

We build a better future

Rabex

Equipped with Tier 3a engine



*Photo may include optional equipment.

Specifications

Engine

Model	Yanmar 3TnV88	
Type	Water cooled, 4 cycle diesel, 3-Cylinders in line, direct injection and low emission	
rated flywheel horse power		
SaE	J1995 (gross)	27.3 HP (20.4 kW) at 2,200rpm
	J1349 (net)	26.5 HP (19.8 kW) at 2,200rpm
dIn	627 1/1 (gross)	27.7 PS (20.4 kW) at 2,200rpm
	627 1/1 (net)	26.9 PS (19.8 kW) at 2,200rpm
Max. torque	10.9 kgf.m (79 lbf.ft) at 1,100 rpm	
Bore x stroke	88 mm x 90 mm (3.5" x 3.5")	
Piston displacement	1,642cc (100 in ³)	
Batteries	12V - 80 aH	
Starting motor	12V - 2.3 kW	
alternator	12V - 55 amp	

Hydraulic system

Main pump	
Type	Two variable displacement piston pumps + gear pump
rated flow	2 x 38.5 + 23.5 l/min
Pilot pump	Gear pump 11.2 l/min
Hydraulic motors	
Travel	Two speed axial piston motor with counter balance valve and parking brake
Swing	axial piston motor with automatic brake
Relief valve setting	
Implement circuits	230 Kg/cm ² (3,270 psi)
Travel circuit	230 Kg/cm ² (3,270 psi)
Swing circuit	230 Kg/cm ² (3,270 psi)
Pilot circuit	30 Kg/cm ² (430 psi)
Service valve	Installed

Hydraulic cylinders

no. of cylinder - bore x stroke	
Boom	1 - 85 x 540 mm (3.3" x 21.3")
arm	1 - 80 x 585 mm (3.1" x 23.0")
Bucket	1 - 70 X 510 mm (2.8" x 20.1")
Boom swing	1 - 80 X 400 mm (3.1" x 15.7")
dozer blade	1 - 95 X 152 mm (3.7" x 6.0")

Operator's cab

noise levels (dynamic value)	
outside cabin - lwa	94 dB
Inside cabin - lpa	75 dB

Coolant & lubricant capacity

(refilling)	liter	US gal	UK gal
Fuel tank	42	11.1	9.2
Engine coolant	5	1.32	1.1
Engine oil	6.7	1.77	1.5
Hydraulic tank	46	12.2	10.1

Travel levers

Traveling and steering: Two levers with foldable pedals.

Hydraulic Controls

Type	
Pilot control	Two joysticks with one safety lever (IH): Swing and arm, (rH): Boom and bucket with horn (ISo)
Engine throttle	Mechanical, cable type

Swing system

Swing motor	axial piston motor
Swing reduction	Planetary gear reduction
Swing circuit lubrication	Grease-bathed
Swing brake	Multi wet disc
Swing speed	9.5 rpm

Drives & Brakes

Max. travel speed (high / low)	4.5 km (2.8 mph) / 2.5 km (1.6 mph)
Maximum traction force	3.1 ton
Maximum gradeability	30°
Parking brake	Multi wet discs

Digging force (iso)

Bucket	3,200 kgf
	31.4 kn
	7,050 lbf
arm	1,990 kgf
	19.5 kn
	4,390 lbf

Weight (approximate)

operating weight, including 2,500 mm (8' 2") boom; 1,300 mm (4' 3") arm, SaE heaped 0.11 m³ (0.14 yd³) excavator bucket, lubricant, coolant, full fuel tank, hydraulic tank and the standard equipment.

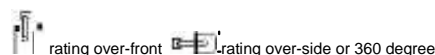
Shoe Width	rubber 300 mm (12")	Steel 300 mm (12")	
operating Weight	Cabin	3,650 Kg (8,050 lb)	3,750 Kg (8,270 lb)
	Canopy	3,500 Kg (7,720 lb)	3,600 Kg (7,940 lb)
Ground Pressure	Cabin	0.34 kg/cm ² (4.83 psi)	0.34 kg/cm ² (4.83 psi)
	Canopy	0.32 kg/cm ² (4.55 psi)	0.33 kg/cm ² (4.69 psi)

Undercarriage

X-type center frame is integrally welded with reinforced box-section track frames. The undercarriage includes lubricated rollers, track adjusters with shock absorbing springs, sprockets and rubber shoes.

