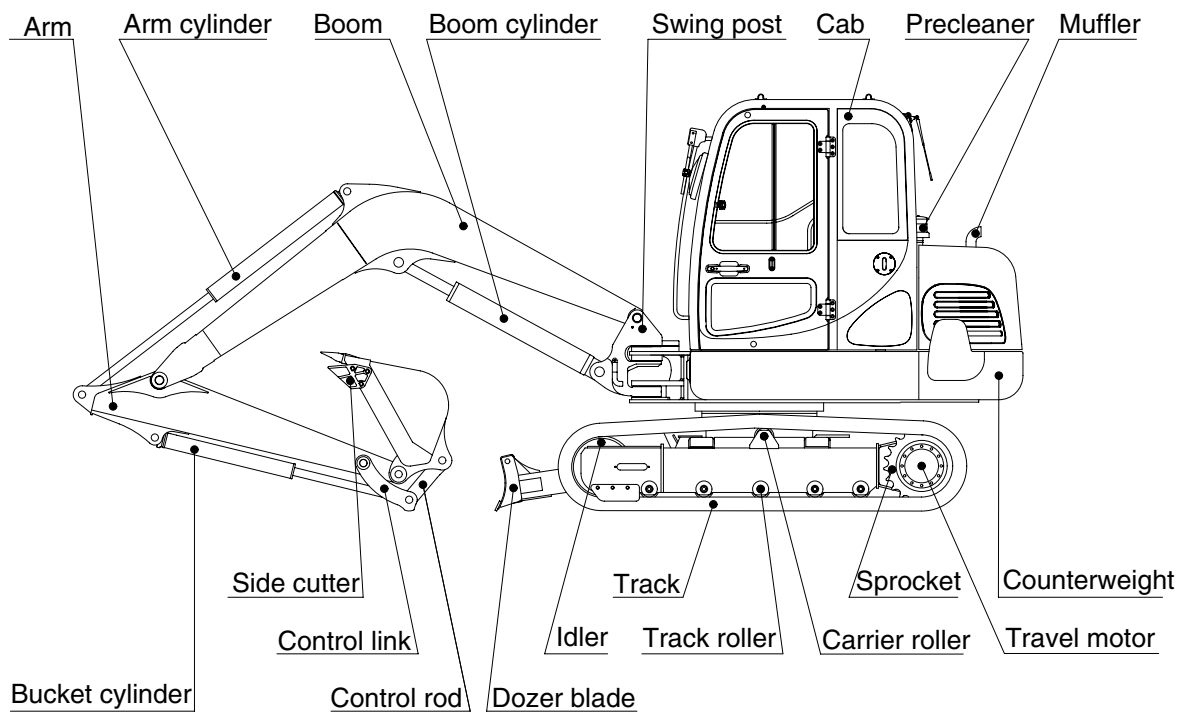
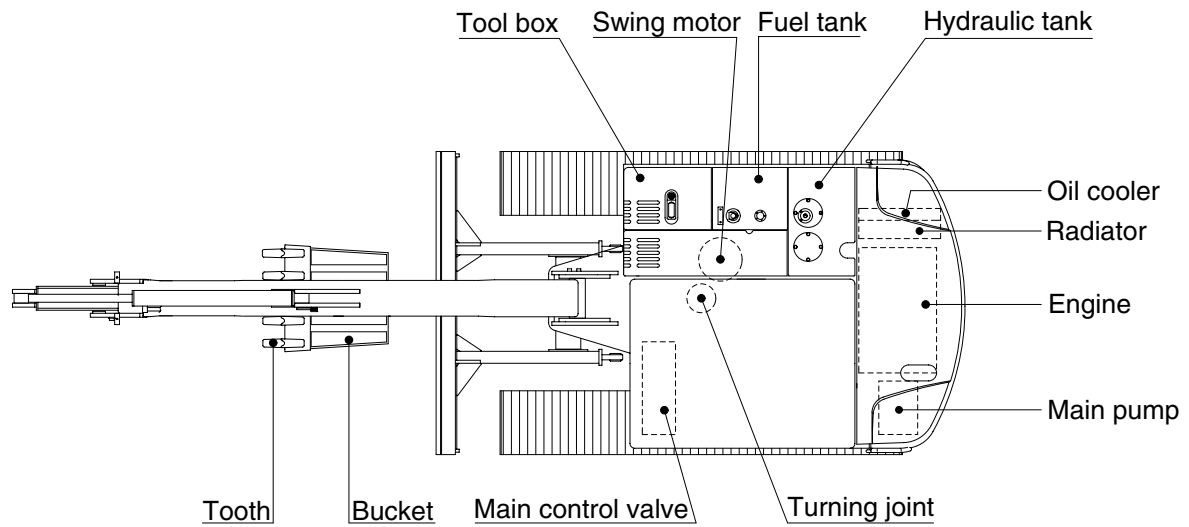


