<b>Max. Digging Height</b>	<b>6,170 mm</b>
D	<b>Max. Dump Height</b>	<b>4,455 mm</b>
E	<b>Min. Swing Radius</b>	<b>2,465 mm</b>

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## 9. LIFTING CAPACITIES

### 9.1) LIFTING CAPACITY (DOZER UP, FRONT, 1.6M ARM)



A : Load radius from centerline of rotation

B : Load point height

S : Rated lift capacity-over side (Free on Wheel/Dozer Up)

F : Rated lift capacity-over front (Free on Wheel/Dozer Up)

#### METRIC (STD)

B(m)	A(m)	2		3		4		5		Max. Reach		
		F	S	F	S	F	S	F	S	F	S	A(m)
4						<b>*0.98</b>	<b>*0.98</b>			<b>*0.87</b>	<b>0.82</b>	<b>4.54</b>
3						<b>*1.14</b>	<b>0.99</b>	<b>*0.96</b>	<b>0.68</b>	<b>*0.89</b>	<b>0.68</b>	<b>5.03</b>
2		<b>*2.33</b>	<b>*2.33</b>	<b>*1.90</b>	<b>1.47</b>	<b>*1.44</b>	<b>0.95</b>	<b>1.19</b>	<b>0.67</b>	<b>*0.96</b>	<b>0.62</b>	<b>5.25</b>
1		<b>*1.19</b>	<b>*1.19</b>	<b>*2.61</b>	<b>1.38</b>	<b>1.65</b>	<b>0.91</b>	<b>1.17</b>	<b>0.65</b>	<b>1.08</b>	<b>0.60</b>	<b>5.25</b>
0(GROUND)		<b>*2.14</b>	<b>*2.14</b>	<b>2.59</b>	<b>1.34</b>	<b>1.62</b>	<b>0.88</b>	<b>1.15</b>	<b>0.64</b>	<b>1.15</b>	<b>0.64</b>	<b>5.01</b>
-1		<b>*3.38</b>	<b>2.60</b>	<b>2.58</b>	<b>1.34</b>	<b>1.61</b>	<b>0.88</b>			<b>1.34</b>	<b>0.74</b>	<b>4.51</b>
-2		<b>*4.20</b>	<b>2.65</b>	<b>*2.52</b>	<b>1.36</b>					<b>1.93</b>	<b>1.05</b>	<b>3.60</b>

#### FEET (STD)

B(ft)	A(ft)	10		15		Max. Reach		
		F	S	F	S	F	S	A(ft)
15						<b>*1.96</b>	<b>*1.96</b>	<b>13.44</b>
10				<b>*2.50</b>	<b>1.76</b>	<b>*1.96</b>	<b>1.50</b>	<b>16.44</b>
5		<b>*4.90</b>	<b>3.07</b>	<b>2.98</b>	<b>1.67</b>	<b>2.24</b>	<b>1.33</b>	<b>17.31</b>
0(GROUND)		<b>5.55</b>	<b>2.90</b>	<b>2.91</b>	<b>1.60</b>	<b>2.53</b>	<b>1.40</b>	<b>16.45</b>
-5		<b>5.56</b>	<b>2.90</b>			<b>3.44</b>	<b>1.88</b>	<b>13.45</b>

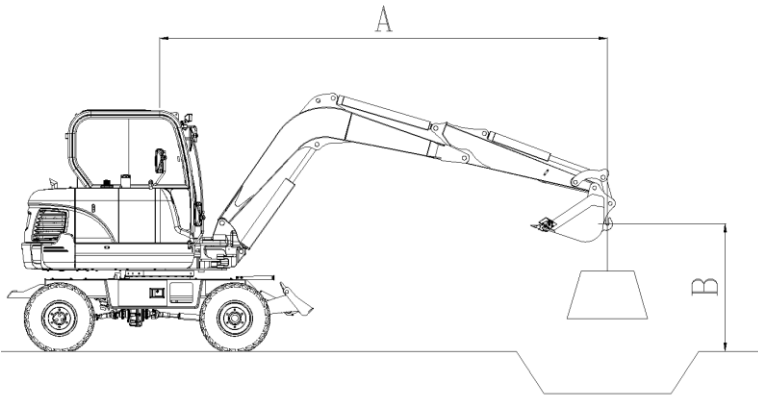
1. THE WEIGHT OF BUCKET IS 140 KG.
2. LOAD POINT IS THE HOOK ON THE BACK OF THE BUCKET.
3. \* RATED LOADS ARE BASED ON HYDRAULIC CAPACITY.
4. RATED LOADS DO NOT EXCEED 87% OF HYD. CAPACITY OR 75% OF TIPPING CAPACITY

