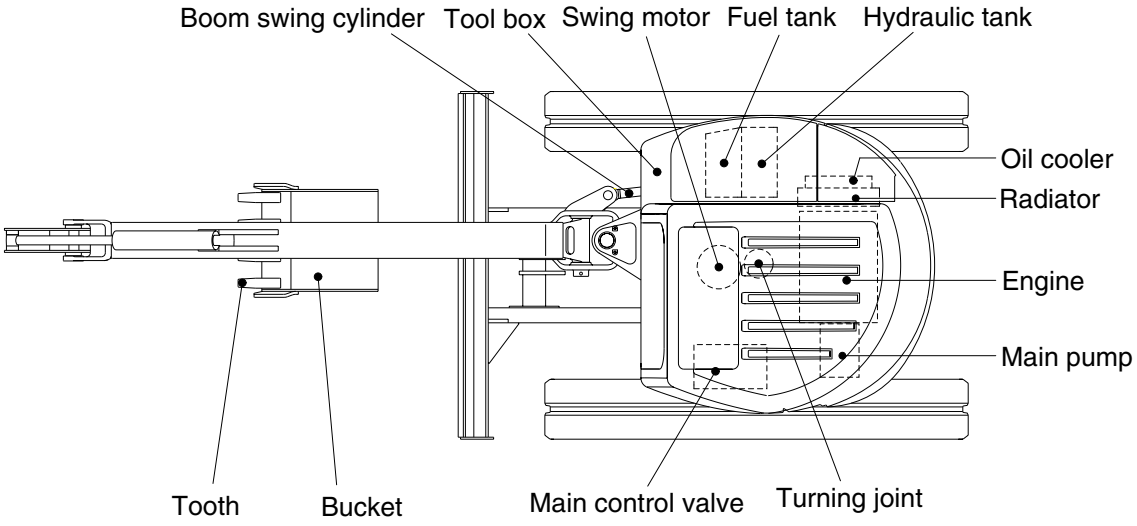
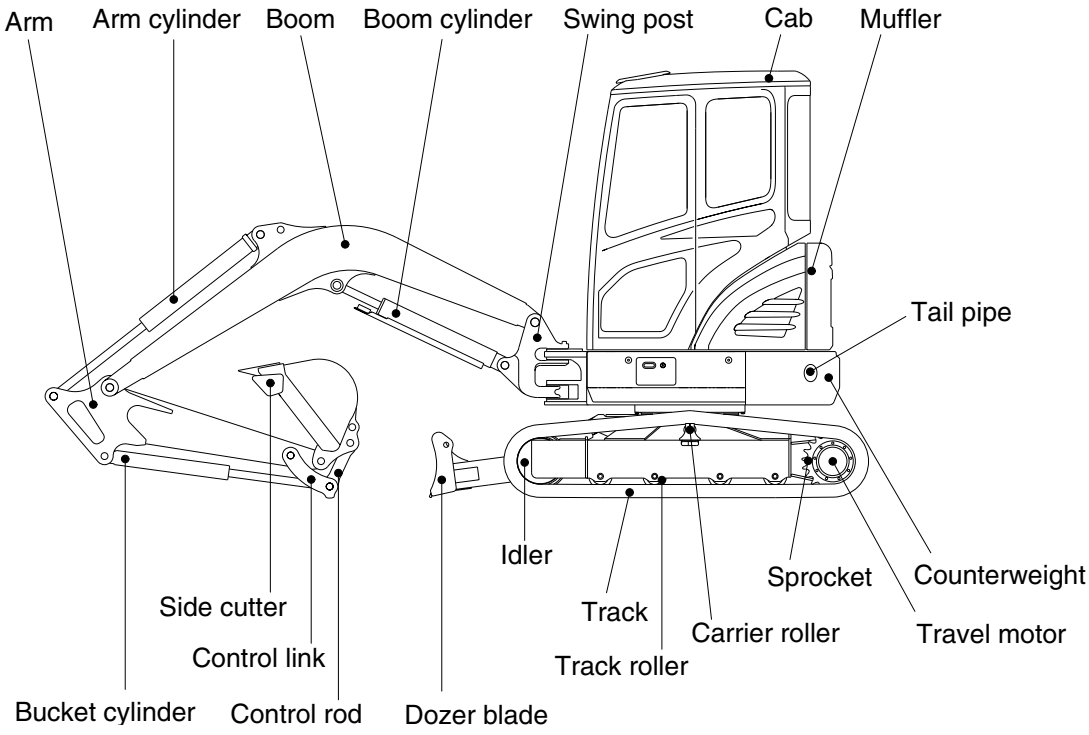
1. MAJOR COMPONENT

