

35G COMPACT EXCAVATOR

3.5 metric ton



JOHN DEERE

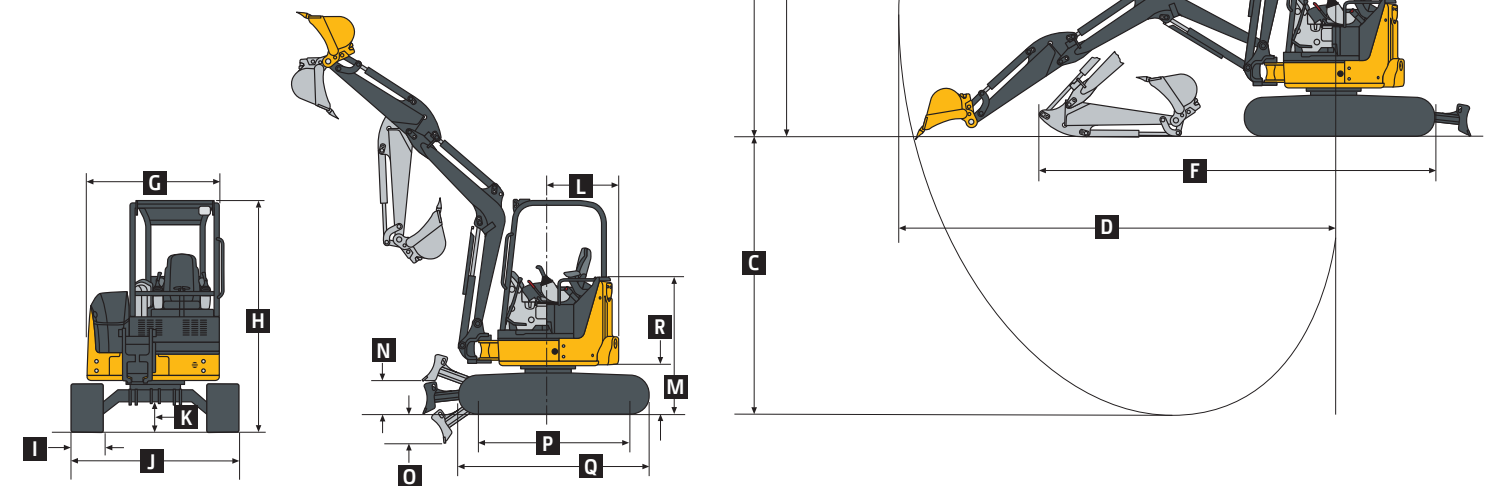


35G



Engine	35G			
Manufacturer and Model	Yanmar 3TNV88F			
Non-Road Emission Standard	EPA Final Tier 4/EU Stage IV			
Displacement	1.642 L (100.2 cu. in.)			
Net Power (ISO 9249)	17.4 kW (23.3 hp) at 2,400 rpm			
Powertrain				
Each track independently driven by hydrostatic axial-piston motor connected to 2-stage planetary gear-reduction box				
Maximum Travel Speed				
Low	2.8 km/h (1.7 mph)			
High	4.3 km/h (2.7 mph)			
Hydraulics				
Open center with 2 variable-displacement pumps and 1 fixed-gear pump				
Pump Flow				
Piston	2 x 38.4 L/m (2 x 10.1 gpm)			
Gear	22.8 L/m (6.0 gpm)			
Auxiliary Flow	61.2 L/m (16.2 gpm)			
Controls	2 hydraulic pilot-operated controls for boom, arm, bucket, swing, boom swing, travel, and auxiliary functions			
Electrical				
Alternator Rating	55 amp			
Work Lights	2 halogen: 1 mounted on operator's station and 1 mounted on boom			
Undercarriage				
Track, Rubber	300 mm (12 in.)			
Ground Pressure	<i>1315-mm (4 ft. 4 in.)</i>			
	<i>Standard Arm, Canopy, and Standard Counterweight</i>	<i>1315-mm (4 ft. 4 in.) Standard Counterweight</i>	<i>1715-mm (5 ft. 8 in.) Long Arm, Canopy, and Extra Counterweight</i>	<i>1715-mm (5 ft. 8 in.) Long Arm, Cab, and Extra Counterweight</i>
With Rubber Track	32.0 kPa (4.6 psi)	33.0 kPa (4.8 psi)	33.7 kPa (4.9 psi)	35.2 kPa (5.1 psi)
Upperstructure				
Swing Speed	9.0 rpm			
Independent Swing Boom	<i>Canopy</i> <i>Cab</i>			
Left	72 deg. 62 deg.			
Right	62 deg. 62 deg.			
Swing Brake	Spring applied, hydraulically released, automatic, disc type			
Serviceability				
Refill Capacities				
Fuel Tank	42 L (11.1 gal.)			
Cooling System	5.0 L (5.3 qt.)			
Engine Oil with Filter	7.2 L (7.6 qt.)			
Hydraulic Tank	32 L (8.5 gal.)			
Operating Weights	<i>1315-mm (4 ft. 4 in.)</i>			
	<i>Standard Arm, Canopy, and Standard Counterweight</i>	<i>1315-mm (4 ft. 4 in.) Standard Counterweight</i>	<i>1715-mm (5 ft. 8 in.) Long Arm, Canopy, and Extra Counterweight</i>	<i>1715-mm (5 ft. 8 in.) Long Arm, Cab, and Extra Counterweight</i>
With Full Fuel Tank and 79-kg (175 lb.) Operator	3520 kg (7,760 lb.)	3690 kg (8,135 lb.)	3783 kg (8,340 lb.)	3953 kg (8,715 lb.)
Optional Angle Blade	296 kg (653 lb.)			
Counterweight				
Standard	540 kg (1,190 lb.)			
Additional	240 kg (529 lb.)			

