

CHAGNES	DETAILS	DATE	WRITTEN	APPROVED
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DX27Z

CONTENTS

PAGE

1. GENERAL SPECIFICATION	2
2. SPECIFICATION COMPARISON	3
3. ENGINE SYSTEM	4
* ENGINE PERFORMANCE CURVE	6
4. HYDRAULIC SYSTEM	7
* PUMP PERFORMANCE CURVE	9
5. SWING MECHANISM	10
6. TRAVEL MECHANISM	11
7. HYDRAULIC CYLINDERS	13
8. FRONT	
8.1. FRONT LINKAGE PIN SIZES	13
8.2. FRONT ATTACHMENTS	14
9. DIMENSIONS & WORKING RANGE	15
10. LIFTING CAPACITIES	17
11. PERFORMANCE DATA	19
12. NOISE LEVEL	20
13. SUB GROUP WEIGHTS	20
14. USER SERVICE DATA	21
15. CIRCUITS	
15.1. HYDRAULIC CIRCUIT	22
15.2. ELECTRIC CIRCUIT	23

MODEL	DX27Z	DOCUMENT No		1/25
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1. GENERAL SPECIFICATION

ITEMS		UNIT	STD.	OPT1.
OPERATING WEIGHT		ton	2.79	2.80
BUCKET CAPACITY(CECE/SAE)		m³	0.07/0.08	←
ENGINE	RATED POWER	PS/rpm	21.5/2,200	←
	MAX. TORQUE	kg.m/rpm	8.97/1,200	←
SYSTEM PRESSURE (WORK/TRAVEL)		kg/cm²	220	←
SWING SPEED		rpm	9.63	←
TRAVEL SPEED (1-Speed/2-Speed)		km/h	2.4/4.3	←
GRADEABILITY		%(deg)	58 (30°)	←
SHOE WIDTH		mm	300	←
GROUND PRESSURE		kg/cm²	0.27	←
DIGGING FORCE	BUCKET	ton	2.0	←
	ARM	ton	1.4	1.3
WORKING RANGE	MAX. DIGGING REACH	mm	4,505	4,690
	MAX. DIGGING DEPTH	mm	2,490	2,690
	MAX. DIGGING HEIGHT	mm	4,165	4,280
	REAR SWING RADIUS	mm	760	←
	MIN. SWING RADIUS	mm	1,950	1,985
TRANSPOR-TATION DIMENSION	OVERALL LENGTH	mm	4,060	4,085
	OVERALL WIDTH	mm	1,570	←
	OVERALL HEIGHT	mm	2,445	←
	GROUND CLEARANCE	mm	285	←
	TRACK LENGTH	mm	1,550	←
	TRACK GAUGE	mm	1,270	←
BOOM SWING ANGLE (LxR)		degree	70 / 50	←
DOZER BLADE(WIDTH x HEIGHT)		mm	1,520 x 275	←
OPTION ATTACHMENTS		- . STEEL CRAWLER - . ACCUMULATOR - . CANOPY - . ROTATING BEACON - . LONG ARM 1.3M - . ADDITIONAL WEIGHT - . QUICK CLAMP PIPE - . PATTERN CHANGE VALVE		
STANDARD : STD BOOM (2,000 mm) STD ARM (1,100 mm) STD BUCKET (0.08m³) OPTION 1 : STD BOOM (2,000 mm) LONG ARM (1,300 mm) STD BUCKET (0.08m³)				

MODEL

DX27Z

DOCUMENT No

2/25

2. SPECIFICATION COMPARISON

ITEMS		UNIT	KOBELCO	KOMATSU	KUBOTA	YANMAR
			SK27SR-3	PC27MR-2	U25-3	VIO27-3
OPERATING WEIGHT		ton	2.630	3.055	2.540	2.990
BUCKET CAPACITY		m ³	0.08	0.08	0.08	0.08
ENGINE	RATED POWER	PS/rpm	21.6/2,200	25.1/2,600	21/2,400	25/2,500
	MAX. TORQUE	kg.m/rpm	79/1,320	8.31/1,600	-	-
SYSTEM PRESSURE (WORK/TRAVEL)		kg/cm ²	235	250	220	210
SWING SPEED		rpm	8.7	9.2	9.8	10
TRAVEL SPEED (High/Low)		km/h	4.1/2.3	4.6/2.6	4.5/2.5	4.7/2.8
GRADEABILITY		%(deg)	58(30)	58(30)	-	58(30)
SHOE WIDTH		mm	250	300	300	260
GROUND PRESSURE		kg/cm ²	0.31	0.30	0.24	0.34
DIGGING FORCE	BUCKET	ton	2.2	2.2	2.2	2.3
	ARM	ton	1.5	1.5	1.46	1.48
WORKING RANGE	MAX. DIGGING REACH	mm	4,640	4,700	4,510	4,380
	MAX. DIGGING DEPTH	mm	2,540	2,650	2,550	2,600
	MAX. DIGGING HEIGHT	mm	4,260	4,500	4,160	4,220
	REAR SWING RADIUS	Mm	750	885	760	765
	MIN. SWING RADIUS	mm	2,060/1,780	1,910/1,510	2,250	1,920/1,570
TRANSPOR-TATION DIMENSION	OVERALL LENGTH	mm	4,130	4,320	4,865	4,100
	OVERALL WIDTH	mm	1,500	1,550	1,700	1,550
	OVERALL HEIGHT	mm	2,600	2,530	2,440	2,510
	GROUND CLEARANCE	mm	-	320	290	320
	TRACK LENGTH	mm	1,590	1,485	1,670	-
	TRACK GAUGE	mm	1,250	1,250	1,400	1,810
DOZER BLADE (WIDTH x HEIGHT)		mm	1,500x300	1,550x325	1,700x335	1,550x345
BOOM SWING ANGLE (L/R)		deg	60/55	85/50	70/50	50/75

MODEL

DX27Z

DOCUMENT No

3/25

3. ENGINE SYSTEM

3.1) ENGINE

MAKER & MODEL	:	YANMAR, 3TNV82A-SDB
RATED HORSE POWER	:	21.5 PS / 2,200 rpm (KS R1004) 15.8 KW (21.5 PS) / 2,200 rpm (DIN 6271) 15.8 KW (21.2 HP) / 2,200 rpm (SAE J 1349)
MAX. TORQUE	:	8.9 kg.m / 1000 rpm
FUEL CONSUMPTION	:	185 g/ps.hr / RATED SPEED
TYPE	:	WATER-COOLED, INDIRECT INJECTION
DISPLACEMENT	:	1,331 cc
No. OF CYLINDER	:	3
BORE & STROKE	:	$\phi 82 \times 84$ mm
HIGH IDLE SPEED	:	2,380 $\pm$ 30 rpm.
LOW IDLE SPEED	:	1,200 $\pm$ 30 rpm.
STARTING MOTOR	:	12 V x 1.7 KW