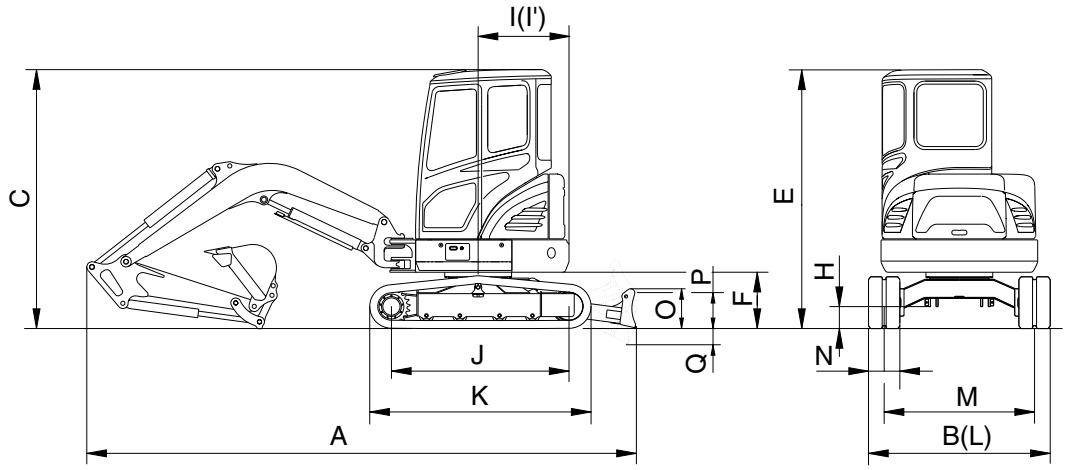




R35Z72SP01

2. SPECIFICATIONS

1) 2.5 m (8' 2") MONO BOOM, 1.3 m (4' 3") ARM, WITH BOOM SWING POST

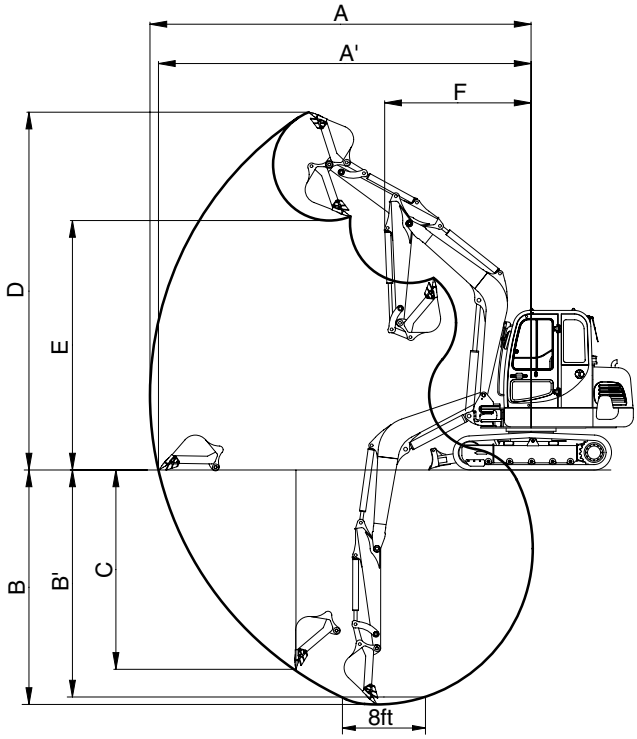


R35Z72SP02

Description		Unit	Specification
Operating weight		kg (lb)	3650 (8050)
Bucket capacity (SAE heaped), standard		m^3 (yd^3)	0.11 (0.14)
Overall length	A	mm (ft-in)	4790 (15' 9")
Overall width, with 300 mm shoe	B		1740 (5' 9")
Overall height	C		2500 (8' 2")
Overall height of cab	E		2500 (8' 2")
Ground clearance of counterweight	F		540 (1' 9")
Minimum ground clearance	H		290 (0' 11")
Rear-end distance	I		870 (2' 10")
Rear-end swing radius	I'		870 (2' 10")
Distance between tumblers	J		1700 (5' 7")
Undercarriage length	K		2130 (7' 0")
Undercarriage width	L		1740 (5' 9")
Track gauge	M		1440 (4' 9")
Track shoe width, standard	N		300 (1' 0")
Height of blade	O		370 (1' 3")
Ground clearance of blade up	P		375 (1' 3")
Depth of blade down	Q		390 (1' 3")
Travel speed (low/high)		km/hr (mph)	2.5/4.5 (1.6/2.8)
Swing speed		rpm	9.5
Gradeability		Degree (%)	30 (58)
Ground pressure (300 mm shoe)		kgf/cm^2 (psi)	0.34 (4.83)
Max traction force		kg (lb)	3100 (6835)

