

| CHANGES | DETAILS | DATE | WRITTEN | APPROVED |
|-----------|---|-------------|----------|----------|
| Rev_01 | CHANGE USER SERVICE DATA | NOV.26.2014 | S.W.YUN | S.W.YUN |
| Rev_02 | CHANGE NOISE LEVEL, SUB GROUP WEIGHT | NOV.26.2014 | S.J.BAEK | S.J.BAEK |
| Rev_03 | CHANGE GENERAL SPECIFICATION | DEC.04.2014 | S.J.BAEK | S.J.BAEK |
| Rev_04 | CHANGE TRAVEL SYSTEM | DEC.18.2014 | S.J.BAEK | S.J.BAEK |
| Rev_05 | CHANGE GENERAL SPECIFICATION, ENGINE SYSTEM | JAN.16.2015 | S.J.BAEK | S.J.BAEK |
| Rev_06,07 | ADD DOMESTIC OPTION SPECIFICATION | AUG.20.2015 | S.J.BAEK | S.J.BAEK |
| Rev_08 | CHANGE USER SERVICE DATA | OCT.24.2016 | D.H.KIM | D.H.KIM |
| Rev_09 | ADD HIGH TRACK OPTION SPECIFICATION | MAR.31.2017 | D.H.KIM | D.H.KIM |
| Rev_10 | MODIFY UNDERCARRIAGE DATA | APR.06.2017 | D.H.KIM | D.H.KIM |

For Sales Dept. Use Only

DX140LC-5 (DX160LC-5)

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| | | | |
|-------|-----------|---------|------|
| MODEL | DX140LC-5 | DWG No. | 1/39 |
|-------|-----------|---------|------|

1. GENERAL SPECIFICATION

| ITEMS | | UNIT | STD. | OPT. 1 | OPT. 2 | OPT. 3 | OPT. 4 | OPT. 5 |
|--|-------------------------|--------------------|--|---------|---------|---------|---------|---------|
| OPERATING WEIGHT | | ton | 14.4 | 14.3 | 14.4 | 14.7 | 14.6 | 16.8 |
| BUCKET CAPACITY (SAE) | | m ³ | 0.45 | 0.59 | 0.51 | 0.59 | 0.59 | 0.45 |
| ENGINE | RATED POWER | HP/rpm | 115/2000 | | | | | |
| | MAX. TORQUE | kg.m/rpm | 51/1400 | | | | | |
| SYSTEM PRESSURE (WORK/TRAVEL) | | kg/cm ² | 330(350)/350 | | | | | |
| SWING SPEED | | rpm | 10.7 | | | | | |
| TRAVEL SPEED (High/Low) | | km/h | STD : 4.65/2.85 High Track Option : 3.68/2.24 | | | | | |
| GRADEABILITY | | %(deg) | 70 (35°) | | | | | |
| SHOE WIDTH | | mm | 600 | ← | ← | ← | ← | 800 |
| GROUND PRESSURE | | kg/cm ² | 0.37 | 0.37 | 0.37 | 0.38 | 0.37 | 0.31 |
| DIGGING FORCE(ISO) | BUCKET (Nor./Press. Up) | ton | 10.5/11 | 10.5/11 | 10.5/11 | 9.1/9.6 | 10/10.7 | 10.5/11 |
| | ARM (Nor./Press. Up) | ton | 5.6/6.0 | 7.2/7.7 | 6.2/6.5 | 6.5/6.9 | 6.1/6.5 | 5.6/6.0 |
| WORKING RANGE | MAX. DIGGING REACH | mm | 8665 | 7815 | 8285 | 7220 | 8290 | 8665 |
| | MAX. DIGGING DEPTH | mm | 6135 | 5235 | 5635 | 4590 | 5640 | 5850 |
| | MAX. DIGGING HEIGHT | mm | 8745 | 8150 | 8660 | 8010 | 8740 | 9025 |
| | REAR SWING RADIUS | mm | 2205 | ← | ← | ← | ← | |
| | MIN. SWING RADIUS | mm | 2625 | 2285 | 2600 | 2555 | 2600 | 2625 |
| TRANSPOR - TATION DIMENSION | OVERALL LENGTH | mm | 7640 | 7690 | | 7032 | 7685 | 7720 |
| | OVERALL WIDTH (STD.) | mm | 2590 | ← | ← | ← | ← | 3000 |
| | OVERALL HEIGHT | mm | 3180 | 2640 | 2820 | 2960 | 2820 | 3285 |
| | GROUND CLEARANCE | mm | 410 | ← | ← | ← | ← | 615 |
| | TRACK LENGTH | mm | 3755 | ← | ← | ← | ← | 3925 |
| | TRACK GAUGE (STD.) | mm | 1990 | ← | ← | ← | ← | 2200 |
| OPTION ATTACHMENT (G) : GROUSER | | | BOOM : STD. 4,600 mm , KOR. 4,000mm ARM : STD. 3,000 mm , SHORT 2,100mm, SHORT 2,500mm, KOR 1,900mm BUCKET (SAE) : STD. 0.45 m ³ OPT. : 0.24 m ³ , 0.39 m ³ , 0.51 m ³ , 0.59 m ³ , 0.64 m ³ , 0.76 m ³ OPT. : (HD) 0.42 m ³ , 0.49 m ³ , 0.54 m ³ OPT. : (H Class) 0.20 m ³ , 0.29 m ³ , 0.38 m ³ , 0.47 m ³ , 0.53 m ³ , 0.60 m ³ , 0.66 m ³ SHOE : STD. : 600 mm(G) OPT. : 500 mm(G) , 700 mm(G), Rubber Shoe 500mm 800 mm (High Track), 900 mm (High Track) DOZER BLADE OPT. : 2,490 mm (500mm shoe) 2,590 mm (600mm shoe) 2,690 mm (700mm shoe) | | | | | |
| | | | STANDARD : STD. BOOM(4,600mm), STD. ARM(3,000mm), STD. BUCKET(0.45 m ³) OPTION 1 : STD. BOOM(4,600mm), SHORT ARM(2,100mm), OPT. BUCKET(0.59 m ³) OPTION 2 : STD. BOOM(4,600mm), SHORT ARM(2,500mm), OPT. BUCKET(0.51 m ³) OPTION 3 : KOR. BOOM(4,000mm), KOR. ARM(1,900mm), OPT. BUCKET(0.59 m ³) OPTION 4 : KOR. BOOM(4,600mm), KOR. ARM(2,500mm), OPT. BUCKET(0.59 m ³) OPTION 5 : STD. BOOM(4,600mm), STD. ARM(3,000mm), STD. BUCKET(0.45 m ³), HIGH TRACK OPTION | | | | | |

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2. SPECIFICATION COMPARISON

| ITEMS | UNIT | CAT | KOMATSU | HITACHI | VOLVO | |
|-------------------------------|-------------------------|----------------|----------------|----------------|----------------|----------|
| | | 312E | PC130-8 | ZX130LC-3 | EC140D | |
| OPERATING WEIGHT | ton | 13.8 | 13.0 | 12.7 | 13.9 | |
| ENGINE | RATED POWER | HP/rpm | - | - | - | |
| | MAX. TORQUE | kg.m/rp | - | 38/1600 | 54.6/1500 | |
| SYSTEM PRESSURE (WORK/TRAVEL) | kg/cm ² | 310/357 | 359/359 | 350/350 | 330/350 | |
| SWING SPEED | rpm | 11.5 | 11.0 | 13.7 | 12.5 | |
| TRAVEL SPEED (High/Low) | km/h | 5.5/- | 5.5/2.9 | 5.5/3.4 | 5.5/3.1 | |
| GRADEABILITY | %(deg) | (35°) | (35°) | (35°) | (35°) | |
| SHOE WIDTH | mm | 600 | 600 | 600 | 600 | |
| GROUND PRESSURE | kg/cm ² | 0.34 | 0.34 | 0.33 | 0.34 | |
| DIGGING FORCE | BUCKET (Nor./Press. Up) | ton | - | 8.8/9.5 | 10.1 | 9.5/10.0 |
| | ARM (Nor./Press. Up) | ton | - | 5.7/6.2 | 5.9 | 5.8/6.1 |
| WORKING RANGE | MAX. DIGGING REACH | mm | 8620 | 8720 | 8740 | 8820 |
| | MAX. DIGGING DEPTH | mm | 6040 | 5955 | 5570 | 6030 |
| | MAX. DIGGING HEIGHT | mm | 8710 | 8930 | 8570 | 8770 |
| | REAR SWING RADIUS | mm | 2160 | 2190 | 2130 | 2200 |
| | MIN. SWING RADIUS | mm | - | 2610 | 2390 | 2600 |
| TRANSPORTATION DIMENSION | OVERALL LENGTH | mm | 7670 | 7485 | 7660 | 7510 |
| | OVERALL WIDTH(track) | mm | 2590 | 2590 | 2590 | 2590 |
| | OVERALL HEIGHT(boom) | mm | 2830 | 3185 | 2740 | 3210 |
| | OVERALL HEIGHT(cabin) | mm | 2770 | 2855 | 2740 | 2800 |
| | GROUND CLEARANCE | mm | 440 | 400 | 440 | 436 |
| | TRACK LENGTH | mm | - | 3610 | - | - |
| | TRACK GAUGE(STD.) | mm | - | 1990 | 1990 | - |
| OPTION ATTACHMENT | mm | BOOM 4650mm | BOOM 4600mm | BOOM 4600mm | BOOM 4600mm | |
| (G) : GROUSER | | ARM 3000mm | ARM 3000mm | ARM 3010mm | ARM 3000mm | |
| (P) : PLATE | | 2100mm(O) | 2100mm(O) | 2100mm(O) | 2100mm(O) | |
| (T) : TRIANGLE | | 2500mm(O) | 2500mm(O) | 2520mm(O) | 2500mm(O) | |
| (O) : OPTION | | | | | | |

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3. ENGINE SYSTEM

1) ENGINE

| | | |
|--------------------|---|--|
| MAKER & MODEL | : | PERKINS 1204F |
| RATED HORSE POWER | : | |
| | | <i>GROSS POWER : 85.9kW(117PS, 115HP) @2000rpm (SAE J1995)</i> |
| | | <i>NET POWER : 81.6kW(111PS, 109HP) @2000rpm (SAE J1349)</i> |
| MAX. TORQUE | : | 51 kgf.m @ 1,400 rpm |
| FUEL CONSUMPTION | : | 163.3 g/ps.hr @ RATED SPEED |
| TYPE | : | 4-CYCLE WATER-COOLED, TURBOCHARGE, COMMON RAIL DIRECT INJECTION EXHAUST GAS RECIRCULATION |
| DISPLACEMENT | : | 4400 cc |
| No. OF CYLINDER | : | 4 |
| BORE DIA. & STROKE | : | $\phi 105 \times 127$ mm |
| COMPRESSION RATIO | : | 16.5 |
| HIGH IDLE SPEED | : | 2060 \pm 25 rpm |
| LOW IDLE SPEED | : | 950 \pm 10 rpm |
| STARTING MOTOR | : | 24 V x 4.5 kW |
| DRY WEIGHT | : | 500 kg |

2) ALTERNATOR

| | | |
|----------------|---|------|
| VOLTAGE | : | 24 V |
| RATING AMPERES | : | 85 A |

3) BATTERY

| | | |
|----------------|---|----------|
| SYSTEM VOLTAGE | : | 24 V |
| QUANTITY | : | 12 V x 2 |
| CAPACITY (AMP) | : | 100 AH |

4) PUMP DRIVE

| | | |
|--------------------------|---|-------------------------|
| DRIVE TYPE | : | FLEXIBLE COUPLING JOINT |
| PERMISSIBLE TORQUE & RPM | : | 160 kgf.m, 4000 rpm |

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5) AIR CLEANER

TYPE : *DOUBLE ELEMENT*
FILTRATION AREA : *73.7 m² (OUTER), 1.0 m² (INNER)*
SIZE (DIA.x LENGTH) : *203.2 mm x 441.5 mm*

6) DOC-SCR

TYPE : *DOC, SCR, AOC*
TYPE OF catalytic action : *DOC(Diesel Oxidation Catalyst)*
SCR(Selective Catalytic Reduction)
WEIGHT : *44 kg*

7) FAN

TYPE : *.SUCKER, 9-BLADE, PLASTIC, AXIAL FAN*
SIZE : *Φ650 mm*
RPM AT RATED ENGINE RPM : *2000rpm(70% 1400±50rpm)*

8) RADIATOR

CORE TYPE : *CF68-4*
MATERIAL OF CORE : *ALUMINIUM*
CORE SIZE(HxWxD) : *810x428.4x100(mm)*
WATER CAPACITY : *APPROX. 10.4 L*

