

CHANGES	DETAILS	DATE	WRITE	APPROVE

DX450LCA-7M(T2) / DX450LC-7M(T3)

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1. GENERAL SPECIFICATION

DX450LCA-7M(T2)		UNIT	STD.	OPT. 1	OPT. 2	OPT. 3	OPT. 4
OPERATING WEIGHT		ton	44.3	44.3	44.4	44.1	-
ENGINE	RATED POWER (Gross)	kW/rpm	257/1800				
	MAX. TORQUE	N.m/rpm	1550/1200				
SYSTEM PRESSURE (Work / Travel)		bar	324(343)/324				
SWING SPEED (EFF. 98%)		rpm	9.1				
TRAVEL SPEED (High / Low) (EFF. 98%)		km/h	5.3/3.2				
GRADEABILITY		%(deg)	70(35%)				
GROUND PRESSURE		kg/cm ²	0.81	←	←	←	-
DIGGING FORCE(ISO)	BUCKET (Nor. / Press Up)	ton	27.6/29.2	27.6/29.2	27.6/29.2	27.6/29.2	-
	ARM (Nor. / Press Up)	ton	20.1/21.2	22.3/23.6	24.9/26.3	17.4/18.4	-
WORKING RANGE	MAX. DIGGING REACH	mm	11430	11130	10810	12120	-
	MAX. LOADING HEIGHT	mm	7810	7630	7485	8200	-
	MAX. DIGGING DEPTH	mm	7635	7355	6980	7355	-
	MAX. DIGGING HEIGHT	mm	10615	10420	10265	10420	-
	REAR SWING RADIUS	mm	3760	3760	3760	3760	-
	MIN. SWING RADIUS	mm	4475	4505	4495	4555	-
TRANSPORTATION DIMENSION	OVERALL LENGTH	mm	11740	11830	11865	11740	-
	OVERALL WIDTH (w/o Protector & Catwalk)	mm	3350	←	←	←	-
	OVERALL HEIGHT	mm	3465	3710	3695	3495	-
	GROUND CLEARANCE (w/o Grouser)	mm	600	←	←	←	-
	TRACK HEIGHT (w/o Grouser)	mm	1070	←	←	←	-
	TRACK LENGTH (with Grouser)	mm	5205	←	←	←	-
	GROUSER HEIGHT	mm	36	←	←	←	-
	TRACK GAUGE	mm	2750	←	←	←	-
	TUMBLER DISTANCE	mm	4250	←	←	←	-
OPTION ATTACHMENT	BOOM	mm	6700 / 6700HD				
	ARM	mm	2600 / 2950 / 3250 / 3250HD / 3950				
	BUCKET(SAE)	m ³	GP : 1.44, 1.68, 1.90, 2.16				
			H Class : 1.64, 1.92, 2.14, 2.42, 2.72 H+ Class : 2.14				
			S Class : 1.77, 2.02				
			X Class : 1.77				
	SHOE	mm	600TG / 750TG / 800TG / 900TG / 600DG				
COUNTER WEIGHT	kg	8000 / 9800					
Spec. Combination Criteria	STD	BOOM(6700HD), ARM(3250HD), BUCKET(2.14H), SHOE(600TG), CW(8000)					
	OPTION 1	BOOM(6700HD), ARM(2950), BUCKET(2.42H), SHOE(600TG), CW(8000)					
	OPTION 2	BOOM(6700HD), ARM(2600), BUCKET(2.42H), SHOE(600TG), CW(8000)					
	OPTION 3	BOOM(6700), ARM(3950), BUCKET(1.64H), SHOE(600TG), CW(8000)					

MODEL

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DX450LC-7M(T3)		UNIT	STD.	OPT. 1	OPT. 2	OPT. 3	OPT. 4
OPERATING WEIGHT		ton	44.4	44.3	44.4	44.1	-
ENGINE	RATED POWER (Gross)	kW/rpm	257/1800				
	MAX. TORQUE	N.m/rpm	1664/1400				
SYSTEM PRESSURE (Work / Travel)		bar	324(343)/324				
SWING SPEED (EFF. 98%)		rpm	9.1				
TRAVEL SPEED (High / Low) (EFF. 98%)		km/h	5.3/3.2				
GRADEABILITY		%(deg)	70(35%)				
GROUND PRESSURE		kg/cm ²	0.81	←	←	←	-
DIGGING FORCE(ISO)	BUCKET (Nor. / Press Up)	ton	27.6/29.2	27.6/29.2	27.6/29.2	27.6/29.2	-
	ARM (Nor. / Press Up)	ton	20.1/21.2	22.3/23.6	24.9/26.3	17.4/18.4	-
WORKING RANGE	MAX. DIGGING REACH	mm	11430	11130	10810	12120	-
	MAX. LOADING HEIGHT	mm	7810	7630	7485	8200	-
	MAX. DIGGING DEPTH	mm	7635	7355	6980	7355	-
	MAX. DIGGING HEIGHT	mm	10615	10420	10265	10420	-
	REAR SWING RADIUS	mm	3760	3760	3760	3760	-
	MIN. SWING RADIUS	mm	4475	4505	4495	4555	-
TRANSPORTATION DIMENSION	OVERALL LENGTH	mm	11740	11830	11865	11740	-
	OVERALL WIDTH (w/o Protector & Catwalk)	mm	3350	←	←	←	-
	OVERALL HEIGHT	mm	3465	3710	3695	3495	-
	GROUND CLEARANCE (w/o Grouser)	mm	600	←	←	←	-
	TRACK HEIGHT (w/o Grouser)	mm	1070	←	←	←	-
	TRACK LENGTH (with Grouser)	mm	5205	←	←	←	-
	GROUSER HEIGHT	mm	36	←	←	←	-
	TRACK GAUGE	mm	2750	←	←	←	-
	TUMBLER DISTANCE	mm	4250	←	←	←	-
OPTION ATTACHMENT	BOOM	mm	6700 / 6700HD				
	ARM	mm	2600 / 2950 / 3250 / 3250HD / 3950				
	BUCKET(SAE)	m ³	GP : 1.44, 1.68, 1.90, 2.16				
			H Class : 1.64, 1.92, 2.14, 2.42, 2.72 H+ Class : 2.14				
			S Class : 1.77, 2.02				
			X Class : 1.77				
	SHOE	mm	600TG / 750TG / 800TG / 900TG / 600DG				
COUNTER WEIGHT	kg	8000 / 9800					
Spec. Combination Criteria	STD	BOOM(6700HD), ARM(3250HD), BUCKET(2.14H), SHOE(600TG), CW(8000)					
	OPTION 1	BOOM(6700HD), ARM(2950), BUCKET(2.42H), SHOE(600TG), CW(8000)					
	OPTION 2	BOOM(6700HD), ARM(2600), BUCKET(2.42H), SHOE(600TG), CW(8000)					
	OPTION 3	BOOM(6700), ARM(3950), BUCKET(1.64H), SHOE(600TG), CW(8000)					

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2. ENGINE SYSTEM (T2)

1) ENGINE

RATED HORSE POWER

Gross (ISO14396, SAE J1995) : 257 kW (349.5 PS, 344.5 HP) @ 1,800 rpm

Net (ISO9249, SAE J1349) : 253 kW (344.0 PS, 339.1 HP) @ 1,800 rpm

MAX. TORQUE : 1550 N.m (158.1 kgf.m) @ 1200rpm

FUEL CONSUMPTION : 217.5 g/kWh @ RATED SPEED

TYPE : 4-CYCLE WATER-COOLED
WASTE GATE TURBOCHARGE
MECHANICAL DIRECT INJECTION

DISPLACEMENT : 11,051cc

No. OF CYLINDER : 6

BORE DIA. & STROKE : $\Phi 123 \times 155$ mm

COMPRESSION RATIO : 18.2:1

HIGH IDLE SPEED : 2000 + 50 rpm

LOW IDLE SPEED : 1000 \pm 25 rpm

STARTING MOTOR : 24 V x 7.0 kW

DRY WEIGHT : 1024 kg

2) ALTERNATOR

VOLTAGE : 28 V

RATING AMPERES : 80 A

3) BATTERY

SYSTEM VOLTAGE : 24 V

QUANTITY : 12 V x 2

CAPACITY (AMP) : 200 AH

4) PUMP DRIVE

DRIVE TYPE : FLEXIBLE COUPLING JOINT

PERMISSIBLE TORQUE & RPM : 500 kgf.m, 3,600 rpm

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5) AIR CLEANER

TYPE : *DOUBLE ELEMENT*
FILTRATION AREA : *19.0 m2 (OUTER), 2.11 m2 (INNER)*
SIZE (DIA.x LENGTH) : *381 mm x 530 mm*
FILTERING EFFICENCY : *OVER 99.9% AT FULL LIFE*