3. WORKING RANGE

1) 2.5 m (8' 2") MONO BOOM WITH BOOM SWING POST



R5572SP03

Description		1.3 m (4' 3") Arm
Max digging reach	A	5360 mm (17' 7")
Max digging reach on ground	A'	5240 mm (17' 2")
Max digging depth	B	3150 mm (10' 4")
Max digging depth (8ft level)	B'	2660 mm (8' 9")
Max vertical wall digging depth	C	2190 mm (7' 2")
Max digging height	D	4830 mm (15'10")
Max dumping height	E	3450 mm (11' 4")
Min swing radius	F	2350 mm (7' 9")
Boom swing radius (left/right)		75°/50°
Bucket digging force	SAE	27.9 kN
		2850 kgf
		6280 lbf
	ISO	31.4 kN
		3200 kgf
		7050 lbf
Arm crowd force	SAE	18.9 kN
		1930 kgf
		4250 lbf
	ISO	19.5 kN
		1990 kgf
		4390 lbf

4. WEIGHT

Item	kg	lb
Upperstructure assembly	2100	4630
Main frame weld assembly	480	1060
Engine assembly	155	340
Main pump assembly	25	55
Main control valve assembly	25	55
Swing motor assembly	40	90
Hydraulic oil tank assembly	50	110
Fuel tank assembly	30	70
Boom swing post	80	180
Counterweight	410	903
Cab assembly	210	460
Canopy assembly	100	220
Lower chassis assembly	1170	2580
Track frame weld assembly	400	880
Swing bearing	50	110
Travel motor assembly	35	77
Turning joint	15	35
Track recoil spring	12.5	27.5
Yoke	5	11
Idler	20	44
Carrier roller	2.7	6
Track roller	7.7	17
Sprocket	7.5	16.5
Rubber track (300 ㎜)	127.5	281
Dozer blade assembly	140	310
Front attachment assembly (2.5 m boom, 1.3 m arm, 0.11 m^3 SAE heaped bucket)	460	1015
2.5 m boom assembly	140	310
1.3 m arm assembly	80	180
0.11 m^3 SAE heaped bucket	80	180
Boom cylinder assembly	40	90
Arm cylinder assembly	40	90
Bucket cylinder assembly	30	70
Bucket control link assembly	20	45
Dozer cylinder assembly	30	70
Boom swing cylinder assembly	30	70

5. LIFTING CAPACITIES

1) 2.5 m (8' 2") boom, 1.3 m (4' 3") arm equipped with 0.11 m³ (SAE heaped) bucket and 300 mm (12") rubber track, the dozer blade up with 410 kg (903 lb) counterweight.

· : Rating over-front · : Rating over-side or 360 degree

Load point height		Load radius								At max. reach		
		1.0 m (3.3 ft)		2.0 m (6.6 ft)		3.0 m (9.9 ft)		4.0 m (13.2 ft)		Capacity		Reach
												m (ft)
4.0 m (13.2 ft)	kg									600	510	3.94
	lb									1320	1120	(12.9)
3.0 m (9.9 ft)	kg							560	470	420	360	4.74
	lb							1230	1040	930	790	(15.6)
2.0 m (6.6 ft)	kg					890	750	540	460	360	300	5.11
	lb					1960	1650	1190	1010	790	660	(16.8)
1.0 m (3.3ft)	kg					830	690	520	440	340	290	5.18
	lb					1830	1520	1150	970	750	640	(17.0)
Ground Line	kg			1570	1260	790	650	500	420	360	300	4.98
	lb			3460	2780	1740	1430	1100	930	790	660	(16.3)
-1.0 m (-3.3 ft)	kg	*2100	*2100	1590	1270	780	650	500	420	440	370	4.45
	lb	*4630	*4630	3510	2800	1720	1430	1100	930	970	820	(14.6)
-2.0 m (-6.6 ft)	kg			1630	1310	810	670					
	lb			3590	2890	1790	1480					

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.

※ Please be aware of the local regulations and instructions for lifting operations.