9) OIL COOLER

CORE TYPE : *CF40-1X3*
MATERIAL OF CORE : *ALUMINIUM*
CORE SIZE(HxWxD) : *815x371x31(mm)*
OIL CAPACITY : *APPROX. 5 L*

10) CHARGE AIR COOLER

CORE TYPE : *F&T, 3.5/2P*
MATERIAL OF CORE : *ALUMINIUM*
CORE SIZE(HxWxD) : *486x320x65(mm)*

11) FUEL COOLER

CORE TYPE : *Drawn-Cup. 4.0/2P*
MATERIAL OF CORE : *ALUMINIUM*
CORE SIZE(HxWxD) : *136.3(10PLATES)x410x32(mm)*

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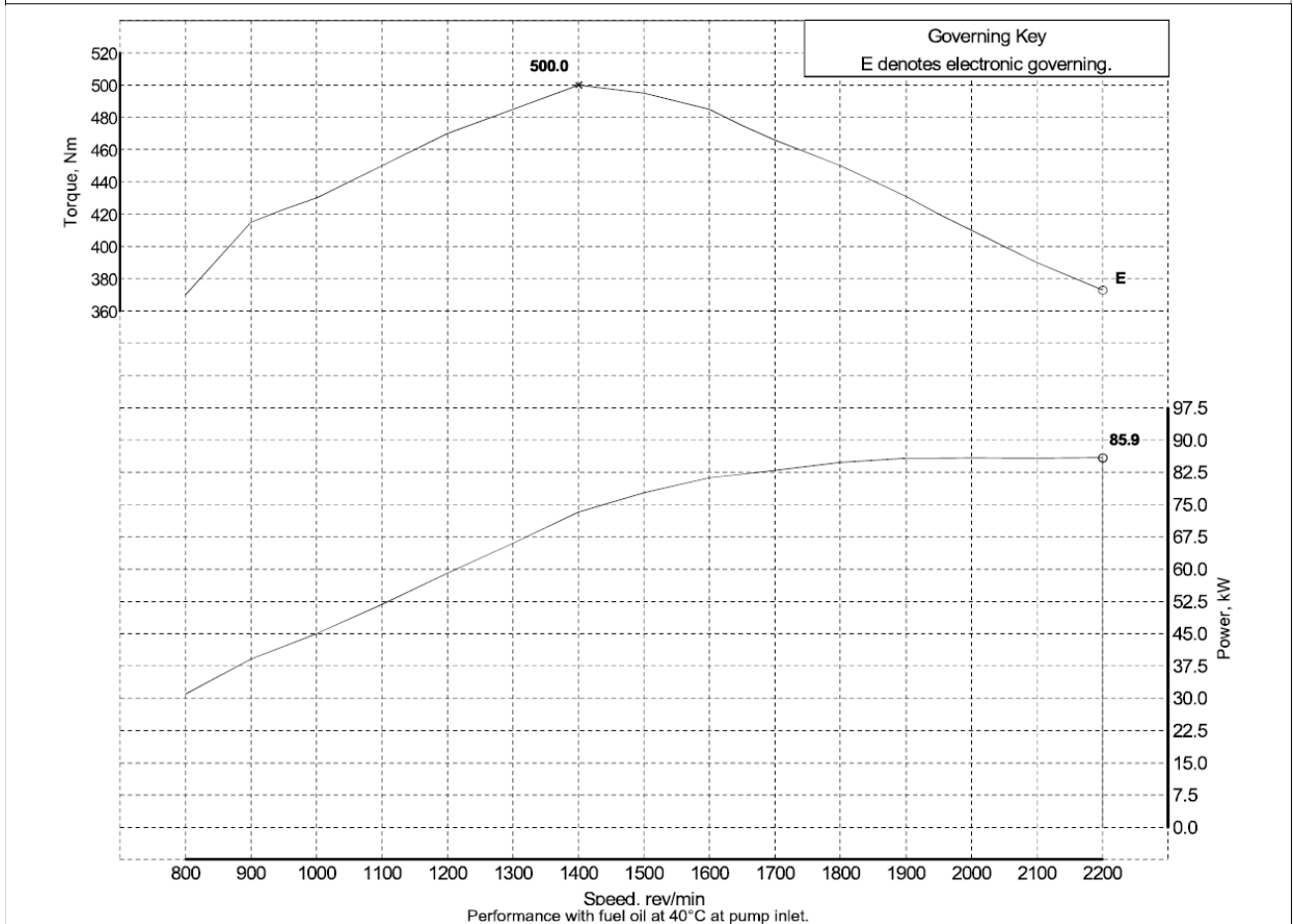
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- ENGINE PERFORMANCE CURVE

| | | | | |
|---------------------------------------|-----------------|---|------------------------|--------------------------|
| Rating Standards: | ISO 14396: 2002 | Fuel Types: | USA FED Off Highway | Europe Off Highway |
| Production Tolerance On Power Output: | +3%, -3% | Fuel Specification: | EPA Part 1065.703 ULSD | EU 2004/26/EC Stage 3B/4 |
| Total Barometric Pressure (kPa): | 100 | Density (kg/l @ 15°C): | 0.840 - 0.865 | 0.833 - 0.837 |
| Vapour Pressure (kPa): | 1 | Viscosity (mm²/s @ 40°C): | 2.0 - 3.2 | 2.3 - 3.3 |
| Air Inlet Temperature (°C): | 25 | Sulphur Content (% mass): | 0.0007 - 0.0015 | 0.001 max |
| | | Cetane No: | 40 - 50 | 54 max |



| | | | |
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4. HYDRAULIC SYSTEM

1) MAIN PUMP

| | | |
|----------------|---|---------------------------|
| TYPE | : | SWASH PLATE, AXIAL PISTON |
| QUANTITY | : | 2 |
| DISPLACEMENT | : | 2 x 57.0 cc/rev |
| MAX. FLOW RATE | : | 2-114 Liter/min |
| WEIGHT | : | 91 kg |

2) PILOT PUMP

| | | |
|-----------------------|---|------------------------|
| TYPE | : | GEAR |
| DISPLACEMENT | : | 15 cc/rev |
| MAX. FLOW RATE | : | 30.0 Liter/min |
| RELIEF VALVE PRESSURE | : | 40 kgf/cm ² |

3) CONTROL VALVE

| | | |
|----------------------------|---|--|
| TYPE | : | PILOT CONTROL |
| SPOOL DIA. | : | Φ22 mm |
| SPOOL ARRANGEMENT: | : | TR,OPT,SWING,BOOM2,ARM1 TL,BUCKET,BOOM1,ARM2 |
| RELIEF VALVE PRESSURE | : | 330/350 kgf/cm ² |
| PORT RELIEF VALVE PRESSURE | : | 365 kgf/cm ² |
| ACCESSARY VALVES | : | FOOT RELIEF VALVE, BOOM HOLDING VALVE, ARM HOLDING VALVE |
| WEIGHT | : | 132.5 kg |

4) REMOTE CONTROL VALVE; TRAVEL

| | | |
|--------------------------------|---|--|
| TYPE | : | PILOT (with DAMPER) |
| PRESSURE/STROKE CHARACTERISTIC | : | 7.5kgf/cm ² (@1mm STROKE)~ 25kgf/cm ² (@4.3mm STROKE) |
| WEIGHT | : | 7.8 kg |

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5) REMOTE CONTROL VALVE; IMPLEMENT

TYPE : PILOT (1-STAGE JOYSTICK)
PRESSURE/STROKE CHARACTERISTIC : 6.5 kgf/cm² (@ 1.0mm STROKE) ~
28 kgf/cm² (@ 6.5mm(1,3), 7.5mm(2,4) STROKE)
WEIGHT : 2.4 kg

6) REMOTE CONTROL VALVE; Opt.

TYPE : PILOT
PRESSURE/STROKE CHARACTERISTIC : 7.5 kgf/cm² (@1mm STROKE) ~
25.2 kgf/cm² (@ 4.8mm STROKE)
WEIGHT : 3.0 kg

7) SOLENOID VALVE

RATED CAPACITY : DC 24V, 22W @25°C
FUNCTION : TRAVEL 2-SPEED, PRESSURE UP,
2PUMP, SAFETY CUT OFF
HAMMER OPERATING

8) ACCUMULATOR

NITROGEN CHARGE PRESSURE : 10 kgf/cm²
VOLUME : 0.32 Liter

9) BY-PASS VALVE

9-1) BY-PASS VALVE (1)

CRACKING PRESSURE : 1.0kgf/cm² @10L/min

9-2) BY-PASS VALVE (2)

CRACKING PRESSURE : 3.0kgf/cm² @10L/min

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10) FILTERS

10-1) RETURN FILTER

SIZE : 10 μ , 1.6 m² (Φ 110 x 415 mm)
BY-PASS VALVE SETTING : 1.5 kgf/cm² @ 40 Liter/min

10-2) PILOT FILTER

SIZE : 10 μ , 340 cm²
BY-PASS VALVE SETTING : 1.7 kgf/cm² @ 5 Liter/min

10-3) SUCTION FILTER

SIZE : 177 μ (80 mesh), 0.296 m² (Φ 150 x 139 mm)

11) AIR BREATHER

CRACKING PRESSURE : 0.46 \pm 0.04 kgf/cm²
FILTER : 10 μ , 590 cm²

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- PUMP PERFORMANCE CURVE

Power(+) Mode

[1] 101ps/2000rpm (a) 150mA (Pf= 0.0k)

Power Mode

[2] 91.5ps/1900rpm (b) 200mA (Pf= 2.0k)

Standard Mode

[3] 84.9ps/1850rpm (c) 230mA (Pf= 4.0k)

Economy Mode

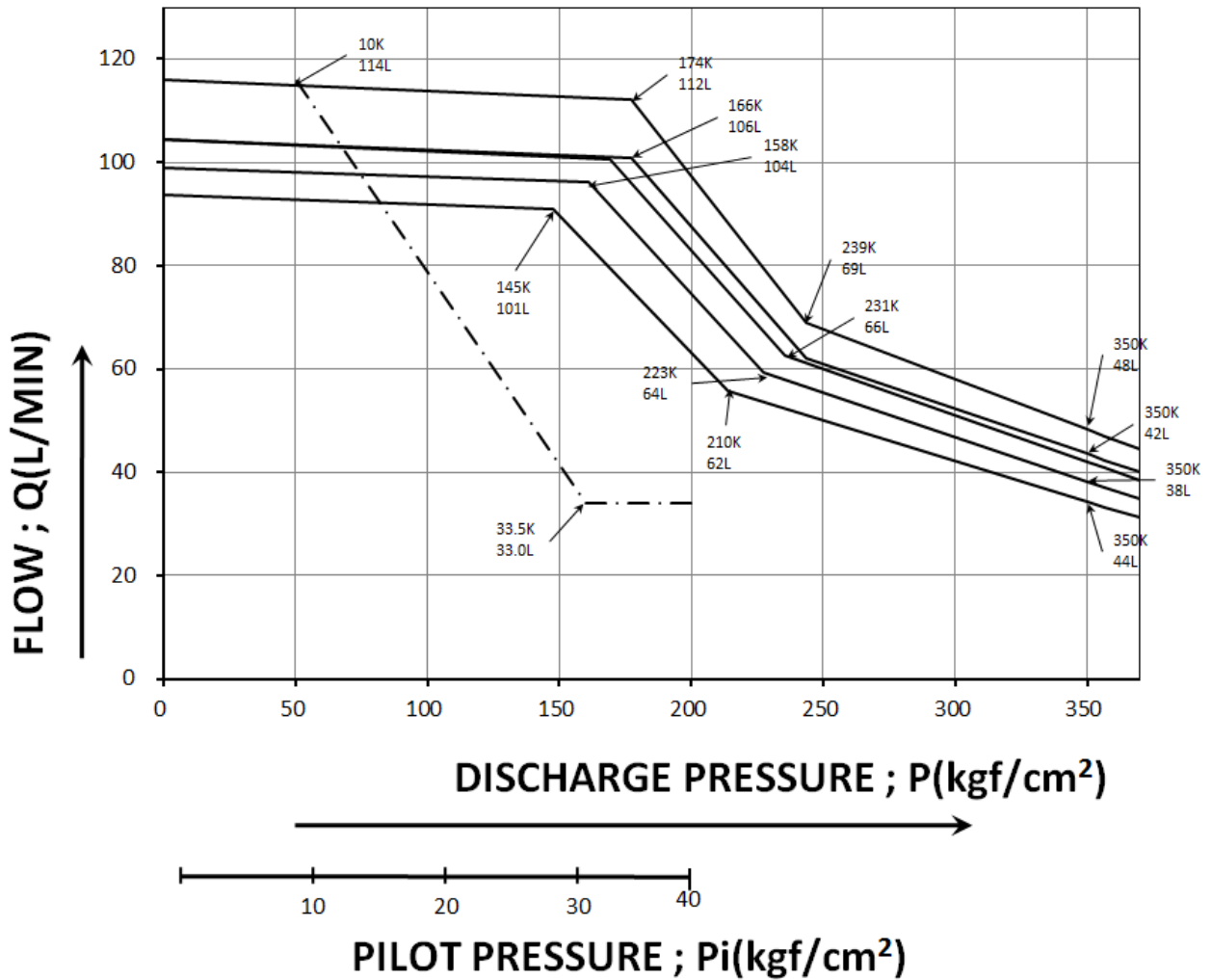
[4] 76.1ps/1800rpm (d) 280mA (Pf=6.2k)

Lifting Mode

[5] 85.3ps/1700rpm (e) 150mA (Pf= 0.0k)

Emergency Mode

[6] 56.5ps/2000rpm (f) 600mA (Pf=29.0k)



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5. SWING MECHANISM

1) SWING MOTOR

| | | |
|--------------------------------|---|-------------------------------|
| TYPE | : | <i>AXIAL PISTON</i> |
| DISPLACEMENT | : | <i>72 cc/rev</i> |
| CROSSOVER RELIEF VALVE SETTING | : | <i>275 kgf/cm²</i> |
| MAX. SUPPLY FLOW (@ 1,900 RPM) | : | <i>127.5 Liter/min</i> |
| MOTOR SHAFT SPEED | : | <i>1,771 rpm</i> |
| MOTOR SHAFT TORQUE | : | <i>31.5 kgf.m</i> |
| WEIGHT | : | <i>39 kg</i> |

2) SWING REDUCTION GEAR

| | | |
|-------------------------|---|-------------------------------|
| DRIVE TYPE | : | <i>2-STAGE PLANETARY GEAR</i> |
| REDUCTION RATIO | : | <i>19.041</i> |
| MAX. OUTPUT SPEED | : | <i>93 rpm</i> |
| MAX. OUTPUT TORQUE | : | <i>600 kgf.m</i> |
| WEIGHT (INCLUDED MOTOR) | : | <i>122 kg</i> |

3) PINION GEAR

| | | |
|--------------|---|------------------|
| TYPE | : | <i>SPUR GEAR</i> |
| GEAR P.C.D. | : | <i>Φ120 mm</i> |
| No. OF TEETH | : | <i>10</i> |
| MODULE | : | <i>12</i> |