SPECIFICATIONS

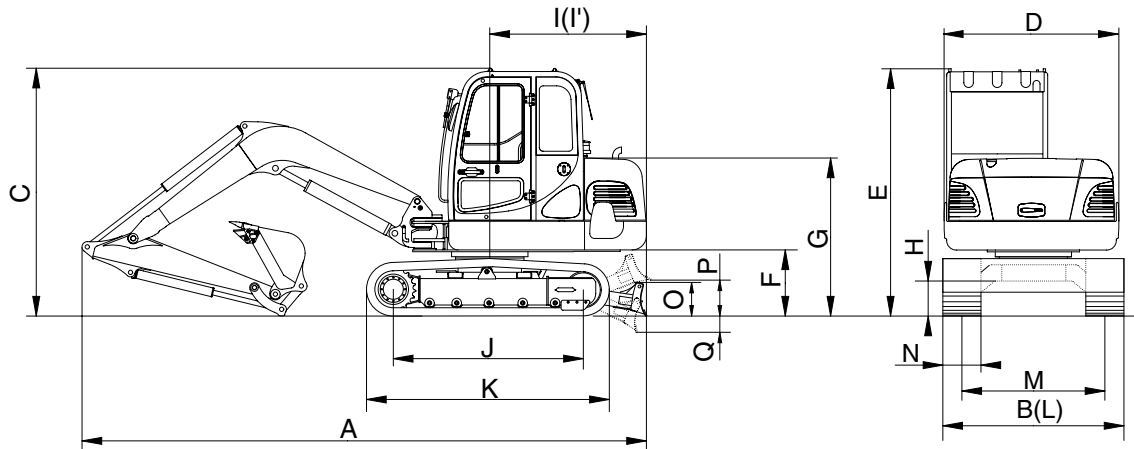
1. MAJOR COMPONENT



R5572SP01

2. SPECIFICATIONS

1) 3.0m(9'10") MONO BOOM, 1.6m(5' 3") ARM, WITH BOOM SWING POST

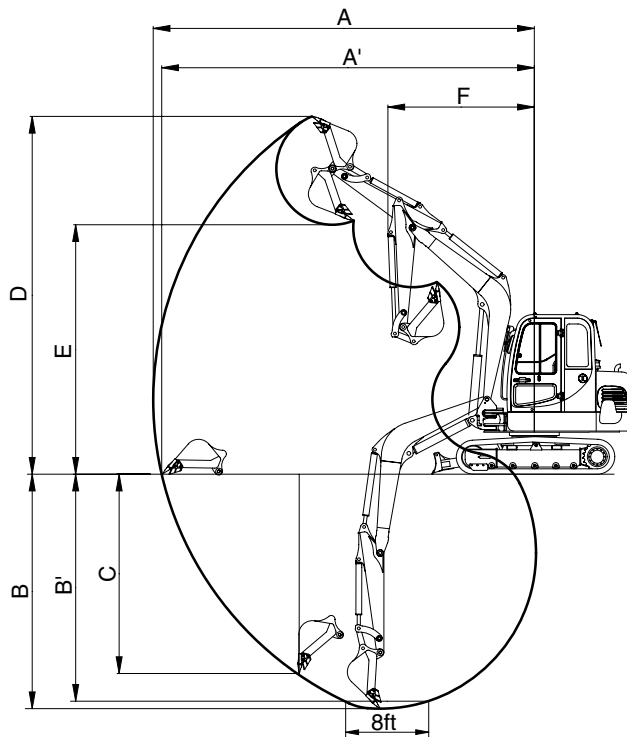


R557A2SP02

Description		Unit	Specification
Operating weight		kg(lb)	5700(12570)
Bucket capacity(SAE heaped), standard		m ³ (yd ³)	0.18(0.24)
Overall length	A	mm(ft-in)	5900(19' 4")
Overall width, with 400mm shoe	B		1920(6' 4")
Overall height	C		2550(8' 4")
Superstructure width	D		1830(6' 0")
Overall height of cab	E		2550(8' 4")
Ground clearance of counterweight	F		690(2' 3")
Engine cover height	G		1650(5' 5")
Minimum ground clearance	H		380(1' 3")
Rear-end distance	I		1640(5' 5")
Rear-end swing radius	I'		1650(5' 5")
Distance between tumblers	J		1990(6' 6")
Undercarriage length	K		2530(8' 4")
Undercarriage width	L		1900(6' 3")
Track gauge	M		1500(4'11")
Track shoe width, standard	N		400(16")
Height of blade	O		350(1' 2")
Ground clearance of blade up	P		420(1' 5")
Depth of blade down	Q		440(1' 5")
Travel speed(Low/high)		km/hr(mph)	2.2/4.0(1.4/2.5)
Swing speed		rpm	9.3
Gradeability		Degree(%)	35(70)
Ground pressure(400mm shoe)		kgf/cm ² (psi)	0.33(4.69)

3. WORKING RANGE

1) 3.0m(9' 10") MONO BOOM WITH BOOM SWING POST



R5572SP03

Description		1.6m(5' 3") Arm
Max digging reach	A	6150mm (20' 2")
Max digging reach on ground	A'	6010mm (19' 9")
Max digging depth	B	3820mm (12' 6")
Max digging depth (8ft level)	B'	3420mm (11' 3")
Max vertical wall digging depth	C	3200mm (10' 6")
Max digging height	D	5780mm (18'12")