6) MUFFLER

TYPE : *MUFFLER*
SIZE (D X L) : *Φ400mm X 960mm*

7) FAN

- FOR RADIATOR

TYPE : *SUCKER, 8-BLADE, PLASTIC*
SIZE : *Φ762 mm*
RPM AT RATED ENGINE RPM : *1440 rpm*

- FOR OIL COOLER

TYPE : *SUCKER, 11-BLADE, PLASTIC*
SIZE : *Φ704 mm*
RPM AT RATED ENGINE RPM : *1550 rpm*

8) RADIATOR

TYPE : *BAR PLATE*

9) OIL COOLER

TYPE : *BAR PLATE*

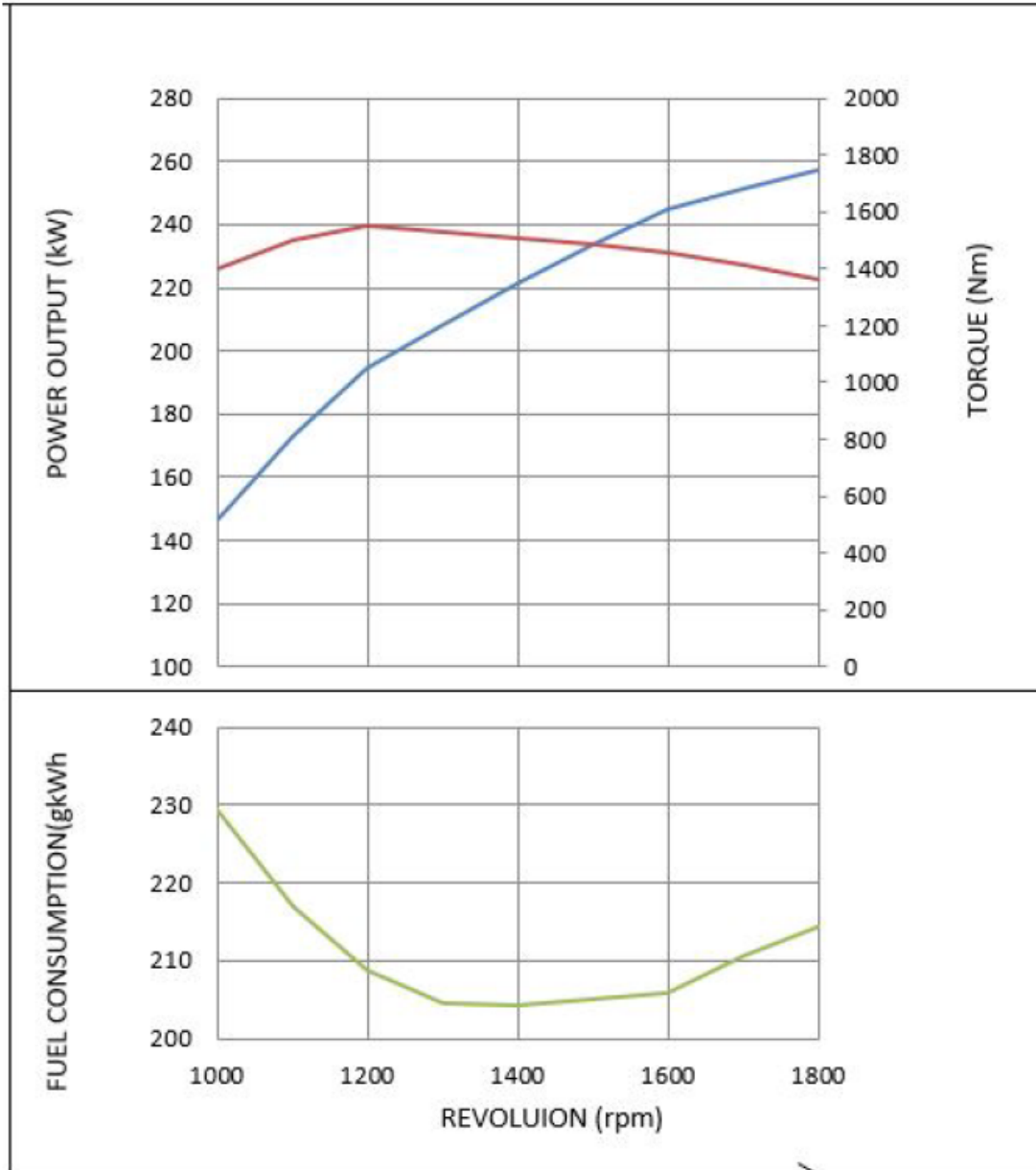
10) CHARGE AIR COOLER

TYPE : *BAR PLATE*

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- ENGINE PERFORMANCE CURVE

CONDITION	SPECIFICATION
BAROMETRIC PRESSURE	760 mmHg (25 °C)
COOLING FAN	NOT INSTALLED
ALTERNATOR	NOT INSTALLED
AIR CLEANER	INSTALLED
MUFFLER	INSTALLED



PERFORMANCE STANDARARD	SAE J 1995
POWER (MAX , <u>RATED</u>)	257 kW / 1800 rpm
MAX. TORQUE	1550 N.m / 1200 rpm
FUEL CONSUMPTION (MAX , <u>RATED</u>)	217.5 g/kWh (160 g/ps.h)

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3. ENGINE SYSTEM(T3)

1) ENGINE

RATED HORSE POWER

Gross (ISO14396, SAE J1995) : 257 kW (349.5 PS, 344.4 HP) @ 1,800 rpm

Net (ISO9249, SAE J1349) : 251.5 kW (342.3 PS, 337.3 HP) @ 1,800 rpm

MAX. TORQUE : 1664 N.m (169.6 kgf.m) @ 1400 rpm

FUEL CONSUMPTION : 220 g/kWh @ RATED SPEED

TYPE : 4-CYCLE, WATER-COOLED
Waste-gate controlled turbocharger,
Unit injector

DISPLACEMENT : 12700 cc

No. OF CYLINDER : 6

BORE DIA. & STROKE : $\Phi 130 \times 160$ mm

COMPRESSION RATIO : 17.3:1

HIGH IDLE SPEED : 1900 \pm 25 rpm

LOW IDLE SPEED : 750 \pm 20 rpm

STARTING MOTOR : 24 V x 6.0 kW

DRY WEIGHT : 1050 kg

2) ALTERNATOR

VOLTAGE : 28 V

RATING AMPERES : 150 A

3) BATTERY

SYSTEM VOLTAGE : 24 V

QUANTITY : 12 V x 2

CAPACITY (AMP) : 200 AH

4) PUMP DRIVE

DRIVE TYPE : FLEXIBLE COUPLING JOINT

PERMISSIBLE TORQUE & RPM : 500 kgf.m, 3,600 rpm

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5) AIR CLEANER

TYPE : *DOUBLE ELEMENT*
FILTRATION AREA : *19.0 m2 (OUTER), 2.11 m2 (INNER)*
SIZE (DIA.x LENGTH) : *381 mm x 530 mm*
FILTERING EFFICENCY : *OVER 99.9% AT FULL LIFE*