4) SWING BEARING

| | | |
|--------------------|---|------------------------------------|
| TYPE | : | <i>BALL BEARING, INTERNAL GEAR</i> |
| GEAR P.C.D. | : | <i>Φ960 mm</i> |
| No. OF TEETH | : | <i>80</i> |
| BALL DIA. | : | <i>Φ28.575 mm</i> |
| RACE O.D. | : | <i>Φ1200 mm</i> |
| RACE HIEGHT | : | <i>81 mm</i> |
| STATIC THRUST LOAD | : | <i>364,500 kg</i> |
| WEIGHT | : | <i>203.4 kg</i> |

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5) SWING PERFORMANCE

SWING SPEED (EFF.=1.00) : 10.7 rpm
SWING TORQUE (EFF.=1.00) : 4,800 kgf.m
SWING SPEED (EFF.=0.95) : 10.2 rpm
SWING TORQUE (EFF.=0.77) : 3,700 kgf.m

6) PARKING BRAKE

CONTROL TYPE : PILOT PRESSURE, MECHANICAL
BRAKE TORQUE : 36.8 kgf.m
BRAKE RELEASE PRESSURE : 24 kgf/cm²
SELECT V/V CRACKING PRESSURE : 13 kgf/cm²

7) MOTOR ACCESSARY

BRAKE TIME DELAYER : 5 (+³/₋₀) sec

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6. TRAVEL SYSTEM

1) TRAVEL MOTOR

[STD]

| | | |
|--------------------------------|---|-------------------------------|
| TYPE | : | <i>AXIAL PISTON, 2-SPEED</i> |
| DISPLACEMENT | : | <i>79.5 / 47.5 cc/rev</i> |
| CROSSOVER RELIEF VALVE SETTING | : | <i>365 kgf/cm²</i> |
| MAX. SUPPLY FLOW | : | <i>117 Liter/min</i> |
| MOTOR SHAFT SPEED | : | <i>1,437 / 2,357 rpm</i> |
| MOTOR SHAFT TORQUE | : | <i>38.1 / 22.2 kgf.m</i> |

[High Track Option]

| | | |
|--------------------------------|---|-------------------------------|
| TYPE | : | <i>AXIAL PISTON, 2-SPEED</i> |
| DISPLACEMENT | : | <i>151.5 / 92.4 cc/rev</i> |
| CROSSOVER RELIEF VALVE SETTING | : | <i>365 kgf/cm²</i> |
| MAX. SUPPLY FLOW (@2000 RPM) | : | <i>114 Liter/min</i> |
| MOTOR SHAFT SPEED | : | <i>733.7 / 1202.9 rpm</i> |
| MOTOR SHAFT TORQUE | : | <i>84.4 / 51.5 kgf.m</i> |

2) REDUCTION GEAR

[STD]

| | | |
|------------------------|---|-------------------------------|
| TYPE | : | <i>2-STAGE PLANETERY GEAR</i> |
| REDUCTION GEAR RATIO | : | <i>53.306</i> |
| MAX. OUTPUT SPEED | : | <i>26.4 / 43.1 rpm</i> |
| MAX. OUTPUT TORQUE | : | <i>2348.8 / 1437.2 kgf.m</i> |
| WEIGHT (INCLUDE MOTOR) | : | <i>147 kg</i> |

[High Track Option]

| | | |
|------------------------|---|--------------------------------|
| TYPE | : | <i>2-STAGE PLANETERY GEAR</i> |
| REDUCTION GEAR RATIO | : | <i>39.14</i> |
| MAX. OUTPUT SPEED | : | <i>18.7 / 30.7 rpm</i> |
| MAX. OUTPUT TORQUE | : | <i>3303.1 / 2014.6 kgf.m</i> |
| WEIGHT (INCLUDE MOTOR) | : | <i>241 kg (Included motor)</i> |

3) SPROCKET

[STD]

| | | |
|------------------|---|-------------------|
| SPROCKET P.C.D. | : | <i>Φ581.67 mm</i> |
| TRACK LINK PITCH | : | <i>171.45 mm</i> |
| No. OF TEETH | : | <i>21</i> |
| WEIGHT | : | <i>34.62 kg</i> |

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[High Track Option]

| | | |
|------------------|---|-----------------|
| SPROCKET P.C.D. | : | Φ 644.6 mm |
| TRACK LINK PITCH | : | 190 mm |
| No. OF TEETH | : | 21 |
| WEIGHT | : | 46.4 kg |

4) TRAVELLING PERFORMANCE

[STD]

| | | |
|---------------------------------|---|------------------|
| TRAVELLING SPEED (EFF.=1.00) | : | 2.85 / 4.65 km/h |
| TRACTION FORCE (EFF.=1.00) | : | 16.2 / 9.9 Ton |
| TRAVELLING SPEED (EFF.=0.95) | : | 2.70 / 4.42 km/h |
| TRACTION FORCE (EFF.=0.77/0.65) | : | 12.4 / 6.4 Ton |
| GRADEABILITY | : | 70 % |

[High Track Option]

| | | |
|---------------------------------|---|------------------|
| TRAVELLING SPEED (EFF.=1.00) | : | 2.24 / 3.68 km/h |
| TRACTION FORCE (EFF.=1.00) | : | 20.5 / 12.5 Ton |
| TRAVELLING SPEED (EFF.=0.95) | : | 2.13 / 3.49 km/h |
| TRACTION FORCE (EFF.=0.77/0.65) | : | 15.8 / 8.1 Ton |
| GRADEABILITY | : | 70 % |

5) PARKING BRAKE

[STD]

| | | |
|------------------------|---|---------------------------|
| CONTROL TYPE | : | MAIN PRESSURE, MECHANICAL |
| BRAKE TORQUE | : | 27.6 kgf·m |
| BRAKE RELEASE PRESSURE | : | 10.2 kgf/cm ² |

[High Track Option]

| | | |
|------------------------|---|---------------------------|
| CONTROL TYPE | : | MAIN PRESSURE, MECHANICAL |
| BRAKE TORQUE | : | 50 kgf·m |
| BRAKE RELEASE PRESSURE | : | 8.2 kgf/cm ² |

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7. UNDER CARRIAGE

1) RECOIL MECHANISM

[STD]

TYPE : HYDRAULIC ADJUSTED
RECOIL SPRING PRELOAD : 9,220 kg
RECOIL SPRING MAX. LOAD : 15,147 kg
RECOIL SPRING STROKE : -40~+80 mm
ADJESTER TYPE : GREASE CYLINDER

[High Track Option]

TYPE : HYDRAULIC ADJUSTED
RECOIL SPRING PRELOAD : 12,198 kg
RECOIL SPRING MAX. LOAD : 22,960 kg
RECOIL SPRING STROKE : -40~+80 mm
ADJESTER TYPE : GREASE CYLINDER
WEIGHT : 115 kg

2) ROLLERS ; LOWER

[STD]

FLANGE TYPE : SINGLE
Q'TY PER SIDE : 7
RAIL DIA. : $\Phi 140$ mm
WEIGHT : 23.1 kg

[High Track Option]

FLANGE TYPE : SINGLE
Q'TY PER SIDE : 7
RAIL DIA. : $\Phi 150$ mm
WEIGHT : 34.1 kg

3) ROLLERS ; UPPER

[STD]

FLANGE TYPE : INNER
Q'TY PER SIDE : 1
RAIL DIA. : $\Phi 120$
WEIGHT : 11kg

[High Track Option]

FLANGE TYPE : SINGLE
Q'TY PER SIDE : 2
RAIL DIA. : $\Phi 150$ mm
WEIGHT : 34.1 kg

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4) FRONT IDLER

[STD]

RAIL DIA. : $\Phi 454 \text{ mm}$
 WEIGHT : 105 kg

[High Track Option]

RAIL DIA. : $\Phi 500 \text{ mm}$
 WEIGHT : 117.6 kg

5) TRACK LINK

[STD]

No. OF LINK PER SIDE : 46
 LINK PITCH : 171.45 mm
 PIN DIA. : $\Phi 36.65 \text{ mm}$
 Bush DIA. : $\Phi 53.85 \text{ mm}$
 TRACK GAUGE : 1,990 mm
 TUMBLER DISTANCE(STD) : 3,034(2,780) mm
 WEIGHT : 2.65 kg / 1EA

[High Track Option]

No. OF LINK PER SIDE : 45
 LINK PITCH : 190 mm
 PIN DIA. : $\Phi 38 \text{ mm}$
 Bush DIA. : $\Phi 59 \text{ mm}$
 TRACK GAUGE : 2,200 mm / 1,990 mm (Narrow)
 TUMBLER DISTANCE : 3,275 mm
 WEIGHT (800mmTG, Included shoe) : 1533 kg
 WEIGHT (900mmTG, Included shoe) : 1661 kg

6) TRACK SHOE

No. OF SHOE PER SIDE : 46

| SHOE WIDTH (mm) | GROUND PRESSURE (kgf/cm ²) | MACHINE WEIGHT (ton) |
|--------------------------|--|----------------------|
| STD. 600G | 0.37 | 14.4 |
| OPT. 500G | 0.43 | 14.2 |
| OPT. 700G | 0.32 | 14.6 |
| OPT. 500 Rubber shoe | 0.43 | 14.1 |
| OPT. 800G* High Track | 0.31 | 16.8 |
| OPT. 900G* High Track | 0.28 | 17.1 |

* HIGH TRACK : 4.6 Boom + 3.0 Arm + 0.45 Bucket + 2.2 CW

| | | | | |
|-------|-----------|---------|--|-------|
| MODEL | DX140LC-5 | DWG No. | | 16/39 |
|-------|-----------|---------|--|-------|

8. HYDRAULIC CYLINDERS

| BOOM | MONO | ARTI | DOMESTIC(KOR) |
|------------------|--------|--------|---------------|
| QUANTITY | 2 | 2 | 2 |
| BORE | 110 | 110 | 100 |
| STROKE | 1,085 | 940 | 1085 |
| ROD DIA. | 75 | 75 | 70 |
| CLOSED LENGTH | 1,585 | 1,635 | 1585 |
| HEAD END CUSHION | X | X | X |
| ROD END CUSHION | O | O | O |
| APPLIED ARM (mm) | | | 4,000 |
| WEIGHT | 106 kg | 101 kg | 108 kg |

| ARM | MONO | ARTI | DOMESTIC(KOR) |
|------------------|--------|--------|---------------|
| QUANTITY | 1 | 1 | 1 |
| BORE | 115 | 140 | 110 |
| STROKE | 1,108 | 720 | 1022 |
| ROD DIA. | 80 | 85 | 75 |
| CLOSED LENGTH | 1,665 | 1,175 | 1560 |
| HEAD END CUSHION | O | X | O |
| ROD END CUSHION | O | X | O |
| APPLIED ARM (mm) | | | 1,900 |
| WEIGHT | 143 kg | 150 kg | 131 kg |

| BUCKET | MONO | | ARTI | DOMESTIC (KOR) |
|------------------|----------------|-------|--------|----------------|
| QUANTITY | 1 | 1 | 1 | 1 |
| BORE | 100 | 100 | 140 | 95 |
| STROKE | 900 | 900 | 720 | 900 |
| ROD DIA. | 70 | 70 | 85 | 65 |
| CLOSED LENGTH | 1,375 | 1,375 | 1,175 | 1375 |
| HEAD END CUSHION | X | X | X | X |
| ROD END CUSHION | O | O | X | O |
| APPLIED ARM (mm) | 2,100 2,500 | 3,000 | | 1,900 |
| WEIGHT | 80 kg | 89 kg | 150 kg | 87 kg |

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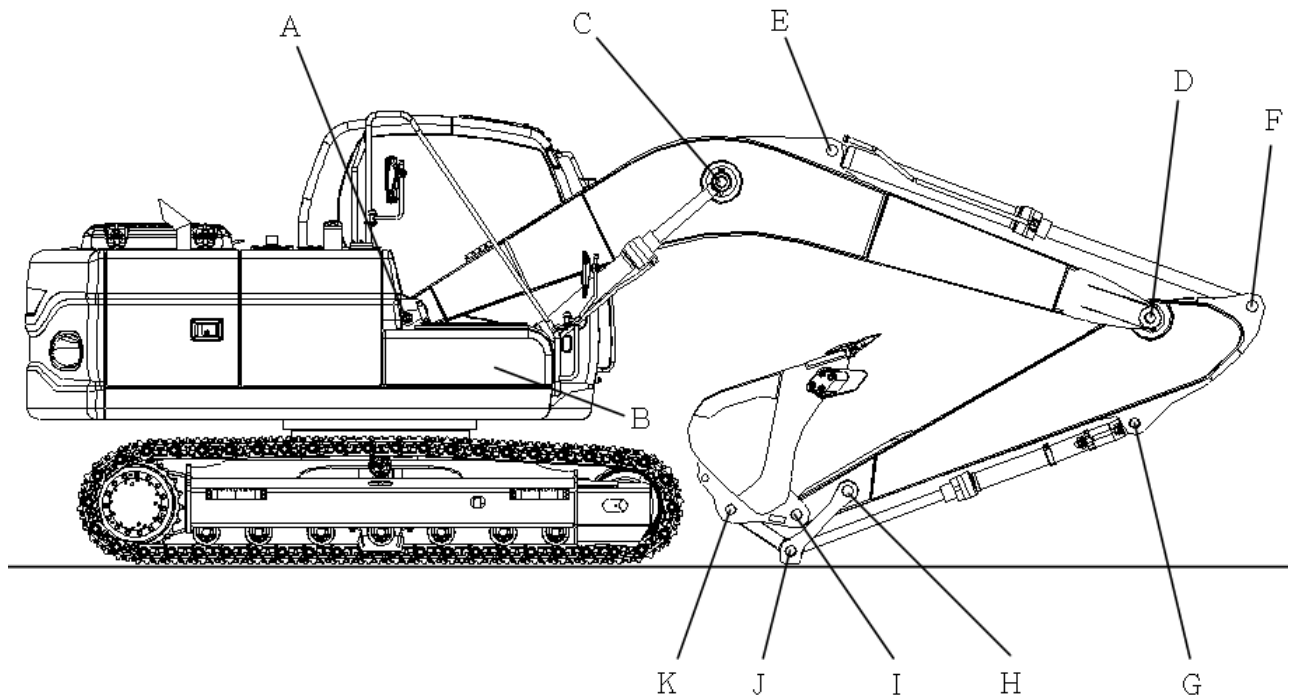
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9. FRONT