Max dumping height	E	4050mm (13' 3")
Min swing radius	F	2350mm (7' 9")
Boom swing radius(left/right)		80° /50°
Bucket digging force	SAE	37.7 kN
		3850 kgf
		8490 lbf
	ISO	42.4 kN
		4330 kgf
		9550 lbf
Arm crowd force	SAE	28.4 kN
		2900 kgf
		6390 lbf
	ISO	31.9 kN
		3260 kgf
		7190 lbf

[] : Power boost

4. WEIGHT

Item	kg	lb
Upperstructure assembly	2650	5840
Main frame weld assembly	680	1500
Engine assembly	280	620
Main pump assembly	30	70
Main control valve assembly	40	90
Swing motor assembly	70	160
Hydraulic oil tank assembly	80	180
Fuel tank assembly	60	130
Boom swing post	110	240
Counterweight	210	460
Cab assembly	280	620
Lower chassis assembly	2160	4750
Track frame weld assembly	720	1590
Swing bearing	100	220
Travel motor assembly	80	180
Turning joint	30	70
Track recoil spring	30	70
Idler & tension body	70	150
Carrier roller	5.4	12
Track roller	12	26
Sprocket	20	40
Track-chain assembly(400mm standard triple grouser shoe)	330	730
Dozer blade assembly	210	460
Front attachment assembly(3.0m boom, 1.6m arm, 0.18m ³ SAE heaped bucket)	740	1630
3.0m boom assembly	260	570
1.6m arm assembly	140	310
0.18m ³ SAE heaped bucket	170	370
Boom cylinder assembly	60	130
Arm cylinder assembly	50	110
Bucket cylinder assembly	30	70
Bucket control link assembly	40	90
Dozer cylinder assembly	50	110
Boom swing cylinder assembly	40	90

5. LIFTING CAPACITIES

1) 3.0m(9'10") boom, 1.6m(5' 3") arm equipped with 0.18m³(SAE heaped) bucket and 400mm(16") triple grouser shoe, the dozer blade up with 210kg(460lb) counterweight.