6) AFTER TREATMENT

TYPE : *MUFFLER*
SIZE (D X L) : *Φ400mm X 960mm*

7) FAN

- FOR RADIATOR

TYPE : *SUCKER, 11-BLADE, PLASTIC*
SIZE : *Φ762 mm*
RPM AT RATED ENGINE RPM : *1350 rpm*

- FOR OIL COOLER

TYPE : *SUCKER, 11-BLADE, PLASTIC*
SIZE : *Φ704 mm*
RPM AT RATED ENGINE RPM : *1550 rpm*

8) RADIATOR

TYPE : *BAR PLATE*

9) OIL COOLER

TYPE : *BAR PLATE*

10) CHARGE AIR COOLER

TYPE : *BAR PLATE*

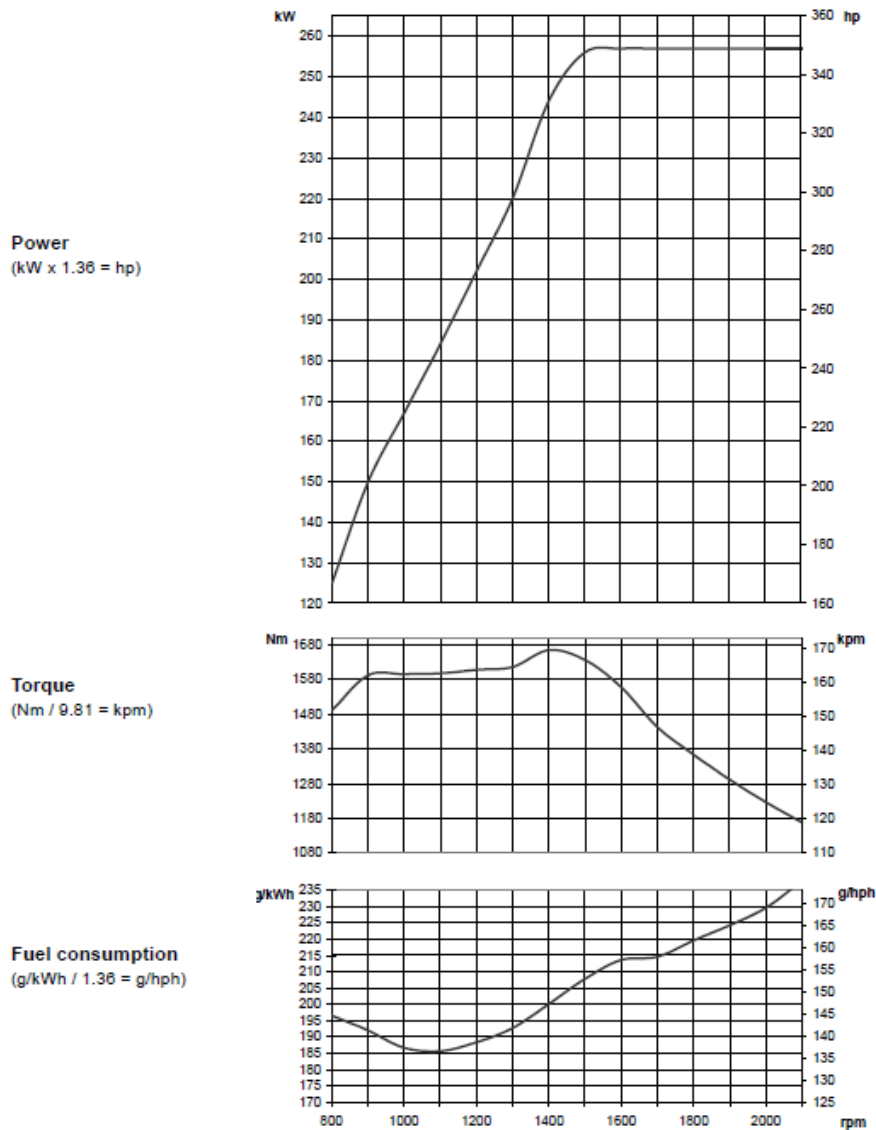
11) FUEL COOLER

TYPE : *DRAWN CUP*

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- ENGINE PERFORMANCE CURVE

CONDITION	SPECIFICATION
BAROMETRIC PRESSURE	760 mmHg (25 °C)
COOLING FAN	NOT INSTALLED
ALTERNATOR	NOT INSTALLED
AIR CLEANER	INSTALLED
MUFFLER	INSTALLED



PERFORMANCE STANDARARD	SAE J 1995
POWER (MAX , <u>RATED</u>)	257 kW / 1800 rpm
MAX. TORQUE	1664 N.m / 1400 rpm
FUEL CONSUMPTION (MAX , <u>RATED</u>)	220 g/kWh (161.6 g/ps.h)

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4. HYDRAULIC SYSTEM

1) MAIN PUMP

TYPE : PARALLEL, BENT AXIS, AXIAL PISTON
 QUANTITY : 2
 DISPLACEMENT : 200 cc/rev
 MAX. FLOW RATE(Theoretical) : 2 x 360 Liter/min, @ 1800rpm
 WEIGHT : 193 kg

2) PILOT PUMP

TYPE : GEAR
 DISPLACEMENT : 13.4 cc/rev($i=0.804$)
 MAX. FLOW RATE : 24 Liter/min @ 1800rpm
 RELIEF VALVE PRESSURE : 40 bar(40.8 kgf/cm^2)

3) CONTROL VALVE

TYPE : PILOT CONTROL
 SPOOL DIA. : $\Phi 35 \text{ mm}$
 SPOOL ARRANGEMENT : TRAVEL R, OPT, SWING, BOOM2, ARM1
 TRAVEL L, BUCKET, BOOM1, ARM2
 RELIEF VALVE PRESSURE : 370 bar(377 kgf/cm^2)
 PORT RELIEF VALVE PRESSURE: 380 bar(387.5 kgf/cm^2)
 ACCESSARY VALVES : BY-PASS CUT, BOOM HOLDING VALVE,
 ARM HOLDING VALVE, TRAVEL STRAIGHT
 WEIGHT : 444 kg

4) REMOTE CONTROL VALVE; WORK/SWING

TYPE : PILOT, 1-STAGE, 3-BUTTON
 P vs STROKE CHARACTERISTIC: 6.9 bar (7.0 kgf/cm^2) @ 1.0mm
 27.5 bar (28.0 kgf/cm^2) @ 6.5mm
 WEIGHT : 2.4 kg

5) REMOTE CONTROL VALVE; TRAVEL

MAKER & MODEL : EATON, JA9D3000
 TYPE : PILOT, 1-STAGE, WITH DAMPER
 P vs STROKE CHARACTERISTIC: 7.4 bar (7.5 kgf/cm^2) @ 1.0mm

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WEIGHT : 24.5 bar (25.0 kgf/cm²) @ 4.3mm
7.8 kg

6) FAN DRIVE PUMP

TYPE : AXIAL PISTON
DISPLACEMENT : 28.0 cc/rev
MAX. SETTING PRESSURE : 280 bar (285.5 kgf/cm²)
DIRECTION OF ROTATION : CLOCKWISE
WEIGHT : 15 kg

7) FAN DRIVE MOTOR (OIL COOLER FAN)

TYPE : GEAR
DISPLACEMENT : 19.09 cc/rev
MAX. OPERATING PRESSURE : 212 bar (216 kgf/cm²)
DIRECTION OF ROTATION : CLOCKWISE
WEIGHT : 6.722 kg

8) PACKAGE SOLENOID VALVE

TYPE : DC 24V, 4-SOLENOID VALVE
FUNCTION : SAFETY CUT OFF, TRAVEL 2-SPEED
HAMMER OPERATING,
BREAKER/SHEAR SELECT

9) ACCUMULATOR

NITROGEN CHARGE PRESSURE: 10 bar (10 kgf/cm²)
VOLUME : 0.32 Liter
WEIGHT : 1.6 kg

10) 12 BY-PASS VALVE

12-1) BY-PASS VALVE (C1)

SIZE : 2-INCH
CRACKING PRESSURE : 3 bar (3 kgf/cm²) @ 10 Liter/min

12-2) BY-PASS VALVE (C2)

SIZE : 2-INCH
CRACKING PRESSURE : 6 bar (6 kgf/cm²) @ 10 Liter/min

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11) HYDRAULIC FILTERS

11-1) RETURN FILTER

FILTER MATERIAL	:	GLASS FIBER
QUANTITY	:	2
FILTRATION AREA(SIZE)	:	1.85 m ² (Φ 152 x 415 mm)
FILTRATION EFFICIENCY&RATING	:	99.5 % (β ₁₀ = 200), 10μ
BY-PASS CRACKING PRESSURE	:	1.5 bar (1.5 kgf/cm ²) @ 40 Liter/min

11-2) PILOT FILTER

FILTER MATERIAL	:	SYNTHETIC FIBER
FILTRATION SIZE	:	Φ 48.8 x 84 mm
FILTRATION EFFICIENCY&RATING	:	99.5 % (β ₁₀ = 200), 10μ
BYPASS CRACKING PRESSURE	:	1.7 bar (1.7 kgf/cm ²)