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## 9.2) LIFTING CAPACITY (DOZER UP, REAR, 1.6M ARM)



- A : Load radius from centerline of rotation
- B : Load point height
- S : Rated lift capacity-over side (Free on Wheel/Dozer Up)
- F : Rated lift capacity-over front (Free on Wheel/Dozer Up)

### METRIC (STD)

B(m)	A(m)	2		3		4		5		Max. Reach		
		F	S	F	S	F	S	F	S	F	S	A(m)
4						<b>*0.98</b>	<b>*0.98</b>			<b>*0.87</b>	<b>0.82</b>	<b>4.54</b>
3						<b>*1.14</b>	<b>0.99</b>	<b>0.79</b>	<b>0.68</b>	<b>0.78</b>	<b>0.68</b>	<b>5.03</b>
2		<b>*2.33</b>	<b>*2.33</b>	<b>1.71</b>	<b>1.47</b>	<b>1.10</b>	<b>0.95</b>	<b>0.77</b>	<b>0.67</b>	<b>0.71</b>	<b>0.62</b>	<b>5.25</b>
1		<b>*1.19</b>	<b>*1.19</b>	<b>1.62</b>	<b>1.38</b>	<b>1.06</b>	<b>0.91</b>	<b>0.65</b>	<b>0.65</b>	<b>0.70</b>	<b>0.60</b>	<b>5.25</b>
0(GROUND)		<b>*2.14</b>	<b>*2.14</b>	<b>1.58</b>	<b>1.34</b>	<b>1.03</b>	<b>0.88</b>	<b>0.64</b>	<b>0.64</b>	<b>0.74</b>	<b>0.64</b>	<b>5.01</b>
-1		<b>3.17</b>	<b>2.60</b>	<b>1.58</b>	<b>1.34</b>	<b>1.02</b>	<b>0.88</b>			<b>0.86</b>	<b>0.74</b>	<b>4.51</b>
-2		<b>3.22</b>	<b>2.65</b>	<b>1.60</b>	<b>1.36</b>					<b>1.22</b>	<b>1.05</b>	<b>3.60</b>

### FEET (STD)

B(ft)	A(ft)	10		15		Max. Reach		
		F	S	F	S	F	S	A(ft)
15						<b>*1.96</b>	<b>*1.96</b>	<b>13.44</b>
10				<b>2.02</b>	<b>1.75</b>	<b>1.73</b>	<b>1.50</b>	<b>16.44</b>
5		<b>3.58</b>	<b>3.07</b>	<b>1.94</b>	<b>1.67</b>	<b>1.55</b>	<b>1.33</b>	<b>17.31</b>
0(GROUND)		<b>3.40</b>	<b>2.90</b>	<b>1.87</b>	<b>1.60</b>	<b>1.63</b>	<b>1.40</b>	<b>16.45</b>
-5		<b>3.41</b>	<b>2.90</b>			<b>2.19</b>	<b>1.88</b>	<b>13.45</b>

