

Hyundai R17Z-9A

Specifications

ENGINE

MODEL			KUBOTA D902
Type			T4 final, 3 cylinder diesel
Rated flywheel horsepower	SAE	J1995 (gross)	16.8 hp (12.5kw) @ 2,300 rpm
		J1349 (net)	15.8 hp (11.8kw) @ 2,300 rpm
Max. torque			5.6 kgf-m (40.5 lbf-ft) at 1,900 rpm
Bore X stroke			72 mm (2.83") x 73.6 mm (2.90")
Piston displacement			898 cc (54.79 in³)
Battery			1 x 12 V x 45 Ah
Starting motor			12 V – 1.2 kW
Alternator			12 V – 40 Amp

HYDRAULIC SYSTEM

MAIN PUMP			
Type		Variable displacement piston pumps + gear pump	
Max. flow		2 x 18.8 ℓ/min (5 gpm) + 11.3 ℓ/min (3 gpm) + 6.8 ℓ/min(1.8 gpm) at 2,500 rpm	
Sub-pump for pilot circuit		Gear pump	

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		210 kgf/cm² (2,990 psi)	
Travel circuit		210 kgf/cm² (2,990 psi)	
Swing circuit		135 kgf/cm² (1,920 psi)	
Pilot circuit		30 kgf/cm² (430 psi)	
Service valve		Installed	

HYDRAULIC CYLINDERS			
No. of cylinders bore X stroke	Boom: 60 x 440 mm (2.3" x 17.3")		
	Arm: 60 x 353 mm (2.3" x 13.8")		
	Bucket: 55 x 320 mm (2.16" x 12.59")		
	Boom swing: 55 x 355 mm (2.16" x 13.97")		
	Dozer blade: 65 x 115 mm (2.6" x 4.5")		
	Extension: 55 x 310 mm (2.16" x 12.2")		

Net Power 15.8 hp
(11.8 kW) at 2,300 rpm
Bucket Breakout Force
(ISO) 1,580 kgf / 3,490 lbf

Operating Weight
1,780 kg (3,920 lb)
Arm Digging Force
(ISO) 870 kgf / 1,920 lbf

TRAVEL SYSTEM

Drive method	Full hydrostatic type
Drive motor	Axial piston motor, in-shoe design
Reduction system	Planetary reduction gear
Max. drawbar pull	1,420 kgf (3,130 lbf)
Max. travel speed (high) / (low)	2.2 km/hr (1.4 mph) / 4.1 km/hr (2.5 mph)
Gradeability	30° (58%)
Parking brake	Multi-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 (ISO)
Traveling and steering	Two levers with pedals
Engine throttle	Mechanical, cable type

SWING SYSTEM

Swing motor	Orbit motor
Swing bearing lubrication	Lubricated with drain
Swing speed	9.5 rpm

COOLANT AND LUBRICANT CAPACITY

(Refilling)	liter	gal
Fuel tank	20	5.3
Engine coolant	3.5	0.9
Engine oil	3.7	1.0
Hydraulic tank	13	3.4
Hydraulic system	23	6.1

WEIGHT (APPROXIMATE)

Operating weight, including 1,800 mm (5' 11") boom, 960 mm (3' 2") arm, SAE heaped 0.04 m³ (0.05 yd³) excavator bucket, 230 mm (9") rubber track, lubricant, coolant, full fuel tank, hydraulic tank, 268 kg (590 lb) counterweight and the standard equipment.

Operating weight (canopy)	1,780 kg (3,920 lb)
Ground pressure (canopy)	0.26 kg/cm² (3.70 psi)

UNDERCARRIAGE

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.

Track frame	Variable undercarriage
No. of track roller on each side	3

R17Z-9A Lifting Capacity ISO Condition 2

Boom: 1.80 m (5' 11") / Arm: 0.96 m (3' 2") / Bucket: 0.04 m³ (0.05 yd³) SAE heaped / Dozer down / Rubber track 230 mm (9") / Counterweight 268 kg (590 lb)