11-3) SUCTION STRAINER

FILTRATION SIZE	:	0.54m ² (Ø200 x 190 mm)
FILTRATION RATING	:	177μ (80 mesh),

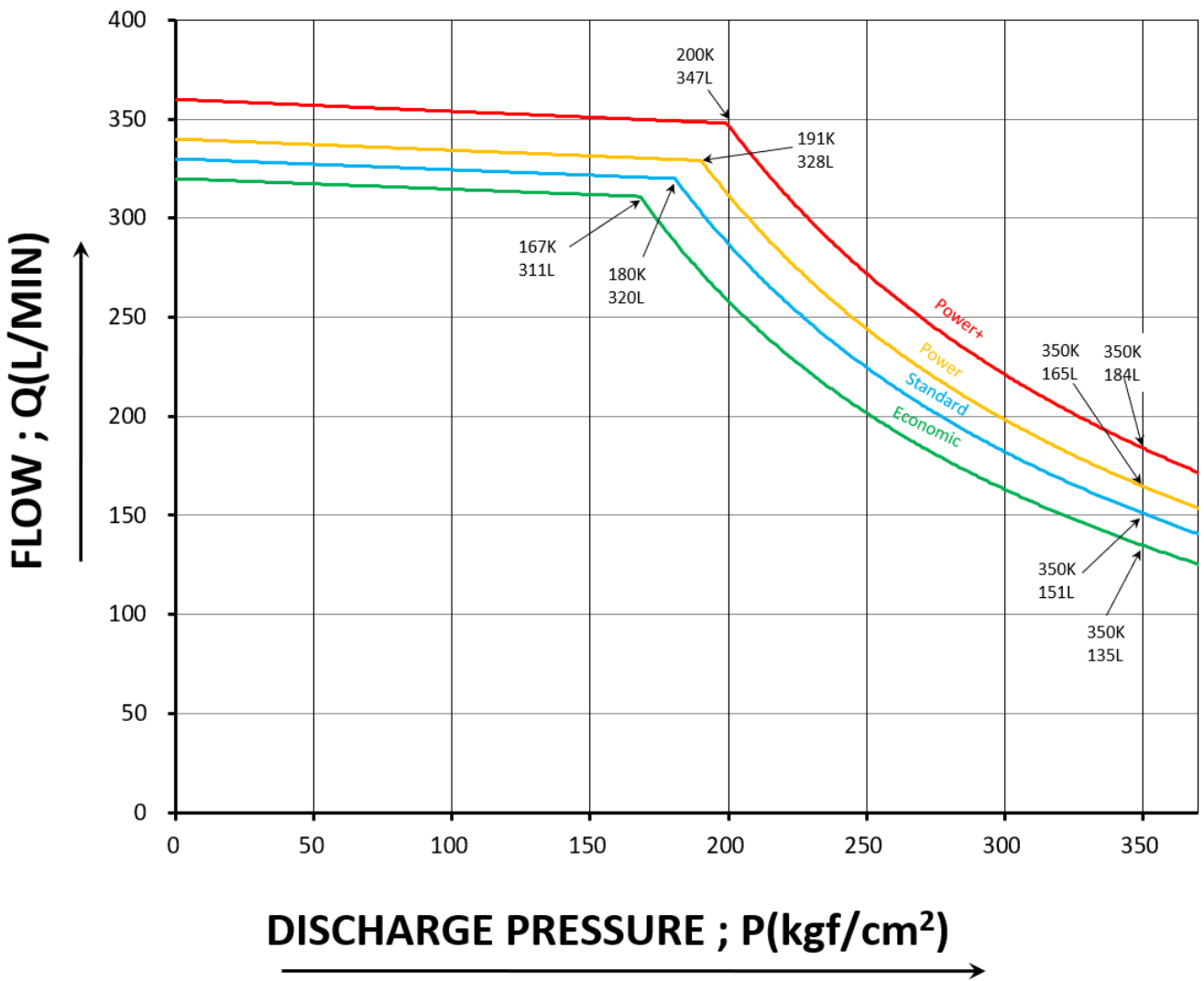
12) AIR BREATHER

CRACKING PRESSURE	:	0.45 bar (0.46 kgf/cm ²) @ 1 Liter/min
VACUUM RELIEF PRESSURE	:	0.04 ~ 0.05 bar @ 1 Liter/min
FILTRATION EFFICIENCY&RATING	:	99.5 % (β ₁₀ = 200), 10μ
FILTRATION SIZE	:	590 cm ² (Ø45 x 67 mm)

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-PUMP PERFORMANCE CURVE(T2/T3)

CONTENT		UNIT	VALUE
P+ MODE	INPUT rpm	rpm	1800
	INPUT POWER	kW	261
P MODE	INPUT rpm	rpm	1700
	INPUT POWER	kW	235
S MODE	INPUT rpm	rpm	1650
	INPUT POWER	kW	217
E MODE	INPUT rpm	rpm	1600
	INPUT POWER	kW	195



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5. SWING MECHANISM

1) SWING MOTOR

TYPE	:	<i>AXIAL PISTON</i>
DISPLACEMENT	:	<i>260 cc/rev</i>
CROSSOVER RELIEF VALVE SETTING	:	<i>275 bar (280 kgf/cm²)</i>
MAX. SUPPLY FLOW	:	<i>342 Liter/min @ 1,800 rpm</i>
MOTOR SHAFT SPEED	:	<i>1,316 rpm</i>
MOTOR SHAFT TORQUE	:	<i>116 kgf.m (1,138 N.m)</i>
ACCESSARY VALVES	:	<i>SWING REACTIONLESS VALVE</i>

2) SWING REDUCTION GEAR

DRIVE TYPE	:	<i>2-STAGE PLANETARY GEAR</i>
REDUCTION RATIO	:	<i>21.968</i>
MAX. OUTPUT SPEED	:	<i>59.9 rpm</i>
MAX. OUTPUT TORQUE	:	<i>2,545 kgf.m (25.0 kN.m)</i>
WEIGHT (INCLUDED MOTOR)	:	<i>476 kg</i>

3) PINION GEAR

TYPE	:	<i>SPUR GEAR</i>
GEAR P.C.D.	:	<i>Φ196 mm</i>
No. OF TEETH	:	<i>14</i>
MODULE	:	<i>14</i>

4) SWING BEARING

TYPE	:	<i>BALL BEARING, INTERNAL GEAR</i>
GEAR P.C.D.	:	<i>Φ1260 mm</i>
No. OF TEETH	:	<i>90</i>
BALL DIA.	:	<i>Φ50.8 mm</i>
RACE O.D.	:	<i>Φ1550 mm</i>
RACE HEIGHT	:	<i>132 mm</i>
STATIC THRUST LOAD	:	<i>925,734 kg</i>
WEIGHT	:	<i>499 kg</i>

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5) SWING PERFORMANCE

MAX. SWING SPEED (Theoretical) : 9.3 rpm
MAX. SWING SPEED (EFF.=0.98) : 9.1 rpm
MAX. SWING TORQUE (Theoretical) : 16,360 kgf.m (160 kN.m)
MAX. SWING TORQUE (EFF.=0.81) : 13,250 kgf.m (130 kN.m)

6) PARKING BRAKE

CONTROL TYPE : PILOT PRESSURE, MECHANICAL
BRAKE TORQUE : 120 kgf.m (1,177 N.m)
BRAKE RELEASE PRESSURE : 26 bar (26 kgf/cm²)

7) MOTOR ACCESSARY

SELECT V/V CRACKING PRESSURE : 13 bar (13 kgf/cm²)
BRAKE TIME DELAYER : 6.5 (+1.5/-1.5) sec

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6. TRAVEL SYSTEM

1) TRAVEL MOTOR

TYPE	:	AXIAL PISTON, 2-SPEED
DISPLACEMENT	:	262.1/158.9 cc/rev
CROSSOVER RELIEF VALVE SETTING	:	343 bar (350 kgf/cm ²)
MAX. SUPPLY FLOW	:	342 Liter/min @ 1,800 rpm
MOTOR SHAFT SPEED	:	1,306 / 2,154 rpm
MOTOR SHAFT TORQUE	:	146 / 89 kgf.m (1,432 / 873 N.m)
WEIGHT	:	