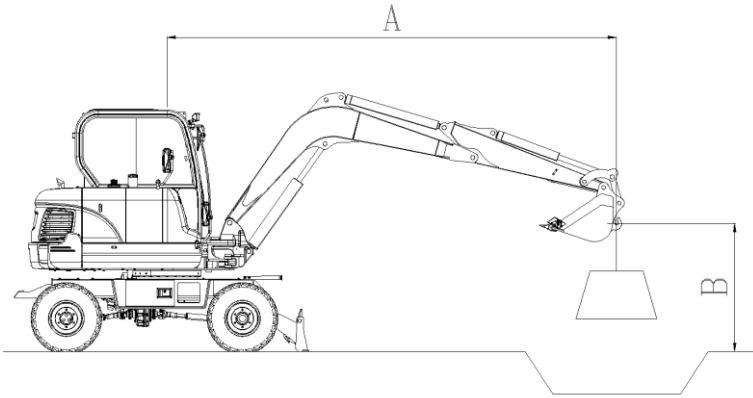
1. THE WEIGHT OF BUCKET IS 140 KG.
2. LOAD POINT IS THE HOOK ON THE BACK OF THE BUCKET.
3. \* RATED LOADS ARE BASED ON HYDRAULIC CAPACITY.
4. RATED LOADS DO NOT EXCEED 87% OF HYD. CAPACITY OR 75% OF TIPPING CAPACITY

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### 9.3) LIFTING CAPACITY (DOZER DOWN, REAR, 1.6M ARM)



A : Load radius from centerline of rotation  
 B : Load point height  
 S : Rated lift capacity-over side (Free on Wheel/Dozer Down)  
 F : Rated lift capacity-over front (Free on Wheel/Dozer Down)

#### METRIC (STD)

B(m)	A(m)	2		3		4		5		Max. Reach		
		F	S	F	S	F	S	F	S	F	S	A(m)
4						<b>*0.98</b>	<b>*0.98</b>			<b>*0.87</b>	<b>*0.87</b>	<b>4.54</b>
3						<b>*1.14</b>	<b>*1.14</b>	<b>*0.96</b>	<b>0.87</b>	<b>*0.89</b>	<b>0.87</b>	<b>5.03</b>
2		<b>*2.33</b>	<b>*2.33</b>	<b>*1.90</b>	<b>*1.90</b>	<b>*1.44</b>	<b>1.22</b>	<b>*1.27</b>	<b>0.86</b>	<b>*0.96</b>	<b>0.79</b>	<b>5.25</b>
1		<b>*1.19</b>	<b>*1.19</b>	<b>*2.61</b>	<b>1.82</b>	<b>*1.76</b>	<b>1.17</b>	<b>*1.42</b>	<b>0.84</b>	<b>*1.10</b>	<b>0.78</b>	<b>5.25</b>
0(GROUND)		<b>*2.14</b>	<b>*2.14</b>	<b>*2.95</b>	<b>1.77</b>	<b>*1.97</b>	<b>1.15</b>	<b>*1.42</b>	<b>0.83</b>	<b>*1.35</b>	<b>0.82</b>	<b>5.01</b>
-1		<b>*3.38</b>	<b>*3.38</b>	<b>*2.93</b>	<b>1.77</b>	<b>*1.99</b>	<b>1.14</b>			<b>*1.67</b>	<b>0.96</b>	<b>4.51</b>
-2		<b>*4.20</b>	<b>3.69</b>	<b>*2.52</b>	<b>1.80</b>					<b>*1.94</b>	<b>1.36</b>	<b>3.60</b>

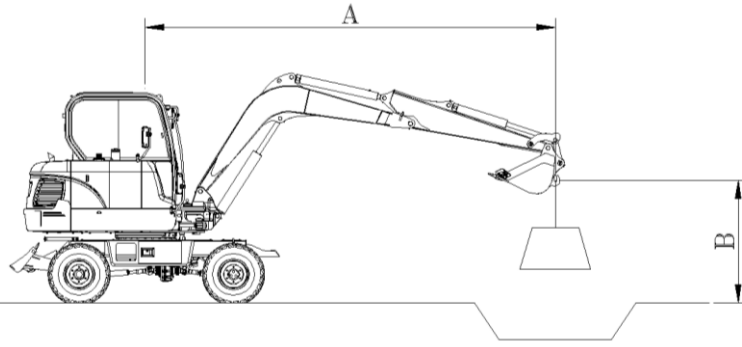
#### FEET (STD)