3.2) ALTERNATOR

VOLTAGE	:	12 V
RATING (AMPS)	:	40 A

3.3) BATTERY

SYSTEM VOLTAGE	:	12 V
QUANTITY	:	12 V x 1
CAPACITY (AMP)	:	80 AH

3.4) PUMP DRIVE

MAKER & MODEL	:	KTR, 32S-415634
DRIVE TYPE	:	FLEXIBLE COUPLING JOINT
PERMISSIBLE TORQUE & RPM	:	400 N-m, 6000 rpm

3.5) AIR CLEANER

MAKER & MODEL	:	Donaldson, FPG058637
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MODEL	DX27Z	DOCUMENT No		4/25
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TYPE : *PAPER ELEMENT(DOUBLE TYPE)*
 FILTRATION AREA : *0.90 m²(OUTER), 0.035 m²(INNER)*
 SIZE (DIA.x LENGTH) : *Φ157.8 mm x 351.5 mm.*

3.6) MUFFLER

DESCRIPTION : *SIDE INLET, VERTICAL OUTLET PIPE*
 SIZE (DIA.x LENGTH) : *Φ150 mm x395 mm*

3.7) FAN

TYPE : *SUCKER, 7-BLADE, PLASTIC*
 SIZE : *DIA. 360 mm*
 RPM AT RATED ENGINE RPM : *2,398 rpm*
 PULLEY RATIO : *1.09*

3.8) RADIATOR

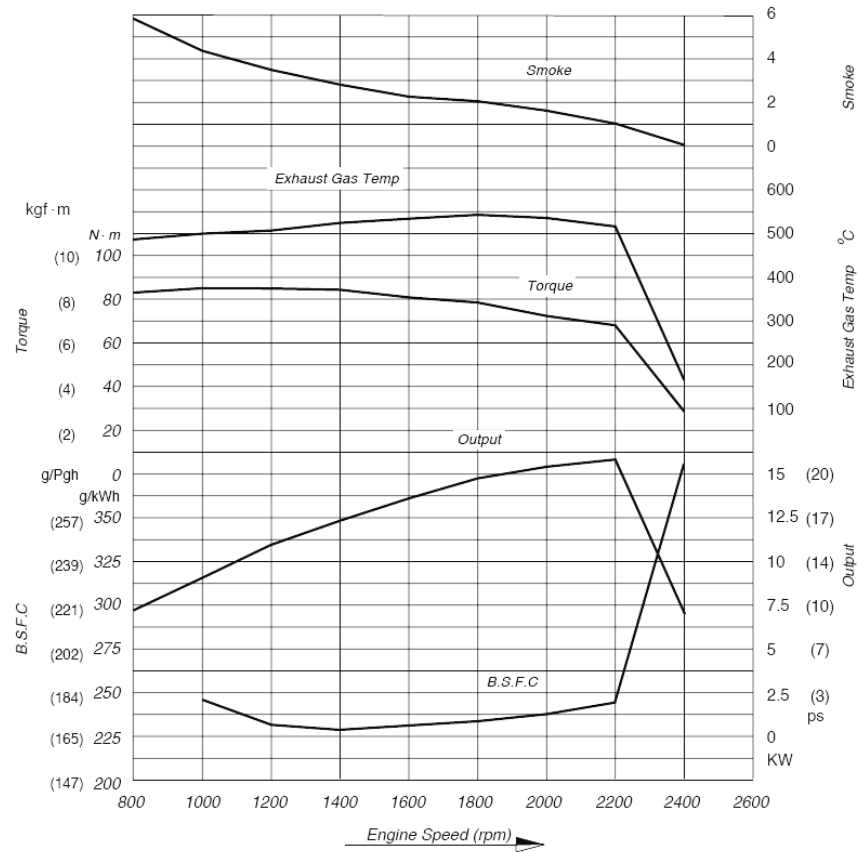
MAKER & MODEL : *Toyo,*
 TYPE : *CORRUGATE FIN*
 HEAT REJECTION CAPACITY : *8,000 Kcal/hr*

3.9) OIL COOLER

MAKER & MODEL : *Toyo,*
 TYPE : *FLAT PLATE FIN*
 HEAT REJECTION CAPACITY : *4,000 Kcal/hr*

MODEL	DX27Z	DOCUMENT No		5/25
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ENGINE PERFORMANCE CURVE



	TEST CONDITION
BAROMETRIC PRESSURE	760 mmHg
COOLING FAN & TYPE	Φ 360, SUCKER
ALTERNATOR	12V X 40A
AIR CLEANER	O
MUFFLER	X
PERFORMANCE STANDARD	KS R1004
POWER (RATED)	21.5 PS / 2,200 rpm
MAX. TORQUE	8.97 kg.m / 1,000 rpm
FUEL CONSUMPTION (RATED)	185 g/ps h

MODEL	DX27Z	DOCUMENT No		6/25
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4. HYDRAULIC SYSTEM

4.1) MAIN PUMP

MAKER & MODEL	:	<i>REXROTH, AP2D12LV3RS7-949-P</i>
TYPE	:	<i>TANDEM, AXIAL PISTON</i>
QUANTITY	:	<i>1</i>
DISPLACEMENT	:	<i>2 X 12 / cc / rev</i>
MAX. FLOW RATE	:	<i>2 X 26.4 Liter/min</i>
RELIEF VALVE	:	<i>220 kg/cm²</i>
WEIGHT(INCLUDING 2 G/P)	:	<i>20 kg.</i>

4.2) PUMP (S/W, BOOM S/W, D/Z)

MAKER & MODEL	:	<i>REXROTH</i>
TYPE	:	<i>GEAR</i>
DISPLACEMENT	:	<i>8.6 cc/rev.</i>
MAX. FLOW RATE	:	<i>18.9 Liter/min.</i>
RELIEF VALVE	:	<i>220 kg/cm²</i>

4.3) PILOT PUMP

MAKER & MODEL	:	<i>REXROTH</i>
TYPE	:	<i>GEAR</i>
DISPLACEMENT	:	<i>5.1 cc/rev.</i>
MAX. FLOW RATE	:	<i>11.2 Liter/min.</i>
RELIEF VALVE	:	<i>30 kg/cm²</i>
SOLENOID VALVE	:	<i>12V , 11.7W</i>

