

Specifications R25Z-9AK



ENGINE

MODEL	KUBOTA D1305	
Type	4 Cycle Diesel engine, in line, water cooled	
Rated flywheel horse power		
SAE	J1995 (gross)	24.9 HP (18.5 kW) / 2,350 rpm
	J1349 (net)	23.2 HP (17.3 kW) / 2,350 rpm
DIN	6271/1 (gross)	25.2 PS (18.5 kW) / 2,350 rpm
	6271/1 (net)	23.5 PS (17.3 kW) / 2,350 rpm
Max. torque	8.3 kgf.m (60.17 lbf.ft) / 1,600 rpm	
Bore x stroke	78 mm x 88 mm (3.07" x 3.46")	
Piston displacement	1,261 cc (76.9 in ³)	
Batteries	12 V - 80 Ah	
Starting motor	12 V - 1.4 kW	
Alternator	12 V - 40 A	

HYDRAULIC SYSTEM

MAIN PUMP	
Type	Variable displacement piston pumps
Max. flow	2 x 27.6 + 19.6 l/min
Sub-pump for pilot circuit	Gear pump
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 Kgf/cm ² (3,130 psi)
Travel circuit	220 Kgf/cm ² (3,130 psi)
Swing circuit	175 Kgf/cm ² (2,489 psi)
Pilot circuit	30 Kgf/cm ² (430 psi)
Service valve	Installed

HYDRAULIC CYLINDERS

No. of cylinder- bore x stroke	
Boom	75 x 565 mm (3.0" x 22.2")
Arm	70 x 500 mm (2.8" x 19.7")
Bucket	55 x 420 mm (2.16" x 16.5")
Boom swing	75 x 400 mm (3.0" x 15.7")
Dozer blade	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	30	7.9	6.6
Engine coolant	5.0	1.3	1.0
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	Wet disc
Swing speed	9.1 rpm

DRIVES & BRAKES

Max. travel speed (high) / (low)	4.3 km/h / 2.4 km/h ((2.7 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 m³ (0.1 yd³) excavator bucket, lubricant, coolant, full fuel tank, full hydraulic tank and all standard equipments.

Shoe Width	Rubber shoe 250 mm (10")
Operating Weight	Cabin 2,580 kg (5,690 lb)
	Canopy 2,430 kg (5,360 lb)
Ground Pressure	Cabin 0.32 kg/cm ² (4.6 psi)
	Canopy 0.30 kg/cm ² (4.34 psi)

