

Hyundai R55-9A

Specifications

ENGINE

| | | | |
|---------------------------|-----|---------------|--|
| MODEL | | | YANMAR 4TNV98C |
| Type | | | Water-cooled, 4-cycle diesel 4 cylinders in line, direct injection, low emission |
| Rated flywheel horsepower | SAE | J1995 (gross) | 66.9 HP (49.9 kW) at 2,400 rpm |
| | | J1349 (net) | 65.1 HP (48.5 kW) at 2,400 rpm |
| Max. torque | | | 24 kgf·m (173.6 lbf·ft) at 1,560 rpm |
| Bore X stroke | | | 98 mm (3.85") x 110 mm (4.33") |
| Piston displacement | | | 3,319 cc (203 in³) |
| Battery | | | 1 x 12 V x 100 Ah |
| Starting motor | | | 12 V - 3.0 kW |
| Alternator | | | 12 V - 60 Amp |

HYDRAULIC SYSTEM

| | |
|--|---|
| MAIN PUMP | |
| Type | Two variable displacement piston pumps + gear pump |
| Max. flow | 2 X 57.8 ℓ/min (15.3 gpm) pumps + 38.4 ℓ/min (10.1 gpm) at 2,100 rpm |
| Sub-pump for pilot circuit (Gear pump) | 9.5 ℓ/min (2.5 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/cm ² (3,410 psi) |
| Travel circuit | 220 kgf/cm ² (3,130 psi) |
| Swing circuit | 220 kgf/cm ² (3,130 psi) |
| Pilot circuit | 30 kgf/cm ² (430 psi) |
| Service valve | Installed |

HYDRAULIC CYLINDERS

| | |
|-------------------------------|--|
| No. of cylinder bore X stroke | Boom: 1-110 x 715 mm (4.3" x 28.1") |
| | Arm: 1-90 x 850 mm (3.5" x 33.5") |
| | Bucket: 1-80 x 660 mm (3.1" x 26.0") |
| | Boom swing: 1-95 x 527 mm (3.7" x 20.7") |
| | Dozer blade: 110 x 219 mm (4.3" x 8.8") |

R55-9A Lifting Capacity ISO Condition 2

Boom: 3.0 m (9' 10") / Arm: 1.6 m (5' 3") / Bucket: 0.18 m³ (0.24 yd³) SAE heaped / Dozer down / Rubber track: 400 mm (16") / Counterweight 335 kg (740 lb)

| Lift-point height m (ft) | | Lift-point radius | | | | | | | | At max. reach | | |
|-----------------------------|----|---|---|---|---|---|---|---|---|---|---|--------|
| | | 2.0 m (6.6 ft) | | 3.0 m (9.8 ft) | | 4.0 m (13.1 ft) | | 5.0 m (16.4 ft) | | Capacity | | Reach |
| | |  |  |  |  |  |  |  |  |  |  | m(ft) |
| 4.0 m | kg | | | | | *1,240 | 1,090 | | | *1,290 | 980 | 4.26 |
| 13.1 ft | lb | | | | | *2,730 | 2,410 | | | *2,840 | 2,160 | (14.0) |
| 3.0 m | kg | | | | | *1,290 | 1,080 | | | *1,260 | 780 | 4.87 |
| 9.8 ft | lb | | | | | *2,840 | 2,380 | | | *2,780 | 1,720 | (16.0) |
| 2.0 m | kg | | | *1,980 | 1,600 | *1,520 | 1,040 | *1,340 | 730 | *1,270 | 690 | 5.17 |
| 6.6 ft | lb | | | *4,370 | 3,530 | *3,340 | 2,280 | *2,950 | 1,620 | *2,800 | 1,530 | (17.0) |
| 1.0 m | kg | | | *2,620 | 1,480 | *1,780 | 990 | *1,430 | 710 | *1,360 | 660 | 5.24 |
| 3.3 ft | lb | | | *5,780 | 3,270 | *3,920 | 2,170 | *3,150 | 1,570 | *3,000 | 1,460 | (17.2) |
| 0.0 m | kg | | | *2,880 | 1,420 | *1,940 | 950 | *1,470 | 700 | *1,440 | 680 | 5.08 |
| 0.0 ft | lb | | | *6,340 | 3,140 | *4,280 | 2,090 | *3,240 | 1,540 | *3,170 | 1,500 | (16.7) |
| -1.0 m | kg | *3,100 | 2,760 | *2,780 | 1,410 | *1,910 | 940 | | | *1,500 | 760 | 4.66 |
| -3.3 ft | lb | *6,830 | 6,070 | *6,120 | 3,120 | *4,200 | 2,070 | | | *3,310 | 1,690 | (15.3) |
| -2.0 m | kg | *3,630 | 2,810 | *2,300 | 1,440 | | | | | *1,550 | 1,000 | 3.89 |
| -6.6 ft | lb | *8,000 | 6,190 | *5,080 | 3,170 | | | | | *3,410 | 2,200 | (12.8) |

Notes:

- Lifting capacities are based on ISO 10567.
- 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.
- The lift-point is a hook (standard equipment) located on the back of the bucket.
- (*) indicates load limited by hydraulic capacity.