2) REDUCTION GEAR

TYPE	:	3-STAGE PLANETERY GEAR
REDUCTION GEAR RATIO	:	54.467
MAX. OUTPUT SPEED	:	24.0 / 39.5 rpm
MAX. OUTPUT TORQUE	:	7,498 / 4,546 kgf.m (73.5 / 44.6 kN.m)
WEIGHT (INCLUDE MOTOR)	:	409 kg

3) SPROCKET

SPROCKET P.C.D.	:	Φ732.47 mm
TRACK LINK PITCH	:	215.9 mm
No. OF TEETH	:	21
WEIGHT	:	87 kg

4) TRAVELLING PERFORMANCE

TRAVELLING SPEED (Theoretical):	:	5.4 / 3.3 km/hr
TRAVELLING SPEED (EFF.= 98%):	:	5.3 / 3.2 km/hr
TRACTION FORCE (Theoretical) :	:	41.0 / 24.8 ton.f (402 / 243 kN)
TRACTION FORCE (EFF.=81%) :	:	33.2 / 20.1 ton.f (326 / 197 kN)
GRADEABILITY	:	35° (70 %)

5) PARKING BRAKE

CONTROL TYPE	:	MAIN PRESSURE, MECHANICAL
BRAKE TORQUE	:	87 kgf.m (853 N.m)
BRAKE RELEASE PRESSURE	:	8 bar (8.2 ± 1.5 kgf/cm ²)

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7. UNDER CARRIAGE

1) RECOIL MECHANISM

TYPE	:	<i>HYDRAULIC ADJUSTED</i>
RECOIL SPRING PRELOAD	:	<i>24,380 kg</i>
RECOIL SPRING MAX. LOAD	:	<i>35,150 kg</i>
RECOIL SPRING STROKE	:	<i>54 mm</i>
ADJUSTER TYPE	:	<i>GREASE CYLINDER</i>
WEIGHT	:	<i>292 kg</i>

2) ROLLERS ; LOWER

FLANGE TYPE	:	<i>SINGLE</i>
Q'TY PER SIDE	:	<i>9</i>
DIA.	:	<i>Φ200 mm</i>
WEIGHT	:	<i>80 kg</i>

3) ROLLERS ; UPPER

FLANGE TYPE	:	<i>SINGLE</i>
Q'TY PER SIDE	:	<i>2</i>
DIA.	:	<i>Φ180 mm</i>
WEIGHT	:	<i>38.3 kg</i>

4) FRONT IDLER

DIA.	:	<i>Φ590 mm</i>
WEIGHT	:	<i>248 kg</i>

5) TRACK LINK

No. OF LINK PER SIDE	:	<i>50</i>
LINK PITCH	:	<i>215.9 mm</i>
PIN DIA.	:	<i>Φ46.8 mm</i>
TUMBLER DISTANCE	:	<i>4,250 mm</i>
TRACK GAUGE	:	<i>2,750 mm / 2,400mm(Narrow)</i>
WEIGHT (600mmTG, Included shoe)	:	<i>2503 kg</i>
WEIGHT (750mmTG, Included shoe)	:	<i>2865 kg</i>
WEIGHT (800mmTG, Included shoe)	:	<i>2986 kg</i>
WEIGHT (900mmTG, Included shoe)	:	<i>3227 kg</i>
WEIGHT (600mmDG, Included shoe)	:	<i>2529 kg</i>

MODEL	DX450LCA-7M(T2) DX450LC-7M(T3)	DWG No		17/31
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6) TRACK SHOE

No. OF SHOE PER SIDE : 50

SHOE WIDTH (mm)	GROUND PRESSURE kgf/cm ² (psi)	MACHINE WEIGHT (ton)
STD. 600TG	0.81 (11.52)	44.3
OPT. 750TG	0.61 (9.39)	45.1
OPT. 800TG	0.62 (8.82)	45.3
OPT. 900TG	0.56 (7.97)	45.8
OPT. 600DG	0.81 (11.52)	44.4

*DX450LCA-7M(T2)

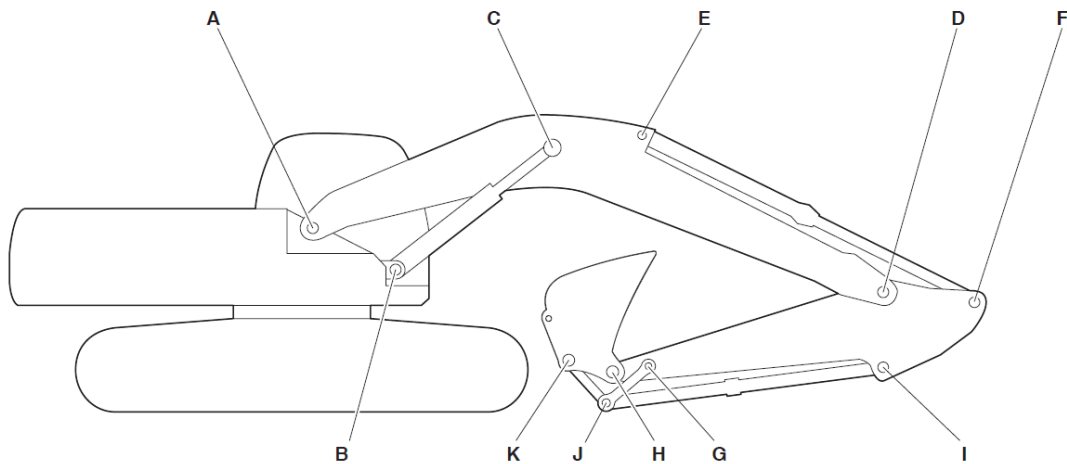
8. HYDRAULIC CYLINDERS

	BOOM	ARM	BUCKET
QUANTITY	2	1	1
BORE (Φ)	170	180	160
STROKE (mm)	1485	1820	1320
ROD DIA. (Φ)	115	120	110
CLOSED LENGTH (mm)	2130	2540	1950
HEAD END CUSHION	X	O	X
ROD END CUSHION	O	O	O
WEIGHT (kg)	385	520	340

MODEL	DX450LCA-7M(T2) DX450LC-7M(T3)	DWG No		18/31
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9. FRONT

1) FRONT LINK PIN SIZES



POINT	BASIC		
	DIA. (mm)	LENGTH (mm)	WEIGHT (kg)
A	120	1131	105.0
B	110	309	24.5
C	120	1009	89.0
D	120	642	58.0
E	110	309	24.5
F	110	311	25.0
G	100	553	35.0
H	100	709	52.5
I	110	302	24.5
J	110	564	42.5
K	100	658	48.5

MODEL

DX450LCA-7M(T2)
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2) FRONT ATTACHMENTS

2-1) BOOM

	LENGTH (mm)	WEIGHT (kg)
STANDARD	6700	3100
HEAVY DUTY	6700	3169

[NOTE]

1. THE WEIGHT INCLUDES BOOM WELDMENT AND BUSHES AS WELL.

2-2) ARM

ARM	LENGTH (mm)	WEIGHT (kg)	DIGGING FORCE (NOM./PRESS.UP, tonf)
STANDARD	3250	1498	[SAE] 19.9 / 21.0 , [ISO] 20.1 / 21.2
HEAVY DUTY	3250	1646	[SAE] 19.9 / 21.0 , [ISO] 20.1 / 21.2
SHORT(2.6m)	2600	1415	[SAE] 24.6 / 26.0 , [ISO] 24.9 / 26.3
SHORT(2.9m)	2950	1469	[SAE] 22.1 / 23.3 , [ISO] 22.3 / 23.6
LONG(3.95m)	3950	1749	[SAE] 17.3 / 18.2 , [ISO] 17.4 / 18.4

2-3) BUCKET

BUCKET	CAPACITY (m ³)		BUCKET WIDTH (mm)		DIGGING FORCE (NOM./PRESS.UP, tonf)
	CECE	SAE	W/ CUTTER	W/O CUTTER	
GP	1.29	1.44	1273	1192	[SAE] 24.2 / 25.6 [ISO] 27.1 / 28.7
	1.50	1.68	1429	1348	
	1.7	1.9	1547	1466	
	1.92	2.16	1745	1664	
R2H	1.49	1.64	1290	1256	[SAE] 25.0 / 26.4 [ISO] 27.6 / 29.2
	1.72	1.92	1464	1430	
	1.91	2.14	1600	1566	
	2.16	2.42	1772	1738	
	2.42	2.72	1960	1926	
R2H+	1.92	2.14	1600	1566	
R2S	1.6	1.77	1364	1364	[SAE] 24.3 / 25.7 [ISO] 27.3 / 28.9
	1.81	2.02	1518	1518	
R2X	1.6	1.77	1384	1384	
ROCK	1.31	1.51		1497	[SAE] 24.2 / 25.6 [ISO] 28.1 / 29.7

