

# Specifications R25Z-9A



## ENGINE

MODEL		MITSUBISHI S3L2
Type		4 Cycle Diesel engine, 3 cylinders in line, water cooled
Rated flywheel horse power		
SAE	J1995 (gross)	24.7 HP ( 18.4 kW) / 2,300 rpm
	J1349 (net)	23.1 HP ( 17.2 kW) / 2,300 rpm
DIN	6271/1 (gross)	25.0 PS ( 18.4 kW) / 2,300 rpm
	6271/1 (net)	23.4 PS ( 17.2 kW) / 2,300 rpm
Max. torque		8.0 kgf.m (58 lbf.ft) / 1,800 rpm
Bore x stroke		78 mm x 92 mm (3.07" x 3.62")
Piston displacement		1,318 cc (80.4 in³)
Batteries		12 V - 80 AH
Starting motor		12 V - 1.7 kW
Alternator		12 V - 40 A

## HYDRAULIC SYSTEM

MAIN PUMP	
Type	Variable displacement piston pumps
Max. flow	2 x 27.6 + 19.6 lpm
Pilot pump	Gear pump 10.4 lpm
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	220 Kg/cm <sup>2</sup> (3,130 psi)
Travel	220 Kg/cm <sup>2</sup> (3,130 psi)
Swing circuit	170 Kg/cm <sup>2</sup> (2,420 psi)
Pilot circuit	30 Kg/cm <sup>2</sup> (430 psi)
Service valve	Installed

## HYDRAULIC CYLINDERS

No. of cylinder- bore x stroke	
Boom	1 - 75 x 565 mm (3.0" x 22.2")
Arm	1 - 70 x 500 mm (2.8" x 19.7")
Bucket	1 - 60 x 420 mm (2.4" x 16.5")
Boom swing	1 - 75 x 400 mm (3.0" x 15.7")
Dozer blade	1 - 85 x 140 mm (3.3" x 5.5")

## OPERATOR'S CAB

Noise Levels (dynamic value)	
Outside cabin - LwA	94dB
Inside cabin - LpA	75dB

## COOLANT & LUBRICANT CAPACITY

	liter	US gal	UK gal
Fuel tank	25	6.6	5.5
Engine coolant	4.2	1.1	0.9
Engine oil	5.9	1.6	1.3
Hydraulic tank	27	7.1	5.9

## TRAVEL LEVERS

Traveling and steering : Two levers with foldable pedals.

## HYDRAULIC CONTROLS

Type	Two joysticks with one safety lever
Pilot control	(LH): 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 bearing lubrication	Grease-bathed
Swing brake	Multi wet disc
Swing speed	9.1 rpm

## DRIVES & BRAKES

Max. travel speed (high) / (low)	4.5 km/h / 2.5 km/h ((2.8 mph) / (1.6 mph))
Maximum traction force	2.4 ton
Maximum gradeability	30°
Parking brake	Wet disc

## DIGGING FORCE (ISO)

Bucket	2,150 kgf
	21.1 kN
	4,740 lbf
Arm [Long Arm]	1,490 [1,310] kgf
	14.6 [12.8] kN
	3,280 [2,890] lbf

## OPERATING WEIGHT (APPROXIMATE)

Operating weight, including 1,945 mm (6' 5") boom, 1,120 mm (3' 8") arm, SAE heaped 0.07 m<sup>3</sup> (0.1 yd<sup>3</sup>) excavator bucket, lubricant, coolant, full fuel tank, full hydraulic tank, and all standard equipments.

