

CHANGES	DETAILS	DATE	WIRTE	APPROVE
Rev_00	DX200A Model	DEC.11.2014	S.W. YUN	S.W. YUN

DX200A

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MODEL	DX200A	DWG No	K1025586	1/16
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1. GENERAL SPECIFICATION

[DX200A]

ITEMS		UNIT	STD.	OPT. 1	OPT. 2
OPERATING WEIGHT		ton	20.6	20.5	21.1
BUCKET CAPACITY (SAE)		m ³	0.92	0.92	0.92
ENGINE	RATED POWER	PS/rpm	150/1900		
	MAX. TORQUE	kg.m/rp	61.5/1400		
SYSTEM PRESSURE (WORK/TRAVEL)		kg/cm ²	350 / 350		
SWING SPEED		rpm	11.3		
TRAVEL SPEED (High/Low)		km/h	5.8/3.2		
GRADEABILITY		%(deg)	70 (35°)		
SHOE WIDTH		mm	600		800
GROUND PRESSURE		kg/cm ²	0.48	←	0.37
DIGGING FORCE	BUCKET	ton	15.2	←	←
	ARM	ton	10.8	12.6	10.8
WORKING RANGE	MAX. DIGGING REACH	mm	9900	9480	9900
	MAX. DIGGING DEPTH	mm	6620	6110	6620
	MAX. DIGGING HEIGHT	mm	9750	9630	9750
	REAR SWING RADIUS	mm	2750	←	←
	MIN. SWING RADIUS	mm	3410	←	←
TRANSPOR-TATION DIMENSION	OVERALL LENGTH	mm	9485	9500	9485
	OVERALL WIDTH	mm	2800	←	3000
	OVERALL WIDTH (Narrow)	mm	-	-	-
	OVERALL HEIGHT	mm	3005	3110	3005
	GROUND CLEARANCE	mm	480	←	←
	TRACK LENGTH	mm	4065	←	←
	TRACK GAUGE	mm	2200	←	←
TRACK GAUGE (Narrow)	mm	-	-	-	
OPTION ATTACHMENT		<ul style="list-style-type: none"> • BOOM : STD. 5700mm • ARM : STD. 2900mm, SHORT 2400mm, • BUCKET (PCSA) : STD. 0.92 m³ OPT. 0.81 m³ 			
<ul style="list-style-type: none"> • STANDARD : STD. BOOM(5700mm), STD. ARM(2900mm), STD. BUCKET(0.92 m³), 600mm shoe • OPTION 1 : STD. BOOM(5700mm), SHORT ARM(2400mm), OPT. BUCKET(0.92 m³), 600mm shoe • OPTION 2 : STD. BOOM(5700mm), STD. ARM(2900mm), STD. BUCKET(0.92 m³), 800mm shoe 					

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2. ENGINE SYSTEM

1) ENGINE

MAKER & MODEL	:	DOOSAN DB58TIS
RATED HORSE POWER	:	
GROSS POWER : 115 kW(157 PS, 154 HP) @1900rpm (SAE J1995)		
NET POWER : 110 kW(150 PS,148 HP) @1900rpm (SAE J1349)		
MAX. TORQUE	:	61.5 kgf.m @ 1400 rpm
DISPLACEMENT	:	5785 cc
No. OF CYLINDER	:	6
BORE DIA. & STROKE	:	Φ 102 x 118 mm