4.4) CONTROL VALVE

MAKER & MODEL	:	<i>NABTESCO, CP CV BCV35-QB10</i>
TYPE	:	<i>PILOT & MANUAL CONTROL.</i>
NO. OF SPOOLS.	:	<i>10</i>
SPOOL DIA.	:	<i>12 mm</i>
SPOOL ARRANGEMENTS	:	<i>DZ,B/SW,S/W,CON,PTO,ARM,TR1,TR2,BM,BKT</i>
RELIEF VALVE PRESSURE	:	<i>220 kgf/cm²</i>
PORT RELIEF VALVE PRESSURE:		<i>240 kgf/cm² AT 5L/min</i>
ACCESSARY VALVES	:	<i>NONE.</i>
WEIGHT	:	<i>25 kg</i>

MODEL	DX27Z	DOCUMENT No		7/25
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4.5) REMOTE CONTROL VALVE ; JOYSTICK

TYPE : *PILOT*
MAKER & MODEL : *JEIL, JA6C2000B*
PRESSURE/STROKE CHARACTERISTIC: *20 kg/cm² at 6.5/8.5 mm STROKE.*
(PORT 1,3 / PORT 2,4)
WEIGHT : *2 kg*

4.6) REMOTE CONTROL VALVE ; BOOM SWING & BREAKER

TYPE : *PILOT*
MAKER & MODEL : *JEIL, JA5F4000A*
PRESSURE/STROKE CHARACTERISTIC: *20 kg/cm² at 2.7 mm STROKE.*
WEIGHT : *0.9 kg*

4.7) REMOTE CONTROL VALVE ; DOZER

TYPE : *PILOT*
MAKER & MODEL : *JEIL, JA6H3000*
PRESSURE/STROKE CHARACTERISTIC: *22 kg/cm² at 7 mm STROKE.*
WEIGHT : *0.9 kg*

4.8) REMOTE CONTROL VALVE ; TRAVEL

TYPE : *PILOT*
MAKER & MODEL : *KPM, PVD6P4031*
PRESSURE/STROKE CHARACTERISTIC: *30 kg/cm² at 3.2 mm STROKE.*
WEIGHT : *3.9 kg*

4.9) RETURN FILTERS

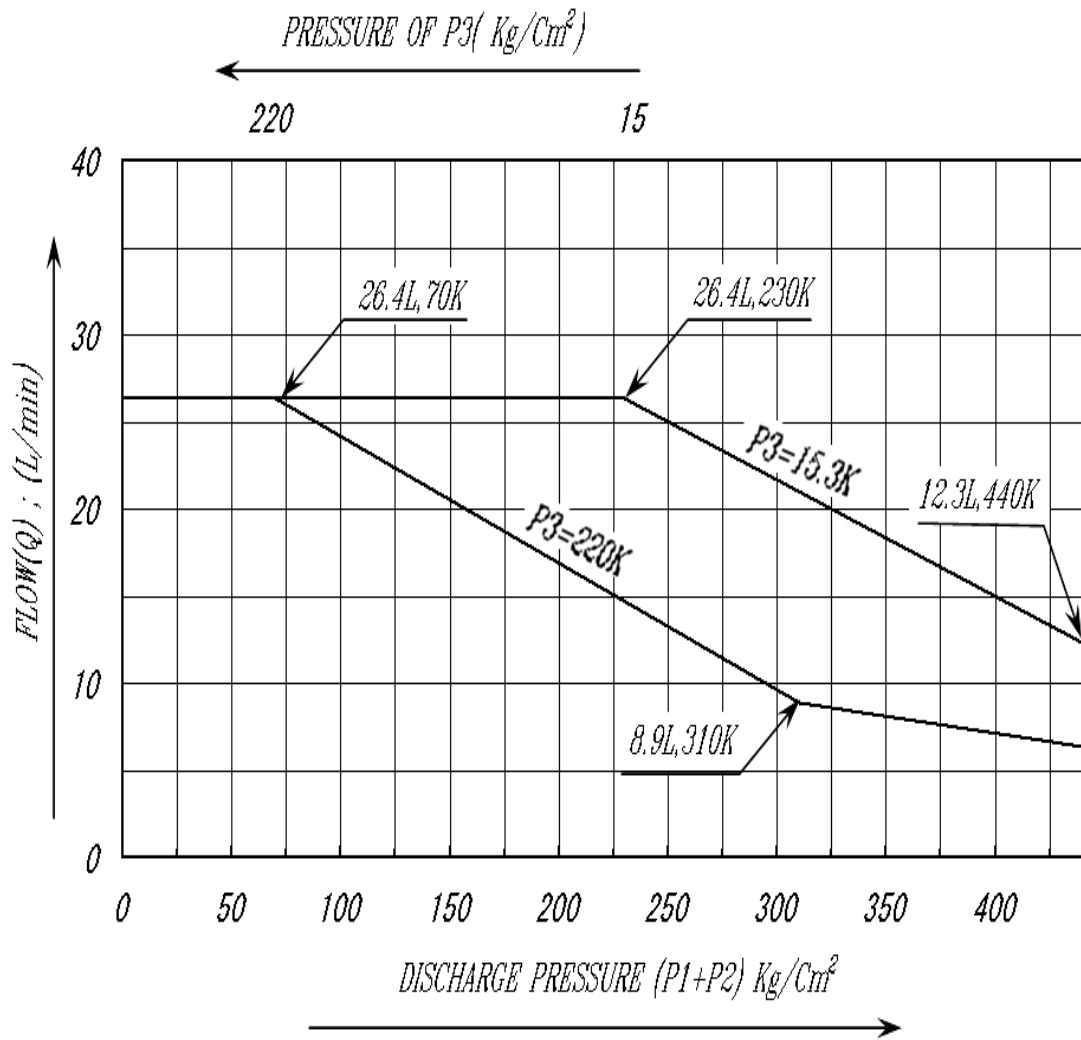
MAKER & MODEL : *YAMASHIN, RA06-30-15*
TYPE : *CARTRIDGE*
SIZE : *10 MICRON*
BYPASS V/V SETTING PRESSURE: *1.5 kgf/ cm²*

4.10) SUCTION FILTERS

MAKER & MODEL : *TAESUNG, D063403*
TYPE : *ELEMENT*
SIZE : *120 MESH*

MODEL	DX27Z	DOCUMENT No		8/25
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- PUMP PERFORMANCE CURVE



MODEL

DX27Z

DOCUMENT No

9/25

5. SWING MECHANISM

5.1) SWING MOTOR

MAKER & MODEL	:	NACHI, PCR-1B-05A-P-8773A
TYPE	:	AXIAL PISTON
DISPLACEMENT	:	22.1 cc/rev
CROSSOVER RELIEF VALVE SETTING	:	170 kg/cm ² AT 19 Liter/min
MAX. SUPPLY FLOW RATE	:	18.92 Liter/min
MOTOR SHAFT SPEED	:	830 rpm
MOTOR SHAFT TORQUE	:	7 kg.m

5.2) SWING REDUCTION GEAR

DRIVE TYPE	:	2-STAGE PLANETARY GEAR
REDUCTION RATIO	:	10
MAX. OUTPUT SPEED	:	83 rpm
MAX. OUTPUT TORQUE	:	50.9 kgf.m
WEIGHT(MOTOR+R/D GEAR)	:	23 kg.