Shoe Width	Rubber shoe 250 mm (10")
Operating Weight	Cabin 2,600 kg (5,730 lb)
	Canopy 2,450 kg (5,400 lb)
Ground Pressure	Cabin 0.33 kg/cm <sup>2</sup> (4.69 psi)
	Canopy 0.31 kg/cm <sup>2</sup> (4.41 psi)

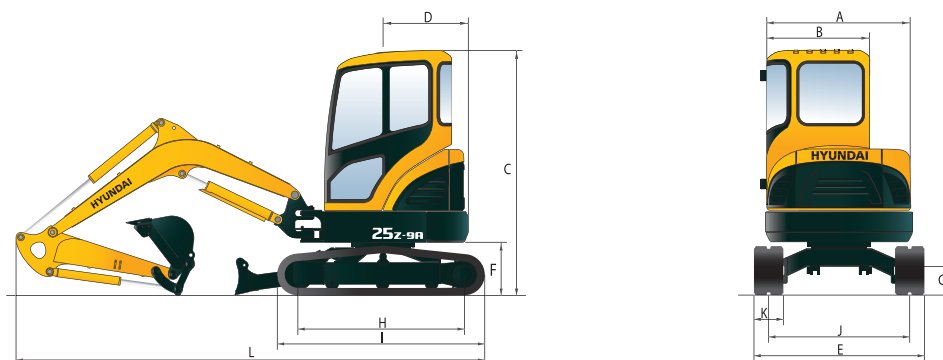
## UNDERCARRIAGE

X-leg type center frame is integrally welded with reinforced box-section track frames. The undercarriage includes lubricated rollers, track adjusters with shock absorbing springs and 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	3

# Dimensions & Working Ranges

## DIMENSIONS R25Z-9A

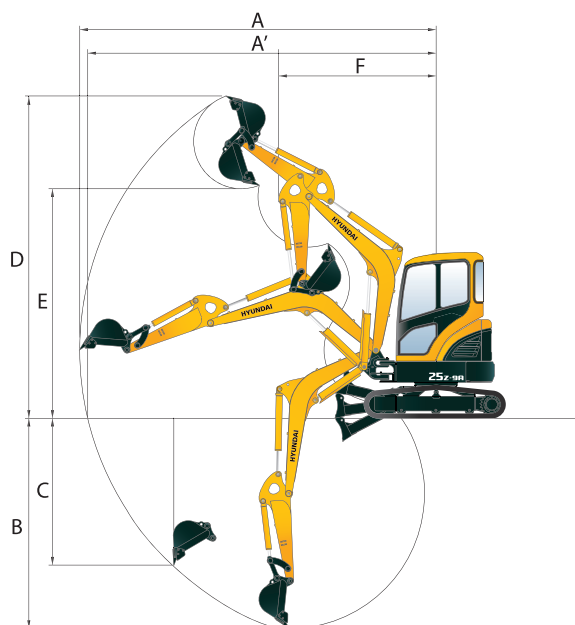


mm (ft · in)

<b>A</b> Overall width of upper structure	1,485 (4' 10")	<b>G</b> Ground clearance	290 (11")
<b>B</b> Overall width of cab	1,050 (3' 5")	<b>H</b> Tumbler distance	1,490 (4' 11")
<b>C</b> Overall height of cab	2,500 (8' 2")	<b>I</b> Track length	1,910 (6' 3")
<b>D</b> Tail swing radius - standard counterweight	775 (2' 7")	<b>J</b> Track gauge	1,250 (4' 1")
Tail swing radius - additional counterweight	875 (2' 10")	<b>K</b> Track shoe width	250 (10")
<b>E</b> Overall width	1,500 (4' 11")	<b>L</b> Overall length - Standard Arm	4,030 (13' 3")
<b>F</b> Clearance under counterweight	540 (1' 9")	Overall length - Long Arm	4,100 (13' 5")

## WORKING RANGES R25Z-9A

mm (ft · in)













Boom length	1,945 (6' 5")	1,945 (6' 5")
Arm length	1,120 (3' 8")	*1,350 (4' 5")
<b>A</b> Max. digging reach	4,480 (14' 8")	*4,680 (15' 4")
<b>A'</b> Max. digging reach on ground	4,340 (14' 3")	*4,540 (14' 11")
<b>B</b> Max. digging depth	2,420 (7' 11")	*2,645 (8' 8")
<b>C</b> Max. vertical wall digging depth	1,460 (4' 9")	*1,605 (5' 3")
<b>D</b> Max. digging height	4,150 (13' 7")	*4,235 (13' 11")
<b>E</b> Max. dumping height	2,930 (9' 7")	*3,030 (9' 11")
<b>F</b> Min. front swing radius	1,980 (6' 6")	*1,970 (6' 6")