2) ALTERNATOR

VOLTAGE	:	24 V
RATING AMPERES	:	60 A

3) BATTERY

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

3. HYDRAULIC SYSTEM

1) MAIN PUMP

DISPLACEMENT	:	2 x 117.0 cc/rev
MAX. FLOW RATE	:	2 x 222.3 Liter/min

2) PILOT PUMP

DISPLACEMENT	:	15 cc/rev
MAX. FLOW RATE	:	28.5 Liter/min

3) CONTROL VALVE

RELIEF VALVE PRESSURE	:	350 kgf/cm ²
PORT RELIEF VALVE PRESSURE	:	360 kgf/cm ²

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4. SWING MECHANISM

1) SWING PERFORMANCE

MAX. SWING SPEED (EFF.=0.99) : 11.3 rpm
MAX. SWING TORQUE (EFF.=0.77) : 6,460 kgf.m

5. TRAVEL SYSTEM

1) TRAVELLING PERFORMANCE

TRAVELLING SPEED (EFF.=96/95%) : 3.2 / 5.8 km/hr
TRACTION FORCE (EFF.=79/77%) : 23.1 / 12.2 ton

6. UNDER CARRIAGE

1) ROLLERS ; LOWER

FLANGE TYPE : SINGLE
Q'TY PER SIDE : 7 ea – STD TRACK

2) ROLLERS ; UPPER

FLANGE TYPE : SHAFT
Q'TY PER SIDE : 2 ea

3) TRACK SHOE

MAKER : HYUNDAI STEEL
No. OF SHOE PER SIDE : 45 ea

SHOE WIDTH (mm)	GROUND PRESSURE (kgf/cm ²)	MACHINE WEIGHT (ton)
STD. 600G	0.48	20.6
OPT. 800G	0.37	21.1

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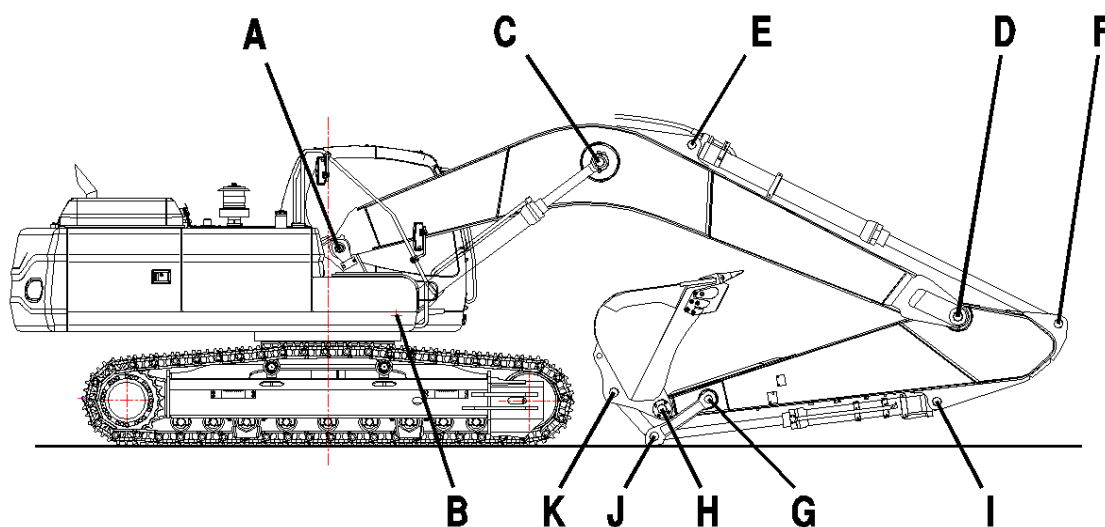
7. HYDRAULIC CYLINDERS

	BOOM	ARM	BUCKET
QUANTITY	2	1	1
BORE	120	135	120
STROKE	1260	1450	1060
ROD DIA.	85	95	80
CLOSED LENGTH	1782	2010	1630
HEAD END CUSHION	X	O	X
ROD END CUSHION	O	O	O

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8. FRONT

1) FRONT LINK PIN SIZES



POINT	DIA. (mm)	LENGTH (mm)	SLR FRONT (D/L)
A	90	782	←
B	80	196	←
C	80	782	←
D	90	519	←
E	80	220	←
F	80	219	←
G	71	425	65/354
H	80	507	65/424
I	80	205	65/187
J	80	425	65/354
K	80	507	65/424

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2) FRONT ATTACHMENTS

2-1) BOOM

	LENGTH (mm)	WEIGHT (kg)
STD. BOOM	5700	1463

2-2) ARM

	LENGTH (mm)	WEIGHT (kg)	DIGGING FORCE
STD. ARM	2900	656	[SAE] 10.5, [ISO] 10.8
SHORT ARM	2400	574	[SAE] 12.2, [ISO] 12.6

2-3) BUCKET (DX200A)