5.3) PINION GEAR

TYPE	:	SUPER GEAR
GEAR P.C.D.	:	Φ 52 mm
No. OF TEETH	:	13
MODULE	:	4

5.4) SWING BEARING

MAX. MODEL	:	SHINIL
TYPE	:	BALL BRG. INTERNAL GEAR
GEAR PCD	:	Φ 484 mm
NO. OF TEETH	:	121 EA
BALL DIA.	:	Φ 22.225 mm
RACE O.D	:	Φ 640 mm
RACE HEIGHT	:	50 mm
STATIC THRUST LOAD	:	117,000 kg
WEIGHT	:	41 kg

5.5) SWING PERFORMANCE

MAX. SWING SPEED	:	9.63 rpm
MAX. SWING TORQUE	:	445 kgf.m

MODEL	DX27Z	DOCUMENT No		10/25
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6. TRAVEL MECHANISM

6.1 TRAVEL SYSTEM

6.1.1) TRAVEL MOTOR

MAKER & MOEL	:	<i>KYB, MAG-18VP-350F-6</i>
TYPE	:	<i>AXIAL PISTON, 2-SPEED</i>
DISPLACEMENT	:	<i>18.4 / 10.0 cc/rev</i>
MAX. SUPPLY FLOW	:	<i>26.4 Liter/min</i>
MOTOR SHAFT SPEED	:	<i>1,433 / 2,641 rpm</i>
MOTOR OUTPUT TORQUE	:	<i>6.4 / 3.5 kgf.m</i>

6.1.2) REDUCTION GEAR DEVICE

TYPE	:	<i>PLANETARY.</i>
REDUCTION GEAR RATIO	:	<i>41.923</i>
MAX. OUTPUT SPEED	:	<i>34.2 / 63 rpm</i>
MAX. OUTPUT TORQUE	:	<i>270.3 / 146.8 kgf.m</i>

6.1.3) SPROCKET

SPROCKET PCD	:	<i>Φ344.75 mm</i>
TRACK LINK PITCH	:	<i>52.5 mm.</i>
NO OF TEETH	:	<i>21</i>

6.1.4) TRAVEL PERFORMANCE

TRAVEL SPEED(EFF.=0.99/0.97)	:	<i>4.3 / 2.4 km/hr.</i>
TRACTION FORCE(EFF.=0.71)	:	<i>2.4 / 1.4 ton.</i>
GRADEABILITY	:	<i>58 %.</i>

MODEL	DX27Z	DOCUMENT No		11/25
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6.2 UNDER CARRIAGE

6.2.1) RECOIL MECHANISM

TYPE : *HYD. ADJUSTED.*
RECOIL SPRING PRELOAD : *1,700 kg.*
RECOIL SPRING MAX. LOAD : *2,992 kg.*
RECOIL SPRING STROKE : *82 mm*
ADJUSTER TYPE : *GREASE CYLINDER.*

6.2.2) ROLLERS ; LOWER

FLANGE TYPE : *SINGLE*
Q'TY PER SIDE : *3*
DIA. : *Φ95 mm.*

6.2.3) FRONT IDLER

DIA. : *Φ269 mm.*

6.2.4) TRACK LINK

MAKER & MODEL : *Topy*
NO. OF LINK / SIDE : *41*
LINK PITCH : *101.6 mm.*
TRACK GAUGE : *1,270 mm.*
TUMBLER DISTANCE : *1,550 mm.*

SHOE WIDTH (mm)	GROUND PRESSURE (bar)	MACHINE WEIGHT (ton)
300	<i>0.27</i>	<i>2.79</i>

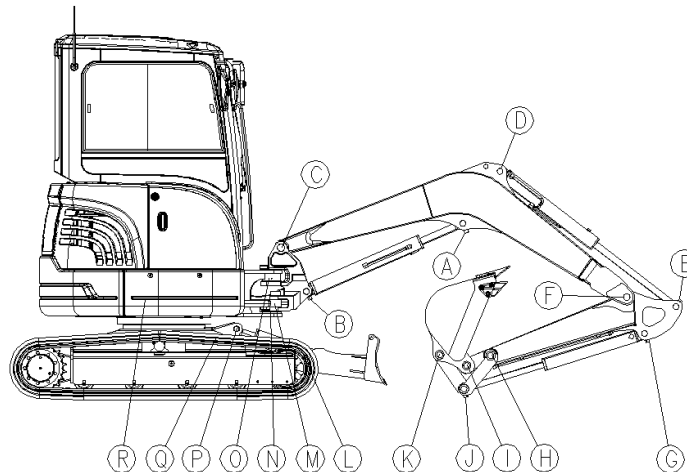
MODEL	DX27Z	DOCUMENT No		12/25
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7. HYDRAULIC CYLINDERS

	BOOM	ARM	BUCKET	DOZER	B/SWING
QUANTITY (EA)	1	1	1	1	1
BORE	Φ70	Φ70	Φ65	Φ75	Φ70
STROKE	567	500	425	129	390
ROD DIA.	Φ40	Φ40	Φ35	Φ40	Φ35
CLOSED LENGTH	865	805	680	420	660
HEAD END CUSHION	O	O	X	X	X
ROD END CUSHION	X	X	X	X	X
MAKER	WOO YOUNG				

8. FRONT

8.1 FRONT LINKAGE PIN SIZES



POINT	PIN DIA.(mm)	LENGTH(mm)	POINT	PIN DIA.(mm)	LENGTH(mm)
A	Φ40	179	J	Φ35	229
B	Φ40	246	K	Φ35	232
C	Φ40	277	L	Φ35	111
D	Φ35	148	M	Φ35	134
E	Φ35	148	N	Φ60	134
F	Φ35	202	O	Φ60	166
G	Φ35	148	P	Φ35	111
H	Φ35	229	Q	Φ35	111
I	Φ35	232	R	Φ35	159

MODEL	DX27Z	DOCUMENT No		13/25
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8.2 FRONT ATTACHMENTS