1) FRONT LINK PIN SIZES

1-1) ONE-PIECE BOOM



| POINT | DIA. (mm) | LENGTH (mm) | WEIGHT (kg) |
|-------|-----------|-------------|-------------|
| A | 71 | 686 | 22.2 |
| B | 71 | 200 | 7.2 |
| C | 71 | 660 | 19.6 |
| D | 71 | 419 | 14.4 |
| E | 71 | 212 | 7.6 |
| F | 71 | 212 | 7.6 |
| G | 65 | 198 | 6.1 |
| H | 65 | 364 | 9.4 |
| I | 65 | 434 | 11 |
| J | 65 | 364 | 9.4 |
| K | 65 | 434 | 11 |

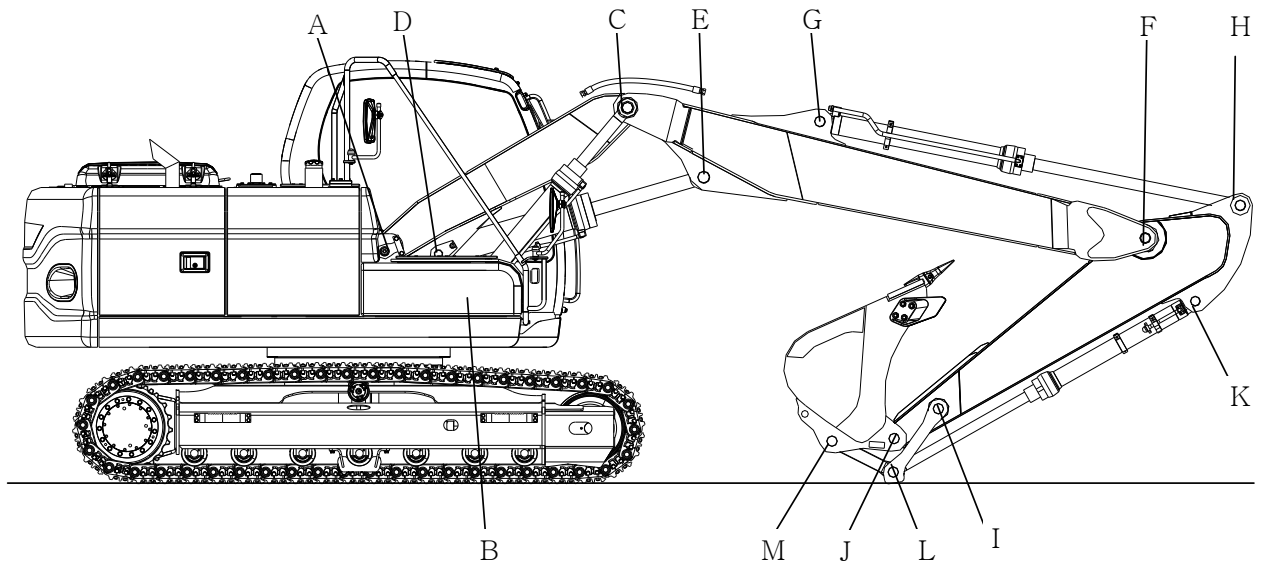
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1-2) TWO-PIECE BOOM



| POINT | DIA. (mm) | LENGTH (mm) | WEIGHT (kg) |
|-------|-----------|-------------|-------------|
| A | 71 | 686 | 22.2 |
| B | 71 | 200 | 7.2 |
| C | 80 | 660 | 25.0 |
| D | 80 | 277 | 11.9 |
| E | 80 | 277 | 11.9 |
| F | 71 | 419 | 14 |
| G | 71 | 212 | 7.6 |
| H | 71 | 212 | 7.6 |
| I | 65 | 364 | 9.4 |
| J | 65 | 434 | 11 |
| K | 65 | 198 | 6.1 |
| L | 65 | 364 | 9.4 |
| M | 65 | 434 | 11 |

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2) FRONT ATTACHMENTS

2-1) BOOM

| | | LENGTH (mm) | WEIGHT (kg) |
|----------------|-------|-------------|-------------|
| STD. BOOM | | 4600 | 767 |
| DOMESTIC (KOR) | | 4000 | 688 |
| ARTI. BOOM | UPPER | 3350 | 592 |
| | LOWER | 2000 | 384 |

2-2) ARM

| | LENGTH (mm) | WEIGHT (kg) | DIGGING FORCE (NOM./PRESS.UP, ton) |
|----------------|-------------|-------------|------------------------------------|
| STD. ARM | 3000 | 465 | [SAE] 5.5 / 5.8, [ISO] 5.6 / 6.0 |
| DOMESTIC (KOR) | 1900 | 315 | [SAE] 6.2 / 6.6, [ISO] 6.5 / 6.9 |
| SHORT ARM | 2100 | 370 | [SAE] 7.0 / 7.5, [ISO] 7.2 / 7.7 |
| SHORT ARM | 2500 | 414 | [SAE] 6.0 / 6.3, [ISO] 6.2 / 6.5 |

2-3) BUCKET

| | CAPACITY (m ³) | | | BUCKET WIDTH (mm) | | WEIGHT (kg) | DIGGING FORCE (NOM./PRESS.UP, ton) |
|--------|----------------------------|------|--------|-------------------|------------|-------------|---------------------------------------|
| | CECE | SAE | Struck | W/CUTTER | W/O CUTTER | | |
| STD. | 0.40 | 0.45 | 0.35 | 911 | 821 | 381 | [SAE] 9.1 / 9.7 [ISO] 10.5 / 11.1 |
| OPT. | 0.22 | 0.24 | 0.20 | 534 | 464 | 275 | |
| OPT. | 0.35 | 0.39 | 0.31 | 820 | 736 | 341 | |
| OPT. | 0.45 | 0.51 | 0.39 | 991 | 907 | 393 | |
| OPT. | 0.51 | 0.59 | 0.44 | 1081 | 997 | 413 | |
| OPT. | 0.55 | 0.64 | 0.47 | 1167 | 1083 | 435 | |
| OPT. | 0.65 | 0.76 | 0.55 | 1339 | 1255 | 484 | |
| OPT** | 0.38 | 0.42 | 0.34 | 827 | 762 | 462 | [SAE] 9.4 / 10.0 [ISO] 10.3 / 10.9 |
| OPT** | 0.44 | 0.49 | 0.39 | 913 | 848 | 497 | |
| OPT** | 0.48 | 0.54 | 0.42 | 981 | 916 | 517 | |
| OPT*** | 0.21 | 0.20 | 0.19 | 450 | - | 313 | [SAE] 9.4 / 10.0 [ISO] 10.5 / 11.1 |
| OPT*** | 0.31 | 0.29 | 0.26 | 600 | - | 372 | |
| OPT*** | 0.42 | 0.38 | 0.34 | 750 | - | 420 | |
| OPT*** | 0.52 | 0.47 | 0.42 | 900 | - | 478 | |
| OPT*** | 0.60 | 0.53 | 0.47 | 1,000 | - | 510 | |
| OPT*** | 0.67 | 0.60 | 0.52 | 1,100 | - | 542 | |
| OPT*** | 0.74 | 0.66 | 0.57 | 1,200 | - | 585 | |

** : HD BUCKET

*** : DUAL H CLASS BUCKET

| | | | | |
|-------|------------------|---------|--|-------|
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|-------|------------------|---------|--|-------|

2-4) BUCKET & ARM COMBINATIONS

[STD TRACK]

| Bucket Type | Capacity(m ³) | Bucket Width(mm) | | Weight (kg) | 4.6 Boom | | | 4.0 Boom | ARTI Boom | |
|---|---------------------------|------------------|------------|-------------|----------|------|------|----------|-----------|------|
| | SAE | W/ Cutter | W/O Cutter | | 2.1A | 2.5A | 3.0A | 1.9A | 2.1A | 2.5A |
| G.P | 0.24 | 534 | 464 | 275 | A | A | A | A | A | A |
| | 0.39 | 820 | 736 | 341 | A | A | A | A | A | A |
| | 0.45 | 911 | 821 | 381 | A | A | A | A | A | A |
| | 0.51 | 991 | 907 | 393 | A | A | A | A | A | B |
| | 0.59 | 1081 | 997 | 413 | A | B | C | A | B | C |
| | 0.64 | 1167 | 1083 | 435 | A | B | C | A | C | D |
| | 0.76 | 1339 | 1255 | 484 | C | C | D | A | D | D |
| HD | 0.42 | 827 | 762 | 462 | A | A | A | A | A | A |
| | 0.49 | 913 | 848 | 497 | A | A | B | A | A | B |
| | 0.54 | 981 | 916 | 517 | A | B | C | A | B | C |
| H CLASS | 0.21 | 450 | - | 313 | A | A | A | A | A | A |
| | 0.31 | 600 | - | 372 | A | A | A | A | A | A |
| | 0.42 | 750 | - | 420 | A | A | A | A | A | A |
| | 0.52 | 900 | - | 478 | A | A | B | A | B | C |
| | 0.60 | 1,000 | - | 510 | A | B | C | A | C | D |
| | 0.67 | 1,100 | - | 542 | B | C | D | A | C | D |
| | 0.74 | 1,200 | - | 585 | C | D | - | A | D | - |
| <i>Maximum load pin-on (payload+bucket)</i> | | | | | 1795 | 1605 | 1471 | 2651 | 1559 | 1399 |

Based on ISO 10567 and SAE J296, arm length without quick change clamp

A : Suitable for materials with density of 2100kg/m³ (3500lb/yd³) or less

B : Suitable for materials with density of 1800kg/m³ (3000lb/yd³) or less

C : Suitable for materials with density of 1500kg/m³ (2500lb/yd³) or less

D : Suitable for materials with density of 1200kg/m³ (2000lb/yd³) or less

- : Not recommended

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[RUBBER SHOE TRACK]

| Bucket Type | Capacity(m ³) | Bucket Width(mm) | | Weight (kg) | 4.6 MONO Boom | | |
|---|---------------------------|------------------|------------|-------------|---------------|------|------|
| | SAE | W/ Cutter | W/O Cutter | | 2.1A | 2.5A | 3.0A |
| G.P | 0.24 | 534 | 464 | 275 | A | A | A |
| | 0.39 | 820 | 736 | 341 | A | A | A |
| | 0.45 | 911 | 821 | 381 | A | A | A |
| | 0.51 | 991 | 907 | 393 | A | A | B |
| | 0.59 | 1081 | 997 | 413 | A | B | C |
| | 0.64 | 1167 | 1083 | 435 | B | C | C |
| | 0.76 | 1339 | 1255 | 484 | C | D | D |
| HD | 0.42 | 827 | 762 | 462 | A | A | A |
| | 0.49 | 913 | 848 | 497 | A | A | B |
| | 0.54 | 981 | 916 | 517 | A | B | C |
| H CLASS | 0.21 | 450 | - | 313 | A | A | A |
| | 0.31 | 600 | - | 372 | A | A | A |
| | 0.42 | 750 | - | 420 | A | A | A |
| | 0.52 | 900 | - | 478 | A | B | B |
| | 0.60 | 1,000 | - | 510 | B | C | C |
| | 0.67 | 1,100 | - | 542 | C | C | D |
| | 0.74 | 1,200 | - | 585 | C | D | - |
| <i>Maximum load pin-on (payload+bucket)</i> | | | | | 1733 | 1548 | 1416 |

Based on ISO 10567 and SAE J296, arm length without quick change clamp

A : Suitable for materials with density of 2100kg/m³ (3500lb/yd³) or less

B : Suitable for materials with density of 1800kg/m³ (3000lb/yd³) or less

C : Suitable for materials with density of 1500kg/m³ (2500lb/yd³) or less

D : Suitable for materials with density of 1200kg/m³ (2000lb/yd³) or less

- : Not recommended

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3) OPTION PIPINGS

3-1) ONE-WAY PIPING

MAIN & PILOT PIPING : *OPTION*
FRONT SUPPLY PIPING : *OPTION*
AVAILABLE ATTACHMENT : *BREAKER*

3-2) PE3C PIPING

MAIN & PILOT PIPING : *OPTION*
FRONT SUPPLY PIPING : *OPTION*
AVAILABLE ATTACHMENT : *BUCKET TILT CYLINDER, CLAMSHELL
CRUSHER*

3-3) PERO PIPING

MAIN & PILOT PIPING : *OPTION*
FRONT SUPPLY PIPING : *OPTION*
AVAILABLE ATTACHMENT : *ROTATING GRAPPLE*

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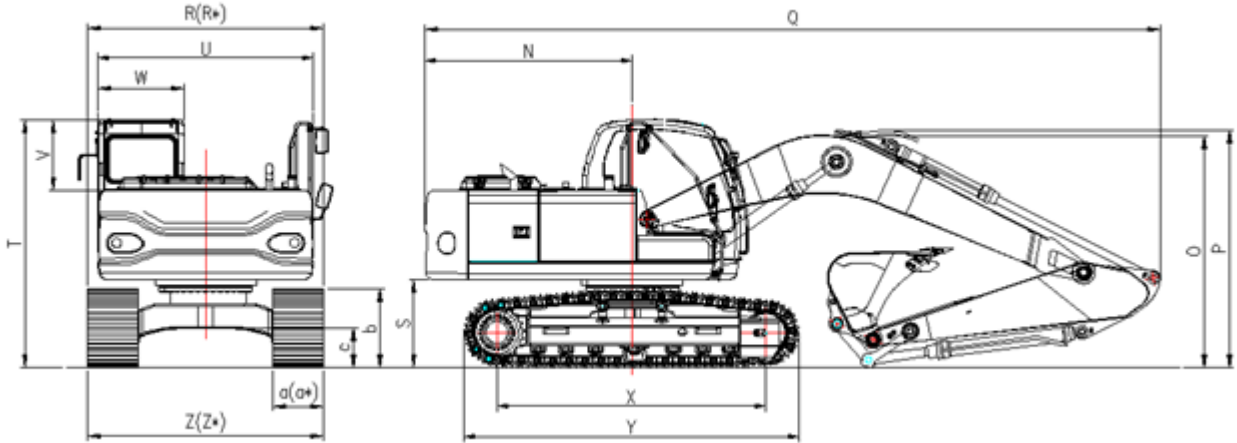
DWG No.