	CAPACITY (m ³)			BUCKET WIDTH (mm)		DIGGING FORCE
	CECE	SAE	STRUCK	W/CUTTER	W/O CUTTER	
STD. BUCKET	0.81	0.92	0.69	1236	1172	[SAE] 13.3
OPT. BUCKET	0.72	0.81	0.62	1126	1064	[ISO] 15.2

2-4) BUCKET & ARM COMBINATIONS

Bucket Type	Capacity (m ³)		Width (mm)		Weight (kg)	5.7m Boom	
	SAE/PCSA	CECE	W/O Cutter	With Cutter		2.4m A	2.9m A
	GP	0.81	0.72	1064		1126	654
	0.92	0.81	1172	1236	707	A	B
Maximum load pin-on(payload+bucket)						2829	2586

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

X : Not recommended

3) OPTION PIPINGS

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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*

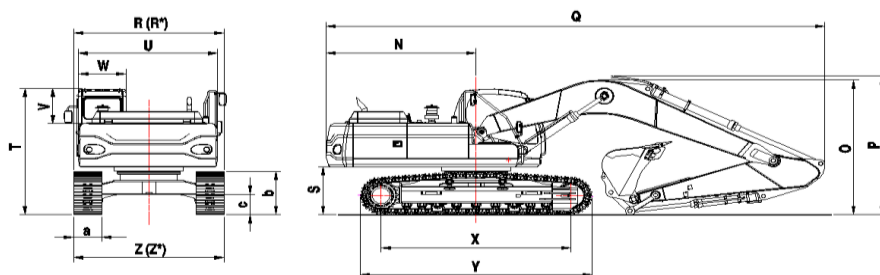
3-3) PERO PIPING

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

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9. DIMENSIONS AND WORKING RANGE

1) DIMENSIONS



BOOM TYPE (ONE PIECE)	(mm)		5700	
ARM TYPE	(mm)		2900	2400
BUCKET TYPE (PCSA)	(m ³)		0.92	1.05
TAIL SWING RADIUS	(mm)	N	2750	←
SHIPPING HEIGHT (BOOM)	(mm)	O	2940	3045
SHIPPING HEIGHT (HOSE)	(mm)	P	3005	3110
SHIPPING LENGTH	(mm)	Q	9485	9500
SHIPPING WIDTH	(mm)		2800	←
C/WEIGHT CLEARANCE	(mm)	S	1055	←
HEIGHT OVER CAB.	(mm)	T	2975	←
HOUSE WIDTH	(mm)	U	2710	←
CAB. HEIGHT ABOVE HOUSE	(mm)	V	845	←
CAB. WIDTH	(mm)	W	960	←
TUMBLER DISTANCE	(mm)		3270	←
TRACK LENGTH	(mm)		4065	←
UNDERCARRIAGE WIDTH	(mm)		2800	←
SHOE WIDTH	(mm)	a	600	←
TRACK HEIGHT	(mm)		947	←
CAR BODY CLEARANCE	(mm)	c	480	←