# Lifting Capacities











## R25Z-9A

 Rating over-front  Rating over-side or 360 degrees

Boom : 1.945 m (6' 5") / Arm : 1.12 m (3' 8") / Bucket : 0.07 m<sup>3</sup> (0.01 yd<sup>3</sup>) SAE heaped / Dozer Down / 250 mm (9.8") Rubber track / Cabin Type / Standard counterweight

Load point height m (ft)		Load radius								At max. reach		
		2.0 m (5 ft)		2.5 m (10 ft)		3.0 m (10 ft)		3.5 m (10 ft)		Capacity		Reach
												m (ft)
3.5 m	kg									*550	400	2.88
10 ft	lb									*1210	880	(9.4)
3.0 m	kg					*660	360			*570	290	3.48
10 ft	lb					*1460	790			*1260	640	(11.4)
2.5 m	kg					*640	360			*580	240	3.85
10 ft	lb					*1410	790			*1280	530	(12.6)
2.0 m	kg			*740	490	*700	360	*680	270	*600	210	4.09
5 ft	lb			*1630	1080	*1540	790	*1500	600	*1320	460	(13.4)
1.5 m	kg	*1360	680	*970	470	*810	350	*730	260	*620	190	4.22
5 ft	lb	*3000	1500	*2140	1040	*1790	770	*1610	570	*1370	420	(13.8)
1.0 m	kg			*1220	450	*940	340	*790	260	*630	190	4.26
5 ft	lb			*2690	990	*2070	750	*1740	570	*1390	420	(14.0)
0.5 m	kg	*1310	610	*1380	430	*1040	330	*840	250	*650	190	4.22
0 ft	lb	*2890	1340	*3040	950	*2290	730	*1850	550	*1430	420	(13.8)
Ground Line	kg	*1760	600	*1450	430	*1080	320	*860	250	*670	190	4.09
	lb	*3880	1320	*3200	950	*2380	710	*1900	550	*1480	420	(13.4)
-0.5 m	kg	*1990	610	*1410	420	*1050	320			*690	210	3.86
-0 ft	lb	*4390	1340	*3110	930	*2310	710			*1520	460	(12.7)
-1.0 m	kg	*1740	610	*1250	430	*900	320			*690	250	3.49
-5 ft	lb	*3840	1340	*2760	950	*1980	710			*1520	550	(11.5)
-1.5 m	kg	*1250	630	*840	440					*650	350	2.90
-5 ft	lb	*2760	1390	*1850	970					*1430	770	(9.5)
-2.5 m	kg									*490	330	3.14
-10 ft	lb									*1080	730	(10.3)

Boom : 1.945 m (6' 5") / Arm : 1.12 m (3' 8") / Bucket : 0.07 m<sup>3</sup> (0.01 yd<sup>3</sup>) SAE heaped / Dozer Up / 250 mm (9.8") Rubber track / Cabin Type / Standard counterweight