•  : Rating over-front

•  : Rating over-side or 360 degree

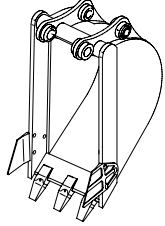
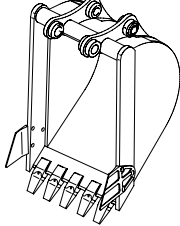
Load point height		Load radius								At max. reach		
		2.0m(6.6ft)		3.0m(9.8ft)		4.0m(13.1ft)		5.0m(16.4ft)		Capacity		Reach
												m(ft)
5.0m (16.4ft)	kg lb									*950 *2090	*950 *2090	4.12 (13.5)
4.0m (13.1ft)	kg lb					*1020 *2250	*1020 *2250			*980 *2160	730 1610	5.07 (16.6)
3.0m (9.8ft)	kg lb					*1090 *2400	1070 2360			880 1940	600 1320	5.59 (18.3)
2.0m (6.6ft)	kg lb	*3060 *6750	*3060 *6750	*1690 *3730	1610 3350	*1330 *2930	1020 2250	1030 2270	710 1570	810 1790	550 1210	5.83 (19.1)
1.0m (3.3ft)	kg lb			2230 4920	1490 3280	1420 3130	970 2140	1000 2200	680 1500	790 1740	540 1190	5.84 (19.2)
Ground Line	kg lb	*2340 *5160	*2340 *5160	2160 4760	1430 3150	1380 3040	930 2050	990 2180	670 1480	840 1850	560 1230	5.62 (18.4)
-1.0m (-3.3ft)	kg lb	*3600 *7940	2760 6080	2140 4720	1410 3110	1360 3000	920 2030			960 2120	650 1430	5.13 (16.8)
-2.0m (-6.6ft)	kg lb	*3780 *8330	2800 6170	2160 4760	1430 3150					*1150 *2540	900 1980	4.22 (13.8)
-3.0m (-9.8ft)	kg lb	*2060 *4540	*2060 *4540									

- Note
1. Lifting capacity are based on SAE J1097 and ISO 10567.
 2. Lifting capacity of the ROBEX series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
 3. The load point is a hook located on the back of the bucket.
 4. *indicates load limited by hydraulic capacity.

2) 3.0m(9'10") boom, 1.6m(5' 3") arm equipped with 0.18m³(SAE heaped) bucket and 400mm(16") triple grouser shoe, the dozer blade down with 210kg(460lb) counterweight.

Load point height		Load radius								At max. reach		
		2.0m(6.6ft)		3.0m(9.8ft)		4.0m(13.1ft)		5.0m(16.4ft)		Capacity		Reach
												m(ft)
5.0m (16.4ft)	kg lb									*950 *2090	*950 *2090	4.12 (13.5)
4.0m (13.1ft)	kg lb					*1020 *2250	*1020 *2250			*980 *2160	780 1720	5.07 (16.6)
3.0m (9.8ft)	kg lb					*1090 *2400	*1090 *2400			*1020 *2250	640 1410	5.59 (18.3)
2.0m (6.6ft)	kg lb	*3060 *6750	*3060 *6750	*1690 *3730	*1690 *3730	*1330 *2930	1090 2400	*1180 *2600	750 1650	*1060 *2340	590 1300	5.83 (19.1)
1.0m (3.3ft)	kg lb			*2360 *5200	1600 3530	*1600 *3530	1030 2270	*1290 *2840	730 1610	*1100 *2430	570 1200	5.84 (19.2)
Ground Line	kg lb	*2340 *5160	*2340 *5160	*2700 *5950	1530 3320	*1800 *3970	1000 2200	*1360 *3000	710 1570	*1150 *2540	600 1320	5.62 (18.4)
-1.0m (-3.3ft)	kg lb	*3600 *7940	2990 6590	*2680 *5910	1510 3330	*1810 *3990	980 2160			*1190 *2620	680 1540	5.13 (16.8)
-2.0m (-6.6ft)	kg lb	*3780 *8330	3040 6700	*2310 *5090	1530 3370					*1150 *2540	950 2090	4.22 (13.8)
-3.0m (-9.8ft)	kg lb	*2060 *4540	*2160 *4540									

