

Specifications R17Z-9A



ENGINE

MODEL		KUBOTA D902
Type		4 cycle, In line, Water cooled, Diesel, Tier 4 certified
Rated flywheel horse power		
SAE	J1995 (gross)	16.8 hp (12.5 kw) / 2,300 rpm
	J1349 (net)	15.8 hp (11.8 kW) / 2,300 rpm
DIN	6271/1 (gross)	16.5 ps (13.1 kW) / 2,300 rpm
	6271/1 (net)	16.0 ps (11.8 kW) / 2,300 rpm
Max. torque		5.46 kgf.m (39.5 lbf.ft) / 1,900 rpm
Bore x stroke		72 mm x 73.6 mm (2.83" x 2.89")
Piston displacement		898 cc (54.79 in³)
Batteries		12 V - 45 Ah
Starting motor		12 V - 1.2 kW
Alternator		12 V - 40 A

HYDRAULIC SYSTEM

MAIN PUMP	
Type	Variable displacement piston pumps
Max. flow	2 x 18.8 l/min + 11.3 l/min
Sub-pump for pilot circuit	Gear pump
HYDRAULIC MOTORS	
Travel	Two speed axial piston motor with counter balance valve
Swing	Axial piston motor
RELIEF VALVE SETTING	
Implement circuits	210 kgf/cm² (2,987 psi)
Travel	210 kgf/cm² (2,987 psi)
Swing circuit	170 kgf/cm² (2,418 psi)
Pilot circuit	35 kgf/cm² (498 psi)
Service valve	Installed

HYDRAULIC CYLINDERS

No. of cylinder- 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 45 mm (2.5" x 4.5")
Extension	55 x 310 mm (2.16" x 12.2")

OPERATOR'S CAB

Noise Levels (dynamic value)	
Outside cabin - LwA	93 dB
Inside cabin - LpA	81 dB

COOLANT & LUBRICANT CAPACITY

(refilling)	liter	US gal	UK gal
Fuel tank	20	5.3	4.4
Engine coolant	3.5	0.9	0.7
Engine oil	3.7	1.0	0.8
Hydraulic tank	13	3.4	2.9

TRAVEL LEVERS

Traveling and steering : Two levers with 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	Orbit motor
Swing reduction	-
Swing circuit lubrication	Lubricated with drain oil
Swing speed	9.5 rpm

DRIVES & BRAKES

Max. travel speed (high) / (low)	4.1 km/h / 2.2 km/h (2.5 mph) / (1.4 mph)
Maximum traction force	1.42 ton
Maximum gradeability	30°

DIGGING FORCE (ISO)

	0.96 m Arm	1.12 m Arm
Bucket	1,580 kgf	1,580 kgf
	15.5 kN	15.5 kN
	3,490 lbf	3,490 lbf
Arm	870 kgf	780 kgf
	8.5 kN	7.6 kN
	1,920 lbf	1,720 lbf

OPERATING 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, lubricant, coolant, full fuel tank, full hydraulic tank, and all standard equipments.

Shoe Width	Rubber shoe 230 mm (9")
Operating Weight	Canopy 1,700 kg (3,747 lb)
Ground Pressure	Canopy 0.25 kg/cm² (3.98 psi)

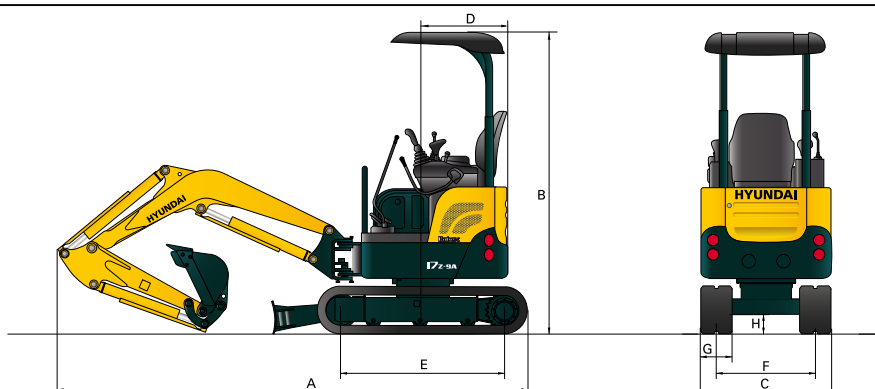
UNDERCARRIAGE

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.