Load point height m (ft)		Load radius								At max. reach		
		2.0 m (5 ft)		2.5 m (10 ft)		3.0 m (10 ft)		3.5 m (10 ft)		Capacity		Reach
												m (ft)
3.5 m	kg									460	400	2.88
10 ft	lb									1010	880	(9.4)
3.0 m	kg					410	360			330	290	3.48
10 ft	lb					900	790			730	640	(11.4)
2.5 m	kg					410	360			270	240	3.85
10 ft	lb					900	790			600	530	(12.6)
2.0 m	kg			560	490	410	360	310	270	240	210	4.09
5 ft	lb			1230	1080	900	790	680	600	530	460	(13.4)
1.5 m	kg	800	680	540	470	400	350	300	260	220	190	4.22
5 ft	lb	1760	1500	1190	1040	880	770	660	570	490	420	(13.8)
1.0 m	kg			520	450	380	340	290	260	210	190	4.26
5 ft	lb			1150	990	840	750	640	570	460	420	(14.0)
0.5 m	kg	730	610	500	430	370	330	290	250	210	190	4.22
0 ft	lb	1610	1340	1100	950	820	730	640	550	460	420	(13.8)
Ground Line	kg	720	600	490	420	370	320	290	250	220	190	4.09
	lb	1590	1320	1080	930	820	710	640	550	490	420	(13.4)
-0.5 m	kg	720	610	490	420	370	320			240	210	3.86
-0 ft	lb	1590	1340	1080	930	820	710			530	460	(12.7)
-1.0 m	kg	730	610	500	430	370	320			290	250	3.49
-5 ft	lb	1610	1340	1100	950	820	710			640	550	(11.5)
-1.5 m	kg	750	630	510	440					440	350	2.90
-5 ft	lb	1650	1390	1120	970					880	770	(9.5)
-2.5 m	kg									370	330	3.14
-10 ft	lb									820	730	(10.3)













- 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.

# Lifting Capacities













## R25Z-9A

 Rating over-front  Rating over-side or 360 degrees

Boom : 1.945 m (6' 5") / Arm : 1.35 m (4' 5") / Bucket : 0.07 m<sup>3</sup> (0.01 yd<sup>3</sup>) SAE heaped / Dozer Down / 250 mm (9.8") Rubber track / Cabin Type / Standard counterweight

Load point height m (ft)		Load radius										At max. reach		
		2.0 m (5 ft)		2.5 m (10 ft)		3.0 m (10 ft)		3.5 m (10 ft)		4.0 m (15 ft)		Capacity		Reach
														m (ft)
3.5 m	kg											*490	330	3.22
10 ft	lb											*1080	730	(10.6)
3.0 m	kg					*530	360					*510	250	3.74
10 ft	lb					*1170	790					*1120	550	(12.3)
2.5 m	kg					*530	370	*580	270			*530	210	4.07
10 ft	lb					*1170	820	*1280	600			*1170	460	(13.4)
2.0 m	kg					*610	360	*610	270			*540	190	4.29
5 ft	lb					*1340	790	*1340	600			*1190	420	(14.1)
1.5 m	kg	*1060	700	*840	480	*730	350	*670	260	*580	200	*560	180	4.42
5 ft	lb	*2340	1540	*1850	1060	*1610	770	*1480	570	*1280	440	*1230	400	(14.5)
1.0 m	kg	*1660	650	*1100	450	*870	340	*740	260	*670	200	*580	170	4.46
5 ft	lb	*3660	1430	*2430	990	*1920	750	*1630	570	*1480	440	*1280	370	(14.6)
0.5 m	kg	*1680	610	*1310	430	*990	320	*810	250	*680	200	*610	170	4.42
0 ft	lb	*3700	1340	*2890	950	*2180	710	*1790	550	*1500	440	*1340	370	(14.5)
Ground Line	kg	*1830	600	*1420	420	*1060	320	*850	250			*630	180	4.30
	lb	*4030	1320	*3130	930	*2340	710	*1870	550			*1390	400	(14.1)
-0.5 m	kg	*2080	600	*1430	420	*1070	310	*830	240			*650	190	4.08
-0 ft	lb	*4590	1320	*3150	930	*2360	680	*1830	530			*1430	420	(13.4)
-1.0 m	kg	*1890	600	*1330	420	*990	310					*670	200	3.75
-5 ft	lb	*4170	1320	*2930	930	*2180	680					*1480	490	(12.3)
-1.5 m	kg	*1520	610	*1070	430							*670	280	3.24
-5 ft	lb	*3350	1340	*2360	950							*1480	620	(10.6)