Net Power 65.1 hp
(48.5 kW) at 2,400 rpm
Bucket Breakout Force
(ISO) 4,330 kgf / 9,550 lbf

Operating Weight (Cab)
5,750 kg (12,570 lb)
Arm Digging Force
(ISO) 3,260 kgf / 7,190 lbf

TRAVEL SYSTEM

| | |
|----------------------------------|---|
| Drive method | Full hydrostatic type |
| Drive motor | Axial piston motor, in-shoe design |
| Reduction system | 2-stage planetary |
| Max. drawbar pull | 5,300 kgf (11,700 lbf) |
| Max. travel speed (high) / (low) | 4.2 km/hr (2.6 mph) / 2.2 km/hr (1.4 mph) |
| Gradeability | 35° (70%) |
| 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 | Electric, dial type |

SWING SYSTEM

| | |
|---------------------------|--------------------------|
| Swing motor | Axial piston motor |
| Swing reduction | Planetary gear reduction |
| Swing bearing lubrication | Grease-bathed |
| Swing brake | Multi wet disc |
| Swing speed | 9.1 rpm |

COOLANT AND LUBRICANT CAPACITY

| (Refilling) | liter | gal |
|-------------------------|-------|------|
| Fuel tank | 120.0 | 31.7 |
| Engine coolant | 9.5 | 2.5 |
| Engine oil | 11.6 | 3.1 |
| Swing device - gear oil | 1.5 | 0.4 |
| Final drive (each) | 1.2 | 0.3 |
| Hydraulic tank | 70.0 | 18.5 |
| Hydraulic system | 120.0 | 31.7 |

WEIGHT (APPROXIMATE)

Operating weight, including 3,000 mm (9' 10") boom, 1,600 mm (5' 3") arm, SAE heaped 0.18 m³ (0.24 yd³) digging bucket, 400 mm (15.6") rubber track, lubricant, coolant, full fuel tank, hydraulic tank, 335 kg (740 lb) counterweight and the standard equipment.

| | |
|------------------------|------------------------------------|
| Operating weight (cab) | 5,750 kg (12,570 lb) |
| Ground pressure (cab) | 0.33 kg/cm ² (4.69 psi) |

UNDERCARRIAGE

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

| | |
|-----------------------------------|---------------------|
| Center frame | X - leg type |
| Track frame | Pentagonal box type |
| No. of track shoes on each side | 40 |
| No. of upper rollers on each side | 1 |
| No. of lower rollers on each side | 5 |