8.2.1) BOOM

	LENGTH (mm)	WEIGHT (kg)
STD. BOOM	2,000	99

8.2.2) ARM

	LENGTH (mm)	WEIGHT (kg)	DIGGING FORCE(ton)
STD. ARM	1,100	49	1.40
OPT. ARM	1,300	59	1.26

8.2.3) BUCKET

	CAPACITY(m³)		BUCKET WIDTH (mm)		DIGGING FORCE (ton)
	CECE	SAE	W/CUTTER	W/O CUTTER	
STD. BUCKET	0.07	0.08	474	448	2.02

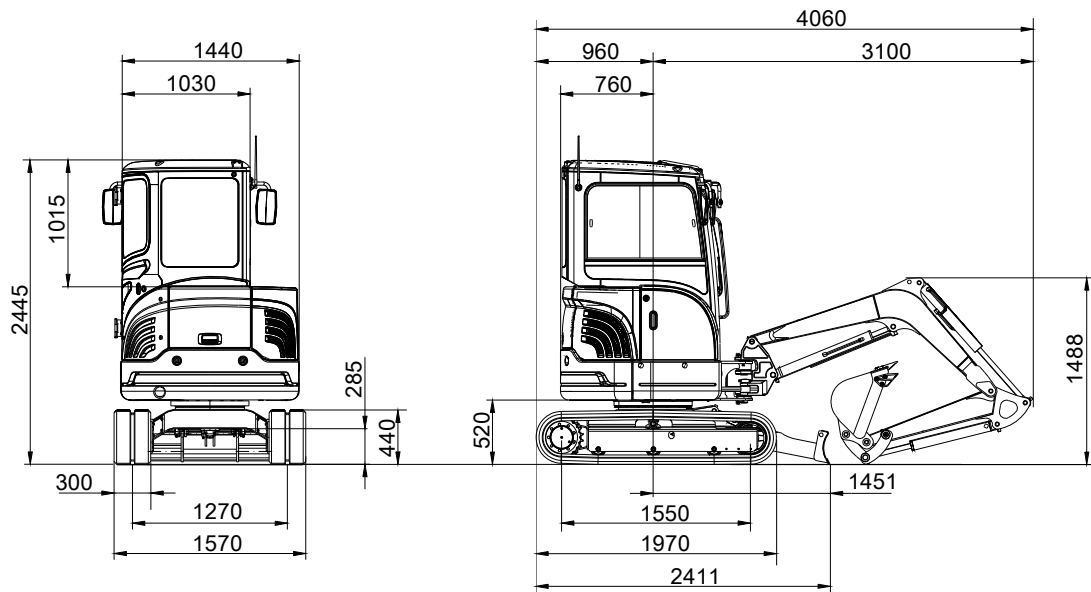
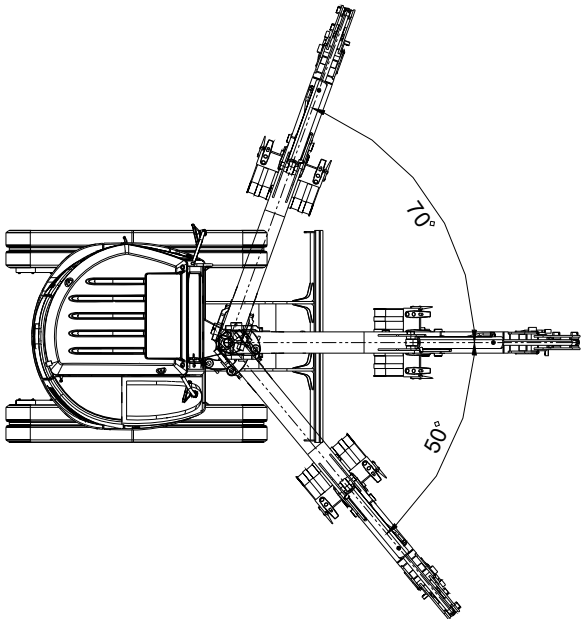
8.3 OPTION PIPING

MAIN SUPPLY PIPING : OPTION.
FRONT SUPPLY PIPING : OPTION..
AVAILABLE ATTACHMENT : BREAKER.

MODEL	DX27Z	DOCUMENT No		14/25
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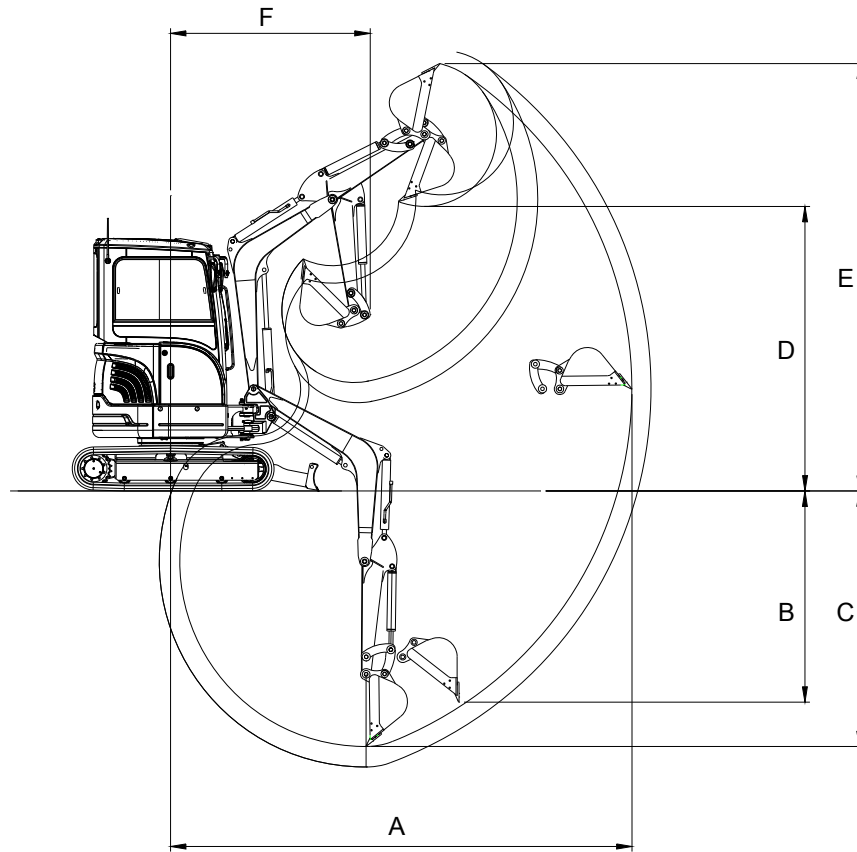
9. DIMENSION & WORKING RANGE

9.1 DIMENSIONS



MODEL	DX27Z	DOCUMENT No		15/25
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9.2) WORKING RANGE

