**Dimensions**

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YANMAR 3TNV88-BSHYB engine provides 10.9 kg·m/rpm of maximum torque with 27.3 HP at 2,200 rpm of rated power. This means the R35Z-7A runs with the most power in its class, giving you more power to get the job done.

The Highest Engine Power in its Class Tier 4 Interim

YANMAR 3TNV88-BSHYB

27.3 HP / 2,200 rpm

Unparalleled Technology, Outstanding Performance!

This new mini excavator provides a combination of proven power and unequaled working performance.
Convenient, Comfortable Work Space

Safety Lock System
Safety lock system is designed to prevent exiting the cab with live controls. When lever is positioned upright, hydraulic functions are disengaged.

Mechanical Suspension Seat
Attractive, adjustable seat engineered for comfort, safety and durability.

Smooth Travel Pedals and Foot Rests
Travel pedals and levers are equipped with ergonomically designed foot rests for enhanced comfort and reduced fatigue.

Storage Space
Located under the seat with locking device.

Cup Holder
Multiple cup holders conveniently located for added operator comfort.

Easy Access to Controller & Switch
Switches are positioned for easy access.

Engine Control Lever
Engine control lever is conveniently located to the left of the operator for fast access and better control.

Easy to Open Front Window
Sliding front window is easily opened and safely maintained in open working condition to improve ventilation and visibility.

Wide Canopy with Excellent Visibility
Wide canopy equipped with high quality suspension seat designed to absorb shock and reduce operator fatigue.

Cab Design Technology
Wide, Comfortable Operating Space
All controls are ergonomically engineered for maximum operator comfort and productivity. Reinforced pillars have been added for greater cab strength.

Wide Canopy equipped with high quality suspension seat designed to absorb shock and reduce operator fatigue.
Powerful, Dynamic Performance!

Reinforced Bucket
Bucket design is improved with new anti-wear features, additional reinforcements at the sides and bucket lip combined with more heavy-duty bucket linkage.

Powerful Dozer Blade
Large dozer blade provides added versatility, work efficiency, and stability for the job. (1300mm x 320mm [51” x 13”])

Boom Cylinder Cover
Standard boom cylinder cover provides added protection.

Doozer Cylinder Cover
Standard dozer cylinder cover provides added protection.

Lever Pattern Change Valve (Option)
Joystick control patterns can be changed through an optional pattern change valve positioned for easy access.

Installation for Breaker Operation
Machine comes equipped with overload relief valve and piping for breaker operation as standard equipment.

Double Acting Pipe Selector
Lever direction:
Vertical: Breaker
Horizontal: Double piping

The R35Z-7A is designed for efficient work in congested residential and urban areas. The offset boom is designed with a 125° degree operating range.
Reliability and Serviceability

Improved durability!

Easy Change Air Cleaner

The R35Z-7A is equipped with a durable plastic air cleaner designed for easy maintenance.

Low maintenance bushings and polymer shims

New low maintenance bushings combined with polymer shims facilitate easier routine service while extending grease intervals. (↓ 50hr, ↑ 500hr) Long-life chrome plated pins are standard.

Centralized Grease Fittings

Centralized lubrication bank for faster, easier service and maintenance.

Long Life Hydraulic Filter

High performance hydraulic filter for longer replacement intervals and reduced downtime.

Hydraulic level

Sight level gauge for hydraulic oil level for easier service and maintenance.

Reinforced Rubber Track

Reinforced rubber track designed for longer life and reduced wear.

FEM (Finite Element Method)

Finite Element Method (FEM) is used to ensure long term structural integrity.

Rectangular Tube Canopy

The canopy protects the operator against falling objects, ensuring operator safety. (ROPS, TOPS, TOPS STD.)

The R35Z-7A was built with accessibility in mind. All doors, covers and hoods were built for complete open access. You’ll find that the R35Z-7A offers plenty of space to complete your regular maintenance and service hassle free.