Center frame	X-leg type
Track frame	Pentagonal box type
no. of carrier roller on each side	1
no. of track roller on each side	4

Lifting Capacities R35Z-9



Boom : 2.50 m (8' 2") / arm : 1.30 m (4' 3") / Bucket : 0.11 m³ (0.14 yd³) SaE heaped / dozer up : 300 mm (12") rubber track

load point height m (ft)		load radius								at max. reach		
		1.0 m (3 ft)		2.0 m (7 ft)		3.0 m (10 ft)		4.0 m (13 ft)		Capacity		reach
												m (ft)
4.0 m	kg									600	510	3.94
13 ft	lb									1320	1120	(12.9)
3.0 m	kg							560	470	420	360	4.74
10 ft	lb							1230	1040	930	790	(15.6)
2.0 m	kg					890	750	540	460	360	300	5.11
7 ft	lb					1960	1650	1190	1010	790	660	(16.8)
1.0 m	kg					830	690	520	440	340	290	5.18
3 ft	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	kg	*2100	*2100	1590	1270	780	650	500	420	440	370	4.45
-3 ft	lb	*4630	*4630	3510	2800	1720	1430	1100	930	970	820	(14.6)
-2.0 m	kg			1630	1310	810	670					
-7 ft	lb			3590	2890	1790	1480					

Boom : 2.50 m (8' 2") / arm : 1.30 m (4' 3") / Bucket : 0.11 m³ (0.14 yd³) SaE heaped / dozer down : 300 mm (12") rubber track

load point height m (ft)		load radius								at max. reach		
		1.0 m (3 ft)		2.0 m (7 ft)		3.0 m (10 ft)		4.0 m (13 ft)		Capacity		reach
												m (ft)
4.0 m	kg									*700	510	3.94
13 ft	lb									*1540	1120	(12.9)
3.0 m	kg							*760	470	*630	360	4.74
10 ft	lb							*1680	1040	*1390	790	(15.6)
2.0 m	kg					*1780	750	1410	460	*620	300	5.11
7 ft	lb					*3920	1650	3110	1010	*1370	660	(16.8)
1.0 m	kg					2400	690	1380	440	*650	290	5.18
3 ft	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	kg	*2100	*2100	*2850	1270	2330	650	1350	420	*920	370	4.45
-3 ft	lb	*4630	*4630	*6280	2800	5140	1430	2980	930	*2030	820	(14.6)
-2.0 m	kg			*3540	1310	*2050	670					
-7 ft	lb			*7800	2890	*4520	1480					

- lifting capacity is based on SaE J1097, ISO 10567.
- lifting capacity of the robex Series does not exceed 75% of the tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
- The load point is a hook located on the back of the bucket.
- (*) indicates the load limited by hydraulic capacity.