B(ft)	A(ft)	10		15		Max. Reach		
		F	S	F	S	F	S	A(ft)
15						<b>*1.96</b>	<b>*1.96</b>	<b>13.44</b>
10				<b>*2.50</b>	<b>2.24</b>	<b>*1.96</b>	<b>1.92</b>	<b>16.44</b>
5		<b>*4.90</b>	<b>4.00</b>	<b>*3.14</b>	<b>2.15</b>	<b>*2.24</b>	<b>1.72</b>	<b>17.31</b>
0(GROUND)		<b>*6.34</b>	<b>3.82</b>	<b>*3.69</b>	<b>2.08</b>	<b>*2.99</b>	<b>1.82</b>	<b>16.45</b>
-5		<b>*6.01</b>	<b>3.82</b>			<b>*3.96</b>	<b>2.45</b>	<b>13.45</b>

1. THE WEIGHT OF BUCKET IS 140 KG.
2. LOAD POINT IS THE HOOK ON THE BACK OF THE BUCKET.
3. \* RATED LOADS ARE BASED ON HYDRAULIC CAPACITY.
4. RATED LOADS DO NOT EXCEED 87% OF HYD. CAPACITY OR 75% OF TIPPING CAPACITY

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9.4) LIFTING CAPACITY (DOZER UP, FRONT, 1.9M ARM)



A : Load radius from centerline of rotation  
 B : Load point height  
 S : Rated lift capacity-over side (Free on Wheel/Dozer Up)  
 F : Rated lift capacity-over front (Free on Wheel/Dozer Up)

METRIC (OPT)

B(m)	A(m)	2		3		4		5		Max. Reach		
		F	S	F	S	F	S	F	S	F	S	A(m)
5										<b>*0.79</b>	<b>*0.79</b>	<b>4.10</b>
4										<b>*0.75</b>	<b>0.72</b>	<b>4.89</b>
3						<b>*0.98</b>	<b>*0.98</b>	<b>*1.04</b>	<b>0.68</b>	<b>*0.76</b>	<b>0.61</b>	<b>5.35</b>
2		<b>*2.92</b>	<b>2.87</b>	<b>*1.63</b>	<b>1.49</b>	<b>*1.30</b>	<b>0.95</b>	<b>*1.17</b>	<b>0.67</b>	<b>*0.80</b>	<b>0.56</b>	<b>5.55</b>
1		<b>*1.46</b>	<b>*1.46</b>	<b>*2.41</b>	<b>1.39</b>	<b>1.65</b>	<b>0.91</b>	<b>1.16</b>	<b>0.64</b>	<b>*0.90</b>	<b>0.54</b>	<b>5.55</b>
0(GROUND)		<b>*1.99</b>	<b>*1.99</b>	<b>2.58</b>	<b>1.34</b>	<b>1.61</b>	<b>0.88</b>	<b>1.14</b>	<b>0.63</b>	<b>1.04</b>	<b>0.57</b>	<b>5.33</b>
-1		<b>*2.97</b>	<b>2.57</b>	<b>2.57</b>	<b>1.32</b>	<b>1.60</b>	<b>0.86</b>			<b>1.19</b>	<b>0.65</b>	<b>4.87</b>
-2		<b>*4.43</b>	<b>2.61</b>	<b>2.58</b>	<b>1.34</b>	<b>1.61</b>	<b>0.88</b>			<b>1.58</b>	<b>0.86</b>	<b>4.05</b>
-3		<b>*2.92</b>	<b>2.70</b>							<b>*2.24</b>	<b>1.92</b>	<b>2.45</b>

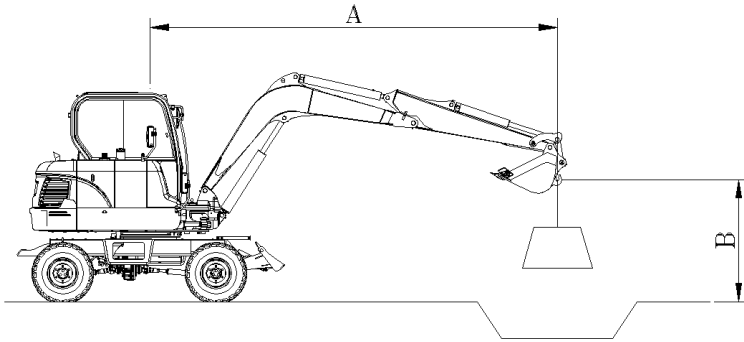
FEET (OPT)