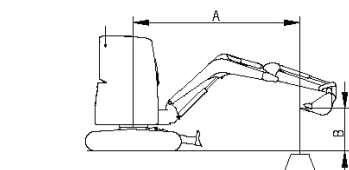


BOOM TYPE		(mm)	2,000	
ARM TYPE		(mm)	1,100	1,300
BUCKET TYPE(SAE)		(m ³)	0.08	0.08
MAX. DIGGING REACH	(mm)	A	4,505	4,690
MAX. VERTICAL WALL DEPTH	(mm)	B	2,295	2,500
MAX. DIGGING DEPTH	(mm)	C	2,490	2,690
MAX. LOADING HEIGHT	(mm)	D	2,775	2,935
MAX. DIGGING HEIGHT	(mm)	E	4,165	4,280
MIN. DIGGING RADIUS	(mm)	F	1,950	1,985

MODEL	DX27Z	DOCUMENT No		16/25
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10. LIFTING CAPACITIES

10.1) LIFTING CAPACITIES(DOZER UP)



WITHOUT DOZER

TRACK WIDTH	: 1.62 m (5' 3")
BOOM	: 2.0 m (6' 56")
ARM	: 1.1 m (3' 6")
BUCKET	: SAE 0.08 m ³ (CECE 0.07 m ³)
SHOE	: 300 mm (11.8")
UNIT	: RATING OVER FRONT

RATING OVER SIDE OR 360 degree

1,000 kg (1,000 lb)

METRIC

A(m) B(m)	2		2.5		3		3.5		MAX. REACH		
											A(m)
3					0.51	0.43			0.50	0.42	3.03
2.5					0.52	0.43			0.42	0.35	3.39
2			* 0.67	0.57	0.51	0.43	0.40	0.33	0.37	0.31	3.63
1.5	0.98	0.79	0.68	0.56	0.51	0.42	0.39	0.33	0.35	0.29	3.76
1			0.66	0.54	0.50	0.41	0.39	0.32	0.34	0.28	3.80
0.5	0.93	0.74	0.65	0.53	0.49	0.40	0.39	0.32	0.34	0.28	3.76
0 (GROUND)	0.92	0.74	0.64	0.52	0.48	0.40	0.38	0.32	0.36	0.30	3.63
-0.5	0.92	0.74	0.64	0.52	0.48	0.40			0.40	0.33	3.40
-1	0.93	0.74	0.64	0.53	0.49	0.40			0.48	0.39	3.04
-1.5	0.94	0.76							0.67	0.55	2.46

FEET

A(ft) B(ft)	6'		8'		10'		12'		MAX. REACH		
											A(ft)
10'									1.14	0.94	9' 9"
8'					1.11	0.92			0.90	0.75	11' 3"
6'			1.58	1.30	1.10	0.91	0.81	0.67	0.80	0.66	12' 1"
4'			1.53	1.26	1.08	0.89	0.80	0.66	0.75	0.62	12' 5"
2'			1.49	1.22	1.06	0.87	0.79	0.66	0.75	0.62	12' 5"
0 (GROUND)	2.37	1.87	1.47	1.20	1.04	0.86			0.80	0.66	11' 11"
-2'	2.38	1.88	1.47	1.20	1.04	0.86			0.91	0.75	10' 11"
-4'	2.41	1.91	1.48	1.21					1.19	0.98	9' 3"

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

MODEL

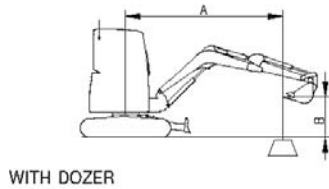
DX27Z

DOCUMENT No

17/25

DOOSAN INFRACORE

10.2) LIFTING CAPACITIES(DOZER DOWN)



WITH DOZER

TRACK WIDTH	1.62 m (5' 3")
BOOM	2.0 m (6' 56")
ARM	
BUCKET	1.1 m (3' 6")
SHOE	SAE 0.08 m ³ (CECE 0.07 m ³)
	300 mm (11.8")
UNIT	RATING OVER FRONT

RATING OVER SIDE OR 360 degree

1,000 kg (1,000 lb)

METRIC

A(m) B(m)	2		2.5		3		3.5		MAX. REACH		
											A(m)
3					*0.58	0.43			*0.59	0.42	3.03
2.5					*0.57	0.43			*0.59	0.35	3.39
2			*0.67	0.57	*0.62	0.43	*0.60	0.33	*0.60	0.31	3.63
1.5	*1.17	0.79	*0.85	0.56	*0.71	0.42	*0.64	0.33	*0.62	0.29	3.76
1			*1.04	0.54	*0.81	0.41	*0.69	0.32	*0.64	0.28	3.80
0.5	*1.24	0.74	*1.17	0.53	*0.89	0.40	*0.73	0.32	*0.66	0.28	3.76
0 (GROUND)	*1.67	0.74	*1.22	0.52	*0.92	0.40	*0.74	0.32	*0.69	0.30	3.63
-0.5	*1.66	0.74	*1.19	0.52	*0.90	0.40			*0.72	0.33	3.40
-1	*1.46	0.74	*1.07	0.53	*0.77	0.40			*0.75	0.39	3.04
-1.5	*1.09	0.76							*0.76	0.55	2.46

FEET

A(ft) B(ft)	6'		8'		10'		12'		MAX. REACH		
											A(ft)
10'									*1.30	0.94	9' 9"
8'					*1.26	0.92			*1.31	0.75	11' 3"
6'			*1.63	1.30	*1.42	0.91	*1.34	0.67	*1.34	0.66	12' 1"
4'			*2.19	1.26	*1.66	0.89	*1.42	0.66	*1.39	0.62	12' 5"
2'			*2.64	1.22	*1.88	0.87	*1.51	0.66	*1.45	0.62	12' 5"
0 (GROUND)	*2.37	1.87	*2.80	1.20	*1.99	0.86			*1.52	0.66	11' 11"
-2'	*4.08	1.88	*2.68	1.20	*1.90	0.86			*1.60	0.75	10' 11"
-4'	*3.31	1.91	*2.21	1.21					*1.68	0.98	9' 3"

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

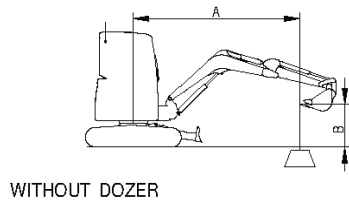
MODEL

DX27Z

DOCUMENT No

18/25

10.3) LIFTING CAPACITIES(1.3m ARM AND DOZER UP)



TRACK WIDTH : 1.62 m (5' 3")
 BOOM : 2.0 m (6' 56")
 ARM : 1.3 m (4' 2")
 BUCKET : SAE 0.08 m³ (CECE 0.07 m³)
 SHOE : 300 mm (11.8")
 UNIT : RATING OVER FRONT