6. BUCKET SELECTION GUIDE

	
0.07m³ SAE heaped bucket	0.18m³ SAE heaped bucket

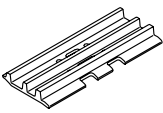
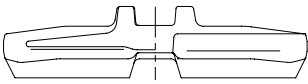
Capacity		Width		Weight	Recommendation
					3.0m (9'10") boom
SAE heaped	CECE heaped	Without side cutter	With side cutter		1.6m (5' 3") arm
0.07m³ (0.09yd³)	0.06m³ (0.08yd³)	315mm (12.4")	360mm (14.2")	84kg (185lb)	Applicable for materials with density of 1600kgf/m³ (2700lb/yd³) or less
0.18m³ (0.24yd³)	0.15m³ (0.20yd³)	705mm (27.8")	770mm (30.3")	137kg (300lb)	

7. UNDERCARRIAGE

1) TRACKS

X-leg type center frame is integrally welded with reinforced box-section track frames. The design includes dry tracks, lubricated rollers, idlers, sprockets, hydraulic track adjusters with shock absorbing springs and assembled track-type tractor shoes with triple grousers.

2) TYPES OF SHOES

Model	Shapes		Steel triple grouser	Rubber track
				
R55-7A	Shoe width	mm(in)	400(16)	400(16)
	Operating weight	kg(lb)	5700(12570)	5700(12570)
	Ground pressure	kgf/cm ² (psi)	0.33(4.69)	0.33(4.69)
	Overall width	mm(ft-in)	1900(6' 3")	1900(6' 3")

3) NUMBER OF ROLLERS AND SHOES ON EACH SIDE

Item	Quantity
Carrier rollers	1EA
Track rollers	5EA
Track shoes	40EA

8. SPECIFICATIONS FOR MAJOR COMPONENTS

1) ENGINE

Item	Specification
Model	Yanmar 4TNV98-EPHYB
Type	4-cycle diesel engine, low emission
Cooling method	Water cooling
Number of cylinders and arrangement	4 cylinders, in-line
Firing order	1-3-4-2
Combustion chamber type	Direct injection type
Cylinder bore × stroke	98 × 110mm(3.85" × 4.33")
Piston displacement	3319cc(203cu in)
Compression ratio	18.5 : 1
Rated gross horse power(SAE J1995)	57Hp at 2400rpm(42.5kW at 2400rpm)
Maximum torque at 1550rpm	20.5kgf · m(148lbf · ft)
Engine oil quantity	11.6 l (3.1U.S. gal)
Dry weight	270kg(595lb)
High idling speed	2400+ 50rpm
Low idling speed	1050± 100rpm
Rated fuel consumption	175.6g/Hp · hr at 2400rpm
Starting motor	12V-3.0kW
Alternator	12V-80A
Battery	1 × 12V × 100Ah

2) MAIN PUMP

Item	Specification
Type	Variable displacement tandem axis piston pumps
Capacity	2 × 26.3cc/rev
Maximum pressure	220kgf/cm ² (3130psi)
Rated oil flow	2 × 58 l /min (15.3U.S. gpm/ 12.8U.K. gpm)
Rated speed	2200rpm

3) GEAR PUMP

Item	Specification
Type	Fixed displacement gear pump single stage
Capacity	16.2/4.5cc/rev
Maximum pressure	220/30kgf/cm ² (3130/430psi)
Rated oil flow	35.6/9.9 l /min(9.4/2.6U.S. gpm/7.8/2.2U.K. gpm)