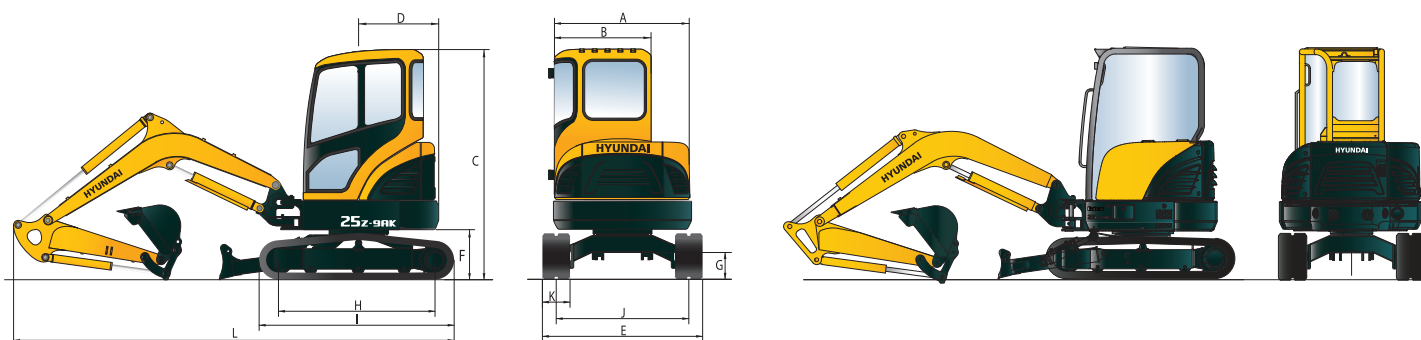
UNDERCARRIAGE

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-9AK

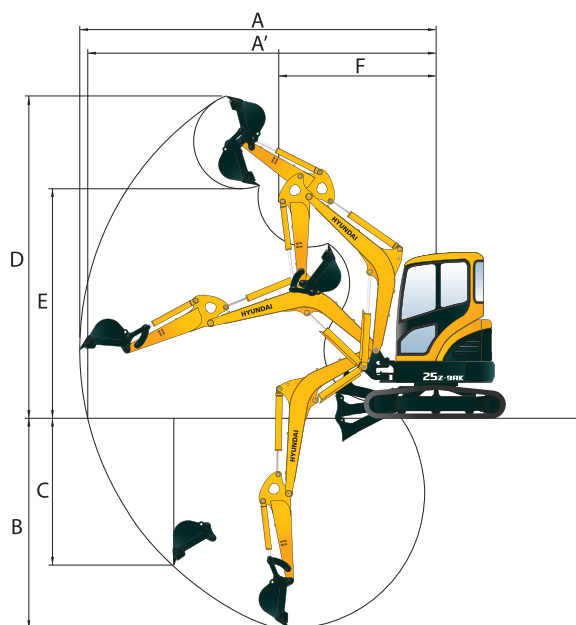


mm (ft · in)

A Overall width of upper structure	1,485 (4' 10")	G Ground clearance	290 (11")
B Overall width of cab	1,050 (3' 5")	H Tumbler distance	1,490 (4' 11")
C Overall height of cab	2,500 (8' 2")	I Track length	1,910 (6' 3")
D Tail swing radius - standard counterweight	775 (2' 7")	J Track gauge	1,250 (4' 1")
Tail swing radius - additional counterweight	875 (2' 10")	K Track shoe width	250 (10")
E Overall width	1,500 (4' 11")	L Overall length - Standard Arm	4,030 (13' 3")
F Clearance under counterweight	510 (1' 67")	Overall length - Long Arm	4,100 (13' 5")

WORKING RANGES R25Z-9AK

mm (ft · in)



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

* Long arm

Lifting Capacities

Rating over-front Rating over-side or 360 degrees

R25Z-9AK

Boom : 1.945 m (6' 5") / Arm : 1.12 m (3' 8") / Bucket : 0.07 m³ (0.01 yd³) 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									*560	450	3.07
10 ft	lb									*1230	990	(10.1)
3.0 m	kg					*590	460			*570	340	3.59
10 ft	lb					*1300	1010			*1260	750	(11.8)
2.5 m	kg					*590	460	*600	350	*590	290	3.92
10 ft	lb					*1300	1010	*1320	770	*1300	640	(12.9)
2.0 m	kg			*670	610	*650	450	*650	350	*600	260	4.13
5 ft	lb			*1480	1340	*1430	990	*1430	770	*1320	570	(13.5)
1.5 m	kg	*1180	860	*890	590	*770	440	*700	340	*620	240	4.24
5 ft	lb	*2600	1900	*1960	1300	*1700	970	*1540	750	*1370	530	(13.9)
1.0 m	kg	*1760	800	*1150	560	*900	420	*770	330	*640	240	4.26
5 ft	lb	*3880	1760	*2540	1230	*1980	930	*1700	730	*1410	530	(14.0)
0.5 m	kg	*1750	770	*1340	540	*1010	410	*830	320	*660	240	4.19
0 ft	lb	*3860	1700	*2950	1190	*2230	900	*1830	710	*1460	530	(13.7)
Ground Line	kg	*1990	760	*1430	530	*1070	400	*850	320	*680	260	4.04
	lb	*4390	1680	*3150	1170	*2360	880	*1870	710	*1500	570	(13.3)
-0.5 m	kg	*2030	760	*1420	530	*1060	400	*820	320	*690	290	3.78
-0 ft	lb	*4480	1680	*3130	1170	*2340	880	*1810	710	*1520	640	(12.4)
-1.0 m	kg	*1810	770	*1290	530	*960	400			*690	350	3.36
-5 ft	lb	*3990	1700	*2840	1170	*2120	880			*1520	770	(11.0)
-1.5 m	kg	*1410	780	*990	540					*610	500	2.67
-5 ft	lb	*3110	1720	*2180	1190					*1340	1100	(8.8)
-2.5 m	kg									*480	370	3.38
-10 ft	lb									*1060	820	(11.1)