Operating Dimensions	35G			
	<i>1315-mm (4 ft. 4 in.) Standard Arm and Canopy</i>	<i>1715-mm (5 ft. 8 in.) Long Arm and Canopy</i>	<i>1315-mm (4 ft. 4 in.) Standard Arm and Cab</i>	<i>1715-mm (5 ft. 8 in.) Long Arm and Cab</i>
A Maximum Cutting Height	4.87 m (16 ft. 0 in.)	4.95 m (16 ft. 3 in.)	4.70 m (15 ft. 5 in.)	4.74 m (15 ft. 7 in.)
B Maximum Dumping Height	3.46 m (11 ft. 4 in.)	3.57 m (11 ft. 9 in.)	3.31 m (10 ft. 10 in.)	3.39 m (11 ft. 1 in.)
C Maximum Digging Depth	3.06 m (10 ft. 0 in.)	3.46 m (11 ft. 4 in.)	3.06 m (10 ft. 0 in.)	3.46 m (11 ft. 4 in.)
D Maximum Digging Reach	5.21 m (17 ft. 1 in.)	5.52 m (18 ft. 1 in.)	5.21 m (17 ft. 1 in.)	5.52 m (18 ft. 1 in.)
E Minimum Front Swing Radius	2.08 m (6 ft. 10 in.)	2.19 m (7 ft. 2 in.)	2.24 m (7 ft. 4 in.)	2.30 m (7 ft. 7 in.)
F Transport Length	4.64 m (15 ft. 3 in.)	4.75 m (15 ft. 7 in.)	4.64 m (15 ft. 3 in.)	4.75 m (15 ft. 7 in.)
Digging Force (ISO)				
Arm	19.0 kN (4,277 lb.)	16.9 kN (3,792 lb.)	19.0 kN (4,277 lb.)	16.9 kN (3,792 lb.)
Bucket	27.1 kN (6,085 lb.)	27.1 kN (6,085 lb.)	27.1 kN (6,085 lb.)	27.1 kN (6,085 lb.)
Machine Dimensions				
G Upperstructure Width	1.55 m (5 ft. 1 in.)			
H Overall Height				
Canopy	2.48 m (8 ft. 2 in.)			
Cab	2.48 m (8 ft. 2 in.)			
I Track Width	300 mm (12 in.)			
J Undercarriage Width	1.74 m (5 ft. 9 in.)			
K Ground Clearance	280 mm (11 in.)			
L Tail Swing Radius				
With Standard Arm	870 mm (34 in.)			
With Long Arm and Extra Counterweight	980 mm (39 in.)			
M Engine Cover Height	1.53 m (5 ft. 0 in.)			
N Maximum Blade Lift Above Ground	360 mm (14.2 in.)			
O Maximum Blade Drop Below Ground	400 mm (15.7 in.)			
Blade				
Width	1.74 m (5 ft. 9 in.)			
Height	373 mm (14.7 in.)			
P Sprocket Center to Idler Center	1.66 m (5 ft. 5 in.)			
Q Undercarriage Length	2.11 m (6 ft. 11 in.)			
R Counterweight Clearance	550 mm (22 in.)			