4) MAIN CONTROL VALVE

Item	Specification
Type	Sectional, 10 spools+1 option
Operating method	Hydraulic pilot system+Mechanical control system
Main relief valve pressure	220kgf/cm ² (3130psi)
Overload relief valve pressure	240kgf/cm ² (3410psi)

5) SWING MOTOR

Item	Specification
Type	Fixed displacement axial piston motor
Capacity	30.4cc/rev
Relief pressure	220kgf/cm ² (3130psi)
Braking system	Automatic, spring applied hydraulic released
Braking torque	14kgf · m(101lbf · ft)
Brake release pressure	20~40kgf/cm ² (284~570psi)
Reduction gear type	2 - stage planetary
Swing speed	9.3cc/rev

6) TRAVEL MOTOR

Item	Specification
Type	Variable displacement axial piston motor
Relief pressure	220kgf/cm ² (3130psi)
Reduction gear type	2-stage planetary
Braking system	Automatic, spring applied hydraulic released
Brake release pressure	9kgf/cm ² (128psi)
Braking torque	8.4kgf · m(61lbf · ft)

7) REMOTE CONTROL VALVE

Item		Specification
Type		Pressure reducing type
Operating pressure	Minimum	5kgf/cm ² (71psi)
	Maximum	20kgf/cm ² (284psi)
Single operation stroke	Lever	6.5/8.5mm(0.26/0.33in)

8) CYLINDER

Item		Specification
Boom cylinder	Bore dia × Rod dia × Stroke	ø 110 × ø 65 × 715mm
	Cushion	Extend only
Arm cylinder	Bore dia × Rod dia × Stroke	ø 90 × ø 55 × 850mm
	Cushion	Extend and retract
Bucket cylinder	Bore dia × Rod dia × Stroke	ø 80 × ø 50 × 660mm
	Cushion	-

※ Discoloration of cylinder rod can occur when the friction reduction additive of lubrication oil spreads on the rod surface.

※ Discoloration does not cause any harmful effect on the cylinder performance.

9) SHOE

Item	Width	Ground pressure	Link quantity	Overall width
R55-7A	400mm(16")	0.33kgf/cm ² (4.69psi)	40	1900mm(6' 3")

10) BUCKET

Item		Capacity		Tooth quantity	Width	
		SAE heaped	CECE heaped		Without side cutter	With side cutter
R55-7A	STD	0.18m ³ (0.24yd ³)	0.15m ³ (0.20yd ³)	5	705mm(27.8")	770mm(30.3")
	OPT	0.07m ³ (0.09yd ³)	0.06m ³ (0.08yd ³)	3	315mm(12.4")	360mm(14.2")

9. RECOMMENDED OILS

Use only oils listed below or equivalent.

Do not mix different brand oil.

Service point	Kind of fluid	Capacity l (U.S. gal)	Ambient temperature °C(°F)						
			-20 (-4)	-10 (14)	0 (32)	10 (50)	20 (68)	30 (86)	40 (104)
Engine oil pan	Engine oil	11.6(3.1)					SAE 30		
						SAE 10W			
							SAE 10W-30		
							SAE 15W-40		
Swing drive	Gear oil	1.5(0.4)							
Final drive		1.2×2 (0.3×2)					SAE 85W-140		
Hydraulic tank	Hydraulic oil	Tank: 70(18.5) System: 120(31.7)					ISO VG 32		
							ISO VG 46		
							ISO VG 68		
Fuel tank	Diesel fuel	120(31.7)				ASTM D975 NO.1			
							ASTM D975 NO.2		
Fitting (Grease nipple)	Grease	As required				NLGI NO.1			
							NLGI NO.2		
Radiator (Reservoir tank)	Mixture of antifreeze and water 50 : 50	10(2.6)					Ethylene glycol base permanent type		

SAE : Society of Automotive Engineers

API : American Petroleum Institute

ISO : International Organization for Standardization

NLGI : National Lubricating Grease Institute

ASTM : American Society of Testing and Material