B(ft)	A(ft)	10		15		Max. Reach		
		F	S	F	S	F	S	A(ft)
15						<b>*1.68</b>	<b>*1.68</b>	<b>14.74</b>
10				<b>*2.22</b>	<b>1.76</b>	<b>*1.66</b>	<b>1.35</b>	<b>17.49</b>
5		<b>*4.38</b>	<b>3.09</b>	<b>*2.92</b>	<b>1.67</b>	<b>*1.86</b>	<b>1.20</b>	<b>18.30</b>
0(GROUND)		<b>5.54</b>	<b>2.88</b>	<b>2.89</b>	<b>1.58</b>	<b>2.29</b>	<b>1.26</b>	<b>17.50</b>
-5		<b>5.51</b>	<b>2.86</b>			<b>2.95</b>	<b>1.62</b>	<b>14.76</b>
-10						<b>*5.07</b>	<b>4.66</b>	<b>7.59</b>

1. THE WEIGHT OF BUCKET IS 140 KG.
2. LOAD POINT IS THE HOOK ON THE BACK OF THE BUCKET.
3. \* RATED LOADS ARE BASED ON HYDRAULIC CAPACITY.
4. RATED LOADS DO NOT EXCEED 87% OF HYD. CAPACITY OR 75% OF TIPPING CAPACITY.

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9.5) LIFTING CAPACITY (DOZER UP, REAR, 1.9M ARM)



A : Load radius from centerline of rotation  
 B : Load point height  
 S : Rated lift capacity-over side (Free on Wheel/Dozer Up)  
 F : Rated lift capacity-over front (Free on Wheel/Dozer Up)

METRIC (OPT)

B(m)	A(m)	2		3		4		5		Max. Reach		
		F	S	F	S	F	S	F	S	F	S	A(m)
5										<b>*0.79</b>	<b>*0.79</b>	<b>4.10</b>
4										<b>*0.75</b>	<b>0.72</b>	<b>4.89</b>
3						<b>*0.98</b>	<b>*0.98</b>	<b>0.79</b>	<b>0.68</b>	<b>0.70</b>	<b>0.61</b>	<b>5.35</b>
2		<b>*2.92</b>	<b>2.87</b>	<b>*1.63</b>	<b>1.49</b>	<b>1.10</b>	<b>0.95</b>	<b>0.77</b>	<b>0.67</b>	<b>0.65</b>	<b>0.56</b>	<b>5.55</b>
1		<b>*1.46</b>	<b>*1.46</b>	<b>1.63</b>	<b>1.39</b>	<b>1.05</b>	<b>0.91</b>	<b>0.75</b>	<b>0.64</b>	<b>0.63</b>	<b>0.54</b>	<b>5.55</b>
0(GROUND)		<b>*1.99</b>	<b>*1.99</b>	<b>1.58</b>	<b>1.34</b>	<b>1.02</b>	<b>0.88</b>	<b>0.73</b>	<b>0.63</b>	<b>0.67</b>	<b>0.57</b>	<b>5.33</b>
-1		<b>*2.97</b>	<b>2.57</b>	<b>1.56</b>	<b>1.32</b>	<b>1.01</b>	<b>0.86</b>			<b>0.76</b>	<b>0.65</b>	<b>4.87</b>
-2		<b>3.17</b>	<b>2.61</b>	<b>1.58</b>	<b>1.34</b>	<b>1.02</b>	<b>0.88</b>			<b>1.00</b>	<b>0.86</b>	<b>4.05</b>
-3		<b>*2.92</b>	<b>2.70</b>							<b>*2.24</b>	<b>1.92</b>	<b>2.45</b>

