

Hyundai R30Z-9AK

Specifications

Net Power 23.2 hp
(18.1 kW) at 2,350 rpm

Bucket Breakout Force
(ISO) 2,050 kgf / 4,520 lbf

Operating Weight
3,005 kg (6,625 lb)

Max Digging Depth
2,720 mm (8'11")

ENGINE

MODEL		KUBOTA D1305	
Type		Water-cooled, 4-cycle diesel 4 cylinders in line, direct injection, low emission	
Rated flywheel horsepower	SAE J1995 (gross)	24.9 HP (18.1 kW) at 2,350 rpm	
	J1349 (net)	23.2 HP (17.3 kW) at 2,350 rpm	
Max. torque		8.3 kgf·m (60.17 lbf·ft) at 1,600 rpm	
Bore X stroke		78 mm (3.07") x 88 mm (3.46")	
Piston displacement		1,261 cc (76.9 in ³)	
Battery		12 V - 80 Ah	
Starting motor		12 V - 1.4 kW	
Alternator		12 V - 40 Amp	

HYDRAULIC SYSTEM

MAIN PUMP	
Type	Variable-displacement piston pumps + gear pump
Max flow	2 x 27.6 l/min + 19.6 l/min
Sub-pump for pilot circuit (Gear pump)	10.4 l/min (2.7 gpm)

CROSS-SENSING AND FUEL-SAVING PUMP SYSTEM

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	240 kgf/cm ² (3,410 psi)
Travel circuit	220 kgf/cm ² (3,130 psi)
Swing circuit	170 kgf/cm ² (2,240 psi)
Pilot circuit	30 kgf/cm ² (430 psi)
Service valve	Installed

HYDRAULIC CYLINDERS

No. of cylinders bore X stroke	Boom: 75 X 565 mm (3.0" x 22.2")
	Arm: 70 X 500 mm (2.8" x 19.7")
	Bucket: 60 x 420 mm (2.4" x 16.5")
	Boom swing: 75 X 400 mm (3.0" x 15.7")
	Dozer blade: 95 X 140 mm (3.7" x 5.5")

TRAVEL SYSTEM

Max. travel speed (high) / (low)	4.4 km/hr (2.8 mph) / 2.4 km/hr (1.5 mph)
Maximum traction force	2.4 ton
Maximum gradeability	30°
Parking brake	Wet disc

CONTROLS

Pilot-pressure-operated joysticks and pedals with detachable lever provide almost effortless and fatigueless operation.

Pilot control	Two joysticks with one safety lever (LH): Arm swing, Boom swing (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

COOLANT AND LUBRICANT CAPACITY

(Refilling)	liter	gal
Fuel tank	30	7.9
Engine coolant	5.0	1.1
Engine oil	5.9	1.6
Hydraulic tank	27	7.1

WEIGHT (APPROXIMATE)

Operating weight including Cabin, 2,030mm (6' 8") boom, 1,120mm (3' 8") arm, SAE heaped 0.08 m³ (0.1yd³) excavator bucket, lubricant, coolant, full fuel tank, hydraulic tank and operator (75kg)

Operating weight (cab)	3,005 kg (6,625 lb)
Ground pressure (cab)	0.27 kg/cm ² (3.84 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	4

R30Z-9AK Lifting Capacity ISO Condition 2



Rating over front



Rating over side or 360 degree

Boom : 2.03 m (6' 5") / Arm : 1.12 m (3' 8") / Bucket : 0.08 m³ SAE heaped / Dozer Down / Rubber track : 250mm (9.8") / Cabin Type. W/O Additional Counterweight