MODEL

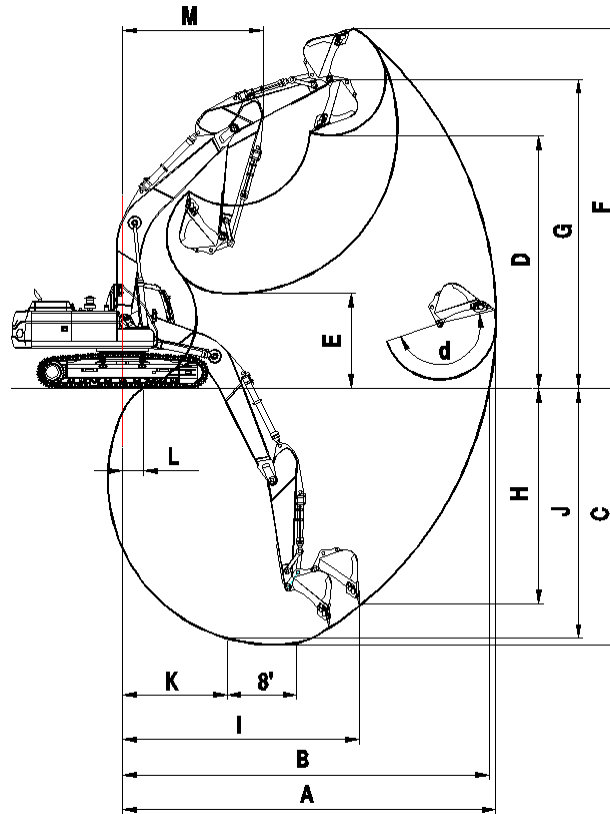
DX200A

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2) WORKING RANGE

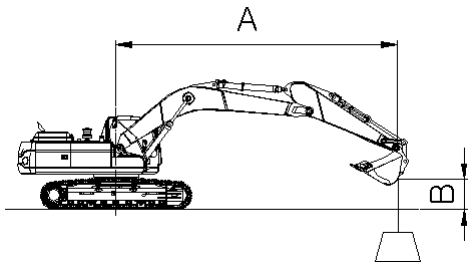


BOOM TYPE (ONE PIECE)	(mm)		5700	
ARM TYPE	(mm)		2900	2400
BUCKET TYPE (PCSA)	(m ³)		0.92	1.05
MAX. DIGGING REACH	(mm)	A	9900	9480
MAX. DIGGING REACH (GROUND)	(mm)	B	9730	9300
MAX. DIGGING DEPTH	(mm)	C	6620	6110
MAX. LOADING HEIGHT	(mm)	D	6990	6830
MIN. LOADING HEIGHT	(mm)	E	2555	3070
MAX. DIGGING HEIGHT	(mm)	F	9750	9630
MAX. BUCKET PIN HEIGHT	(mm)	G	8450	8299
MAX. VERTICAL WALL DEPTH	(mm)	H	5640	5390
MAX. RADIUS VERTICAL	(mm)	I	6410	6050
MAX. DEPTH TO 8' LINE	(mm)	J	6430	5910
MIN. RADIUS 8' LINE	(mm)	K	2865	2880
MIN. DIGGING REACH	(mm)	L	519	1698
MIN. SWING RADIUS	(mm)	M	3410	3410
BUCKET ANGLE	(deg)	d	166	166



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10. LIFTING CAPACITIES









- 5.7m Boom, 2.9m Arm, 600mm SHOE, STD TRACK (1/2)











TRACK WIDTH : 2.80m (9' 2") STD TRACK
 BOOM : 5.7m (18' 8")
 ARM : 2.9m (9' 6")
 BUCKET : SAE 0.92m³ HEAPED
 (CECE 0.81m³)
 SHOE : 600mm (24")
 COUNTER WEIGHT : 3,800 kg (8,377 lb)
 UNIT : 1000 kg (1000 lb)

 : RATING OVER FRONT
 : RATING OVER SIDE OR 360 degree

METRIC

A(m) \ B(m)	1		2		3		4	
								
8								
7								
6								
5								
4								
3					*10.65	*10.65	*7.60	7.3
2					*8.55	*8.55	*8.98	6.75
1					*7.27	*7.27	*9.97	6.34
0(GROUND)			*4.93	*4.93	*8.28	*8.28	10.16	6.12
1			*7.18	*7.18	*10.09	9.77	10.04	6.02
2	*8.27	*8.27	*9.39	*9.39	*12.45	9.83	10.03	6.01
3	*10.29	*10.29	*11.87	*11.87	*12.31	9.97	*9.56	6.07
4			*14.26	*14.26	*10.72	10.19	*8.45	6.21
5					*8.37	*8.37	*6.67	6.43

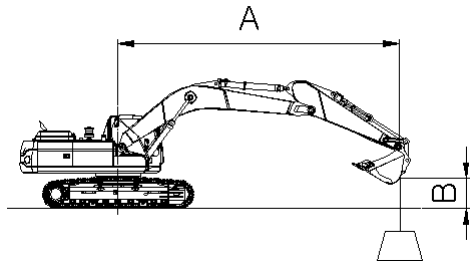
FEET

A(m) \ B(m)	5		10		15		20	
								
25							*7.49	*7.49
20							*8.80	*8.80
15							*9.77	8.75
10			*22.69	*22.69	*14.52	13.04	*11.33	8.16
5			*17.31	*17.31	*17.80	11.78	11.7	7.56
0(GROUND)			*18.78	*18.78	17.81	11	11.21	7.11
5	*16.90	*16.90	*25.28	20.98	17.49	10.72	10.97	6.89
10	*24.37	24.37	*26.65	21.37	17.59	10.81	11.01	6.93
15			*20.69	*20.69	*14.62	11.25		