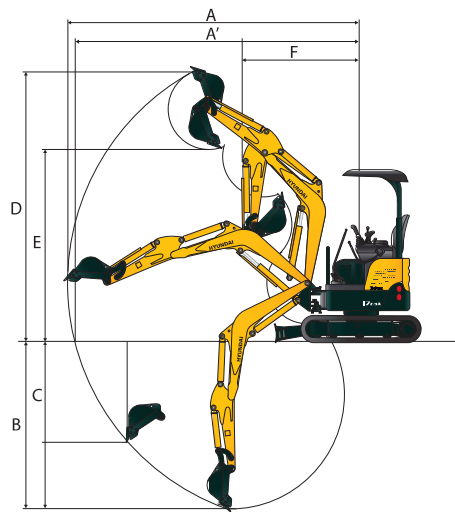
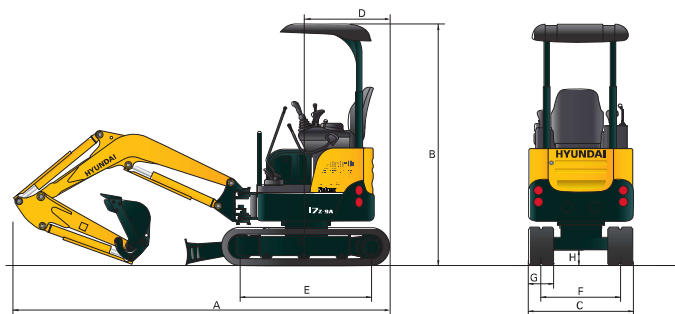
Lift-point height m (ft)	Lift-point radius										At max. reach	
	1.0 m (3.3 ft)		1.5 m (4.9 ft)		2.0 m (6.6 ft)		2.5 m (8.2 ft)		3.0 m (9.8 ft)		Capacity	
												Reach m(ft)
2.5 m 8.2 ft	kg						*360	*360			*340	*340
	lb						*800	*800			*740	*740
2.0 m 6.6 ft	kg						*370	*370	*370	290	*320	280
	lb						*830	*830	*830	640	*700	620
1.5 m 4.9 ft	kg		*730	*730	*510	*510	*430	380	*390	290	*320	250
	lb		*1,610	*1,610	*1,130	*1,130	*940	840	*860	630	*700	550
1.0 m 3.3 ft	kg				*680	510	*500	370	*420	280	*330	240
	lb				*1,500	1,130	*1,100	810	*920	620	*730	520
0.5 m 1.6 ft	kg				*800	490	*560	360	*450	270	*360	230
	lb				*1,770	1,080	*1,240	780	*990	600	*790	520
0.0 m 0.0 ft	kg		*580	*580	*830	480	*590	350	*460	270	*410	240
	lb		*1,290	*1,290	*1,830	1,060	*1,310	770	*1,010	590	*900	530
-0.5 m -1.6 ft	kg	*720	*720	*1,000	770	*790	*570	350	*430	270	*420	270
	lb	*1,580	*1,580	*2,210	1,700	*1,740	*1,260	760	*940	590	*920	590
-1.0 m -3.3 ft	kg	*1,110	*1,110	*970	780	*680	*490	350			*420	320
	lb	*2,440	*2,440	*2,140	1,720	*1,500	*1,070	770			*930	700
-1.5 m -4.9 ft	kg			*630	*630	*430					*400	*400
	lb			*1,390	*1,390	*950					*870	*870

- 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.

Rating over front Rating over side or 360 degree

Dimensions & Working Range

R17Z-9A DIMENSIONS



R17Z-9A DIMENSIONS

			mm (ft-in)
A Overall length	3,480 (11'4")	E Tumbler distance	1,230 (4'0")
B Overall height	2,320 (7'7")	F Track gauge	760~1,070 (2'6"-3'5")
C Overall width	990~1,300 (3'2" - 4'2")	G Track shoe width	230 (0'9")
D Tail swing radius	645 (2'11") 720 (2'3") (With additional counterweight)	H Ground clearance	440 mm (1'5")

R17Z-9A WORKING RANGE

		mm (ft-in)
Boom length	1,800 (5'11")	
Arm length	960 (3'2")	1,120 (3'8")
A Max. digging reach	3,900 (12'7")	4,030 (13'2")
A' Max. digging reach on ground	3,800 (12'4")	3,940 (12'9")
B Max. digging depth	2,200 (7'2")	2,350 (7'7")
C Max. vertical wall digging depth	1,320 (4'3")	1,460 (6'3")
D Max. digging height	3,580 (11'7")	3,680 (12'0")
E Max. dumping height	2,570 (8'4")	2,670 (8'7")
F Min. swing radius	1,570 (5'1")	1,600 (5'2")

STANDARD EQUIPMENT

Canopy TOPS ISO 12117
(ROPS ISO 12117-2)
FOG ISO 10262 Level I
(FOPS ISO 3449 Level I)

Centralized monitoring

- Gauges
- Fuel-level gauge
- Engine coolant temperature gauge

Proportional control switch

Warning indicator

- Quick clamp
- Engine oil pressure
- Engine coolant temperature
- Preheat
- Low battery
- Fuel empty

One key

Mechanical suspension seat with seat belt

Console box tilting system (LH)

One front working light

Electric horn

Battery (1 x 12 V x 45 AH)

Battery master switch

Removable reservoir tank

Water separator, fuel line

Mono boom (1.80 m / 5' 11")

Arm (0.96 m / 3' 2")

Rubber track shoes (230 mm / 9")

Double-acting piping

Travel alarm

Pattern-change lever

Quick coupler and piping

Additional counterweight (414 kg / 177 lbs)

Hyundai bucket (0.04 m³ / 0.05 yd³)

OPTIONAL EQUIPMENT

Accumulator

Long arm (1.12 m / 3' 8")



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