

# Specifications R30Z-9AK

## ENGINE

MODEL	KUBOTA D1305		
Type	4 Cycle Diesel engine, in line, water cooled		
Rated flywheel horse power			
SAE	J1995 (gross)	18.5 kW (24.9 HP) / 2,350 rpm	
	J1349 (net)	17.3 kW (23.2 HP) / 2,350 rpm	
DIN	6271/1 (gross)	18.5 kW (25.2 PS) / 2,350 rpm	
	6271/1 (net)	17.3 kW (23.5 PS) / 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 <sup>3</sup> )		
Batteries	12 V - 58 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
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	220 Kgf/cm <sup>2</sup> (3,130 psi)
Travel circuit	220 Kgf/cm <sup>2</sup> (3,130 psi)
Swing circuit	170 Kgf/cm <sup>2</sup> (2,420 psi)
Pilot circuit	30 Kgf/cm <sup>2</sup> (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	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")

## OPERATOR'S CAB

Noise Levels (dynamic value)	
Outside cabin - LwA	94dB
Inside cabin - LpA	75dB

## COOLANT & LUBRICANT CAPACITY

(Refilling)	liter	US gal	UK gal
Fuel tank	30	7.9	6.6
Engine coolant	5.0	1.1	0.9
Engine oil	5.7	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) / (1.5 mph)
Maximum traction force	2.4 ton
Maximum gradeability	30°
Parking brake	Wet disc

## DIGGING FORCE (ISO)

Bucket	2,150 kgf
	20.1 kN
	4,520 lbf
Arm [Long Arm]	1,400 [1,265] kgf
	13.7 [12.4] kN
	3,090 [2,790] lbf

## OPERATING WEIGHT (APPROXIMATE)

Operating weight, including 2,030 mm (6' 8") boom; 1,120 mm (3' 8") arm; SAE heaped 0.08 m<sup>3</sup> (0.1 yd<sup>3</sup>) excavator bucket, lubricant, coolant, full fuel tank, full hydraulic tank and all standard equipments.

Shoe Width	Rubber shoe 300 mm (11.8")
Operating Weight	Cabin 3,005 Kg (6,625 lb)
	Canopy 2,895 Kg (6,382 lb)
Option Weight	Quick coupler + 46 Kg (101 lb)
	canopy - 110 Kg (243 lb)
	additional counter weight + 130 Kg (287 lb)
Ground Pressure	Cabin 0.29 kg/cm <sup>2</sup> (4.12 psi)
	Canopy 0.27 kg/cm <sup>2</sup> (3.84 psi)

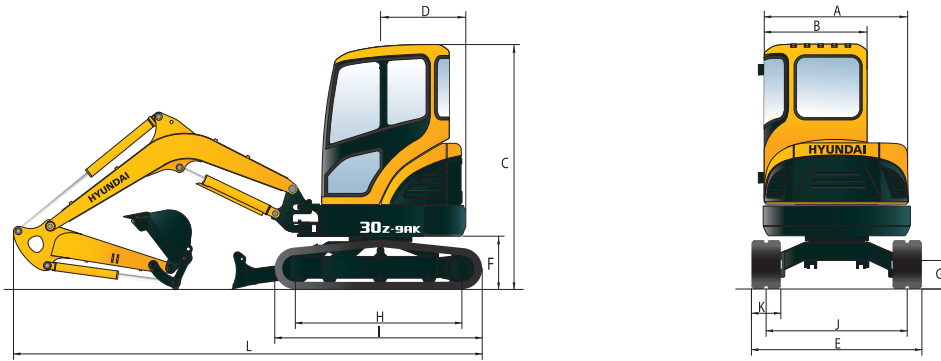
## UNDERCARRIAGE

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	3

# Dimensions & Working Ranges

## DIMENSIONS R30Z-9AK

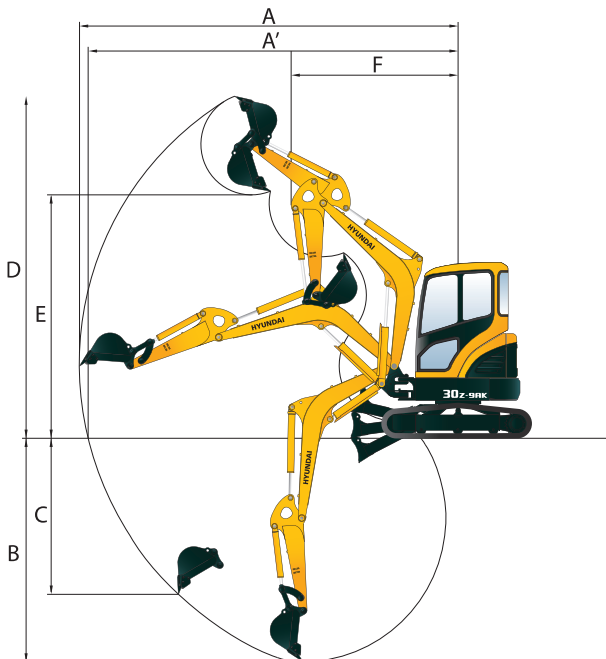


mm (ft · in)

<b>A</b> Overall width of upper structure	1,485 (4' 10")	<b>G</b> Ground clearance	290 (11")
<b>B</b> Overall width of cab	1,050 (3' 5")	<b>H</b> Tumbler distance	1,550 (4' 11")
<b>C</b> Overall height of cab	2,500 (8' 2")	<b>I</b> Track length	1,970 (6' 6")
<b>D</b> Tail swing radius - standard counterweight	775 (2' 7")	<b>J</b> Track gauge	1,250 (4' 1")
Tail swing radius - additional counterweight	875 (2' 10")	<b>K</b> Track shoe width	300 (1' 0")
<b>E</b> Overall width	1,550 (5' 1")	<b>L</b> Overall length - Standard Arm	4,180 (13' 9")
<b>F</b> Clearance under counterweight	540 (1' 9")	Overall length - Long Arm	4,220 (13' 10")

## WORKING RANGES R30Z-9AK

mm (ft · in)



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

\* Long Arm