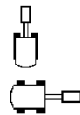
1. RATINGS ARE BASED ON SAE J1097
2. LOAD POINT IS THE HOOK ON THE BACK OF THE BUCKET.
3. * RATED LOADS ARE BASED ON HYDRAULIC CAPACITY.
4. RATED LOADS DO NOT EXCEED 87% OF HYD. CAPACITY OR 75% OF TIPPING CAPACITY.

MODEL	DX200A	DWG No	K1025586	11/16
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- 5.7m Boom, 2.9m Arm, 600mm SHOE, STD TRACK (2/2)



TRACK WIDTH : 2.80m (9' 2") STD TRACK
 BOOM : 5.7m (18' 8")
 ARM : 2.9m (9' 6")
 BUCKET : SAE 0.92m³ HEAPED
 (CECE 0.81m³)
 SHOE : 600mm (24")
 COUNTER WEIGHT : 3,800 kg (8,377 lb)
 UNIT : 1000 kg (1000 lb)



: RATING OVER FRONT
 : RATING OVER SIDE OR 360 degree

METRIC

A(m) \ B(m)	5		6		7		8		MAX. REACH			
											A(m)	
8										3.00	3.00	@5.95
7										2.82	2.82	@6.86
6			4.02	4.02	3.86	3.18				2.75	2.75	@7.51
5			4.30	4.15	4.11	3.12				2.75	2.39	@7.99
4	5.27	5.27	4.72	3.98	4.35	3.03	3.58	2.34		2.80	2.15	@8.32
3	6.10	5.11	5.23	3.79	4.43	2.91	3.51	2.27		2.92	2	@8.52
2	6.93	4.8	5.54	3.6	4.3	2.79	3.43	2.2		3.02	1.91	@8.60
1	7.18	4.54	5.35	3.43	4.18	2.68	3.36	2.13		3	1.88	@8.56
0(GROUND)	6.97	4.36	5.21	3.3	4.09	2.59	3.3	2.08		3.05	1.91	@8.40
1	6.86	4.26	5.13	3.22	4.03	2.54	3.27	2.05		3.2	2.01	@8.11
2	6.82	4.23	5.09	3.19	4.01	2.52				3.49	2.19	@7.68
3	6.86	4.26	5.12	3.22	4.05	2.56				3.98	2.51	@7.09
4	6.78	4.35	5.22	3.31						4.88	3.1	@6.27
5	5.19	4.54								4.96	4.36	@5.14

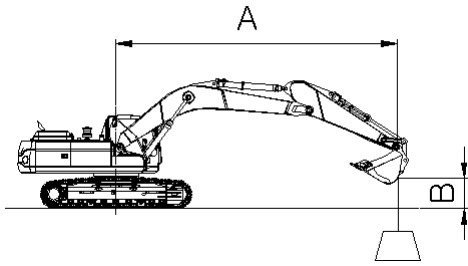
FEET

A(ft) \ B(ft)	25		MAX. REACH		
					A(ft)
25			*6.43	*6.43	@20.78
20			*6.07	*6.07	@24.46
15	8.73	5.77	*6.10	5.02	@26.74
10	8.44	5.5	*6.42	4.42	@27.94
5	8.12	5.2	6.62	4.17	@28.20
0(GROUND)	7.87	4.97	6.73	4.21	@27.56
-5	7.77	4.87	7.35	4.6	@25.94
-10			8.84	5.58	@23.14
-15			*11.06	8.14	@18.60

1. RATINGS ARE BASED ON SAE J1097
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.

MODEL	DX200A	DWG No	K1025586	12/16
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- OPTION 5.7m Boom, 2.4m Arm, 600mm SHOE, STD TRACK (1/2)