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

Dimensions & Working Ranges

DIMENSIONS R17Z-9A

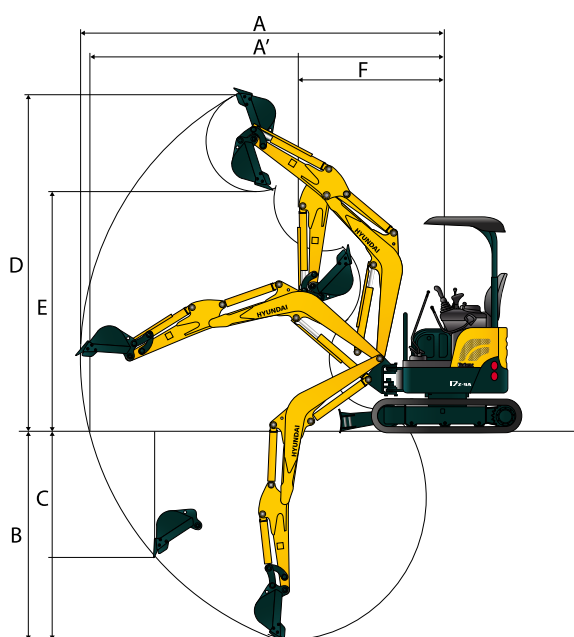


mm (ft · in)

A Overall length - Standard Arm	3,480 (11'4")	D Tail swing radius - additional counterweight	720 (2'3")
Overall length - Long Arm	3,510	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 - standard counterweight	645 (2'11")	H Ground clearance	170 (0'5")

WORKING RANGES R17Z-9A

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. front swing radius	1,570 (5'1")	1,600 (5'2")

Lifting Capacities

R17Z-9A

Rating over-front Rating over-side or 360 degrees

Boom : 1.80 m (5' 11") / Arm : 0.96 m (3' 2") / Bucket : 0.04 m³ SAE heaped / Dozer up, Track extended, 230 mm (9") Rubber track, without additional counterweight

Load point height m (ft)		Load radius						At max. reach		
		2.0 m (7.0 ft)		2.5 m (8.0 ft)		3.0 m (10.0 ft)		Capacity		Reach
										m (ft)
3.0 m	kg							280	*290	2.63
(10.0 ft)	lb							620	*640	(8.6)
2.5 m	kg			310	*310			200	210	3.13
(8.0 ft)	lb			680	*680			440	460	(10.3)
2.0 m	kg			300	310	210	220	170	180	3.43
(7.0 ft)	lb			660	680	460	490	370	400	(11.3)
1.5 m	kg	430	440	290	300	210	220	150	160	3.60
(5.0 ft)	lb	950	970	640	660	460	490	330	350	(11.8)
1.0 m	kg	400	410	270	290	200	210	140	150	3.67
(3.0 ft)	lb	880	900	600	640	440	460	310	330	(12.0)
0.5 m	kg	370	390	260	270	190	200	140	150	3.64
(2.0 ft)	lb	820	860	570	600	420	440	310	330	(11.9)
Ground	kg	360	370	250	270	190	200	150	160	3.51
Line	lb	790	820	550	600	420	440	330	350	(11.5)
-0.5 m	kg	360	370	250	260	190	200	170	180	3.27
(-2.0 ft)	lb	790	820	550	570	420	440	370	400	(10.7)
-1.0 m	kg	360	380	250	270			210	220	2.87
(-3.0 ft)	lb	790	840	550	600			460	490	(9.4)
-1.5 m	kg	380	390							
(-5.0 ft)	lb	840	860							

Boom : 1.80 m (5' 11") / Arm : 0.96 m (3' 2") / Bucket : 0.04 m³ SAE heaped / Dozer down, Track extended, 230 mm (9") Rubber track, without additional 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)		Capacity		Reach
										m (ft)
3.0 m	kg							*290	*290	2.63
(10.0 ft)	lb							*640	*640	(8.6)
2.5 m	kg			*310	*310			*290	220	3.13
(8.0 ft)	lb			*680	*680			*640	490	(10.3)
2.0 m	kg			*320	*320	*320	230	*300	180	3.43
(7.0 ft)	lb			*710	*710	*710	510	*660	400	(11.3)
1.5 m	kg	*450	*450	*380	310	*340	230	*300	160	3.60
(5.0 ft)	lb	*990	*990	*840	680	*750	510	*660	350	(11.8)
1.0 m	kg	*620	430	*450	300	*380	220	*310	150	3.67
(3.0 ft)	lb	*1370	950	*990	660	*840	490	*680	330	(12.0)
0.5 m	kg	*740	400	*520	280	*410	210	*320	150	3.64
(2.0 ft)	lb	*1630	880	*1150	620	*900	460	*710	330	(11.9)
Ground	kg	*790	390	*550	270	*420	210	*330	160	3.51
Line	lb	*1740	860	*1210	600	*930	460	*730	350	(11.5)
-0.5 m	kg	*760	390	*540	270	*400	210	*330	180	3.27
(-2.0 ft)	lb	*1680	860	*1190	600	*880	460	*730	400	(10.7)
-1.0 m	kg	*660	390	*470	270			*320	230	2.87
(-3.0 ft)	lb	*1460	860	*1040	600			*710	510	(9.4)
-1.5 m	kg	*450	400							
(-5.0 ft)	lb	*990	880							

