

TB153FR

TAKEUCHI[®]

The Power of Product and Support



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.

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.

TB153FR Zero Swing Excavator

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- Patented side-to-side (STS) offset boom system combined with a zero tail swing allows the TB153FR to slew 360°, inches beyond the excavators track width
- Tilt-up operator's platform combined with full opening engine compartment offers quick service access
- Automatic fuel bleed system eliminates the downtime and service calls required to bleed conventional fuel systems
- Control pattern selector valve allows for quick change of operating controls between SAE and ISO patterns to accommodate operator preferences
- Variable displacement piston pumps efficiently utilize engine horsepower while continuously adjusting power and speed for fast cycle times
- Electrohydraulic push-buttons located in the left-hand joystick insure precise control of the auxiliary hydraulic circuit
- Low center of gravity offers the stability and craning capacities of conventional excavators and the added functionality of working in exceptionally confined areas

DIMENSIONS AND WEIGHT/Canopy/Cab

Operating Weight (lbs).....	12,450/12,681
Width.....	6'7"
Height.....	8'5"
Length (transport).....	17'7"
Ground Clearance.....	11.8"
Min Front Swing Radius (15° boom swing).....	4'3"
Tail Swing Radius.....	3'8"
Dozer Blade (w/h).....	6'7" / 16.9"

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).....	11,093
Max Arm Dig Force (lbs).....	5,670

HYDRAULIC SYSTEM

System Operating Pressure (psi).....	3,000
Pump Type.....	2 piston / 2 gear
Hydraulic Flow (gpm).....	14.8 x 2 / 10.3 x 1 / 2.9 x 1
Auxiliary Flow (gpm).....	14.8

ENGINE

Make/Model.....	Yanmar 4TNV88-PTBZ1
Hp/RPM (SAE 1349 gross).....	38.2 / 2,300
Maximum Torque (ft-lb/rpm).....	107 / 1,400
Cylinders/CID.....	4 / 134
Fuel Consumption (65% of full load) gal/hr.....	1.6
Electrical System (volt/amp).....	12 / 72

UNDERCARRIAGE

Traction Motor Type.....	Axial Piston
Traction Drive Type.....	Planetary
Traction Force (lbs).....	11,674
Traction Brake Type.....	Disc
Track Rollers (per side).....	5
Carrier Roller (per side).....	1
Track Type.....	Rubber Crawler Belt
Track Width.....	15.7"
Track Ground Contact Length.....	6'6"
Ground Pressure (psi).....	4.63
Travel Speed (mph).....	1.7 / 3.1
Maximum Gradeability.....	30°

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

CAPACITIES

Hydraulic System (gal).....	29.1
Fuel Tank (gal).....	15.9
Engine Lubrication (qt).....	8.0
Cooling System (qt).....	8.8
Final Drives (qt) each.....	1.2

OPTIONS

TOPS / FOPS cab w/heater, air conditioning, windshield wiper, AM/FM cassette radio, retractable front window w/removable lower section

STANDARD FEATURES

- Patented side-to-side (STS) offset boom system
- Quick Change control pattern selector valve
- Electrohydraulic push button control of auxiliary hydraulics
- Low and high range travel speeds
- Two speed travel with automatic shift down
- One touch engine decelerator
- Two-way auxiliary hydraulics plumbed to dipper arm
- Attachment interference switch/ Interference prevention system
- Electronic engine monitoring system
- Cast iron, wrap around protective counter-weight
- Variable displacement piston pumps
- Triple flanged track rollers
- Spring applied, hydraulically released disc type parking brakes
- Precise response, proportional main control valves
- Automatic fuel bleed system
- Hydraulic and fuel sight gauges
- Two front mounted work lights
- Tilt-up operator's platform
- Simultaneous operation of cab swing and two digging functions with no reduction in working speed
- Straight travel with simultaneous hoe attachment and swing functions
- Travel alarm
- Safety lockout of operating controls
- Remote lubrication of slew and boom swing cylinders
- Cushioned main boom, arm and swing cylinders
- Main boom cylinder guard
- Hydraulic oil cooler
- Protective routing of bucket, arm and auxiliary hydraulic hoses
- Pilot operated joystick controls with armrest
- Low noise level and EPA exhaust emission compliant engine
- O-ring and grease seals installed on bucket pins
- Six-way adjustable suspension seat with retractable seat belt
- Vandalism protected lockable fuel tank and engine compartment
- Lockable operator's manual and tool storage compartments
- Battery switch
- Heavy duty dozer blade
- Air filter restriction indicator
- Cab lamp
- One way/two way auxiliary hydraulic flow selector valve