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10. DIMENSIONS AND WORKING RANGE

1) DIMENSIONS

1-1) ONE PIECE BOOM [METRIC] – [STD]



| BOOM TYPE | (mm) | (ONE PIECE) 4600 | | | 4000 |
|-------------------------|-------------------|------------------|------|------|------|
| ARM TYPE | (mm) | 3000 | 2100 | 2500 | 1900 |
| BUCKET TYPE (SAE) | (m ³) | 0.45 | 0.59 | 0.51 | 0.59 |
| TAIL SWING RADIUS | (mm) N | 2205 | ← | ← | ← |
| SHIPPING HEIGHT (BOOM) | (mm) O | 3065 | 2480 | 2635 | 2860 |
| SHIPPING HEIGHT (HOSE) | (mm) P | 3180 | 2640 | 2820 | 2960 |
| SHIPPING LENGTH | (mm) Q | 7640 | 7690 | 7685 | 7032 |
| SHIPPING WIDTH | (mm) R | 2590 | ← | ← | ← |
| C/WEIGHT CLEARANCE | (mm) S | 895 | ← | ← | ← |
| HEIGHT OVER CAB. | (mm) T | 2785 | ← | ← | ← |
| HOUSE WIDTH | (mm) U | 2540 | ← | ← | ← |
| CAB. HEIGHT ABOVE HOUSE | (mm) V | 840 | ← | ← | ← |
| CAB. WIDTH | (mm) W | 1010 | ← | ← | ← |
| TUMBLER DISTANCE | (mm) X | 3035 | ← | ← | ← |
| TRACK LENGTH | (mm) Y | 3755 | ← | ← | ← |
| UNDERCARRIAGE WIDTH | (mm) Z | 2590 | ← | ← | ← |
| SHOE WIDTH | (mm) a | 600 | ← | ← | ← |
| TRACK HEIGHT | (mm) b | 795 | ← | ← | ← |
| CAR BODY CLEARANCE | (mm) c | 410 | ← | ← | ← |

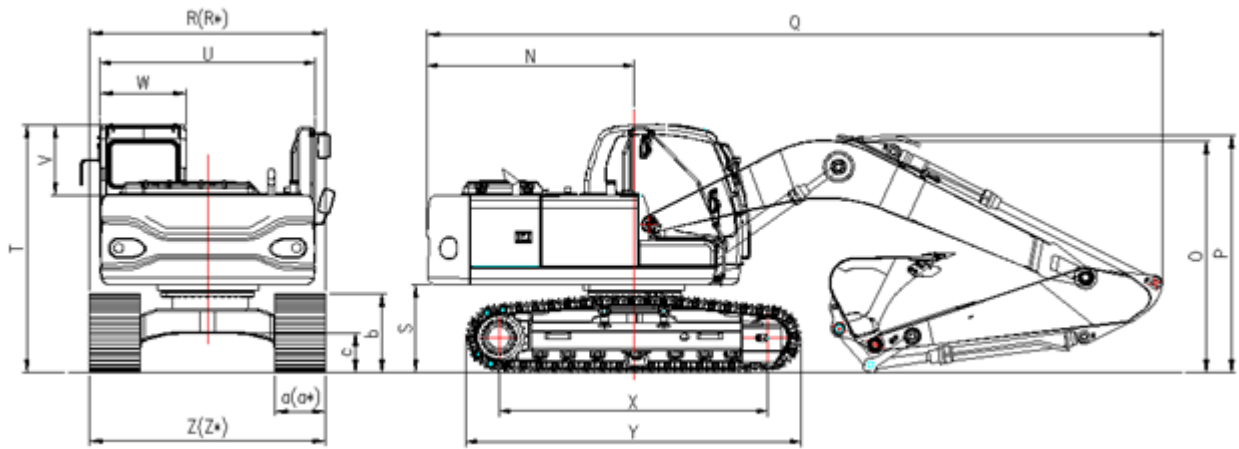
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1-1) ONE PIECE BOOM [FEET] – [STD]



| BOOM TYPE | (ft) | | (ONE PIECE) 15' 1" | | | 13' 1" |
|-------------------------|--------------------|---|--------------------|--------|--------|--------|
| ARM TYPE | (ft) | | 9' 84" | 6' 89" | 8' 2" | 6' 23" |
| BUCKET TYPE (SAE) | (yd ³) | | 0.59 | 0.77 | 0.67 | 0.77 |
| TAIL SWING RADIUS | (ft) | N | 7' 3" | ← | ← | ← |
| SHIPPING HEIGHT (BOOM) | (ft) | O | 10' 1" | 8' 2" | 8' 8" | 9' 5" |
| SHIPPING HEIGHT (HOSE) | (ft) | P | 10' 5" | 8' 8" | 9' 3" | 9' 9" |
| SHIPPING LENGTH | (ft) | Q | 25' 1" | 25' 3" | 25' 3" | 23' 1" |
| SHIPPING WIDTH | (ft) | R | 8' 6" | ← | ← | ← |
| C/WEIGHT CLEARANCE | (ft) | S | 2' 11" | ← | ← | ← |
| HEIGHT OVER CAB. | (ft) | T | 9' 2" | ← | ← | ← |
| HOUSE WIDTH | (ft) | U | 8' 4" | ← | ← | ← |
| CAB. HEIGHT ABOVE HOUSE | (ft) | V | 2' 9" | ← | ← | ← |
| CAB. WIDTH | (ft) | W | 3' 4" | ← | ← | ← |
| TUMBLER DISTANCE | (ft) | X | 9' 11" | ← | ← | ← |
| TRACK LENGTH | (ft) | Y | 12' 4" | ← | ← | ← |
| UNDERCARRIAGE WIDTH | (ft) | Z | 8' 6" | ← | ← | ← |
| SHOE WIDTH | (ft) | a | 1' 12" | ← | ← | ← |
| TRACK HEIGHT | (ft) | b | 2' 7" | ← | ← | ← |
| CAR BODY CLEARANCE | (ft) | c | 1' 4" | ← | ← | ← |

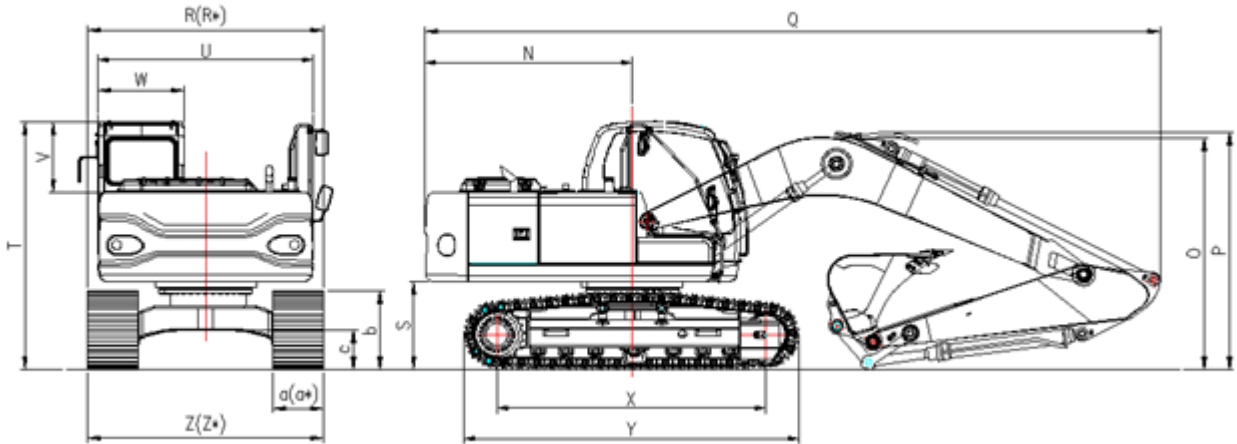
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1-2) ONE PIECE BOOM [METRIC] – [HIGH TRACK OPTION]



| | | | |
|------------------------------|-------------------|-------------------------|-----------|
| BOOM TYPE | (mm) | <i>(ONE PIECE) 4600</i> | |
| ARM TYPE | (mm) | 3000 | 2500 |
| BUCKET TYPE (SAE) | (m ³) | 0.45 | 0.51 |
| TAIL SWING RADIUS | (mm) | N | 2205 ← |
| SHIPPING HEIGHT (GUARD RAIL) | (mm) | T' | 3265 ← |
| SHIPPING HEIGHT (BOOM) | (mm) | O | 2680 3020 |
| SHIPPING HEIGHT (HOSE) | (mm) | P | 2830 3200 |
| SHIPPING LENGTH | (mm) | Q | 7650 7720 |
| SHIPPING WIDTH | (mm) | R | 3000 ← |
| C/WEIGHT CLEARANCE | (mm) | S | 1175 ← |
| HEIGHT OVER CAB. | (mm) | T | 3065 ← |
| HOUSE WIDTH | (mm) | U | 2540 ← |
| CAB. HEIGHT ABOVE HOUSE | (mm) | V | 840 ← |
| CAB. WIDTH | (mm) | W | 1010 ← |
| TUMBLER DISTANCE | (mm) | X | 3180 ← |
| TRACK LENGTH | (mm) | Y | 3925 ← |
| UNDERCARRIAGE WIDTH | (mm) | Z | 2800 ← |
| SHOE WIDTH | (mm) | a | 600 ← |
| TRACK HEIGHT | (mm) | b | 946 ← |
| CAR BODY CLEARANCE | (mm) | c | 615 ← |

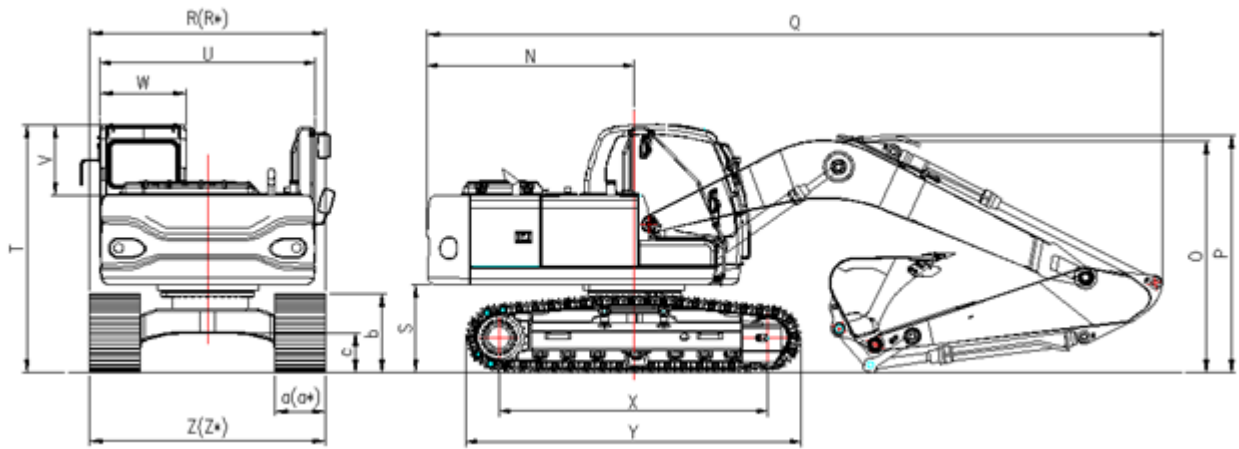
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1-2) ONE PIECE BOOM [FEET] – [HIGH TRACK OPTION]



| | | | |
|------------------------------|--------------------|---------------------------|-----------------------------|
| BOOM TYPE | (ft) | <i>(ONE PIECE) 15' 1"</i> | |
| ARM TYPE | (ft) | 9' 84" | 8' 2" |
| BUCKET TYPE (SAE) | (yd ³) | 0.59 | 0.67 |
| TAIL SWING RADIUS | (ft) | N | 7' 3" ← |
| SHIPPING HEIGHT (GUARD RAIL) | (ft) | O | 10' 9" ← |
| SHIPPING HEIGHT (BOOM) | (ft) | O | 8' 10" 9' 11" |
| SHIPPING HEIGHT (HOSE) | (ft) | P | 9' 3" 10' 6" |
| SHIPPING LENGTH | (ft) | Q | 25' 1" 25' 4" |
| SHIPPING WIDTH | (ft) | R | 9' 10" ← |
| C/WEIGHT CLEARANCE | (ft) | S | 3' 10" ← |
| HEIGHT OVER CAB. | (ft) | T | 10' 0" ← |
| HOUSE WIDTH | (ft) | U | 8' 4" ← |
| CAB. HEIGHT ABOVE HOUSE | (ft) | V | 2' 9" ← |
| CAB. WIDTH | (ft) | W | 3' 4" ← |
| TUMBLER DISTANCE | (ft) | X | 9' 11" 10' 5" ← |
| TRACK LENGTH | (ft) | Y | 12' 4" 12' 11" ← |
| UNDERCARRIAGE WIDTH | (ft) | Z | 8' 6" 9' 2" ← |
| SHOE WIDTH | (ft) | a | 1' 12" ← |
| TRACK HEIGHT | (ft) | b | 2' 7" 3' 1" ← |
| CAR BODY CLEARANCE | (ft) | c | 1' 4" 2' 0" ← |