TRACK WIDTH : 2.80m (9' 2") STD TRACK
 BOOM : 5.7m (18' 8")
 ARM : 2.4m (7' 10")
 BUCKET : SAE 0.92m³ HEAPED
 (CECE 0.81m³)
 SHOE : 600mm (24")
 COUNTER WEIGHT : 3,800 kg (8,377 lb)
 UNIT : 1000 kg (1000 lb)



: RATING OVER FRONT



: RATING OVER SIDE OR 360 degree

METRIC

A(m) \ B(m)	2		3		4		5	
8								
7								
6								
5							*5.15	*5.15
4			*9.25	*9.25	*7.00	*7.00	*5.84	5.34
3					*8.43	7.1	*6.64	5.03
2					*9.68	6.61	*7.40	4.75
1					10.35	6.29	7.15	4.53
0(GROUND)			*7.25	*7.25	10.18	6.15	7	4.39
1	*7.02	*7.02	*10.03	9.96	10.13	6.11	6.93	4.33
2	*10.04	*10.04	*12.71	10.06	*9.98	6.14	6.93	4.33
3	*13.33	*13.33	*11.43	10.23	*9.12	6.24	7	4.39
4	*12.02	*12.02	*9.57	*9.57	*7.74	6.41	*6.21	4.52
5					*5.42	*5.42		

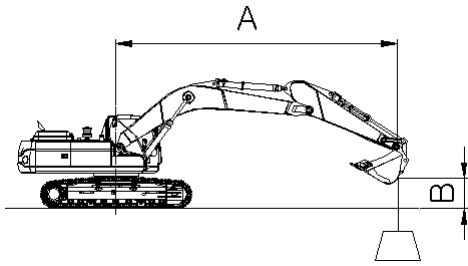
FEET

A(m) \ B(m)	5		10		15		20	
25								
20							*9.87	9.02
15					*12.63	*12.63	*10.73	8.66
10					*15.92	12.79	*12.19	8.11
5					18.54	11.66	11.7	7.57
0(GROUND)			*16.53	*16.53	17.85	11.06	11.29	7.2
5	*17.64	*17.64	*26.23	21.43	17.7	10.93	11.15	7.07
10	*27.47	*27.47	*24.75	21.93	*17.67	11.12	11.3	7.2
15			*17.72	*17.72	*12.68	11.72		

1. RATINGS ARE BASED ON SAE J1097
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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- OPTION 5.7m Boom, 2.4m Arm, 600mm SHOE, STD TRACK (2/2)



TRACK WIDTH : 2.80m (9' 2") STD TRACK
 BOOM : 5.7m (18' 8")
 ARM : 2.4m (7' 10")
 BUCKET : SAE 0.92m³ HEAPED
 (CECE 0.81m³)
 SHOE : 600mm (24")
 COUNTER WEIGHT : 3,800 kg (8,377 lb)
 UNIT : 1000 kg (1000 lb)



: RATING OVER FRONT



: RATING OVER SIDE OR 360 degree

METRIC

A(m) \ B(m)	6		7		8		MAX. REACH		
									A(m)
8							*4.18	*4.18	@5.33
7	*4.48	4.23					*3.91	3.84	@6.31
6	*4.50	4.2	*3.89	3.14			*3.80	3.11	@7.03
5	*4.75	4.1	*4.51	3.1			*3.79	2.68	@7.54
4	*5.15	3.94	4.54	3.02			3.67	2.4	@7.89
3	*5.63	3.77	4.43	2.91	3.52	2.29	3.44	2.23	@8.10
2	5.52	3.59	4.31	2.8	3.46	2.23	3.33	2.14	@8.18
1	5.36	3.45	4.21	2.71	3.4	2.17	3.31	2.11	@8.14
0(GROUND)	5.25	3.35	4.13	2.64			3.38	2.15	@7.97
1	5.19	3.29	4.1	2.61			3.58	2.27	@7.67
2	5.19	3.29	4.11	2.62			3.94	2.51	@7.21
3	5.24	3.34					4.59	2.94	@6.57
4							*5.20	3.76	@5.68
5							*4.84	*4.84	@4.39