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Specifications

Engine
Model Yanmar 3TNV88-BS1HYB
Type 4 Cycle, In line, water cooled Diesel
Rated flywheel power 119HP (gross)
SAE 13.4HP (net)
DIN 17.7 HP (20.9kW) at 2.320rpm
Max. torque 10.9 kgd at 1,200 rpm
Bore/anode 88mm x 90mm
Piston displacement 1,640cc
Batteries 12V - 80AH
Starting motor 12V - 2.3kW
Alternator 12V - 85A

Hydraulic System
Main pumps Two variable displacement piston pumps
Rated flow 2 x 38.5lpm
Sub-pump for pilot circuit Gear pump
Hydraulic motors
Travel Two speed axial piston motor with counter balance valve and parking brake
Relief valve setting Pilot circuit
Swing 230 Kgd/cm²
Swing circuit 230 Kgd/cm²
Pilot circuit 30 Kgd/cm²
Service valve Included

Hydraulic Cylinder
No. of cylinder - bore x rod x stroke 63 x 40 x 140 mm
Boom 95 x 45 x 535 mm
Bucket 75 x 45 x 510 mm
Boom swing 95 x 45 x 430 mm
Dzerk blade 95 x 50 x 152 mm

Operator’s Cab
Noise Levels (dynamic value) L95 94dB
Lpa 75dB

Coolant & Lubricant Capacity
(treëlling) Liter US gal UK gal
Fuel tank 42 11.1 9.2
Engine coolant 5 1.32 1.1
Engine oil 6.7 1.77 1.5
Hydraulic tank 46 12.2 10.1

Control.2 Implement Levers
Arm Roll-Out Swing Right Swung Forward Reverse Bucket Roll-In Bucket Roll-Out
Arm Roll-In Swing Left

Swing System
Swing motor Axial piston motor
Swinging reducer Planetary gear reduction
Swing circuit lubrication Grease - bathed
Swing brake Multi wet disc
Swing speed 9.5rpm

Travel Levers
Traveling and steering : Two levers with pedals.

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Drives & Brakes
Max. travel speed( high/ low) 4.5km / 2.5km
Maximum traction force 3.1ton
Maximum gradeability 30°
Parking brake Multi wet disc

Digging Force (ISO)
Bucket 3,200 kgd
Arm 31,360 kgd
7,050 lb
1,990 kgd
19,500 kgd
4,390 lb

Weight (approximate)
Operating weight, including 2,500 mm (9’ 8”) boom, 1,300 mm (5’ 1”) arm, SAE heaped 0.11 m³ (0.14 yd³) excavator bucket, lubricant, coolant, full fuel tank, hydraulic tank and the standard equipment.

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.

Lifting capacities R35Z-7A

Notices
1. (*) Load point is marked with equipment installed on the back of the bucket.
2. Lifting capacity is based on ISO 12117:1995-1996.
3. The load point is a mark limited by hydraulic capacity.
4. (*) indicates load limited by hydraulic capacity.

Optional Equipment

Standard Equipment

ISO standard cable
- Cables : R05S2 (24/7) R05S3 (34/7)
- Control box : R15S2 (24/7)
- Hydraulic hose : R25S2 (24/7)

Controlled monitoring
- Sensors
- Fuel meter
- Engine coolant temperature gauge

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- - Warning
- - Door and locks, one key
- - ABS/normal and casette
- - Mechanical suspension seat with seat belt

- - Battery master switch
- - Automatic swing brake
- - Removable reserve tank with fuel level
- - Carrier box lifting system(L,R)
- - Twin front working lights
- - Electric horns
- - Battery (1 x 12V x 80 AH)

- - Steel shoe (280mm, 12”)
- - Bumper lamp
- - Accommodate, work equipment
- - Lower exhaust
- - Travel alarm
- - Quick coupler

Battery (1 x 12V x 80 AH)

Fuel empty
Air cleaner clamp
Air cleaner cover

Safety glass windows
Sliding side window
Accessory box & Ash-tray