- 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

R17Z-9A

Rating over-front Rating over-side or 360 degrees

Boom : 1.80 m (5' 11") / Arm : 1.12 m (3' 8") / Bucket : 0.04 m³ SAE heaped / Dozer up, Track extended, 230 mm (9") Rubber track, without additional counterweight

Load point height m (ft)		Load radius								At max. reach		
		2.0 m (7.0 ft)		2.5 m (8.0 ft)		3.0 m (10.0 ft)		3.5 m (12.0 ft)		Capacity		Reach
												m (ft)
3.0 m	kg									240	250	2.87
(10.0 ft)	lb									530	550	(9.4)
2.5 m	kg			*260	*260					180	190	3.31
(8.0 ft)	lb			*570	*570					400	420	(10.9)
2.0 m	kg			*280	*280	210	220			150	160	3.59
(7.0 ft)	lb			*620	*620	460	490			330	350	(11.8)
1.5 m	kg	*380	*380	290	300	210	220			140	140	3.75
(5.0 ft)	lb	*840	*840	640	660	460	490			310	310	(12.3)
1.0 m	kg	400	420	280	290	200	210	150	160	130	140	3.82
(3.0 ft)	lb	880	930	620	640	440	460	330	350	290	310	(12.5)
0.5 m	kg	370	390	260	270	190	200	150	150	130	140	3.79
(2.0 ft)	lb	820	860	570	600	420	440	330	330	290	310	(12.4)
Ground Line	kg	360	370	250	260	190	200			130	140	3.67
	lb	790	820	550	570	420	440			290	310	(12.0)
-0.5 m	kg	350	370	240	260	180	190			150	160	3.45
(-2.0 ft)	lb	770	820	530	570	400	420			330	350	(11.3)
-1.0 m	kg	350	370	250	260					180	190	3.08
(-3.0 ft)	lb	770	820	550	570					400	420	(10.1)
-1.5 m	kg	360	380							270	*280	2.47
(-5.0 ft)	lb	790	840							600	*620	(8.1)

Boom : 1.80 m (5' 11") / Arm : 1.12 m (3' 8") / Bucket : 0.04 m³ SAE heaped / Dozer down, Track extended, 230 mm (9") Rubber track, without additional counterweight

Load point height m (ft)		Load radius								At max. reach		
		2.0 m (7.0 ft)		2.5 m (8.0 ft)		3.0 m (10.0 ft)		3.5 m (11.0 ft)		Capacity		Reach
												m (ft)
3.0 m	kg									*270	260	2.87
(10.0 ft)	lb									*600	570	(9.4)
2.5 m	kg			*260	*260					*270	200	3.31
(8.0 ft)	lb			*570	*570					*600	440	(10.9)
2.0 m	kg			*280	*280	*290	230			*270	170	3.59
(7.0 ft)	lb			*620	*620	*640	510			*600	370	(11.8)
1.5 m	kg	*380	*380	*340	310	*320	230			*280	150	3.75
(5.0 ft)	lb	*840	*840	*750	680	*710	510			*620	330	(12.3)
1.0 m	kg	*550	430	*420	300	*350	220	*250	160	*290	140	3.82
(3.0 ft)	lb	*1210	950	*930	660	*770	490	*550	350	*640	310	(12.5)
0.5 m	kg	*700	400	*490	280	*390	210	*270	160	*300	140	3.79
(2.0 ft)	lb	*1540	880	*1080	620	*860	460	*600	350	*660	310	(12.4)
Ground Line	kg	*770	390	*540	270	*410	200			*310	150	3.67
	lb	*1700	860	*1190	600	*900	440			*680	330	(12.0)
-0.5 m	kg	*770	380	*540	270	*410	200			*310	160	3.45
(-2.0 ft)	lb	*1700	840	*1190	600	*900	440			*680	350	(11.3)
-1.0 m	kg	*700	380	*500	270					*310	200	3.08
(-3.0 ft)	lb	*1540	840	*1100	600					*680	440	(10.1)
-1.5 m	kg	*530	390							*280	*280	2.47
(-5.0 ft)	lb	*1170	860							*620	*620	(8.1)

- 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 R17Z-9A

ISO standard canopy

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

Centralized monitoring

Gauges

Fuel level gauge
Engine coolant temperature gauge

Warning lamps

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

One key fits all

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

Removable reservoir tank

Water separator, fuel line

Mono boom (1.80 m; 5' 11")

Arm (0.96 m; 3' 2")

Rubber crawler (230 mm; 9")

Double acting piping

OPTIONAL EQUIPMENT R17Z-9A

Accumulator, work equipment lowering

Travel alarm

Tool kit

Lever pattern change valve

Long arm (1.12 m; 3' 8")

Heater & Defroster

Quick coupler piping

Quick coupler

Proportional control

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