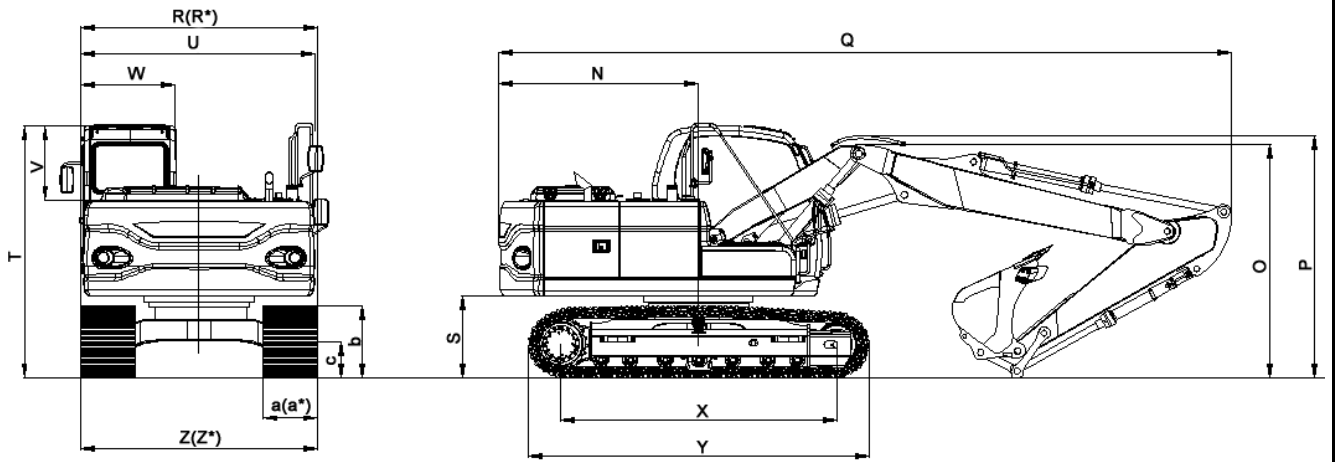
MODEL

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1-3) TWO PIECE BOOM (ARTICULATED BOOM) [METRIC]



| | | | |
|-------------------------|-------------------|------------------|------|
| BOOM TYPE | (mm) | (TWO PIECE) 4980 | |
| ARM TYPE | (mm) | 2100 | 2500 |
| BUCKET TYPE (SAE) | (m ³) | 0.51 | 0.45 |
| TAIL SWING RADIUS | (mm) | N | ← |
| SHIPPING HEIGHT (BOOM) | (mm) | O | 2615 |
| SHIPPING HEIGHT (HOSE) | (mm) | P | 2840 |
| SHIPPING LENGTH | (mm) | Q | 8050 |
| SHIPPING WIDTH | (mm) | R | ← |
| C/WEIGHT CLEARANCE | (mm) | S | ← |
| HEIGHT OVER CAB. | (mm) | T | ← |
| HOUSE WIDTH | (mm) | U | ← |
| CAB. HEIGHT ABOVE HOUSE | (mm) | V | ← |
| CAB. WIDTH | (mm) | W | ← |
| TUMBLER DISTANCE | (mm) | X | ← |
| TRACK LENGTH | (mm) | Y | ← |
| UNDERCARRIAGE WIDTH | (mm) | Z | ← |
| SHOE WIDTH | (mm) | a | ← |
| TRACK HEIGHT | (mm) | b | ← |
| CAR BODY CLEARANCE | (mm) | c | ← |

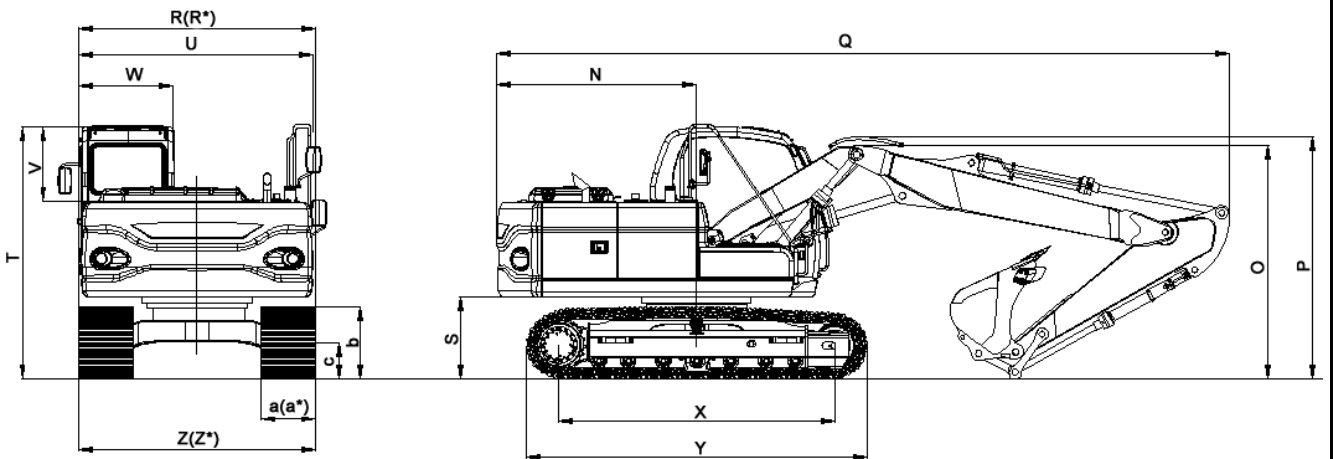
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DWG No.

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1-3) TWO PIECE BOOM (ARTICULATED BOOM) [FEET]



| | | | |
|-------------------------|--------------------|--------------------|--------|
| BOOM TYPE | (ft) | (TWO PIECE) 16' 4" | |
| ARM TYPE | (ft) | 6' 11" | 8' 2" |
| BUCKET TYPE (SAE) | (yd ³) | 0.67 | 0.59 |
| TAIL SWING RADIUS | (ft) | N | 7' 3" |
| SHIPPING HEIGHT (BOOM) | (ft) | O | 8' 7" |
| SHIPPING HEIGHT (HOSE) | (ft) | P | 9' 4" |
| SHIPPING LENGTH | (ft) | Q | 26' 5" |
| SHIPPING WIDTH | (ft) | R | 8' 6" |
| C/WEIGHT CLEARANCE | (ft) | S | 2' 11" |
| HEIGHT OVER CAB. | (ft) | T | 9' 2" |
| HOUSE WIDTH | (ft) | U | 8' 4" |
| CAB. HEIGHT ABOVE HOUSE | (ft) | V | 2' 9" |
| CAB. WIDTH | (ft) | W | 3' 4" |
| TUMBLER DISTANCE | (ft) | X | 9' 11" |
| TRACK LENGTH | (ft) | Y | 12' 4" |
| UNDERCARRIAGE WIDTH | (ft) | Z | 8' 6" |
| SHOE WIDTH | (ft) | a | 1' 12" |
| TRACK HEIGHT | (ft) | b | 2' 7" |
| CAR BODY CLEARANCE | (ft) | c | 1' 4" |

MODEL

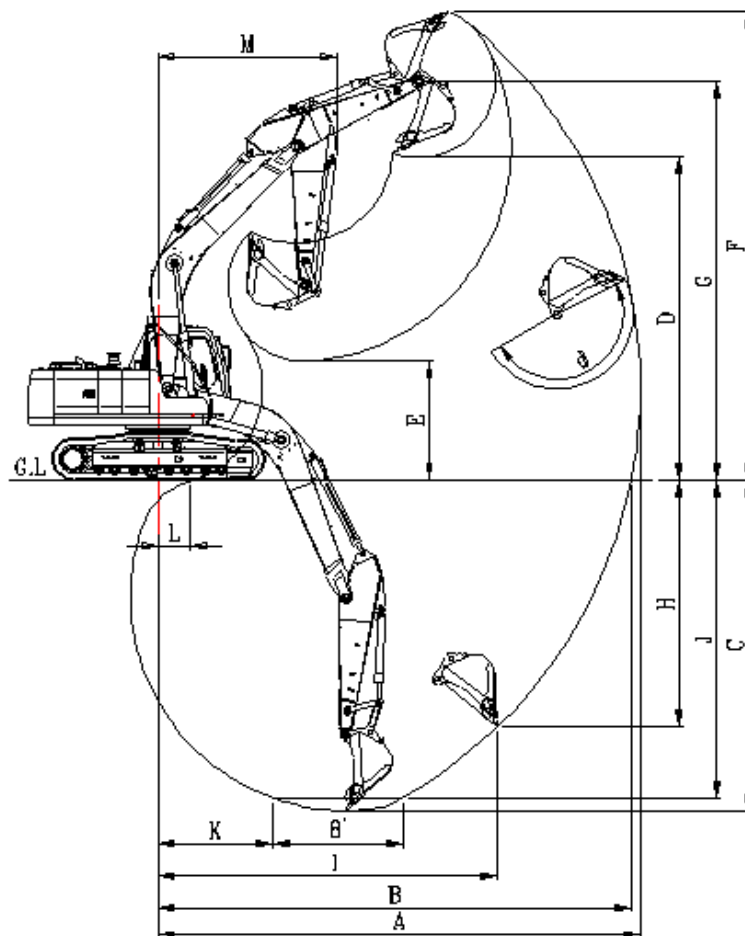
DX140LC-5

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2) WORKING RANGE

2-1) ONE PIECE BOOM [METRIC] – [STD]



| BOOM TYPE | (mm) | | (ONE PIECE) 4600 | | | 4000 | 4600 |
|-----------------------------|-------------------|---|------------------|------|------|------|------|
| ARM TYPE | (mm) | | 3000 | 2100 | 2500 | 1900 | 2500 |
| BUCKET TYPE (SAE) | (m ³) | | 0.45 | 0.59 | 0.51 | 0.59 | 0.59 |
| MAX. DIGGING REACH | (mm) | A | 8665 | 7815 | 8285 | 7220 | 8290 |
| MAX. DIGGING REACH (GROUND) | (mm) | B | 8530 | 7660 | 8140 | 7055 | 8145 |
| MAX. DIGGING DEPTH | (mm) | C | 6135 | 5235 | 5635 | 4560 | 5640 |
| MAX. LOADING HEIGHT | (mm) | D | 6440 | 5865 | 6315 | 5565 | 6315 |
| MIN. LOADING HEIGHT | (mm) | E | 1725 | 2575 | 2230 | 2390 | 2225 |
| MAX. DIGGING HEIGHT | (mm) | F | 8745 | 8150 | 8660 | 8010 | 8740 |
| MAX. BUCKET PIN HEIGHT | (mm) | G | 7655 | 7080 | 7535 | 6790 | 7535 |
| MAX. VERTICAL WALL DEPTH | (mm) | H | 4685 | 3710 | 4495 | 4060 | 5040 |
| MAX. RADIUS VERTICAL | (mm) | I | 5970 | 5745 | 5605 | 4240 | 4845 |
| MAX. DEPTH TO 2500mm LINE | (mm) | J | 5890 | 4910 | 5395 | 4330 | 5395 |
| MIN. RADIUS 2500mm LINE | (mm) | K | 1825 | 1805 | 1915 | 1585 | 1915 |
| MIN. DIGGING REACH | (mm) | L | -225 | 955 | 875 | 1135 | 865 |
| MIN. SWING RADIUS | (mm) | M | 2625 | 2285 | 2600 | 2555 | 2600 |
| BUCKET ANGLE | (deg) | d | 174 | 174 | 174 | 179 | 179 |

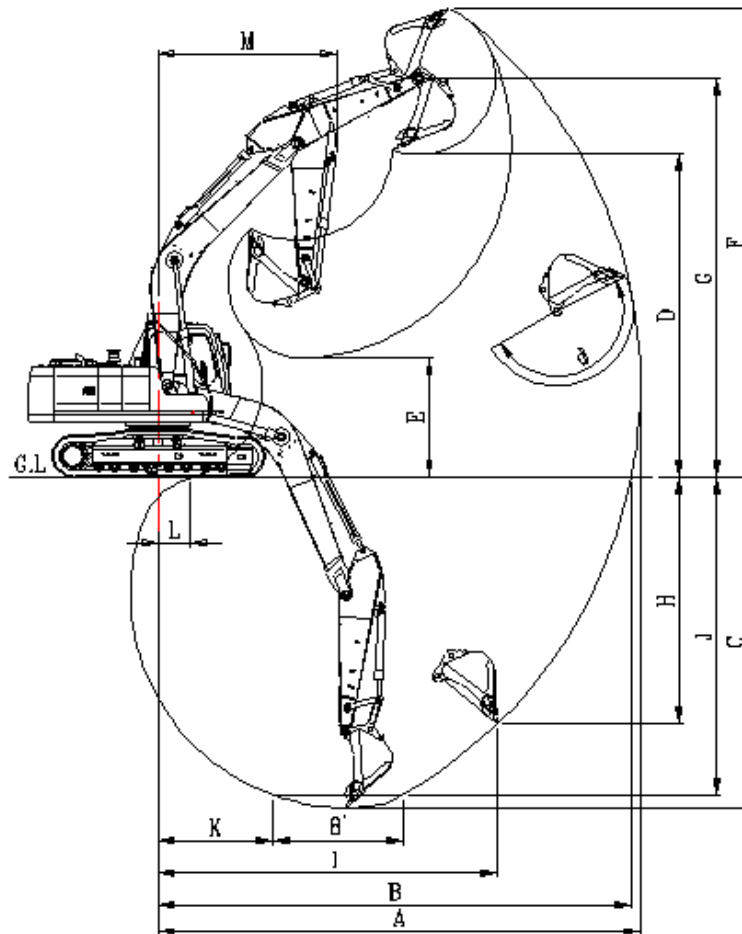
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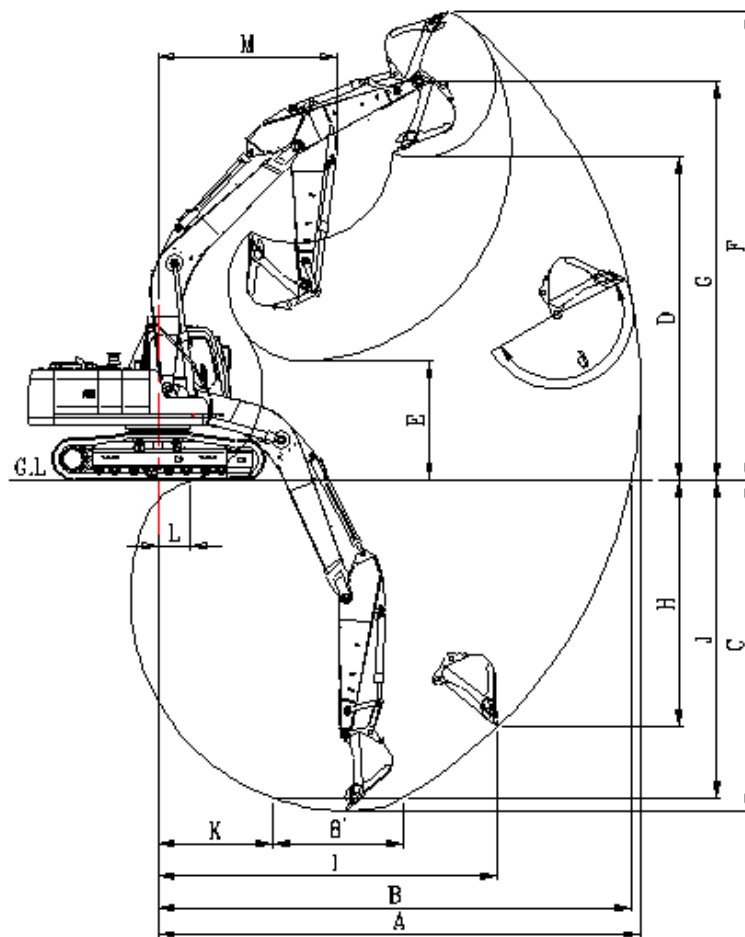
2-1) ONE PIECE BOOM [FEET] – [STD]



