

TB180FR

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 TB180FR 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.

TB180FR Zero Swing Excavator

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- Patented side-to-side (STS) offset boom system combined with a zero tail swing allows the TB180FR 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-button and proportional slide switch 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

Operating Weight (lbs)	
cab rubber track.....	18,370
cab steel track.....	18,821
Width.....	7'7"
Height	
cab.....	9'1"
Length (transport).....	20'3"
Min Ground Clearance.....	14"
Min Front Swing Radius (15° boom swing).....	4'7"
Tail Swing Radius.....	4'1"

SWING SYSTEM

Independent Boom Swing Angle (l/r).....	30° / 15°
Swing Speed (rpm).....	10
Swing Motor.....	Axial Piston
Swing Reduction.....	Planetary
Swing Brake.....	Spring Applied Hydraulic Released

OPERATING INFORMATION

Max Dig Depth.....	14'11"
Max Dump Height.....	15'3"
Max Dig Height.....	21'2"
Max Reach at Ground Level.....	23'1"
Max Dig Depth w/blade.....	15'7"
Max Dig Depth w/2 ft Flat Bottom.....	14'9"
Max Dig Depth w/8 ft Flat Bottom.....	13'9"
Max Bucket Dig Force (lbs).....	16,335
Max Arm Dig Force (lbs).....	7,245

HYDRAULIC SYSTEM

System Operating Pressure (psi)	
Piston Pumps.....	3,989
Gear Pump #1.....	3,408
Gear Pump #2.....	493
Pump Type.....	2 piston / 2 gear
Hydraulic Flow (gpm).....	17.4 x 2 + 14.7 + 3.0
Auxiliary Flow (gpm).....	17.4

ENGINE

Make/Model.....	Yanmar 4TNV98
Hp/RPM (SAE 1349 gross).....	60.5 / 2,200
Maximum Torque (ft-lb/rpm).....	184.2 / 1,320
Cylinders/CID.....	4 / 202
Fuel Consumption (65% of full load) gal/hr.....	2.6
Electrical System (volt/amp).....	12 / 55
Noise Level	
Lwa.....	98dB
Lpa.....	78dB

UNDERCARRIAGE

Traction Motor Type.....	Axial Piston
Traction Drive Type.....	Planetary
Traction Force (lbs).....	18,720
Traction Brake Type	
.....	Spring Applied Hydraulic Released
Track Rollers (per side).....	5
Carrier Roller (per side).....	1
Shoe Type	
Steel	
Rubber.....	Crawler Belt
Ground Contact Length	
Steel.....	7'2"
Rubber.....	7'3"
Shoe Width	
Steel.....	17.7"
Rubber.....	17.7"
Ground Pressure (psi)	
Steel.....	5.60
Rubber.....	5.50
Travel Speed (mph)	
Steel.....	1.6 / 3.1
Rubber.....	1.7 / 3.4
Maximum Gradeability.....	30°

LIFT CAPACITIES (lbs) AT 13'0" RADIUS

	over front, blade down	over side
+6.6 ft.....	5,432	3,479
Ground Level.....	5,921	3,102
-3.3 ft.....	5,620	3,032

CAPACITIES

Hydraulic System (gal)	
Hydraulic tank.....	18.7
Total system.....	31.7
Fuel Tank (gal).....	24.3
Engine Lubrication (gal).....	2.7
Cooling System (gal).....	2.5
Final Drives (gal) each.....	0.4

DOZER BLADE

Width.....	7'7"
Height.....	20"
Maximum Raise.....	20"
Maximum Lower.....	16"

FOPS STANDARD

Cabin.....	ISO 12117 / ISO3449 level 1
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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 with auto idle
- 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
- Self adjusting track system