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2-4) BUCKET & ARM COMBINATIONS

[STANDARD TRACK]

DX450LCA-7 DX450LC-7M					Track	Standard Track								
					C/W (kg)	8000								9800
					Shoe (mm)	600 TG								
Bucket Type	Capacity (m ³)		Bucket Width (mm)		Weight (kg)	6.7m HD BOOM			6.7m Boom					
	SAE	CECE	W/O Cutter	With Cutter		2.6m ARM	2.95m ARM	3.25m HD ARM	2.6m ARM	2.95m ARM	3.25m ARM	3.95m ARM	3.95m ARM	
General Purpose	1.44	1.29	1192	1273	1439	A	A	A	A	A	A	A	A	
	1.68	1.50	1348	1429	1541	A	A	A	A	A	A	A	A	
	1.9	1.7	1466	1547	1654	A	A	A	A	A	A	B	A	
	2.16	1.92	1664	1745	1782	A	A	B	A	A	B	C	A	
H Class	1.64	1.49	1256	1290	1601	A	A	A	A	A	A	A	A	
	1.92	1.72	1430	1464	1729	A	A	A	A	A	A	B	A	
	2.14	1.91	1566	1600	1860	A	A	B	A	A	B	C	A	
	2.42	2.16	1738	1772	1986	B	B	C	B	B	C	C	B	
H+ Class	2.14	1.92	1566	1600	1960	A	A	B	A	A	B	C	B	
S Class	1.77	1.59	1364	1364	2128	A	A	A	A	A	A	B	A	
	2.02	1.81	1518	1518	2266	A	A	B	A	A	B	C	B	
ROCK	1.51	1.31	1497	-	1643	A	A	A	A	A	A	A	A	

MODEL

DX450LCA-7M(T2)
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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) TWO-WAY (PE3C) PIPING

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

3-3) ROTATING PIPING (PERO) PIPING

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

3-4) AGS SYSTEM (AUTO GREASING SYSTEM)

APPLIED GREASE SPEC

- SPECIES: LITHIUM EP GREASE OR EQUIVALENT
- NLGI GRADE : 2 GRADE

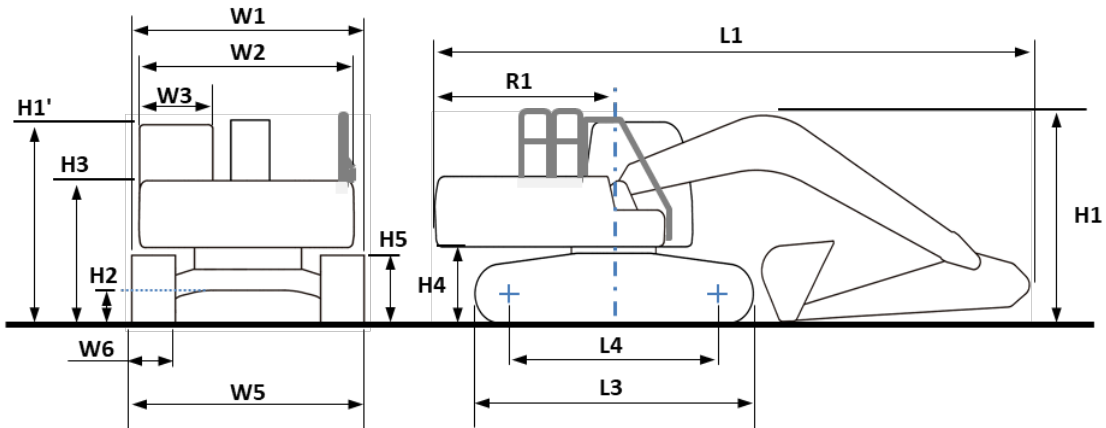
PUMP

- MAX. OPERATING PRESSURE : 300 BAR
- RESEVIOR CAPACITY : 6.3 LITER
- OPERATING TIME : 12MIN
- OPERATING INTERVAL TIME : 1HR
- IP GRADE : IP 56

MODEL	DX450LCA-7M(T2) DX450LC-7M(T3)	DWG No		22/31
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10. DIMENSIONS AND WORKING RANGE

1) DIMENSIONS [METRIC]

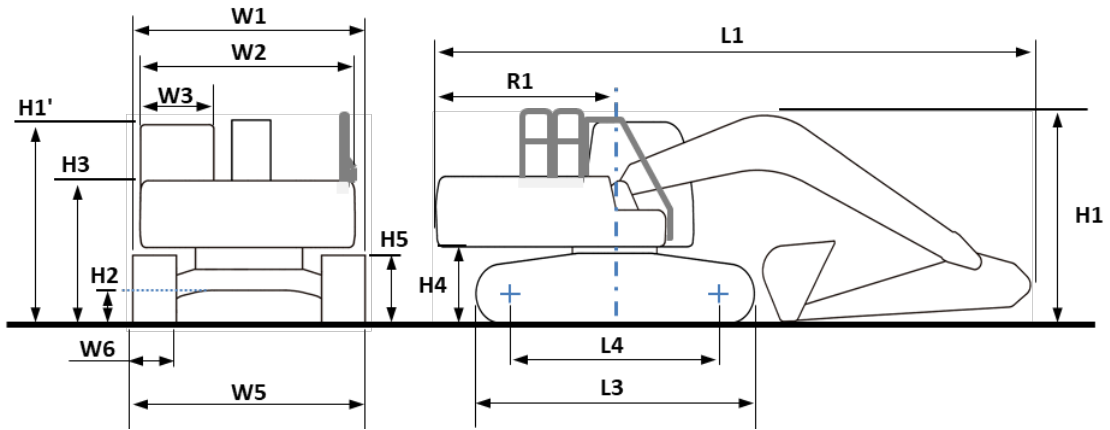


Model		VMK45(T2/T3) [mm]					
Dimension		STD	OPT1	OPT2	OPT3		
Boom		6.7 HD	6.7 HD	6.7 HD	6.7		
Arm		3.25 HD	2.95	2.6	3.95		
Bucket		2.14 R2H	2.42 R2H	2.42 R2H	1.64 R2H		
Undercarriage (Track+Grouser)		LC+600TG	LC+600TG	LC+600TG	LC+600TG		
Overall	L1	Overall Length		11,740	11,830	11,865	11,740
	H1	Overall Height	Boom	3,355	3,570	3,595	3,390
			Hose	3,465	3,710	3,695	3,495
			Cabin	3,210	3,210	3,210	3,210
	W1	Overall Width(SHIPPING)		3,350	3,350	3,350	3,350
	R1	Rear Swing Radius		3,760	3,760	3,760	3,760
H2	Ground Clearance*		*585	*585	*585	*585	
Swing Body	W2	House Width	Frame only	2,990	2,990	2,990	2,990
			w/Catwalk	3,296	3,296	3,296	3,296
			w/Protector	3,103	3,103	3,103	3,103
	W3	Cabin Width		1,010	1,010	1,010	1,010
	H3	Height Over Cover		2360	2360	2360	2360
H4	Counterweight Clearance*		*1270	*1270	*1270	*1270	
Undercarriage	H5	Track Height*		*1070	*1070	*1070	*1070
	L3	Track Length		*5200	*5200	*5200	*5200
	L4	Tumbler Distance		4,250	4,250	4,250	4,250
	W5	Undercarriage Width	STD	3,350	3,350	3,350	3,350
	W6	Shoe Width		600	600	600	600
	-	Grouser Height		36	36	36	36
CAB	-	Cabin Height (H1'-H3)		853	853	853	853

* : without grouser

MODEL	DX450LCA-7M(T2) DX450LC-7M(T3)	DWG No		23/31
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2) DIMENSIONS [FEET]