FEET

A(ft) \ B(ft)	25		MAX. REACH		
					A(ft)
25			*8.94	*8.94	@18.84
20			*8.38	6.99	@22.85
15	8.69	5.74	*8.41	5.62	@25.28
10	8.46	5.53	7.61	4.94	@26.54
5	8.19	5.28	7.29	4.67	@26.82
0(GROUND)	7.99	5.1	7.46	4.75	@26.14
-5			8.25	5.25	@24.43
-10			10.21	6.54	@21.43
-15			*11.18	10.26	@16.42

1. RATINGS ARE BASED ON SAE J1097
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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11. PERFORMANCE DATA

1) MAIN RELIEF PRESSURE

WORKING, TRAVEL : **350 [⁺¹⁰/₀] kg/cm²**

12. NOISE LEVEL

L_{WA} GUARANTEED SOUND POWER LEVEL : 103 dB(A) (2000/14/EC)
 MESSURED SOUND POWER LEVEL : 102 dB(A) (2000/14/EC)
L_{pA} OPERATOR NOISE : 73 dB(A) (ISO 6396)

▶ ABOVE NOISE LEVEL DATA ARE TEST RESULTS OF PROTOTYPE MACHINE.

13. SUB GROUP WEIGHT

ITEM		UNIT	FIGURE	REMARKS
UPPER STRUCTURE W/O FRONT		kg	9,853	WITH COUNTER WEIGHT
COUNTER WEIGHT		kg	4,100	
LOWER STRUCTURE ASS'Y		kg	7,635	LC TRACK
FRONT ASS'Y		kg	4,012	
BOOM (5.7m)		kg	1,463	WITH BUSH
ARM (2.9m)		kg	656	WITH BUSH
BUCKET (0.92m ³)		kg	700	
BOOM CYL. (ea)		kg	178	
ARM CYL.		kg	266	
BUCKET CYL.		kg	152	
DOZER		kg	-	
DOZER CYL. (ea)		kg	-	
OPTION	Arm	2.4m	kg	574
	BUCKET	0.51m ³ (0.47m ³)	kg	529
		0.81m ³ (0.72m ³)	kg	654
	COUNTER WEIGHT		kg	3,800

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14. USER SERVICE DATA

COMPARTMENT/ GREASE JOINT	TYPE OF FLUID OR LUBRICANT	No, OF C/G	SERVICE INTERVAL (hr)						COM- MENTS
			10	50	250	500	1000	2000	
BUCKET JOINT PIN	GREASE	6	*△	△					
BOOM/ARM JOINT PIN	GREASE	11	*△		△				
SWING BEARING	GREASE	2		△					
SWING GEAR	GREASE	1				○			
HYD. ADJUST	GREASE	2				△			
SWING DEVICE	GREASE	1					△		
	GEAR OIL	5ℓ	■			*○	○		
TRAVEL DEVICE	GEAR OIL	2x3.3ℓ				■*○	○		
ENGINE OIL	ENGINE OIL	28ℓ	■	*○		○			
OIL TANK	ISO VG #46	195ℓ	■					○	
FUEL TANK	DIESEL	400ℓ	■	▲					
RADIATOR	WATER	24ℓ	■					○	
HYD. RETURN FILTER	ELEMENT	1			*○		○		
PILOT FILTER	ELEMENT	1			*○		○		
HYD. OIL SUC. FILTER	STRAINER	1						□	
ENGINE OIL FILTER	CARTRIDGE	1		*○		○			
ADDITIONAL WATER SEPARATOR	DRAIN WATER	1	▲						
WATER SEPARATOR	CARTRIDGE	1	▲			○			
FUEL FILTER	CARTRIDGE	1				○			
AIR CLEANER	ELEMENT (INNER)	1						○	
	ELEMENT (OUTER)	1				□		○	
RADIATOR CORE	CORE	1				□			
OIL COOLER CORE	CORE	1				□			
INTER COOLER CORE	CORE	1				□			
AIR-CON COND. CORE	CORE	1				□			
AIR BREATHER FILTER	CARTRIDGE	1					○		

※ : FIRST TIME ONLY ▲ : DRAIN WATER ■ : CHECK
 △ : GREASING ○ : REPLACING □ : CLEANING

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