2) 2.5 m (8' 2") boom, 1.3 m (4' 3") arm equipped with 0.11 m³ (SAE heaped) bucket and 300 mm (12") rubber track, the dozer blade down with 410 kg (903 lb) counterweight.

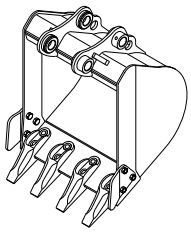
· : Rating over-front · : Rating over-side or 360 degree

Load point height		Load radius								At max. reach		
		1.0 m (3.3 ft)		2.0 m (6.6 ft)		3.0 m (9.9 ft)		4.0 m (13.2 ft)		Capacity		Reach
												m (ft)
4.0 m (13.2 ft)	kg									*700	510	3.94
	lb									*1540	1120	(12.9)
3.0 m (9.9 ft)	kg							*760	470	*630	360	4.74
	lb							*1680	1040	*1390	790	(15.6)
2.0 m (6.6 ft)	kg					*1780	750	1410	460	*620	300	5.11
	lb					*3920	1650	3110	1010	*1370	660	(16.8)
1.0 m (3.3 ft)	kg					2400	690	1380	440	*650	290	5.18
	lb					5290	1520	3040	970	*1430	640	(17.0)
Ground Line	kg			*1730	1260	2340	650	1360	420	*740	300	4.98
	lb			*3810	2780	5160	1430	3000	930	*1630	660	(16.3)
-1.0 m (-3.3 ft)	kg	*2100	*2100	*2850	1270	2330	650	1350	420	*920	370	4.45
	lb	*4630	*4630	*6280	2800	5140	1430	2980	930	*2030	820	(14.6)
-2.0 m (-6.6 ft)	kg			*3540	1310	*2050	670					
	lb			*7800	2890	*4520	1480					

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.

※ Please be aware of the local regulations and instructions for lifting operations.

6. BUCKET SELECTION GUIDE



0.11 m^3
SAE heaped bucket

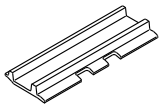
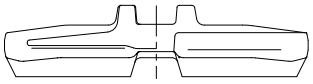
Capacity		Width		Weight	Recommendation
					2.5 m (8' 2") boom
SAE heaped	CECE heaped	Without side cutter	With side cutter		1.3 m (4' 3") arm
0.11 m^3 (0.14 yd^3)	0.09 m^3 (0.12 yd^3)	550 mm (21.7")	610 mm (24.0")	80 kg (176 lb)	Applicable for materials with density of 1600 kgf/m^3 (2700 lb /yd^3) or less

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 double grousers.

(2) TYPES OF SHOES

Model	Shapes		Steel double grouser	Rubber track
				
R35Z-9	Shoe width	mm (in)	300 (12")	300 (12")
	Operating weight	kg (lb)	3750 (8267)	3650 (8050)
	Ground pressure	kgf/cm^2 (psi)	0.34 (4.83)	0.34 (4.83)
	Overall width	mm (ft-in)	1740 (5' 9")	1740 (5' 9")

(3) NUMBER OF ROLLERS AND SHOES ON EACH SIDE

Item	Quantity
Carrier rollers	1EA
Track rollers	4EA
Track shoes	44EA

8. SPECIFICATIONS FOR MAJOR COMPONENTS

1) ENGINE

Item	Specification
Model	Yanmar 3TNV88-BSHYB
Type	4-cycle diesel engine, low emission
Cooling method	Water cooling
Number of cylinders and arrangement	3 cylinders, in-line
Firing order	1-3-2
Combustion chamber type	Direct injection type
Cylinder bore × stroke	88 × 90 mm (3.46" × 3.54")
Piston displacement	1642 cc (100.2 cu in)
Compression ratio	19.1 : 1
Rated gross horse power (SAE J1995)	27.3 Hp at 2200 rpm (20.4 kW at 2200 rpm)
Maximum torque at 1200 rpm	10.8 kgf · m (78 lbf · ft)
Engine oil quantity	6.7 ℓ (1.8 U.S. gal)
Dry weight	155 kg (340 lb)
High idling speed	2400+30 rpm
Low idling speed	1100±30 rpm
Rated fuel consumption	182 g/Hp · hr at 2200 rpm
Starting motor	12V-2.3 kW
Alternator	12V-55 A
Battery	1 ×12 V × 80 Ah (5h rating)

