

# TB153FR 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 TB153FR 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*

# TB153FR Zero Swing Excavator

## OPERATING PERFORMANCE

Operating Weight (w 165 lb operator)	Canopy 12,450 lb (5,647 kg)
Standard machine with bucket and rubber tracks	Cab 12,681 lb (5,752 kg)
Maximum Digging Depth	12 ft 10 in (3,900 mm)
Maximum Dump Height	12 ft 9 in (3,885 mm)
Maximum Digging Radius	20 ft 4 in (6,195 mm)
Maximum Bucket Digging Force	11,093 lb (5,032 kg)
Maximum Arm Digging Force	5,670 lb (2,572 kg)
Arm Length	5 ft 9 in (1,760 mm)
Slew Speed	10 rpm
Traction Force (lbs)	12,613 lb (5,721 kg)
Sound Level (noise)	76 dB(A)

## ENGINE

Make/Model	Yanmar 4TNV88
Tier Rating	EPA Interim Tier 4
Cylinders/Displacement	4/134 cu in (2.2L)
Horsepower Gross (SAE J1995)	39.7 hp (29.6 Kw)
Horsepower Net (SAE 1349)	38.7 hp (28.9 Kw)
Rated Engine Speed	2400 rpm
Maximum Torque	105 ft-lb @ 1440 rpm (143.4 Nm)
Engine Lubrication	8.0 qt (7.5L)
Cooling System	9.3 qt (8.8L)
Fuel Tank Capacity	17.2 gal (65L)
Fuel Consumption (65% of full load)	1.8 gal/hr (6.8L/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)	5	
Track Width	15.7 in (400 mm)	
Track Ground Contact Length	6 ft 6 in (1985 mm)	
Ground Pressure	Canopy	Cab
	4.63 psi	4.7 psi
Maximum Travel Speed		
Low Range	1.7 mph (2.7 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)	14.8 x 2 / 10.3 x 1 / 2.9 x 1	
Auxiliary Hydraulic Flow	14.8 gal/min (56.0L/min)	
Auxiliary Hydraulic Pressure (adjustable)	3000 psi (20,684 k/Pa)	
Hydraulic Reservoir Capacity	18 gal (68.1L)	
Hydraulic System Capacity	21.9 gal (110L)	

## DIMENSIONS

Max Dig Depth	12 ft 10 in (3900 mm)
Max Dump Height	12 ft 9 in (3885 mm)
Max Reach Ground Level	20 ft 4 in (6195 mm)
Max Vertical Dig Depth	9 ft 11 in (3030 mm)
Max Dig Depth with 2 ft Flat Bottom	12 ft 8 in (3861 mm)
Max Dig Depth with 8 ft Flat Bottom	11 ft 6 in (3505 mm)
Width	6 ft 7 in (2000 mm)
Height	8 ft 6 in (2585 mm)
Length (Transport)	17 ft 7 in (5350 mm)
Ground Clearance	11.8 in (300 mm)
Dozer Blade Height	16.9 in (430 mm)
Independent Boom Swing Angle	30° Left / 15° Right
Min Front Swing Radius	4 ft 3 in (1285 mm)
Tail Swing Radius	3 ft 8 in (1110 mm)

Lift Capacities at 9 ft 8 in (3.0m) radius		
	over front, Blade down	over side
+6 ft 7 in (2.0 m)	4015 lb (1821 kg)	3163 lb (1435 kg)
Ground Level	4331 lb (1965 kg)	2676 lb (1214 kg)
-3 ft 4 in (1.0 m)	3844 lb (1744 kg)	2629 lb (1192 kg)

## FEATURES

- Patented side-to-side (STS) offset boom system combined with a zero tail swing allows the TB153FR 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: 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