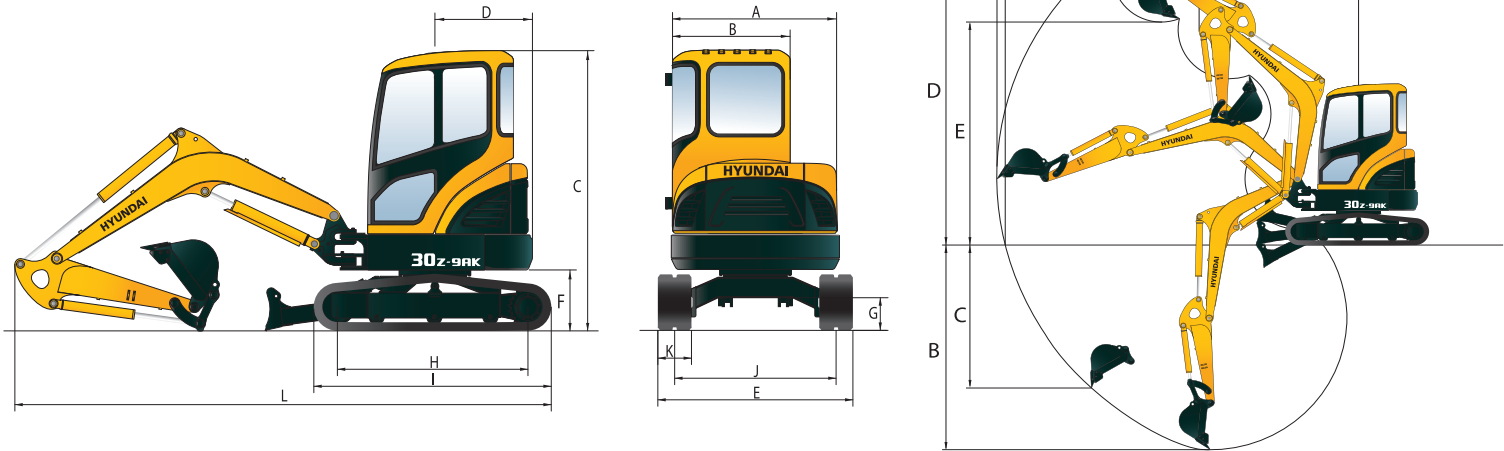
Lift-point height m (ft)		Lift-point radius								At max. reach		
		2.0 m (6.6 ft)		2.5 m (8.2 ft)		3.0 m (9.8 ft)		3.5 m (11.5 ft)		Capacity		Reach m(ft)
3.0 m	kg					*690	590			*620	530	3.20
9.8 ft	lb					*1,520	1,300			*1,360	1,170	(10.5)
2.0 m	kg			*830	770	*760	580	*730	450	*570	400	3.78
6.6 ft	lb			*1,830	1,700	*1,680	1,270	*1,610	1,000	*1,260	880	(12.4)
1.0 m	kg			*1,300	720	*1,000	550	*840	440	*610	370	3.95
3.3 ft	lb			*2,870	1,580	*2,210	1,210	*1,860	970	*1,330	810	(13.0)
0.0 m	kg	*1,550	980	*1,510	690	*1,140	530	*910	430	*740	380	3.78
0.0 ft	lb	*3,430	2,150	*3,330	1,520	*2,510	1,170	*2,010	940	*1,620	850	(12.4)
-1.0 m	kg	*1,780	980	*1,310	690	*980	530			*850	490	3.21
-3.3 ft	lb	*3,930	2,170	*2,880	1,530	*2,160	1,170			*1,870	1,070	(10.5)

- Notes:
- Lifting capacities are based on ISO 10567.
 - Lifting capacities of the 9A Series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.

- The lift-point is a hook (standard equipment) located on the back of the bucket.
- (*) indicates load limited by hydraulic capacity.

Dimensions & Working Range

R30Z-9AK DIMENSIONS



R30Z-9AK DIMENSIONS

		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	1,550 (4' 11")	
C	Overall height of cab	2,500 (8' 2")	I Track length	1,970 (6' 6")	
D	Tail swing radius with counterweight	875 (2' 10")	J Track gauge	1,250 (4' 1")	
E	Overall width	1,550 (5' 1")	K Track shoe width	300 (1' 0")	
F	Clearance under counterweight	510 (1' 9")	L Overall length	1,120-mm Arm	4,180 (13' 9")
				1,350-mm Arm	4,220 (13' 10")

R30Z-9AK WORKING RANGE

		mm (ft-in)	
Boom length		2,030 (6' 8")	
Arm length		1,120 (3' 8")	1,350 (4' 5")
A	Max. digging reach	4,650 (15' 3")	4,860 (15' 11")
A'	Max. digging reach on ground	4,515 (14' 10")	4,735 (15' 6")
B	Max. digging depth	2,500 (8' 2")	2,720 (8' 11")
C	Max. vertical wall digging depth	2,085 (6' 10")	2,310 (7' 7")
D	Max. digging height	4,270 (14' 0")	4,405 (14' 5")
E	Max. dumping height	2,890 (9' 6")	3,030 (9' 11")
F	Min. swing radius	2,055 (6' 9")	2,090 (6' 10")

STANDARD EQUIPMENT

ISO standard cabin

- Cabin TOPS ISO 12117 (ROPS ISO 3471) FOG ISO 10262 Level I (FOPS ISO 3449 Level I)
- All-weather steel cab with all-around visibility
- Heater & Defroster
- 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
 - Engine oil pressure
 - Engine coolant temperature
 - Preheat
 - Low battery
 - Air cleaner closing
 - Fuel empty
- Door and locks, one key
- Radio / USB player
- Mechanical suspension seat with seat belt
- Console box tilting system (LH)

Quick coupler

- 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
- Long Arm (1.35 m / 4' 5")
- Mono boom (1.945 m / 6' 5")
- Rubber crawler (300 mm / 10")
- Single acting piping (Breaker, etc)
- Double acting piping (Clamshell, etc)
- Lever pattern change valve
- Additional CWT
- Proportional control switch

OPTIONAL EQUIPMENT

ISO standard canopy

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

Beacon lamp

- Accumulator, work equipment lowering

Travel alarm

- Tool kit
- Arm (1.12 m, 3' 8")
- Proportional control suitor
- RCV with Proportional Control Switch
- Rotating Piping
- Boom & Arm Safety Lock Valve



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