| BOOM TYPE | (ft) | | (ONE PIECE) 15' 1" | | | 13' 1" | 15' 1" |
|-----------------------------|--------------------|---|--------------------|---------|--------|---------|---------|
| ARM TYPE | (ft) | | 9' 84" | 6' 89" | 8' 2" | 6' 23" | 8' 2" |
| BUCKET TYPE (SAE) | (yd ³) | | 0.59 | 0.77 | 0.67 | 0.77 | 0.77 |
| MAX. DIGGING REACH | (ft) | A | 28' 5" | 25' 8" | 27' 2" | 23' 8" | 27' 2" |
| MAX. DIGGING REACH (GROUND) | (ft) | B | 28' 0" | 25' 2" | 26' 8" | 23' 2" | 26' 9" |
| MAX. DIGGING DEPTH | (ft) | C | 20' 2" | 17' 2" | 18' 6" | 14' 12" | 18' 6" |
| MAX. LOADING HEIGHT | (ft) | D | 21' 2" | 19' 3" | 20' 9" | 18' 3" | 20' 9" |
| MIN. LOADING HEIGHT | (ft) | E | 5' 8" | 8' 5" | 7' 4" | 7' 10" | 7' 4" |
| MAX. DIGGING HEIGHT | (ft) | F | 28' 8" | 26' 9" | 28' 5" | 26' 3" | 28' 8" |
| MAX. BUCKET PIN HEIGHT | (ft) | G | 25' 1" | 23' 3" | 24' 9" | 22' 3" | 24' 9" |
| MAX. VERTICAL WALL DEPTH | (ft) | H | 15' 4" | 12' 2" | 14' 9" | 13' 4" | 16' 6" |
| MAX. RADIUS VERTICAL | (ft) | I | 19' 7" | 18' 10" | 18' 5" | 13' 11" | 15' 11" |
| MAX. DEPTH TO 8' LINE | (ft) | J | 19' 4" | 16' 1" | 17' 8" | 14' 2" | 17' 8" |
| MIN. RADIUS 8' LINE | (ft) | K | 6' 0" | 5' 11" | 6' 3" | 5' 2" | 6' 3" |
| MIN. DIGGING REACH | (ft) | L | -0' 9" | 3' 2" | 2' 10" | 3' 9" | 2' 10" |
| MIN. SWING RADIUS | (ft) | M | 8' 7" | 7' 6" | 8' 6" | 8' 5" | 8' 6" |
| BUCKET ANGLE | (deg) | d | 174 | 174 | 174 | 179 | 174 |

2-2) ONE PIECE BOOM [METRIC] – [HIGH TRACK OPTION]

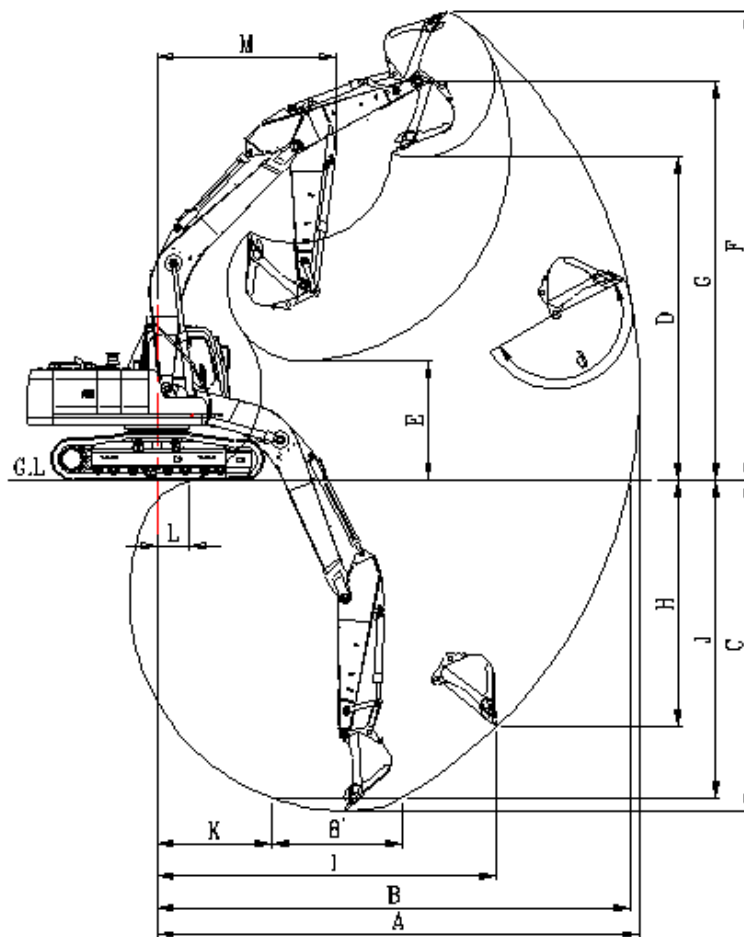
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| MODEL | DX140LC-5 | DWG No. | | 31/39 |
|-------|-----------|---------|--|-------|



| | | | | |
|-----------------------------|-------------------|------------------|-------|-------|
| BOOM TYPE | (mm) | (ONE PIECE) 4600 | | |
| ARM TYPE | (mm) | 3000 | 2500 | |
| BUCKET TYPE (SAE) | (m ³) | 0.45 | 0.51 | |
| MAX. DIGGING REACH | (mm) | A | 8,665 | 8,285 |
| MAX. DIGGING REACH (GROUND) | (mm) | B | 8,475 | 8,080 |
| MAX. DIGGING DEPTH | (mm) | C | 5,850 | 5,355 |
| MAX. LOADING HEIGHT | (mm) | D | 6,720 | 6,605 |
| MIN. LOADING HEIGHT | (mm) | E | 2,005 | 2,765 |
| MAX. DIGGING HEIGHT | (mm) | F | 9,025 | 8,940 |
| MAX. BUCKET PIN HEIGHT | (mm) | G | 7,940 | 7,815 |
| MAX. VERTICAL WALL DEPTH | (mm) | H | 4,405 | 4,210 |
| MAX. RADIUS VERTICAL | (mm) | I | 5,970 | 5,605 |
| MAX. DEPTH TO 2500mm LINE | (mm) | J | 5,610 | 5,115 |
| MIN. RADIUS 2500mm LINE | (mm) | K | 1,825 | 1,915 |
| MIN. DIGGING REACH | (mm) | L | -575 | -45 |
| MIN. SWING RADIUS | (mm) | M | 2,625 | 2,380 |
| BUCKET ANGLE | (deg) | d | 174 | 174 |

2-2) ONE PIECE BOOM [FEET] – [HIGH TRACK OPTION]

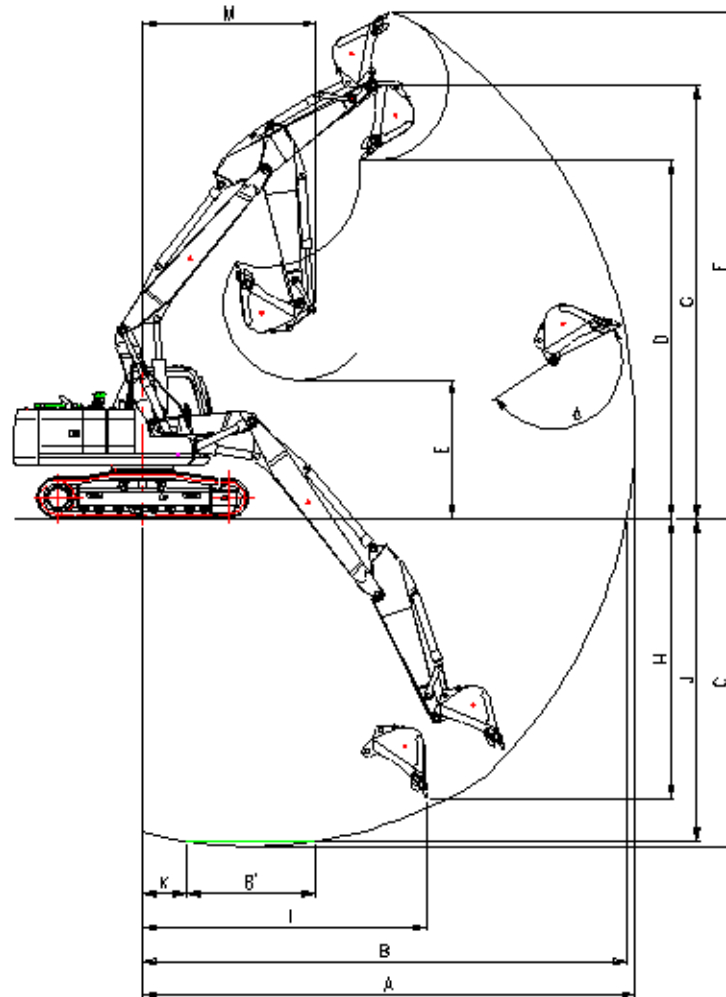
| | | | | |
|-------|-----------|---------|--|-------|
| MODEL | DX140LC-5 | DWG No. | | 32/39 |
|-------|-----------|---------|--|-------|



| | | | | |
|-----------------------------|--------------------|---|-------------------|-------|
| BOOM TYPE | (ft) | | (ONE PIECE) 15'1" | |
| ARM TYPE | (ft) | | 9'10" | 8'2" |
| BUCKET TYPE (SAE) | (yd ³) | | 0.59 | 0.67 |
| MAX. DIGGING REACH | (ft) | A | 28'5" | 27'2" |
| MAX. DIGGING REACH (GROUND) | (ft) | B | 27'1" | 26'6" |
| MAX. DIGGING DEPTH | (ft) | C | 19'2" | 17'7" |
| MAX. LOADING HEIGHT | (ft) | D | 22'1" | 21'8" |
| MIN. LOADING HEIGHT | (ft) | E | 6'7" | 9'1" |
| MAX. DIGGING HEIGHT | (ft) | F | 29'7" | 29'4" |
| MAX. BUCKET PIN HEIGHT | (ft) | G | 26'1" | 25'8" |
| MAX. VERTICAL WALL DEPTH | (ft) | H | 14'5" | 13'1" |
| MAX. RADIUS VERTICAL | (ft) | I | 19'7" | 18'5" |
| MAX. DEPTH TO 2500mm LINE | (ft) | J | 18'5" | 16'9" |
| MIN. RADIUS 2500mm LINE | (ft) | K | 5'12" | 6'3" |
| MIN. DIGGING REACH | (ft) | L | -1'11" | -0'2" |
| MIN. SWING RADIUS | (ft) | M | 8'7" | 7'1" |
| BUCKET ANGLE | (deg) | d | 174 | 174 |

2-2) TWO PIECE BOOM (ARTICULATED BOOM) [METRIC]

