

# 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 in³)
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/cm² (3,410 psi)
Travel circuit	220 kgf/cm² (3,130 psi)
Swing circuit	170 kgf/cm² (2,240 psi)
Pilot circuit	30 kgf/cm² (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/cm² (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		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		
											
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	*740	380	3.78
0.0 ft	lb	*3,430	2,150	*3,330	1,520	*2,510	1,170	*2,010	*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:
1. Lifting capacities are based on ISO 10567.

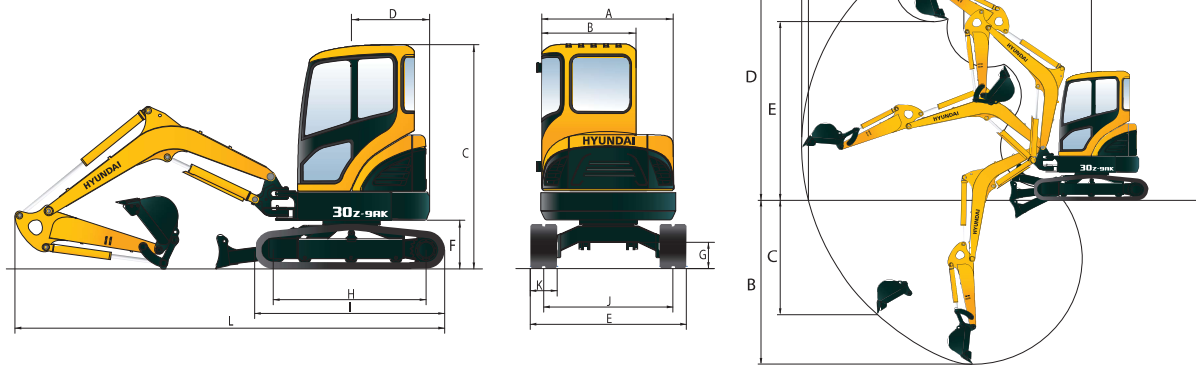
2. Lifting capacities of the 9A Series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.

3. The lift-point is a hook (standard equipment) located on the back of the bucket.

4. (\*) 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")	
B	Overall width of cab	1,050 (3' 5")	
C	Overall height of cab	2,500 (8' 2")	
D	Tail swing radius with counterweight	875 (2' 10")	
E	Overall width	1,550 (5' 1")	
F	Clearance under counterweight	510 (1' 9")	
G	Ground clearance	290 (11")	
H	Tumbler distance	1,550 (4' 11")	
I	Track length	1,970 (6' 6")	
J	Track gauge	1,250 (4' 1")	
K	Track shoe width	300 (1' 0")	
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 II)
- 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 II)
- 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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