Standard equipment

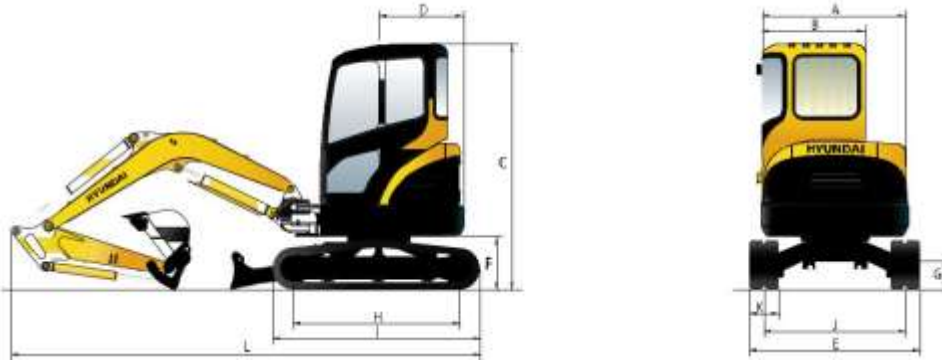
ISO standard cabin	· lockable door	Engine coolant temperature	· Console box tilting system (IH.)	· arm (1.3 m; 4' 3")
· Cabin roPS (ISO 3471)	· accessory box	Preheat engine	· Two front working lights	· rubber shoes (300 mm; 12")
· Cabin FoPS (ISO 3449)	· Centralized monitoring	low battery	· Electric horn	· Single acting piping (Breaker, etc)
· Cabin ToPS (ISO 12117)	· Gauges	air cleaner clogging	· Battery (1 x 12 V x 80 aH)	· double acting piping (Clamshell, etc)
· all-weather steel cab with all-around visibility	· Fuel level gauge	Fuel empty	· Battery master switch	
· Safety glass windows	· Engine coolant temperature gauge	· door and locks, one key fits all	· automatic swing brake	
· Sliding fold-in front window	· Warning lamps	· Mechanical suspension seat with seat belt	· removable reservoir tank	
· Sliding side window	· Quick clamp	· radio / USB player	· Water separator, fuel line	
	· Engine oil pressure		· Mono boom (2,5 m; 8' 2")	

Optional equipment

ISO standard canopy	· Beacon lamp	· Quick coupler	· lever Pattern Change Valve
· Canopy roPS (ISO 3471)	· accumulator, work equipment lowering	· Tool kit	· Steel shoes (300 mm; 12")
· Canopy FoPS (ISO 3449)	· Travel alarm	· operator suit	· air-conditioner
· Canopy ToPS (ISO 12117)		· Heater & defroster	

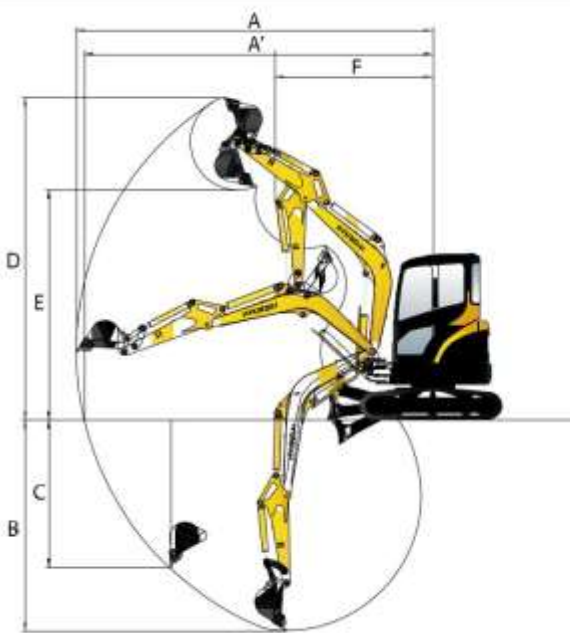
Dimensions & Working ranges

R35Z-9 Dimensions



		mm (ft in)		
A	overall width of upper structure	1500 (4' 11")	G Ground clearance	290 (0' 11")
B	overall width of cabin	1050 (3' 5")	H Tumbler distance	1700 (5' 7")
C	overall height of cabin	2500 (8' 2")	I Track length	2130 (6' 12")
D	Tail swing radius	870 (2' 10")	J Track gauge	1440 (4' 9")
E	overall width	1740 (5' 9")	K Track shoe width	300 (0' 12")
F	Clearance under counterweight	540 (1' 9")	L overall length	4790 (15' 9")

R35Z-9 Working ranges



		mm (ft in)	
	Boom length	2500 (8' 2")	
	Arm length	1300 (4' 3")	
A	Max. digging reach	5360 (17' 7")	
A'	Max. digging reach at ground	5240 (17' 2")	
B	Max. digging depth	3150 (10' 4")	
C	Max. vertical wall digging depth	2190 (7' 2")	
D	Max. digging height	4830 (15' 10")	
E	Max. dumping height	3450 (11' 4")	
F	Min. front swing radius	2350 (7' 9")	

Standard and optional equipment may vary. Contact your Hyundai dealer for more information. The machine may vary according to international standards. all imperial measurements rounded off to the nearest pound or inch.

PIEaSE ConTaCT