2) MAIN PUMP

Item	Specification
Type	Variable displacement tandem axis piston pumps
Capacity	2 ×17.5 cc/rev
Maximum pressure	230 kgf/cm² (3270 psi)
Rated oil flow	2 ×38.5 ℓ /min (10.2 U.S. gpm / 8.5 U.K. gpm)
Rated speed	2200 rpm

3) GEAR PUMP

Item	Specification
Type	Fixed displacement gear pump single stage
Capacity	10.7/5.1 cc/rev
Maximum pressure	230/30 kgf/cm^2 (3270/430 psi)
Rated oil flow	23.5/11.2 ℓ /min (6.2/3.0 U.S. gpm / 5.2/2.5 U.K. gpm)

4) MAIN CONTROL VALVE

Item	Specification
Type	Sectional, 10 spools (11 Blocks)
Operating method	Hydraulic pilot system
Main relief valve pressure	230 kgf/cm^2 (3270 psi)
Overload relief valve pressure	250 kgf/cm^2 (3560 psi)

5) SWING MOTOR

Item	Specification
Type	Fixed displacement axial piston motor
Capacity	22 cc/rev
Relief pressure	200 kgf/cm^2 (2845 psi)
Braking system	Automatic, spring applied hydraulic released
Braking torque	9.2 kgf · m (66.5 lbf · ft)
Brake release pressure	20~65 kgf/cm^2 (284~925 psi)
Reduction gear type	2 - stage planetary

6) TRAVEL MOTOR

Item	Specification
Type	Variable displacement axial piston motor
Relief pressure	230 kgf/cm^2 (3270 psi)
Reduction gear type	2-stage planetary
Braking system	Automatic, spring applied hydraulic released
Brake release pressure	12 kgf/cm^2 (170 psi)
Braking torque	4.2 kgf · m (30 lbf · ft)

7) REMOTE CONTROL VALVE

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

8) CYLINDER

Item		Specification
Boom cylinder	Bore dia × Rod dia × Stroke	Ø85× Ø45× 540 mm
	Cushion	Extend only
Arm cylinder	Bore dia × Rod dia × Stroke	Ø80× Ø45× 585 mm
	Cushion	Extend and retract
Bucket cylinder	Bore dia × Rod dia × Stroke	Ø70× Ø45× 510 mm
	Cushion	-
Boom swing cylinder	Bore dia × Rod dia × Stroke	Ø80× Ø45× 400 mm
	Cushion	-
Dozer cylinder	Bore dia × Rod dia × Stroke	Ø95× Ø50× 152 mm
	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 (Steel track)

Item	Width	Ground pressure	Link quantity	Overall width
R35Z-9	300 mm (12")	0.34 kgf/cm^2 (4.83 psi)	44	1740 mm (5' 9")

10) BUCKET

Item		Capacity		Tooth quantity	Width	
		SAE heaped	CECE heaped		Without side cutter	With side cutter
R35Z-9	STD	0.11 m^3 (0.14 yd^3)	0.09 m^3 (0.12 yd^3)	4	550 mm (21.7")	610 mm (24.0")

9. RECOMMENDED OILS

HYUNDAI genuine lubricating oils have been developed to offer the best performance and service life for your equipment. These oils have been tested according to the specifications of HYUNDAI and, therefore, will meet the highest safety and quality requirements.

We recommend that you use only HYUNDAI genuine lubricating oils and grease officially approved by HYUNDAI.

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	6.7 (1.8)	SAE 30 SAE 10W SAE 10W-30 SAE 15W-40
Final drive	Gear oil	0.5×2 (0.13×2)	SAE 85W-140
Hydraulic tank	Hydraulic oil	Tank : 37 (9.8) System : 60 (15.9)	ISO VG 32 ISO VG 46, HBHO VG 46★3 ISO VG 68
Fuel tank	Diesel fuel★1	40 (10.5)	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 soft water★2	5 .0 (1.3)	Ethylene glycol base permanent type (50 : 50)

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

★1 : Ultra low sulfur diesel
- sulfur content ≤ 15 ppm

★2 : Soft water
City water or distilled water

★3 : Hyundai Bio Hydraulic Oil

※ Using any lubricating oils other than HYUNDAI genuine products may lead to a deterioration of performance and cause damage to major components.

※ Do not mix HYUNDAI genuine oil with any other lubricating oil as it may result in damage to the systems of major components.

※ Do not use any engine oil other than that specified above, as it may clog the diesel particulate filter(DPF).

※ For HYUNDAI genuine lubricating oils and grease for use in regions with extremely low temperatures, please contact HYUNDAI dealers.