RATING OVER SIDE OR 360 degree

1,000 kg (1,000 lb)

METRIC

A(m) B(m)	2		2.5		3		3.5		MAX. REACH		
											A(m)
3.5									* 0.53	0.53	2.76
3					*0.49	0.47			0.49	0.41	3.27
2.5					*0.49	0.47	0.44	0.36	0.41	0.34	3.61
2					*0.55	0.47	0.44	0.36	0.37	0.31	3.82
1.5	*0.98	0.88	0.74	0.61	0.55	0.46	0.43	0.36	0.35	0.29	3.95
1	1.04	0.84	0.72	0.60	0.54	0.45	0.43	0.35	0.35	0.29	3.99
0.5	1.01	0.81	0.71	0.58	0.53	0.44	0.42	0.35	0.35	0.29	3.95
0 (GROUND)	1.00	0.80	0.70	0.57	0.53	0.44	0.42	0.35	0.36	0.30	3.83
-0.5	1.00	0.80	0.70	0.57	0.53	0.43	0.42	0.35	0.40	0.33	3.61
-1	1.01	0.81	0.70	0.57	0.53	0.44			0.46	0.38	3.28
-1.5	1.02	0.82	0.71	0.58					0.60	0.50	2.78

FEET

A(ft) B(ft)	6'		8'		10'		12'		MAX. REACH		
											A(ft)
10'					* 1.10	1.01			1.09	0.91	10' 7"
8'					* 1.10	1.02			0.90	0.75	11' 11"
6'			* 1.40	* 1.40	1.20	1.00	0.89	0.74	0.81	0.67	12' 9"
4'			1.68	1.38	1.18	0.98	0.88	0.73	0.77	0.64	13' 1"
2'			1.63	1.34	1.15	0.96	0.87	0.72	0.76	0.63	13' 0"
0 (GROUND)	2.58	2.04	1.60	1.31	1.14	0.94	0.86	0.71	0.80	0.67	12' 7"
-2'	2.58	2.05	1.59	1.30	1.13	0.93			0.90	0.75	11' 8"
-4'	2.61	2.07	1.60	1.31	1.14	0.94			1.12	0.93	10' 2"
-6'	2.33	2.11							1.61*	1.51	7' 5"

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

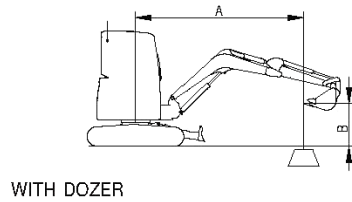
MODEL

DX27Z

DOCUMENT No

19/25

10.4) LIFTING CAPACITIES(1.3m ARM AND DOZER DOWN)



TRACK WIDTH	1.62 m (5' 3")
BOOM	2.0 m (6' 56")
ARM	
BUCKET	1.3 m (4' 2")
SHOE	SAE 0.08 m ³ (CECE 0.07 m ³)
	300 mm (11.8")
UNIT	RATING OVER FRONT
	RATING OVER SIDE OR 360 degree
	1,000 kg (1,000 lb)

METRIC

A(m)	2		2.5		3		3.5		MAX. REACH		
											A(m)
3.5									*0.53	0.53	2.76
3					*0.49	0.47			0.53*	0.41	3.27
2.5					*0.49	0.47	*0.53	0.36	0.54*	0.34	3.61
2					*0.55	0.47	*0.54	0.36	0.55*	0.31	3.82
1.5	*0.98	0.88	*0.75	0.61	*0.65	0.46	*0.59	0.36	0.57*	0.29	3.95
1	*1.42	0.84	*0.96	0.60	*0.76	0.45	*0.65	0.35	0.59*	0.29	3.99
0.5	*1.48	0.81	*1.12	0.58	*0.85	0.44	*0.70	0.35	0.61*	0.29	3.95
0 (GROUND)	*1.65	0.80	*1.20	0.57	*0.90	0.44	*0.73	0.35	0.64*	0.30	3.83
-0.5	*1.71	0.80	*1.20	0.57	*0.91	0.43	*0.71	0.35	0.67*	0.33	3.61
-1	*1.56	0.81	*1.12	0.57	*0.84	0.44			0.70*	0.38	3.28
-1.5	*1.27	0.82	*0.90	0.58					0.73*	0.50	2.78

FEET

A(ft)	6'		8'		10'		12'		MAX. REACH		
											A(ft)
10'					*1.10	1.01			*1.17	0.91	10' 7"
8'					*1.10	1.02			*1.19	0.75	11' 11"
6'			*1.40	*1.40	1.28*	1.00	*1.22	0.74	*1.23	0.67	12' 9"
4'			*1.98	1.38	1.54*	0.98	*1.33	0.73	*1.28	0.64	13' 1"
2'			*2.50	1.34	1.79*	0.96	*1.45	0.72	*1.33	0.63	13' 0"
0 (GROUND)	*2.69	2.04	*2.75	1.31	1.95*	0.94	*1.51	0.71	*1.41	0.67	12' 7"
-2'	*4.15	2.05	*2.73	1.30	1.94*	0.93			*1.49	0.75	11' 8"
-4'	*3.65	2.07	*2.40	1.31	1.62*	0.94			*1.57	0.93	10' 2"
-6'	*2.33	2.11							*1.61	1.51	7' 5"

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

MODEL

DX27Z

DOCUMENT No

20/25

DOOSAN INFRACORE

11. PERFORMANCE DATA

11.1) MAIN RELIEF PRESSURE
 WOKING : 220 kg/cm^2
 TRAVELLING : 220 kg/cm^2

11.2) ACTUATOR SPEED

OPERATION		UNIT	CYCLE TIME
BOOM	<i>UP</i>	<i>SEC</i>	1.7 ± 0.3
	<i>DOWN</i>	<i>SEC</i>	1.9 ± 0.3
ARM	<i>DUMP</i>	<i>SEC</i>	1.8 ± 0.3
	<i>CROWD</i>	<i>SEC</i>	2.5 ± 0.3
BUCKET	<i>DUMP</i>	<i>SEC</i>	2.2 ± 0.3
	<i>CROWD</i>	<i>SEC</i>	3.1 ± 0.3
SWING (3 REVOLUTIONS)		<i>SEC</i>	18.6 ± 1.0
DOZER(FULL)	<i>UP</i>	<i>SEC</i>	1.3 ± 0.3
	<i>DOWN</i>	<i>SEC</i>	1.8 ± 0.3
BOOM SWING	<i>LEFT</i>	<i>SEC</i>	6.4 ± 0.5
	<i>RIGHT</i>	<i>SEC</i>	5.6 ± 0.5
JACK-UP SPEED(3 TURNS)	<i>HIGH</i>	<i>SEC</i>	10.44 ± 1.0
	<i>LOW</i>	<i>SEC</i>	18.77 ± 1.5
TRAVEL SPEED	<i>HIGH</i>	<i>Km/h</i>	4.3
	<i>LOW</i>	<i>Km/h</i>	2.4