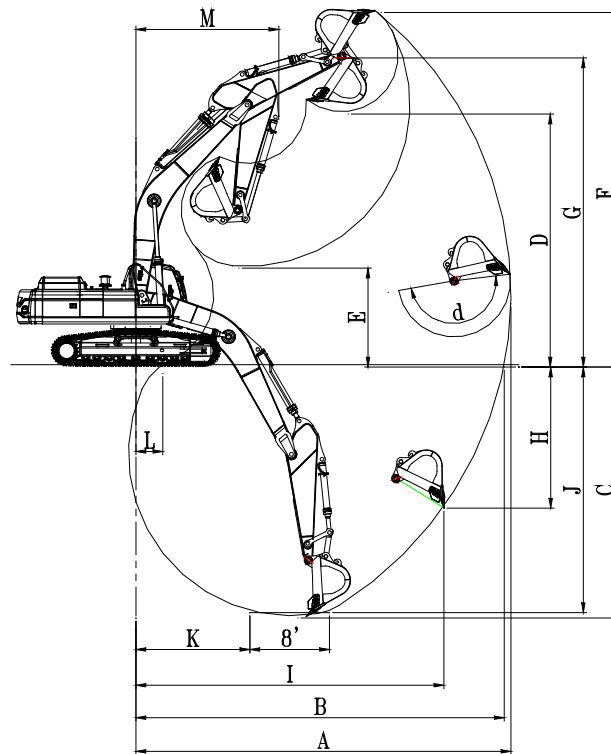


Model		VMK45(T2/T3) [feet]						
Dimension		STD	OPT1	OPT2	OPT3			
Boom		6.7 HD	6.7 HD	6.7 HD	6.7			
Arm		3.25 HD	2.95	2.6	3.95			
Bucket		2.14 R2H	2.42 R2H	2.42 R2H	1.64 R2H			
Undercarriage (Track+Grouser)		LC+600TG	LC+600TG	LC+600TG	LC+600TG			
Overall	L1	Overall Length		38' 6"	38' 10"	38' 11"	38' 6"	
	H1	Overall Height		Boom	11' 0"	11' 9"	11' 10"	11' 1"
				Hose	11' 4"	12' 2"	12' 1"	11' 6"
				Cabin	10' 6"	10' 6"	10' 6"	10' 6"
	W1	Overall Width(SHIPPING)		10' 12"	10' 12"	10' 12"	10' 12"	
	R1	Rear Swing Radius		12' 4"	12' 4"	12' 4"	12' 4"	
H2	Ground Clearance*		1' 11"	1' 11"	1' 11"	1' 11"		
Swing Body	W2	House Width		Frame only	9' 10"	9' 10"	9' 10"	9' 10"
				w/Catwalk	10' 10"	10' 10"	10' 10"	10' 10"
				w/Protector	10' 2"	10' 2"	10' 2"	10' 2"
	W3	Cabin Width		3' 4"	3' 4"	3' 4"	3' 4"	
	H3	Height Over Cover		7' 9"	7' 9"	7' 9"	7' 9"	
H4	Counterweight Clearance*		4' 2"	4' 2"	4' 2"	4' 2"		
Undercarriage	H5	Track Height*		3' 6"	3' 6"	3' 6"	3' 6"	
	L3	Track Length		17' 1"	17' 1"	17' 1"	17' 1"	
	L4	Tumbler Distance		13' 11"	13' 11"	13' 11"	13' 11"	
	W5	Undercarriage Width	STD	10' 12"	10' 12"	10' 12"	10' 12"	
	W6	Shoe Width		1' 12"	1' 12"	1' 12"	1' 12"	
	-	Grouser Height		0' 1"	0' 1"	0' 1"	0' 1"	
CAB	-	Cabin Height (H1'-H3)		2' 10"	2' 10"	2' 10"	2' 10"	

* : without grouser

MODEL	DX450LCA-7M(T2) DX450LC-7M(T3)	DWG No		24/31
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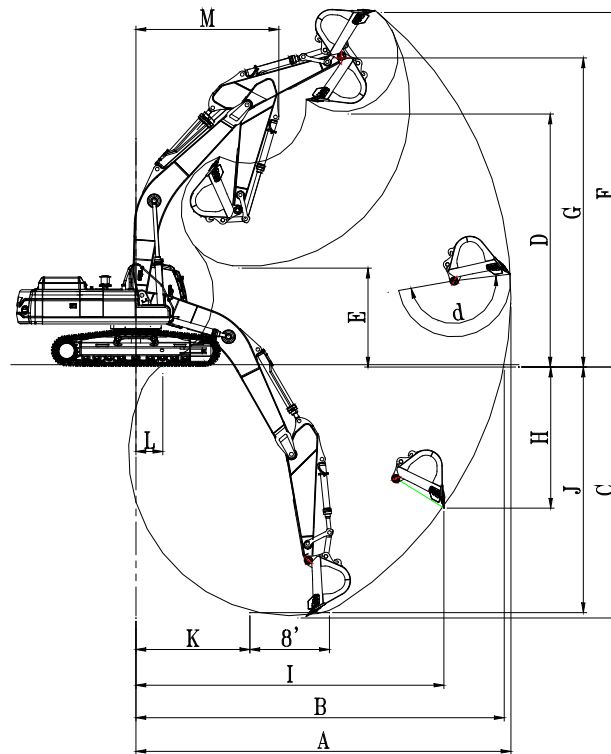
3) WORKING RANGE [METRIC]



BOOM TYPE (ONE PIECE)	(mm)	6700				
ARM TYPE	(mm)	3250	2600	2950	3950	
BUCKET TYPE (SAE)	(m ³)	2.14 R2H	2.42 R2H	2.14 R2H	1.64 R2H	
MAX. DIGGING REACH	(mm)	A	11430	10810	11130	12120
MAX. DIGGING REACH (GROUND)	(mm)	B	11210	10575	10905	11910
MAX. DIGGING DEPTH	(mm)	C	7635	6980	7355	8335
MAX. LOADING HEIGHT	(mm)	D	7810	7485	7630	8200
MIN. LOADING HEIGHT	(mm)	E	3095	3760	3395	2395
MAX. DIGGING HEIGHT	(mm)	F	10615	10265	10420	11045
MAX. BUCKET PIN HEIGHT	(mm)	G	9485	9160	9310	9875
MAX. VERTICAL WALL DEPTH	(mm)	H	3075	2430	2755	3815
MAX. RADIUS VERTICAL	(mm)	I	10105	9735	9935	10475
MAX. DEPTH TO 8' LINE	(mm)	J	7455	6755	7155	8185
MIN. RADIUS 8' LINE	(mm)	K	3415	3370	3380	3465
MIN. DIGGING REACH	(mm)	L	800	2390	1780	-205
MIN. SWING RADIUS	(mm)	M	4475	4495	4505	4555
BUCKET ANGLE	(deg)	d	177	177	177	177

MODEL	DX450LCA-7M(T2) DX450LC-7M(T3)	DWG No		25/31
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4) WORKING RANGE [FEET]



BOOM TYPE (ONE PIECE)	(ft-in)	22' 0"				
ARM TYPE	(ft-in)	10' 8"	8' 6"	9' 8"	13' 0"	
BUCKET TYPE (SAE)	(yd ³)	2.80 R2H	3.16 R2H	2.80 R2H	2.15 R2H	
MAX. DIGGING REACH	(ft-in)	A	37' 6"	35' 6"	36' 6"	39' 9"
MAX. DIGGING REACH (GROUND)	(ft-in)	B	36' 9"	34' 8"	35' 9"	39' 1"
MAX. DIGGING DEPTH	(ft-in)	C	25' 1"	22' 11"	24' 2"	27' 4"
MAX. LOADING HEIGHT	(ft-in)	D	25' 7"	24' 7"	25' 0"	26' 11"
MIN. LOADING HEIGHT	(ft-in)	E	10' 2"	12' 4"	11' 2"	7' 10"
MAX. DIGGING HEIGHT	(ft-in)	F	34' 10"	33' 8"	34' 2"	36' 3"
MAX. BUCKET PIN HEIGHT	(ft-in)	G	31' 1"	30' 1"	30' 7"	32' 5"
MAX. VERTICAL WALL DEPTH	(ft-in)	H	10' 1"	7' 12"	9' 0"	12' 6"
MAX. RADIUS VERTICAL	(ft-in)	I	33' 2"	31' 11"	32' 7"	34' 4"
MAX. DEPTH TO 8' LINE	(ft-in)	J	24' 6"	22' 2"	23' 6"	26' 10"
MIN. RADIUS 8' LINE	(ft-in)	K	11' 2"	11' 1"	11' 1"	11' 4"
MIN. DIGGING REACH	(ft-in)	L	2' 7"	7' 10"	5' 10"	-8"
MIN. SWING RADIUS	(ft-in)	M	14' 8"	14' 9"	14' 9"	14' 11"
BUCKET ANGLE	(deg)	d	177	177	177	177

