

TB138FR Zero Swing Excavator



All Takeuchi excavators share our commitment to the highest standards in quality and performance. They are the product of extensive research, field testing, evaluation and refinement. The specifications and features make the TB138FR reliable to own, comfortable to operate and a performance leader on the job.

We feature an industry leading 2-year/2000 hour FULL machine warranty as standard.

An optional P3 Power Protection Plan provides peace of mind with selectable coverage levels for Powertrain, Powertrain and Hydraulics, or a no deductible, full machine plan.

When you invest in a Takeuchi, you receive over five decades of equipment innovation, the quality assurance of ISO-9001 certification and responsive after sales support from an industry leader.

Try a Takeuchi and feel the power.

TAKEUCHI®

The Power of Product and Support

TB138FR Zero Swing Excavator

OPERATING PERFORMANCE

Operating Weight (w 165 lb operator)	Canopy 8,316 lb (3,772 kg)
Standard machine with bucket and rubber tracks	Cab 8,492 lb (3,852 kg)
Maximum Digging Depth	10 ft 11 in (3,325 mm)
Maximum Dump Height	12 ft 8 in (3,860 mm)
Maximum Digging Radius	18 ft 0 in (5,485 mm)
Maximum Bucket Digging Force	8,955 lb (4,062 kg)
Maximum Arm Digging Force	4,125 lb (1,871 kg)
Arm Length	5 ft 3 in (1,600 mm)
Slew Speed	9.8 rpm
Traction Force (lbs)	8,871 lb (4,024 kg)
Sound Level (noise)	78 dB(A)

ENGINE

Make/Model	Yanmar 3TNV88
Tier Rating	EPA Interim Tier 4
Cylinders/Displacement	3/100 cu in (1.6L)
Horsepower Gross (SAE J1995)	29.8 hp (22.2 Kw)
Horsepower Net (SAE 1349)	28.8 hp (21.5 Kw)
Rated Engine Speed	2400 rpm
Maximum Torque	79 ft-lb @ 1440 rpm (107.1 Nm)
Engine Lubrication	5.0 qt (4.7L)
Cooling System	6.3 qt (5.9L)
Fuel Tank Capacity	10.6 gal (40L)
Fuel Consumption (65% of full load)	1.4 gal/hr (5.2L/hr)
Electrical System	12 volts / 40 amps

UNDERCARRIAGE

Traction Drive Type	Piston travel motors with planetary drive reduction and automatic speed step down	
Parking Brake	Spring applied, hydraulically released, multiple wet friction disk	
Track Roller Type	Permanently sealed, triple flanged rollers with precision metal face seals	
Track Rollers (per side)	4	
Track Width	13.8 in (350 mm)	
Track Ground Contact Length	5 ft 5 in (1655 mm)	
Ground Pressure	Canopy	Cab
	4.35 psi	4.4 psi
Maximum Travel Speed		
Low Range	1.6 mph (2.6 km/hr)	
High Range	3.1 mph (5.0 km/hr)	

HYDRAULIC SYSTEM

Pump Type	Twin variable displacement piston pumps with two positive displacement gear pumps	
Total Hydraulic Flow (gpm)	9.9 x 2 / 5.8 x 1 / 2.7 x 1	
Auxiliary Hydraulic Flow	15.6 gal/min (59.1L/min)	
Auxiliary Hydraulic Pressure (adjustable)	3000 psi (20,684 k/Pa)	
Hydraulic Reservoir Capacity	11 gal (41.3L)	
Hydraulic System Capacity	18.0 gal (68.1L)	

DIMENSIONS

Max Dig Depth	10 ft 11 in (3327 mm)	
Max Dump Height	12 ft 8 in (3861 mm)	
Max Reach Ground Level	18 ft 0 in (5486 mm)	
Max Vertical Dig Depth	6 ft 9 in (2050 mm)	
Max Dig Depth with 2 ft Flat Bottom	11 ft 1 in (3378 mm)	
Max Dig Depth with 8 ft Flat Bottom	9 ft 10 in (2997 mm)	
Width	5 ft 8.5 in (1740 mm)	
Height	8 ft 5 in (2565 mm)	
Length (Transport)	15 ft 8 in (4770 mm)	
Ground Clearance	11.6 in (295 mm)	
Dozer Blade Height	15.6 in (396 mm)	
Independent Boom Swing Angle	30° Left / 15° Right	
Min Front Swing Radius	4 ft 9.5 in (1460 mm)	
Tail Swing Radius	3 ft 2 in (955 mm)	

Lift Capacities at 9 ft 8 in (3.0m) radius		
over front, Blade down		over side
+6 ft 7 in (2.0 m)	2295 lb (1041 kg)	1806 lb (819 kg)
Ground Level	2597 lb (1178 kg)	1585 lb (719 kg)
-3 ft 4 in (1.0 m)	2301 lb (1044 kg)	1562 lb (708 kg)

FEATURES

- Patented side-to-side (STS) offset boom system combined with a zero tail swing allows the TB138FR to slew 360° just inches beyond the excavator's track width
- Attachment interference prevention system
- Tilt-up operator's platform for quick service access
- Six-way adjustable suspension seat
- Standard safety features include: ROPS/FOPS/TOPS 4-post canopy, travel alarm, retractable seat belt, two front mounted work lights, and safety lockout feature for the operating controls
- Interim Tier 4 compliant engine that is efficient and quiet
- Electronic engine monitoring system
- One touch engine decelerator
- Automatic fuel bleed system
- Heavy duty, side-by-side radiator/hydraulic oil cooler
- Two speed travel with automatic shift down
- Triple flanged track rollers
- Straight travel with simultaneous operation of digging and swing functions
- Increased traction force
- Electrohydraulic push button control of auxiliary hydraulics
- Two-way auxiliary hydraulics plumbed to arm
- Variable displacement piston pumps
- Precise and responsive, proportional pilot joystick controls with quick change control selector valve for SAE or ISO pattern
- Simultaneous operation of cab swing and two digging functions with no reduction in working speed
- Cast iron, wrap around protective counter-weight
- Hydraulic and fuel sight gauges
- Remote lubrication of slew and boom swing cylinders
- Cushioned main boom, arm and swing cylinders
- Main boom cylinder guard
- Vandalism protected lockable fuel tank and engine compartments
- Lockable operator's manual and tool storage compartments
- Protective routing of hydraulic hoses
- O-ring and grease seals installed on bucket pins
- Tie down points integrated into the frame

Optional isolation mounted enclosed cab with heater, high capacity air conditioning, deluxe AM/FM radio with Mp3 jack, and retractable front window with cylinder assisted lift and removable lower section