

# TAKEUCHI®

## TB53FR

### Zero Swing Excavator



- Operating Weight: 12,581 lbs.
- Maximum Digging Depth: 12' 10"
- Bucket Digging Force: 11,076 lbs.

- Patented side-to-side (STS) offset boom system combined with a zero tail swing allows the TB53FR to slew 360 degrees, inches beyond the excavators track width.
- Tilt-up operator's platform combined with full opening engine compartment offers quick service access
- Control pattern selector valve allows for quick change of operating controls between SAE and ISO patterns to accommodate operator preferences
- Emergency engine shutdown/return-to-idle system helps protect the engine from damage due to low oil pressure or high coolant temperature
- Automatic fuel bleed system eliminates the downtime and service calls required to bleed conventional fuel systems
- Variable displacement piston pumps efficiently utilize engine horsepower while continuously adjusting power and speed for fast cycle times
- Low center of gravity offers the stability and craning capacities of conventional excavators and the added functionality of working in exceptionally confined areas.

▶ All **TAKEUCHI** excavators and loaders share our commitment to the highest standards in quality and performance. Look beyond the specifications of the **TB53FR** and you will find a rich set of features which make the **TB53FR** reliable to own, comfortable to operate and a performance leader on the job.

When you invest in a **TAKEUCHI**, you receive over 5 decades of compact track equipment innovation, the quality assurance of ISO-9001 certification and responsive after sales support from a specialized industry leader.

Try a **TAKEUCHI** today and experience the difference for yourself.

**TAKEUCHI®**  
Keeping your business on track

# TAKEUCHI® TB53FR

## Zero Swing Excavator

Tight Turning Radius

### standard features



Tilt-Up  
Operator's  
Platform



- Patented side-to-side (STS) offset boom system
- Tilt-up operator's platform
- Attachment Interference Switch/Interference Prevention System
- Electrohydraulic push button control of auxiliary hydraulics
- Quick change control pattern selector valve
- Electronic engine monitoring system
- Cast iron, wrap around protective counterweight
- Automatic fuel bleed system
- Variable displacement axial piston hydraulic pumps
- One touch engine decelerator
- Travel alarm
- Safety lockout lever for travel and operating controls
- Remote slew lubrication system
- Low and high range travel speeds
- Two-way auxiliary hydraulics plumbed to dipper arm
- Triple flanged track rollers
- Spring applied, hydraulically released disc type parking brakes
- Precise, responsive, proportional control valve
- Simultaneous operation of cab swing and two digging functions with no reduction in speed
- Straight travel with simultaneous hoe attachment and swing functions
- Cushioned slew system, main boom, arm and swing cylinders
- Hydraulic oil cooler
- Protective routing of bucket and arm cylinder hydraulic hoses
- Adjustable pilot operated joystick controls with armrest
- Main boom cylinder guard
- Low noise level and EPA exhaust emission compliant engine
- O-ring and grease seals installed on bucket pins
- Six-way adjustable suspension seat
- Vandalism protected with lockable fuel tank and engine compartment
- Lockable operator's manual and storage compartments
- Two front mounted work lights
- Battery switch
- Heavy duty dozer blade
- Auxiliary hydraulic controls located on left joystick
- Hydraulic and fuel sight gauges
- Air filter restriction indicator
- Optional TOPS/FOPS isolation mounted cab with heater, windshield wiper and washer, retractable front windshield and removable lower section
- Cab Lamp
- One way / Two way auxiliary hydraulic selector valve

▶ dimensions & weight	
Operating Weight (lbs.)	12,581
Length (transport)	17'6"
Width	6'7"
Height	8'5"
Ground Clearance	11.8"
Min. Front Swing Radius (80° boom swing)	4'3"
Tail Swing Radius	3'5"
Dozer Blade (w/h)	6'7"/16.9"
▶ engine	
Make/Model	Yanmar / 4TNV88-QTB
Horsepower/RPM (SAE 1349 gross)	37.4 / 2,300
Maximum Torque (ft.-lb./rpm)	107 / 1,400
Cylinders/CID	4 / 134
Fuel Consumption (65% of full load) gal./hr.	1.4
Electrical System (volt/amp)	12 / 40
▶ swing system	
Independent Boom Swing Angle (L/R)	30° / 15°
Swing Speed (rpm)	10
Swing Motor	Axial Piston
Swing Reduction	Planetary
Swing Brake	Disc
▶ operating information	
Max. Dig Depth	12'10"
Max. Dump Height	12'9"
Max. Reach at Ground Level	20'4"
Max. Vertical Dig Depth	9'11"
Max. Dig Depth w/ 2 ft. Flat Bottom	12'8"
Max. Dig Depth w/ 8 ft. Flat Bottom	11'6"
Max. Bucket Dig Force (lbs.)	11,076
Max. Arm Dig Force (lbs.)	4,995

▶ lift capacities (lbs.) at 9'10" radius		
	over front, blade down	over side
+6.6 ft.	3,940	3,035
Ground level	4,290	2,535
-3.3 ft.	4,310	2,480
▶ undercarriage		
Traction Motor	Axial piston	
Traction Drive	Planetary	
Traction Force (lbs.)	11,674	
Traction Brake	Disc	
Track Rollers (per side)	5	
Carrier Roller (per side)	1	
Track Type	Rubber	
Track Width	15.7"	
Ground Contact Length	6'6"	
Ground Pressure (psi)	4.92	
Travel Speed (mph)	1.7 / 3.1	
Maximum Gradeability	30°	
▶ hydraulic system		
System Operating Pressure (psi)	3,000	
Pump Type	2 piston / 2 gear	
Hydraulic Flow (gpm)	14.8 x 2 / 9.9 x 1 / 2.7 x 1	
Auxiliary Flow (gpm)	14.8	
▶ capacities		
Hydraulic System (gal.)	31.8	
Fuel Tank (gal.)	19.9	
Engine Lubrication (qt.)	9.1	
Cooling System (qt.)	7.6	
Final Drives (qt.) each	0.9	

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