Boom : 1.945 m (6' 5") / Arm : 1.12 m (3' 8") / Bucket : 0.07 m³ (0.01 yd³) 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									440	440	3.07
10 ft	lb									970	970	(10.1)
3.0 m	kg					450	450			330	330	3.59
10 ft	lb					990	990			730	730	(11.8)
2.5 m	kg					450	450	340	340	280	280	3.92
10 ft	lb					990	990	750	750	620	620	(12.9)
2.0 m	kg			610	600	450	440	340	340	250	250	4.13
5 ft	lb			1340	1320	990	970	750	750	550	550	(13.5)
1.5 m	kg	870	840	590	580	430	430	330	330	240	240	4.24
5 ft	lb	1920	1850	1300	1280	950	950	730	730	530	530	(13.9)
1.0 m	kg	810	780	560	550	420	410	320	320	230	230	4.26
5 ft	lb	1790	1720	1230	1210	930	900	710	710	510	510	(14.0)
0.5 m	kg	780	750	540	530	400	400	320	320	240	240	4.19
0 ft	lb	1720	1650	1190	1170	880	880	710	710	530	530	(13.7)
Ground Line	kg	770	740	530	520	400	390	310	310	250	250	4.04
	lb	1700	1630	1170	1150	880	860	680	680	550	550	(13.3)
-0.5 m	kg	770	740	530	520	390	390	310	310	280	280	3.78
-0 ft	lb	1700	1630	1170	1150	860	860	680	680	620	620	(12.4)
-1.0 m	kg	770	750	530	520	400	390			340	340	3.36
-5 ft	lb	1700	1650	1170	1150	880	860			750	750	(11.0)
-1.5 m	kg	790	760	540	530					500	490	2.67
-5 ft	lb	1740	1680	1190	1170					1100	1080	(8.8)
-2.5 m	kg									360	360	3.38
-10 ft	lb									790	790	(11.1)

- 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

Rating over-front Rating over-side or 360 degrees

R25Z-9AK

Boom : 1.945 m (6' 5") / Arm : 1.35 m (4' 5") / Bucket : 0.07 m³ (0.01 yd³) 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																
10 ft	lb																
3.0 m	kg																
10 ft	lb																
2.5 m	kg							*540	350								
10 ft	lb							*1190	770								
2.0 m	kg					*550	450	*570	350								
5 ft	lb					*1210	990	*1260	770								
1.5 m	kg			*740	600	*670	440	*630	340	*610	270						
5 ft	lb			*1630	1320	*1480	970	*1390	750	*1340	600						
1.0 m	kg	*1480	820	*1010	570	*820	430	*710	330	*650	260	*590	220				
5 ft	lb	*3260	1810	*2230	1260	*1810	950	*1570	730	1430	570	*1300	490				
0.5 m	kg	*1930	780	*1250	550	*950	410	*790	320	*680	260	*610	220				
0 ft	lb	*4250	1720	*2760	1210	*2090	900	*1740	710	*1500	570	*1340	490				
Ground Line	kg	*2020	760	*1390	530	*1040	400	*840	310			*630	230				
	lb	*4450	1680	*3060	1170	*2290	880	*1850	680			*1390	510				
-0.5 m	kg	*2090	750	*1430	520	*1070	390	*840	310			*660	250				
-0 ft	lb	*4610	1650	*3150	1150	*2360	860	*1850	680			*1460	550				
-1.0 m	kg	*1950	750	*1360	520	*1020	390					*670	300				
-5 ft	lb	*4300	1650	*3000	1150	*2250	860					*1480	660				
-1.5 m	kg	*1650	760	*1160	530							*660	400				
-5 ft	lb	*3640	1680	*2560	1170							*1460	880				
-2.0 m	kg	*1040	790														
-5 ft	lb	*2290	1740														
-2.5 m	kg												*510	420			(3.07)
-10 ft	lb												*1120	930			(10.1)

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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																
10 ft	lb																
3.0 m	kg																
10 ft	lb																
2.5 m	kg							340	340								
10 ft	lb							750	750								
2.0 m	kg					450	440	340	340								
5 ft	lb					990	970	750	750								
1.5 m	kg			600	590	440	430	330	330	260	260						
5 ft	lb			1320	1300	970	950	730	730	570	570						
1.0 m	kg	830	800	570	560	420	420	320	320	260	260	210	210				
5 ft	lb	1830	1760	1260	1230	930	930	710	710	570	570	460	460				
0.5 m	kg	790	760	540	530	410	400	310	310	250	250	210	220				
0 ft	lb	1740	1680	1190	1170	900	880	680	680	550	550	460	490				
Ground Line	kg	770	740	530	520	390	390	310	310			220	230				
	lb	1700	1630	1170	1150	860	860	680	680			490	510				
-0.5 m	kg	760	730	520	510	390	380	300	300			250	250				
-0 ft	lb	1680	1610	1150	1120	860	840	660	660			550	550				
-1.0 m	kg	760	730	520	510	390	380					290	290				
-5 ft	lb	1680	1610	1150	1120	860	840					640	640				
-1.5 m	kg	770	740	530	520							390	390				
-5 ft	lb	1700	1630	1170	1150							860	860				
-2.0 m	kg	790	760														
-5 ft	lb	1740	1680														
-2.5 m	kg												410	410			(3.07)
-10 ft	lb												900	900			(10.1)

- 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-9AK

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-9AK

ISO standard canopy

Canopy	ROPS (ISO 3471)
	FOPS (ISO 3449)
	FOG (ISO 10262 Level I)
	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 counterweight

- * 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