12. NOISE LEVEL

SURFACE SOUND POWER LEVEL
OPERATOR NOISE LEVEL

: **93 dB(A).**
: **79 dB(A).**

13. SUB GROUP WEIGHTS

ITEM	UNIT	FIGURE	REMARKS
UPPER STRUCTURE W/O FRONT	kg	1,596	WITH C/W
LOWER STRUCTURE	kg	863	BELOW S/W BRG.
FRONT ASS'Y	kg	331	
COUNTER WEIGHT	kg	280	
BOOM	kg	99	
ARM	kg	49	
BUCKET	kg	58	
BOOM CYL. (EA)	kg	24	
ARM CYL.	kg	22	
BUCKET CYL.	kg	17	
DOZER	kg	91.5	
DOZER CYL.	kg	13.8	
B/SWING CYL	kg	17	
CENTER JOINT	kg	14.3	
SWING BEARING	kg	41	
SWING BRACKET	kg	64	

MODEL	DX27Z	DOCUMENT No		22/25
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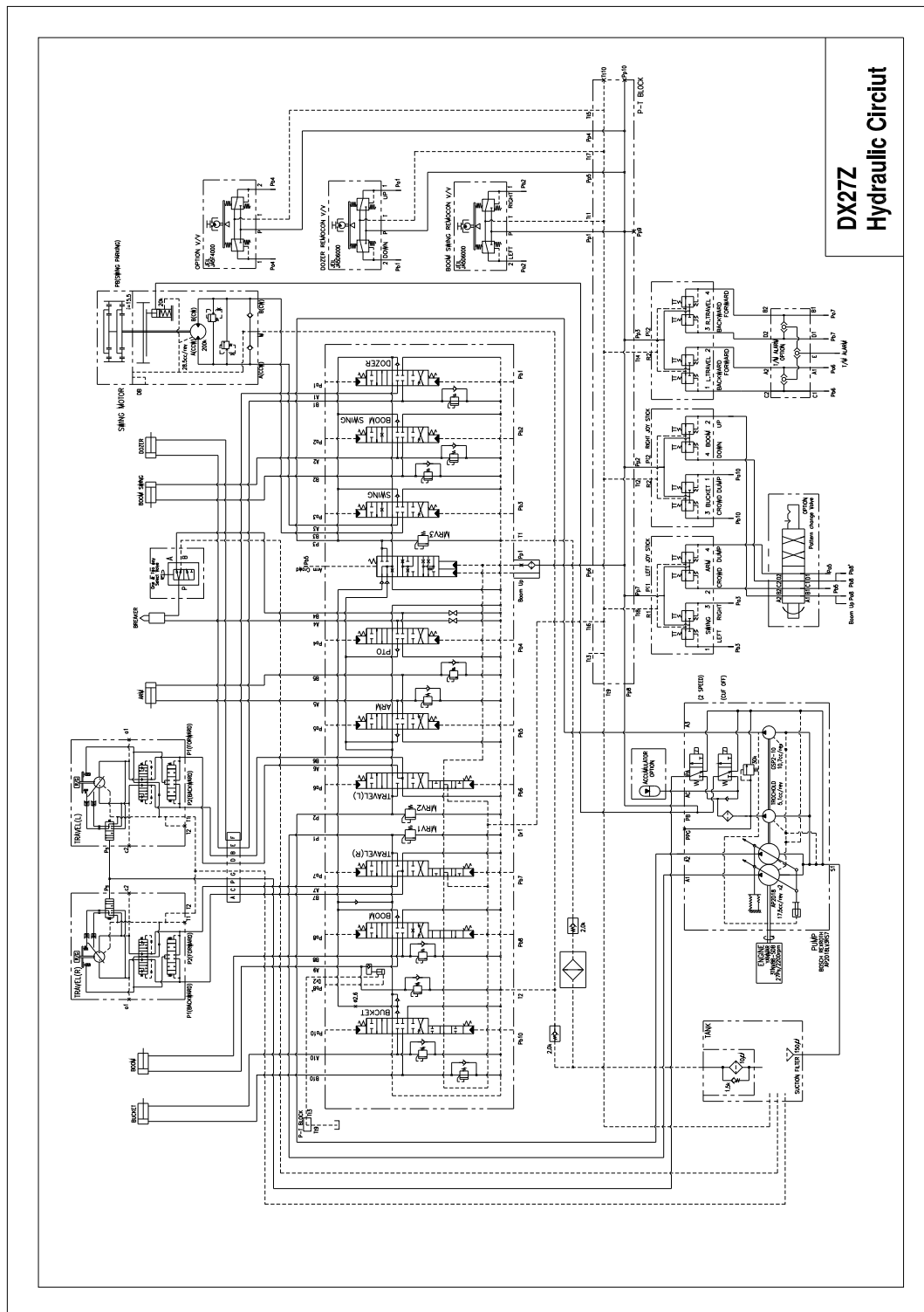
14. USER SERVICE DATE

SERVICE DATA									
No.	Items to Check	Service	Qty.	Service Interval					
				10	50	250	500	1000	2000
1	Radiator	Coolant (Antifreeze)	3.5 L	V					
2	Front & Blade	Grease	17	F100	W10				
3	Boom Swing Cylinder	Grease	4	F100					
4	Swing Gear	Grease	1						
5	Swing Bearing	Grease	1		W10				
6	Travel Reduction Device	Gear Oil (80W90)	0.5 L			V, F			
7	Engine Oil	Engine Oil (10W40)	5.5 L	V	F				
8	Hydraulic Oil Tank	Hydraulic Oil	30 L	V					
9	Fuel Tank	Diesel	30 L	V					
	Water Separator	(Water-Drain)	1	V					
10	Engine Oil Filter	Cartridge	1		F				
11	Fuel Filter	Cartridge	1						
12	Hydraulic Oil Return Filter	Element	1			F			
13	Air Cleaner (Outer)	Element	1			C			
	Air Cleaner (Inner)	Element	1						
14	Hydraulic Oil Suction Strainer	Strainer	1			F			
V: Maintenance and Refill.									
C: Cleaning.									
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.									
NOTE: For additional service items see list of "Maintenance Intervals" on page 4-10.									

MODEL	DX27Z	DOCUMENT No		23/25
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15. USER SERVICE DATE

15.1) HYDRAULIC CIRCUIT



MODEL	DX27Z	DOCUMENT No		24/25
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15.2) ELECTRIC CIRCUIT