Boom : 1.945 m (6' 5") / Arm : 1.35 m (4' 5") / Bucket : 0.07 m<sup>3</sup> (0.01 yd<sup>3</sup>) SAE heaped / DozerUp / 250 mm (9.8") Rubber track / Cabin Type / Standard counterweight

Load point height m (ft)		Load radius										At max. reach		
		2.0 m (7 ft)		2.5 m (8 ft)		3.0 m (10 ft)		3.5 m (11 ft)		4.0 m (13 ft)		Capacity		Reach
														m (ft)
3.5 m	kg											380	330	3.22
10 ft	lb											840	730	(10.6)
3.0 m	kg					420	360					290	250	3.74
10 ft	lb					930	790					640	550	(12.3)
2.5 m	kg					420	370	310	270			240	210	4.07
10 ft	lb					930	820	680	600			530	460	(13.4)
2.0 m	kg					410	360	310	270			210	190	4.29
5 ft	lb					900	790	680	600			460	420	(14.1)
1.5 m	kg	820	700	550	480	400	350	300	260	230	200	200	170	4.42
5 ft	lb	1810	1540	1210	1060	880	770	660	570	510	440	440	370	(14.5)
1.0 m	kg	770	650	530	450	390	340	290	260	230	200	190	170	4.46
5 ft	lb	1700	1430	1170	990	860	750	640	570	510	440	420	370	(14.6)
0.5 m	kg	730	610	500	430	370	320	290	250	220	200	190	170	4.42
0 ft	lb	1610	1340	1100	950	820	710	640	550	490	440	420	370	(14.5)
Ground Line	kg	720	600	490	420	360	320	280	250			200	180	4.30
	lb	1590	1320	1080	930	790	710	620	550			440	400	(14.1)
-0.5 m	kg	710	600	490	420	360	310	280	240			220	190	4.08
-0 ft	lb	1570	1320	1080	930	790	680	620	530			490	420	(13.4)
-1.0 m	kg	720	600	490	420	360	310					250	220	3.75
-5 ft	lb	1590	1320	1080	930	790	680					550	490	(12.3)
-1.5 m	kg	730	610	490	430							330	280	3.24
-5 ft	lb	1610	1340	1080	950							730	620	(10.6)

- 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 R25Z-9A

### ISO standard cabin

Cabin	ROPS (ISO 3471)
	FOPS (ISO 3449)
	FOG (ISO 10262 Level I)
	TOPS (ISO 12117)

All-weather steel cab with all-around visibility

Safety glass windows

Sliding fold-in front window

Sliding side window

Lockable door

Accessory box

Centralized monitoring

Gauges

Fuel level gauge

Engine coolant temperature gauge

Warning lamps

Engine oil pressure

Engine coolant temperature

Preheat engine

Low battery

Air cleaner clogging

Fuel empty

Door and locks, one key fits all

Radio / USB player

Mechanical suspension seat with seat belt

Console box tilting system (LH.)

Two front working lights

Electric horn

Battery (1 x 12 V x 80 AH)

Battery master switch

Automatic swing brake

Removable reservoir tank

Water separator, fuel line

Mono boom (1.945 m, 6' 5")

Arm (1.12 m, 3' 8")

Rubber crawler (250 mm, 10")

Single acting piping (Breaker, etc)

Double acting piping (Clamshell, etc)

## OPTIONAL EQUIPMENT R25Z-9A

### ISO standard canopy

Canopy	ROPS (ISO 3471)
	FOPS (ISO 3449)
	TOPS (ISO 12117)

Beacon lamp

Accumulator, work equipment lowering

Travel alarm

Quick coupler

Tool kit

Long Arm (1.35 m, 4'5")

Heater & Defroster

Lever Pattern Change Valve

Additional CWT

- \* Standard and optional equipment may vary. Contact your Hyundai dealer for more information. The machine may vary according to international standards.
- \* The photos may include attachments and optional equipment that are not available in your area.
- \* Materials and specifications are subject to change without advance notice.
- \* All imperial measurements rounded off to the nearest pound or inch.

PLEASE CONTACT