Lift Capacities								
Ground Level at 3.05-m (10 ft.) Radius	<i>Canopy and Standard Counterweight</i>		<i>Canopy and Extra Counterweight</i>		<i>Cab and Standard Counterweight</i>		<i>Cab and Extra Counterweight</i>	
Arm	<i>Over Front*</i>	<i>Over Side</i>	<i>Over Front*</i>	<i>Over Side</i>	<i>Over Front*</i>	<i>Over Side</i>	<i>Over Front*</i>	<i>Over Side</i>
1315-mm (4 ft. 4 in.) Standard	1568 kg (3,453 lb.)	641 kg (1,412 lb.)	1568 kg (3,453 lb.)	765 kg (1,686 lb.)	1568 kg (3,453 lb.)	684 kg (1,506 lb.)	1568 kg (3,453 lb.)	808 kg (1,780 lb.)
1715-mm (5 ft. 8 in.) Long	1501 kg (3,307 lb.)	630 kg (1,388 lb.)	1501 kg (3,307 lb.)	755 kg (1,662 lb.)	1501 kg (3,307 lb.)	672 kg (1,481 lb.)	1501 kg (3,307 lb.)	797 kg (1,756 lb.)

*Blade down (limited by hydraulics).

Additional equipment

Key: ● Standard ▲ Optional or special

See your John Deere dealer for further information.

35G Engine

- Meets EPA Final Tier 4/EU Stage IV emissions
- Engine coolant to -37 deg. C (-34 deg. F)
- Engine preheater
- Fan guard
- Fuel/water separator
- Full-flow oil filter
- Isolation mounted
- Key start switch with electric fuel shutoff
- Single dry-type air filter

Hydraulic System

- Auxiliary function right-hand pilot-lever control
- Auxiliary hydraulic lines with quick-couplers to end of boom
- Auxiliary return-flow selector valve
- Axial-piston swing motor
- Boom-swing foot control
- Excavator-to-backhoe control pattern change valve
- Open center with 2 variable-displacement pumps and 1 fixed-gear pump
- Hydraulic pilot-operated controls for boom, arm, bucket, swing, boom swing, blade, travel, and auxiliary functions
- Wet-disc swing brake

Undercarriage

- Planetary final drive
- Propel motor shield
- 2-speed axial-piston propel motors

35G Undercarriage (continued)

- Rubber track, 300 mm (12 in.)
- ▲ Steel track, 300 mm (12 in.) with triple semi-grousers
- ▲ Rubber crawler pad, 300 mm (12 in.)

Upperstructure

- 360-deg. rotation
- Counterweight, 540 kg (1,190 lb.)
- Hinged service-access doors
- ROPS/TOPS/FOPS (canopy)
- ▲ ROPS/TOPS/FOPS (cab) with air conditioning and heater
- Vandal protection for service doors, fuel cap, and toolbox
- Zero-tail-swing configuration

Front Attachments

- Arm, 1315 mm (4 ft. 4 in.)
- ▲ Long arm, 1715 mm (5 ft. 8 in.), includes additional 240-kg (529 lb.) counterweight
- Articulation hose shield
- Backfill blade, 1.74 m (5 ft. 9 in.)
- ▲ Hydraulic angle backfill blade
- Boom, 2.465 m (8 ft. 1 in.)
- Mechanical quick-coupler
- ▲ Augers: Planetary / Chain drive / Bits / Bit adapters
- ▲ Clamp
- ▲ Hammers: Points / Tools
- ▲ Quick-coupler buckets: Bucket teeth / Ditching / Heavy-duty

35G Operator's Station

- Horn
- Hour meter
- Instrumentation lights
- Monitor system: Preheat indicator / Engine oil pressure indicator with alarm / Alternator voltage indicator / Fuel gauge and low-fuel-level indicator / Engine coolant temperature gauge and engine coolant temperature indicator with alarm / Hour meter / Work lights indicator
- Motion alarm with cancel switch
- Work lights switch
- Propel levers and foldable pedals
- 2 travel speeds with automatic shifting
- Seat belt, 51 mm (2 in.), retractable
- ▲ Seat belt, 76 mm (3 in.), retractable
- Vinyl seat with fore/aft adjustment
- ▲ Suspension seat (cloth)
- ▲ Front screen
- ▲ Rear secondary exit kit

Electrical

- 12-volt accessory outlet
- Alternator, 55 amp
- Low-maintenance battery
- Blade-type multi-fused circuits
- Positive-terminal battery covers
- ▲ JDLINK™ wireless communication system (available in specific countries; see your dealer for details)

Lights

- Work lights: Halogen / 1 mounted on operator's station / 1 mounted on boom

Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan at test conditions per ISO 9249.

This machine is not equipped with a spark-arrestor muffler. Usage in forestry applications is not recommended. Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with SAE standards. Except where otherwise noted, these specifications are based on a canopy unit with 1315-mm (4 ft. 4 in.) standard arm; 610-mm (24 in.), 0.11-m³ (4.0 cu. ft.) bucket; 300-mm (12 in.) rubber track; 540-kg (1,190 lb.) counterweight; full fuel tank; and 79-kg (175 lb.) operator.