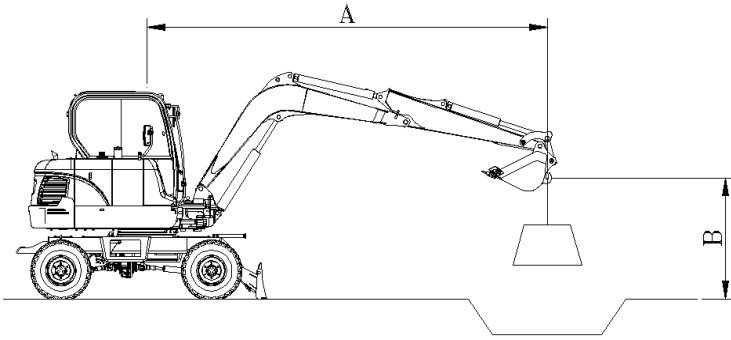
FEET (OPT)

B(ft)	A(ft)	10		15		Max. Reach		
		F	S	F	S	F	S	A(ft)
15						<b>*1.68</b>	<b>*1.68</b>	<b>14.74</b>
10				<b>2.03</b>	<b>1.76</b>	<b>1.56</b>	<b>1.35</b>	<b>17.49</b>
5		<b>3.61</b>	<b>3.09</b>	<b>1.93</b>	<b>1.67</b>	<b>1.40</b>	<b>1.20</b>	<b>18.30</b>
0(GROUND)		<b>3.39</b>	<b>2.88</b>	<b>1.85</b>	<b>1.58</b>	<b>1.47</b>	<b>1.26</b>	<b>17.50</b>
-5		<b>3.37</b>	<b>2.86</b>			<b>1.89</b>	<b>1.62</b>	<b>14.76</b>
-10						<b>*5.07</b>	<b>4.66</b>	<b>7.59</b>

1. THE WEIGHT OF BUCKET IS 140 KG.
2. LOAD POINT IS THE HOOK ON THE BACK OF THE BUCKET.
3. \* RATED LOADS ARE BASED ON HYDRAULIC CAPACITY.
4. RATED LOADS DO NOT EXCEED 87% OF HYD. CAPACITY OR 75% OF TIPPING CAPCACITY.

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### 9.6) LIFTING CAPACITY (DOZER DOWN, REAR, 1.9M ARM)



A : Load radius from centerline of rotation  
 B : Load point height  
 S : Rated lift capacity-over side (Free on Wheel/Dozer Down)  
 F : Rated lift capacity-over front (Free on Wheel/Dozer Down))

#### METRIC (OPT)

B(m)	A(m)	2		3		4		5		Max. Reach		
		F	S	F	S	F	S	F	S	F	S	A(m)
5										*0.79	*0.79	4.10
4										*0.75	*0.75	4.89
3						*0.98	*0.98	*1.04	0.88	*0.76	*0.76	5.35
2		*2.92	*2.92	*1.63	*1.63	*1.30	1.22	*1.17	0.86	*0.80	0.72	5.55
1		*1.46	*1.46	*2.41	1.83	*1.65	1.17	*1.34	0.83	*0.90	0.71	5.55
0(GROUND)		*1.99	*1.99	*2.86	1.77	*1.91	1.14	*1.47	0.82	*1.07	0.74	5.33
-1		*2.97	*2.97	*2.95	1.75	*2.00	1.13			*1.43	0.85	4.87
-2		*4.43	3.64	*2.69	1.77	*1.78	1.14			*1.74	1.12	4.05
-3		*2.92	*2.92							*2.24	*2.24	2.45

#### FEET (OPT)

B(ft)	A(ft)	10		15		Max. Reach		
		F	S	F	S	F	S	A(ft)
15						*1.68	*1.68	14.74
10				*2.22	*2.22	*1.66	*1.66	17.49
5		*4.38	4.03	*2.92	2.14	*1.86	1.56	18.30
0(GROUND)		*6.16	3.80	*3.58	2.06	*2.37	1.64	17.50
-5		*6.19	3.78			*3.57	2.10	14.76
-10						*5.07	*5.07	7.59

1. THE WEIGHT OF BUCKET IS 140 KG.
2. LOAD POINT IS THE HOOK ON THE BACK OF THE BUCKET.
3. \* RATED LOADS ARE BASED ON HYDRAULIC CAPACITY.
4. RATED LOADS DO NOT EXCEED 87% OF HYD. CAPACITY OR 75% OF TIPPING CAPCACITY.