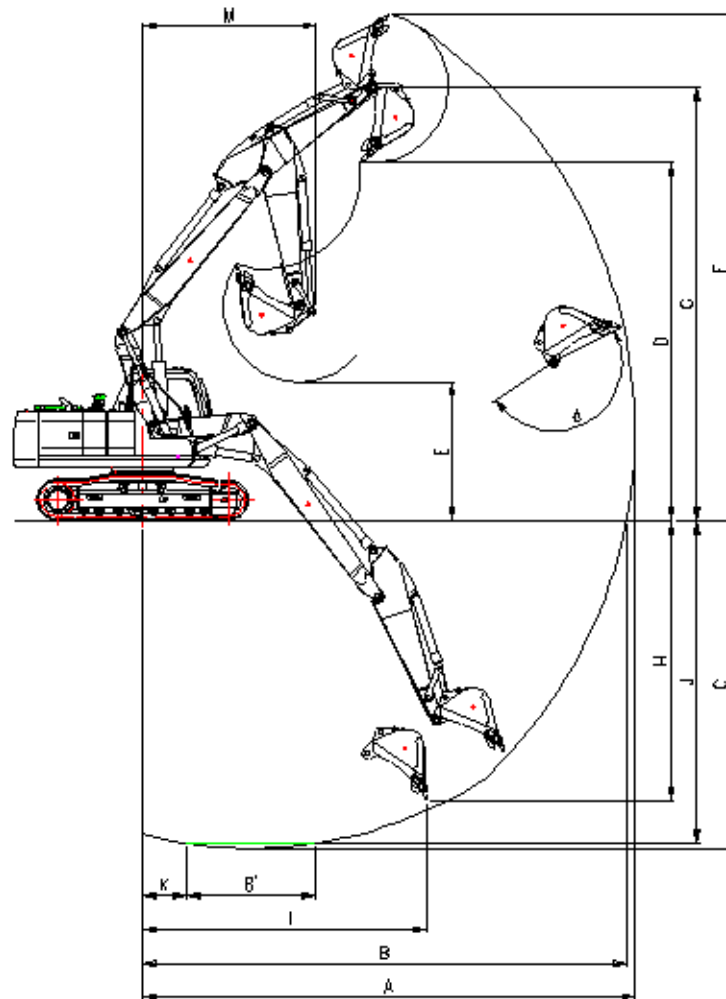
| | | | | |
|-------|-----------|---------|--|-------|
| MODEL | DX140LC-5 | DWG No. | | 33/39 |
|-------|-----------|---------|--|-------|



| BOOM TYPE | (mm) | | (TWO PIECE) 4980 | |
|-----------------------------|-------------------|---|------------------|------|
| ARM TYPE | (mm) | | 2100 | 2500 |
| BUCKET TYPE (SAE) | (m ³) | | 0.51 | 0.45 |
| MAX. DIGGING REACH | (mm) | A | 8260 | 8720 |
| MAX. DIGGING REACH (GROUND) | (mm) | B | 8115 | 8585 |
| MAX. DIGGING DEPTH | (mm) | C | 5295 | 5725 |
| MAX. LOADING HEIGHT | (mm) | D | 6395 | 6855 |
| MIN. LOADING HEIGHT | (mm) | E | 3070 | 2715 |
| MAX. DIGGING HEIGHT | (mm) | F | 8730 | 9235 |
| MAX. BUCKET PIN HEIGHT | (mm) | G | 7615 | 8075 |
| MAX. VERTICAL WALL DEPTH | (mm) | H | 4110 | 4680 |
| MAX. RADIUS VERTICAL | (mm) | I | 5870 | 5730 |
| MAX. DEPTH TO 2500mm LINE | (mm) | J | 5180 | 5615 |
| MIN. RADIUS 2500mm LINE | (mm) | K | 910 | 910 |
| MIN. DIGGING REACH | (mm) | L | 2025 | 1855 |
| MIN. SWING RADIUS | (mm) | M | 2775 | 2970 |
| BUCKET ANGLE | (deg) | d | 174 | 174 |

2-2) TWO PIECE BOOM (ARTICULATED BOOM) [FEET]

| | | | | |
|-------|------------------|---------|--|--------------|
| MODEL | DX140LC-5 | DWG No. | | 34/39 |
|-------|------------------|---------|--|--------------|



| | | | | |
|-----------------------------|--------------------|---|---------------------------|---------|
| BOOM TYPE | (ft) | | <i>(TWO PIECE) 16' 4"</i> | |
| ARM TYPE | (ft) | | 6' 11" | 8' 2" |
| BUCKET TYPE (SAE) | (yd ³) | | 0.67 | 0.59 |
| MAX. DIGGING REACH | (ft) | A | 27' 1" | 28' 7" |
| MAX. DIGGING REACH (GROUND) | (ft) | B | 26' 7" | 28' 2" |
| MAX. DIGGING DEPTH | (ft) | C | 17' 4" | 18' 9" |
| MAX. LOADING HEIGHT | (ft) | D | 21' 0" | 22' 6" |
| MIN. LOADING HEIGHT | (ft) | E | 10' 1" | 8' 11" |
| MAX. DIGGING HEIGHT | (ft) | F | 28' 8" | 30' 4" |
| MAX. BUCKET PIN HEIGHT | (ft) | G | 25' 0" | 26' 6" |
| MAX. VERTICAL WALL DEPTH | (ft) | H | 13' 6" | 15' 4" |
| MAX. RADIUS VERTICAL | (ft) | I | 19' 3" | 18' 10" |
| MAX. DEPTH TO 8' LINE | (ft) | J | 17' 0" | 18' 5" |
| MIN. RADIUS 8' LINE | (ft) | K | 2' 12" | 3' 0" |
| MIN. DIGGING REACH | (ft) | L | 6' 8" | 6' 1" |
| MIN. SWING RADIUS | (ft) | M | 9' 1" | 9' 9" |
| BUCKET ANGLE | (deg) | d | 174 | 174 |

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11. PERFORMANCE DATA

1) MAIN RELIEF PRESSURE

WORKING, TRAVEL : 330 [$\pm 10/0$] kg/cm²
 PRESSURE UP : 350 [$\pm 10/0$] kg/cm²

2) ACTUATOR SPEED

| OPERATION | | UNIT | STANDARD | POWER |
|----------------------------|-------|------|------------|------------|
| BOOM | UP | SEC | 3.2 ± 0.3 | 3.0 ± 0.3 |
| | DOWN | SEC | 2.7 ± 0.3 | 2.5 ± 0.3 |
| ARM | DUMP | SEC | 2.4 ± 0.2 | 2.2 ± 0.2 |
| | CROWD | SEC | 3.2 ± 0.3 | 3.0 ± 0.3 |
| BUCKET | DUMP | SEC | 2.2 ± 0.2 | 2.2 ± 0.2 |
| | CROWD | SEC | 4.2 ± 0.4 | 4.0 ± 0.4 |
| SWING (3 REVOLUTIONS) | | SEC | 19.8 ± 1.5 | 17.1 ± 1.5 |
| JACK-UP SPEED (3 TURNS) | HIGH | SEC | 19.7 ± 1.7 | 17.3 ± 1.7 |
| | LOW | SEC | 32.2 ± 2.9 | 28.7 ± 2.9 |
| TRAVEL SPEED (20 m) | HIGH | SEC | 16.5 ± 1.5 | 14.7 ± 1.5 |
| | LOW | SEC | 27.6 ± 2.4 | 24.3 ± 2.4 |
| TRAVEL DEVIATION (20 m) | HIGH | mm | MAX. 150 | MAX. 150 |
| | LOW | mm | MAX. 150 | MAX. 150 |

12. NOISE LEVEL

L_{WA} GUARANTEED SOUND POWER LEVEL : 101 dB(A) (2000/14/EC)
 MEASURED SOUND POWER LEVEL : 99 dB(A) (2000/14/EC)
 L_{pA} OPERATOR NOISE : 70 dB(A) (ISO 6396)

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13. SUB GROUP WEIGHT

| ITEM | | UNIT | FIGURE | REMARKS | |
|------------------------------|--|--|--------|---------------------|---------------------|
| SUPER STRUCTURE W/O FRONT | | kg | 6,927 | WITH COUNTER WEIGHT | |
| COUNTER WEIGHT | | kg | 2,200 | | |
| LOWER STRUCTURE ASS'Y | | kg | 5,043 | HT TYPE(7,470kg) | |
| FRONT ASS'Y | | kg | 2,434 | | |
| BOOM (4.6 m) | | kg | 767 | WITH BUSHING | |
| ARM (3.0 m) | | kg | 465 | WITH BUSHING | |
| BUCKET (0.45m ³) | | kg | 381 | | |
| BOOM CYL. (2ea) | | kg | 120 | | |
| ARM CYL. | | kg | 143 | | |
| BUCKET CYL. | | kg | 86.5 | | |
| DOZER BLADE (2,590 mm) | | kg | 619 | 600 mm shoe | |
| DOZER CYL. (ea) | | kg | 70 | | |
| OPTION | BOOM (ARTI) | UPPER | kg | 592 | |
| | | LOWER | kg | 384 | |
| | ARM | 2.1 m | kg | 370 | |
| | | 2.5 m | kg | 414 | |
| | BUCKET ;SAE (CECE) | 0.24 m ³ (0.22 m ³) | kg | 275 | |
| | | 0.39m ³ (0.35 m ³) | kg | 341 | |
| | | 0.51 m ³ (0.45 m ³) | kg | 393 | |
| | | 0.59 m ³ (0.51m ³) | kg | 413 | |
| | | 0.64 m ³ (0.55m ³) | kg | 435 | |
| | | 0.76 m ³ (0.65m ³) | kg | 484 | |
| | | 0.42 m ³ (0.38m ³) | kg | 462 | H.D BUCKET(30") |
| | | 0.49 m ³ (0.44m ³) | kg | 497 | H.D BUCKET(33") |
| | | 0.20 m ³ (0.21 m ³) | Kg | 313 | DUAL H CLASS BUCKET |
| | | 0.29 m ³ (0.31 m ³) | Kg | 372 | DUAL H CLASS BUCKET |
| | | 0.38 m ³ (0.42 m ³) | Kg | 420 | DUAL H CLASS BUCKET |
| | | 0.47m ³ (0.52 m ³) | Kg | 478 | DUAL H CLASS BUCKET |
| | | 0.53 m ³ (0.60 m ³) | Kg | 510 | DUAL H CLASS BUCKET |
| | | 0.60 m ³ (0.67 m ³) | Kg | 542 | DUAL H CLASS BUCKET |
| | | 0.66 m ³ (0.74 m ³) | Kg | 585 | DUAL H CLASS BUCKET |
| | 0.20 m ³ (0.21 m ³) | Kg | 313 | DUAL H CLASS BUCKET | |
| | ARTI CYL. | | kg | 150 | |
| | DOZER BLADE | 2,490 mm | kg | 606 | 500 mm shoe |
| | | 2,690 mm | kg | 632 | 700 mm shoe |

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14. USER SERVICE DATA

| COMPARTMENT/ GREASE JOINT | TYPE OF FLUID OR LUBRICANT | No, OF C/G | SERVICE INTERVAL (hr) | | | | | | |
|-------------------------------------|----------------------------------|---------------|-----------------------|-----|----------|--------|------|------|------|
| | | | 10 | 50 | 250 | 500 | 1000 | 1500 | 2000 |
| Arm, Bucket Joint Pin ¹⁾ | Grease | 6(6) | F100 | W10 | | | | | |
| Boom, Arm Joint Pin ¹⁾ | Grease | 11(15) | F100 | | W10 | | | | |
| Swing Bearing | Grease | 2 | | W10 | | | | | |
| Pinion Gear (Swing) | Grease | 1 | | | | | | | |
| Swing Reduction Gear | GREASE | 1 | | | | | W10 | | |
| | GEAR OIL | 3ℓ | V | | | F | | | |
| Track Spring | GREASE | 2 | | | | W10 | | | |
| Travel Reduction Gear | GEAR OIL | 2x2ℓ | | | | F, V | | | |
| Engine Oil | Engine Oil (10W40) | 10ℓ | V | | Domestic | Export | | | |
| Hydraulic Oil Tank ^{2) 3)} | Hydraulic Oil | 145(97)ℓ | V | | | | | | |
| Fuel Tank ⁴⁾ | Diesel | 265(260)ℓ | V | D | | | | | |
| Pre Fuel Filter and Water Separator | Cartridge | 1 | D, V | | | | | | |
| Radiator ⁵⁾ | Coolant | 27.1ℓ | V | | | | | | |
| Hydraulic Oil Return Filter | Element | 1 | | | F | | | | |
| Pilot Filter | Element | 1 | | | F | | | | |
| Hydraulic Oil Suction Strainer | Strainer | 1 | | | | | | | C |
| Engine Oil Filter | Element | 1 | | | | | | | |
| Main Fuel Filter | Element | 1 | | | | | | | |
| Air Cleaner (Outer) | Element | 1 | | | | C | | | |
| Air Cleaner (Inner) | Element | 1 | | | | | | | |
| Air Conditioner Filter (Outer) | Element | 1 | | | | C | | | |
| Air Conditioner Filter (Inner) | Element | 1 | | | | C | | | |
| Dozer Blade Pin (Opt) | Grease | 6 | F100 | W10 | | | | | |
| Air Breather Filter | Element | 1 | | | | | | | |
| Fuel Cap Filter | Element | 1 | | | | | | | |
| Breaker Filter (Opt) | Catridge | 1 | | | | | | | |
| Air Compressor Filter (Opt) | Cartridge | 1 | | | | C | | | |

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| COMPARTMENT/ GREASE JOINT | TYPE OF FLUID OR LUBRICANT | No, OF C/G | SERVICE INTERVAL (hr) | | | | | | |
|--|----------------------------------|---------------|-----------------------|----|-----|-----|------|------|------|
| | | | 10 | 50 | 250 | 500 | 1000 | 1500 | 2000 |
| DEF (AdBlue) Filter | Element | 1 | | | | | | | |
| DEF (AdBlue) Tank | DEF | 19 ℓ | V | | | | | | |
| Radiator Core | Core | 1 | | | | C | | | |
| Fuel cooler Core | Core | 1 | | | | C | | | |
| Oil Cooler Core | Core | 1 | | | | C | | | |
| Intercooler Core | Core | 1 | | | | C | | | |
| Aircon Condenser Core | Core | 1 | | | | C | | | |
| Engine Breather Filter | Element | 1 | | | | | | | |
| V : Maintenance and Refill | | | | | | | | | |
| C : Cleaning | | | | | | | | | |
| D : Drain Water | | | | | | | | | |
| F : First Time Exchange Only | | | | | | | | | |
| F100 : Every 10 Hours For First 100 Hours | | | | | | | | | |
| W10 : Every 10 Hours If Operating In Water | | | | | | | | | |
| █ : Replacement On Every Interval | | | | | | | | | |
| 1) One piece BOOM(Two piece BOOM) | | | | | | | | | |
| 2) For Korea, replace every 4,000 hours | | | | | | | | | |
| 3) Total Tank Capacity(Level) | | | | | | | | | |
| 4) Total Tank Capacity(max. possible refueling volume) | | | | | | | | | |
| 5) For Korea, replace every 6,000 hours | | | | | | | | | |

15. CIRCUITS

- HYDRAULIC CIRCUIT : 950102-00258
- ELECTRIC CIRCUIT : 950102-00280

| | | | | |
|-------|-----------|---------|--|-------|
| MODEL | DX140LC-5 | DWG No. | | 39/39 |
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