MODEL	DX450LCA-7M(T2) DX450LC-7M(T3)	DWG No		26/31
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11. LIFTING CAPACITIES

Ref. Attached File

12. PERFORMANCE DATA

1) MAIN RELIEF PRESSURE

WORKING, TRAVEL : 324 [+10/0] bar (330 [+10/0] kg/cm²)
 PRESSURE UP : 343 [+10/0] bar (350 [+10/0] kg/cm²)

2) ACTUATOR SPEED (T2/T3)

OPERATION		UNIT	S MODE	P+ MODE
BOOM	UP	SEC	3.6 ± 0.4	3.3 ± 0.3
	DOWN	SEC	2.6 ± 0.3	2.4 ± 0.2
	DOWN (w Lock V/V)	SEC	2.9 ± 0.3	2.6 ± 0.3
ARM	CROWD	SEC	4.2 ± 0.4	3.9 ± 0.4
	CROWD (w Lock V/V)	SEC	4.7 ± 0.5	4.3 ± 0.4
	DUMP	SEC	3.3 ± 0.3	3.1 ± 0.3
BUCKET	CROWD	SEC	3.1 ± 0.3	2.9 ± 0.3
	DUMP	SEC	3.3 ± 0.3	3.0 ± 0.3
SWING (3 REVOLUTIONS)		SEC	21.1 ± 2.1	19.4 ± 1.9
DOZER	UP	SEC	-	-
	DOWN	SEC	-	-
JACK-UP SPEED (3 TURNS)	LOW	SEC	40.7 ± 4.1	37.3 ± 3.7
	HIGH	SEC	24.7 ± 2.5	22.6 ± 2.3
TRAVEL SPEED (20 m)	LOW	SEC	25.8 ± 2.6	23.7 ± 2.4
	HIGH	SEC	15.7 ± 1.6	14.4 ± 1.4
TRAVEL DEVIATION (20 m)	LOW	mm	MAX. 150	MAX. 150
	HIGH	mm	MAX. 150	MAX. 150

* 6.7m HD BOOM + 3.25m HD ARM

MODEL	DX450LCA-7M(T2) DX450LC-7M(T3)	DWG No		27/31
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12. NOISE LEVEL

1) DX450LCA-7M(T2)

L_{WA}	GUARANTEED SOUND POWER LEVEL	:	108 dB(A) (2000/14/EC)
	MEASURED SOUND POWER LEVEL	:	107 dB(A) (2000/14/EC)
L_{pA}	OPERATOR NOISE	:	74 dB(A) (ISO 6396)

1) DX450LC-7M(T3)

L_{WA}	GUARANTEED SOUND POWER LEVEL	:	107 dB(A) (2000/14/EC)
	MEASURED SOUND POWER LEVEL	:	106 dB(A) (2000/14/EC)
L_{pA}	OPERATOR NOISE	:	74 dB(A) (ISO 6396)

MODEL	DX450LCA-7M(T2) DX450LC-7M(T3)	DWG No		28/31
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13. SUB GROUP WEIGHT

(UNIT : kg)

ITEM		DX450LCA-7	DX450LC-7M	REMARKS
SUPER STRUCTURE W/O FRONT		11200	11250	Except C/Weight
COUNTERWEIGHT		8000	8000	
LOWER STRUCTURE ASS'Y		15350	15350	Standard Track 600mm Shoe
FRONT ASS'Y		9248	9248	Based on Standard *
BOOM	6700 mm	3100	3100	Including Bushes
	HD 6700 mm	3169	3169	
ARM	2600 mm	1416	1416	Including Bushes
	2950 mm	1469	1469	
	3250 mm	1498	1498	
	HD 3250 mm	1646	1646	
	3950 mm	1749	1749	
BUCKET (SAE)	GP 1.44 m3 (1.88 yd3)	1439	1439	
	GP 1.68 m3 (2.20yd3)	1541	1541	
	GP 1.9 m3 (2.49 yd3)	1654	1654	
	GP 2.16 m3 (2.83 yd3)	1782	1782	
	H Class 1.64 m3 (2.15 yd3)	1601	1601	
	H Class 1.92 m3 (1.92 yd3)	1729	1729	
	H Class 2.14 m3 (2.80 yd3)	1860	1860	
	H Class 2.42 m3 (3.23 yd3)	1986	1986	
	H Class 2.72 m3 (3.56 yd3)	2154	2154	
	H+ Class 2.14 m3 (2.80 yd3)	1960	1960	
	S Class 1.77 m3 (2.32 yd3)	2128	2128	
	S Class 2.02 m3 (2.64 yd3)	2266	2266	
	Rock 1.51 m3 (1.98 yd3)	1643	1643	
BOOM CYLINDER (each)		371	371	Φ170xΦ115x1485mm
ARM CYLINDER		515	515	Φ180xΦ120x1820mm
BUCKET CYLINDER		336	336	Φ160xΦ110x1320mm

[NOTE]

* STANDARD FRONT – 6.7m HD BOOM, 3.25m HD ARM, 2.14m³ R2H BUCKET.

MODEL	DX450LCA-7M(T2) DX450LC-7M(T3)	DWG No		29/31
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14. USER SERVICE DATA

No.	Items to check	Service	Qty.	Service interval [hours]					
				10	50	250	500	1,000	2,000
1	Arm, Bucket Joint Pin ¹⁾	Grease	6	F100	W10				
2	Boom, Arm Joint Pin ¹⁾²⁾	Grease	11	F100		W10			
3	Swing Bearing ¹⁾	Grease	3		W10				
4	Pinion Gear (Swing)	Grease	1						
5	Swing Reduction Gear	Grease	1					W10	
		Gear Oil	8 L	V			F		
6	Track Spring	Grease	2				W10,V		
7	Travel Reduction Gear	Gear Oil	2 x 7 L				F, V		
8	Engine Oil	Engine Oil	T2 : 31 L T3 : 45 L	V					
9	Hydraulic Oil Tank ³⁾	Hydraulic Oil	370(265) L	V					
10	Fuel Tank ⁴⁾	Diesel	640(630) L	V	D				
11	Pre Fuel Filter and Water Separator	Cartridge	1	V, D					
12	Coolant	Coolant	T2: 56.5 L T3: 53.3 L	V					
13	Hydraulic Oil Return Filter	Element	2			F			
14	Pilot Filter	Element	1			F			
15	Hydraulic Oil Suction Strainer	Strainer	1						C
16	Engine Oil Filter	Element	1						
17	Main Fuel Filter	Cartridge	1						
18	Air Cleaner (Outer)	Element	1				C		
	Air Cleaner (Inner)	Element	1						
19	Air Conditioner Filter (Outer)	Element	1				C		
	Air Conditioner Filter (Inner)	Element	1				C		
20	Air Breather Filter	Element	1						
21	Fuel Cap Filter	Element	1						
22	Breaker Filter (Opt)	Cartridge	1						
23	Air Compressor Filter (Opt)	Cartridge	1				C		
24	Oil Bath Precleaner (Opt)	Engine Oil	9.5 L		V				
		Element	1		V				C
25	Centrifugal Oil Cleaner	Rotor	1						C
26	Radiator Core	Core	1				C		
27	Fuel cooler Core	Core	1				C		
28	Oil Cooler Core	Core	1				C		
29	Intercooler Core	Core	1				C		
30	Aircon Condenser Core	Core	1				C		

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

MODEL

DX450LCA-7M(T2)
DX450LC-7M(T3)

DWG No

30/31

- | |
|---|
| 1) If Auto Grease System (optional) is equipped, check and refill the system(AGS 옵션 장착 기종에만 표기) |
| 2) One piece BOOM(Two piece BOOM) |
| 3) Total Tank Capacity(Level) |
| 4) Total Tank Capacity(max. possible refueling volume) |

15. CIRCUITS

- HYDRAULIC CIRCUIT : 950102-00872B(T2/T3)
- ELECTRIC CIRCUIT : 950102-00863(T2), 950102-00865(T3)

MODEL	DX450LCA-7M(T2) DX450LC-7M(T3)	DWG No		31/31
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