## 10. PERFORMANCE DATA

### 10.1) MAIN RELIEF PRESSURE

FRONT/SWING, DOZER : 230 / 210 kg/cm<sup>2</sup>  
 TRAVEL : 230 kg/c

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## 11. NOISE LEVEL

L<sub>WA</sub> SURFACE SOUND POWER LEVEL : **98dB(A)**  
L<sub>pA</sub> OPERATOR NOISE : **79dB(A)**

## 12. SUB GROUP WEIGHT

ITEM	UNIT	FIGURE	REMARKS
SUPER STRUCTURE	<b>kg</b>	<b>2,588</b>	
UNDER CARRIAGE	<b>kg</b>	<b>1,956</b>	<b>INCL. SWING BEARING</b>
FRONT ASSEMBLY	<b>kg</b>	<b>773</b>	
COUNTER WEIGHT	<b>kg</b>	<b>233</b>	
- BOOM	<b>kg</b>	<b>258</b>	<b>3,000 mm</b>
- ARM(STD)	<b>kg</b>	<b>120</b>	<b>1,600 mm</b>
- ARM(OPT)	<b>kg</b>	<b>140</b>	<b>1,900 mm</b>
- BUCKET	<b>kg</b>	<b>140</b>	<b>0.175 m<sup>3</sup> (SAE)</b>
- BOOM CYL.	<b>kg</b>	<b>68</b>	
- ARM CYL.	<b>kg</b>	<b>59</b>	
- BUCKET CYL.	<b>kg</b>	<b>41</b>	
- DOZER	<b>kg</b>	<b>196</b>	
- DOZER CYL.	<b>kg</b>	<b>35</b>	

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### 13. USER SERVICE DATA

COMPARTMENT/ GREASE JOINT	TYPE OF FLUID OR LUBRICANT	No. OF C/G	SERVICE INTERVAL (hr)						
			10	50	150	250	500	1000	2000
FRONT JOINT PIN	GREASE	12	F100			W10			
SWING BEARING	GREASE	3							
SWING GEAR	GREASE	1							
FRONT AXLE STEERING KNUCKLE	GREASE	4							
DOZER BLADE PIN	GREASE	12	F100	W10					
FRONT AXLE PIVOT PIN	GREASE	2	F100	W10					
PROPELLER SHAFT	GREASE	8	F100				W10		
BOOM SWING CYLINDER PIN	GREASE	2	F100			W10			
BOOM SWING BRACKET PIN	GREASE	2	F100	W10					
ENGINE OIL PAN	ENGINE OIL	11.6 ℓ	V	F					
ENGINE OIL FILTER	CORTRIDGE	1		F					
TRANSMISSION	ENGINE OIL	1.5 ℓ			F				
FRONT AXLE CASE	GEAR OIL	4.6 ℓ			F				
REAR AXLE CASE	GEAR OIL	4.3 ℓ			F				
FRONT AXLE HUB CASE	GEAR OIL	2x0.15 ℓ			F				
REAR AXLE HUB CASE	GEAR OIL	2x0.15 ℓ			F				
OIL TANK	GEAR OIL	72 ℓ	V						
HYD. OIL SUCTION FILTER	STRAINER	1							C
FULL-FLOW FILTER	ELEMENT	1				F			
PILOT FILTER	ELEMENT	1				F			
FUEL TANK	DIESEL	120 ℓ	V						
FUEL SUCTION FILTER	STRAINER	1							C
FUEL FILTER	CORTRIDGE	1		F					
AIR CLEANER (OUTER)	ELEMENT	1		C					
AIR CLEANER (INNER)	ELEMENT	1		C					
AIR CONDITIONER FILTER	ELEMENT	1		C					
HYDAULIC OIL TANK BREATHER	ELEMENT	1							
RADIATOR	COOLANT	10 ℓ	V						PG
RADIATOR CORE	CORE	1					C		
OIL COOLER CORE	CORE	1					C		

V: Maintenance & Refill

F: First Time Exchange Only

W10: Every 10 Hours If Operating In Water

EG: Ethylene Glycol

C: Cleaning

F100: Every 10 Hours For First 100 Hours

Gray Box: Replacement On Every Interval

PG: Propylene Glycol

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