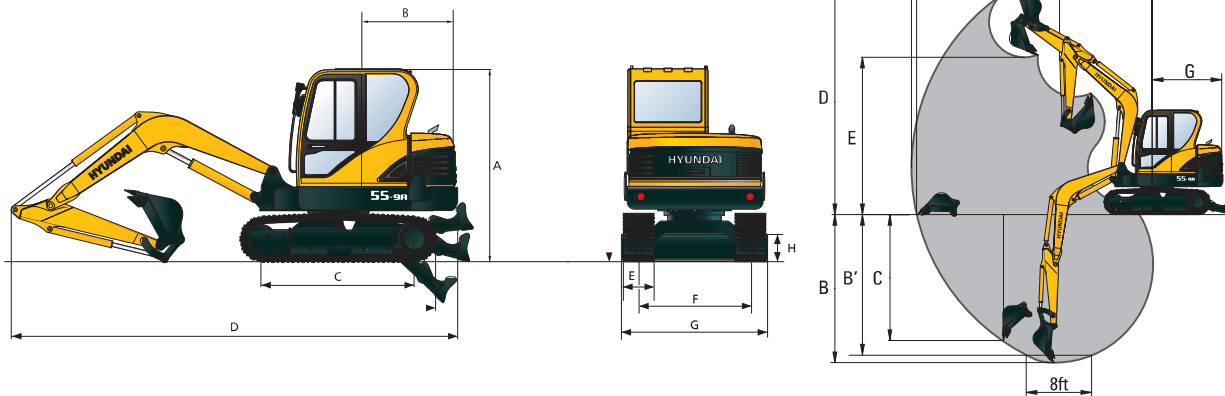
Rating over front



Rating over side or 360 degree

Dimensions & Working Range

R55-9A DIMENSIONS



R55-9A DIMENSIONS

| | | | mm (ft-in) | |
|--------------------------------|----------------|---------------------------|------------|---------------|
| A Overall height of cab | 2,550 (8' 4") | E Track shoe width | Steel | 380 (1' 3") |
| | | | Rubber | 400 (1' 4") |
| B Tail swing radius | 1,650 (5' 5") | F Track gauge | | 1,600 (5' 3") |
| C Tumbler distance | 1,990 (6' 6") | G Overall width | | 2,000 (6' 7") |
| D Overall length | 5,600 (18' 4") | H Ground clearance | | 380 (1' 3") |

BUCKETS

| Capacity | | Width | | Weight |
|---|---|----------------------|-------------------|-----------------|
| SAE heaped | CECE heaped | Without side cutters | With side cutters | |
| 0.07 m ³ (0.09 yd ³) | 0.06 m ³ (0.08 yd ³) | 315 mm (12.4") | 360 mm (14.2") | 115 kg (255 lb) |
| 0.18 m ³ (0.24 yd ³) | 0.15 m ³ (0.20 yd ³) | 670 mm (26.4") | 740 mm (29.1") | 170 kg (375 lb) |

R55-9A WORKING RANGE

| | mm (ft-in) | |
|---|-----------------|----------------|
| Boom length | 3,000 (9' 10") | |
| Arm length | 1,600 (5' 3") | 1,900 (6' 3") |
| A Max. digging reach | 6,150 (20' 2") | 6,400 (20' 1") |
| A¹ Max. digging reach on ground | 6,010 (19' 9") | 6,270 (20' 7") |
| B Max. digging depth | 3,820 (12' 6") | 4,060 (13' 4") |
| B¹ Max. digging depth (8 ft) | 3,420 (11' 3") | 3,700 (12' 2") |
| C Max. vertical wall digging depth | 3,200 (10' 6") | 3,460 (11' 4") |
| D Max. digging height | 5,780 (18' 12") | 5,920 (19' 5") |
| E Max. dumping height | 4,050 (13' 3") | 4,180 (13' 9") |
| F Min. swing radius | 2,350 (7' 9") | 2,360 (7' 9") |
| G Tail swing radius | 1,650 (5' 5") | 1,650 (5' 5") |

STANDARD EQUIPMENT

ISO standard cabin

- Cabin TOPS ISO 12117 (ROPS ISO 12117-2) FOG ISO 10262 Level I (FOPS ISO 3449 Level I)
- All-weather steel cab with all-around visibility
- Safety glass windows
- Rise-up type windshield wiper
- Sliding fold-in front window
- Sliding side window
- Lockable door
- Accessory box and ashtray

Air-conditioner & heater

Radio / USB player with remote control

Single-acting piping kit (breaker, etc)

Double-acting piping kit (clamshell, etc)

Centralized monitoring

- Engine speed
- Gauges
 - Fuel level gauge
 - Engine coolant temperature gauge
- Warning
 - Fuel level
 - Engine oil pressure
 - Engine coolant temperature
 - Hydraulic oil temperature
 - Low battery
 - Air cleaner closing

Door and cab locks, universal key

Two outside rear view mirrors

Travel alarm

Quick coupler (dual lock) and piping

Rubber track shoes (400 mm / 16")

Fully adjustable suspension seat with seat belt

Console box tilting system (LH)

Four front working lights

Electric horn

Battery (1 x 12 V x 100 Ah)

Battery master switch

12-volt power supply

Removable clean out screen for radiator

Automatic swing brake

Removable reservoir tank

Water separator, fuel line

Mono boom (3.0 m / 9' 10")

Arm (1.6 m / 5' 3")

Track rail guard

Starting aid (air grid heater) cold weather

Viscous fan clutch

Hyundai bucket (0.18 m³ / 0.24 yd³)

OPTIONAL EQUIPMENT

Fuel filler pump (35L/min, 9.2 gpm)

Beacon lamp

Accumulator

Long arm (1.9 m / 6'3")

Tool kit

Cabin front, rear work lamp

Steel Track shoes with rubber pad (400 mm / 16")

Safety lock valve for boom cylinder with overload warning

Safety Lock valve for arm cylinder

Rear view camera

Steel track shoes (380 mm / 15")



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