Specifications

ENGINE

Model		Mitsubishi S3L2	
Туре		4 Cycle. In line,	
		water cooled Diesel	
Rated flywheel horse power			
J1995 (gross)		24.7 HP (18.4kW) at 2,300rpm	
SAE	J1349 (net)	23.1 HP (17.2kW) at 2,300rpm	
DIN	627 1/1 (gross)	25.0 PS (18.4kW) at 2,300rpm	
DIN	627 1/1 (net)	23.4 PS (17.2kW) at 2,300rpm	
Max. torque		8.0 kgf·m(58 lbf·ft) at 1,800 rpm	
Bore x stroke		78mm x 92mm (3.07" x 3.62")	
Piston displacement		1,318cc (80.4 in³)	
Batteries		12V - 80AH	
Starting motor		12V - 1.7kW	
Alternator		12V - 50A	

HYDRAULIC SYSTEM

Main pumps			
Type	Variable displacement piston pumps		
Rated flow	2 x 27.6 + 19.6 L/min		
Sub-pump for pilot circuit	Gear pump		
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/cm² (3,130 psi)		
Travel circuit	220 Kgf/cm² (3,130 psi)		
Swing circuit	175 Kgf/cm² (2,490 psi)		
Pilot circuit	30 Kgf/cm² (430 psi)		
Service valve	Installed		

HYDRAULIC CYLINDER

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	85 X 140 mm (3.3" x 5.5")		

NOISE LEVEL(CAB)

Noise Levels (dynamic value)	
LwA	94dB
LpA	75dB

COOLANT & LUBLICANT CAPACITY

(refilling)	liter	US gal	UK gal
Fuel tank	38	10.0	8.4
Engine coolant	4.2	1.1	0.9
Engine oil	5.9	1.6	1.3
Hydraulic tank	32	8.5	7.0

TRAVEL LEVERS

Traveling and steering: Two levers with pedals.

CONTROL LEVERS

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 circuit lubrication	Grease - bathed	
Swing brake	Wet disc	
Swing speed	9 rpm	

DRIVES & BRAKES

Max. travel speed(high) / (low)	4.4km / 2.4km (2.7mph) / (1.5mph)
Maximum traction force	2.4ton
Maximum gradeability	30°
Parking brake	Wet disc

DIGGING FORCE(ISO)

	2,050 kgf	
D. J. J.	20.1 kN	
Bucket	4,520 lbf	
Arm	1,120mm(3' 8")	1,350mm(4' 5")
	1,400 kgf	1,265 kgf
	13.7 kN	12.4 kN
	3,090 lbf	2,790 lbf

WEIGHT(APPROXIMATE)

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

Shoe Width		Rubber shoe 300 mm (12")	
Operating Weight	Cabin	2,880 Kg (6,350lb)	
Operating weight	Canopy	2,730 Kg (6,020lb)	
Ground Pressure	Cabin	0.29 kg / cm ² (4.12psi)	
diodila riessule	Canopy	0.27 kg / cm ² (3.84psi)	

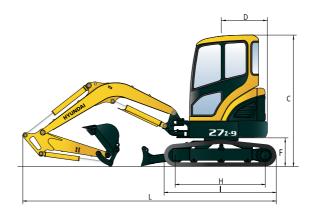
UNDERCARRIAGE

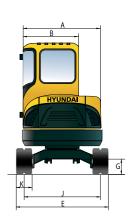
X-leg type center frame is integrally welded with reinforced box-section track frames. The undercarriage includes lubricated rollers, track adjusters with shock absorbing springs and sprockets, and rubber shoes.

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 Range

R27Z-9 DIMENSIONS





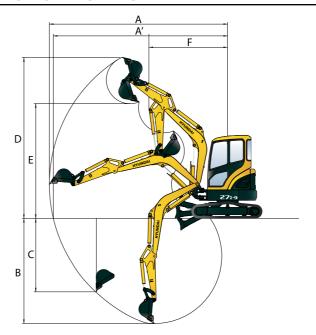
mm (ft.in

mm (ft·in)

Overall width of upper structure	1,485 (4' 10")
Overall width of cab	1,050 (3' 5")
Overall height of cab	2,500 (8' 2")
Tail swing radius	775 (2' 7")
Overall width	1,550 (5' 1")
Clearance under counterweight	540 (1' 9")
	Overall width of cab Overall height of cab Tail swing radius Overall width

G	Ground clearance	290 (0' 11")
Н	Tumbler distance	1,550 (5' 1")
I	Track length	1,970 (6' 6")
J	Track gauge	1,250 (4' 1")
K	Track shoe width	300 (0' 12")
L	Overall length	4,180 (13' 9")
	Overall length (with long arm)	4,220 (13' 10")

R27Z-9 WORKING RANGE



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 at 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")	

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