

TAKEUCHI

Those in the know, know Takeuchi

TB180FR - Full Rotation Excavator

OPERATING PERFORMANCE

Operating Weight	
Cab Rubber	18,370 lbs (8,332 kg)
Cab Steel	18,821 lbs (8,537 kg)
Maximum Digging Depth	14 ft 11 in (4,545 mm)
Maximum Dump Height	14 ft 8 in (4,470 mm)
Maximum Reach	23 ft 7 in (7,195 mm)
Maximum Bucket Breakout Force	16,335 lbs (7,409 kg)
Maximum Arm Digging Force	8,020 lbs (3,638 kg)
Arm Length	6 ft 7 in (2,000 mm)
Slew Speed	9.9 rpm
Traction Force	18,720 lbs (8,491 kg)

ENGINE

Make / Model	Yanmar / 4TNV98
Tier Rating	Interim Tier 4
Cylinders / Displacement	4 / 202 cu in (3.3 L)
Horsepower Gross (SAE J1995)	64.6 hp (48.2 Kw)
Horsepower Net (SAE 1349)	60.8 hp (45.3 Kw)
Rated Engine Speed	2,300 rpm
Maximum Torque	179 ft-lb @ 1,500 rpm (242.3 Nm)
Engine Lubrication	10.8 qt (10.2 L)
Cooling System	10.5 qt (9.9 L)
Fuel Tank Capacity	24.3 gal (92.0 L)
Fuel Consumption (65% of full load)	2.3 gal / hr (8.7 L / hr)
Electrical System	12 volts / 55 amps

UNDERCARRIAGE

Traction Drive Type	Planetary Reduction and Auto Shift Down
Parking Brake	Spring Applied, Hydraulically Released
Track Roller Type	Permanently Sealed, Triple Flanged
Track Rollers	5 per side
Track Width	17.7 in (450 mm)
Track Ground Contact Length	7 ft 3 in (2,210 mm)
Ground Pressure	
Rubber	5.5 psi (7.9 kPa)
Steel	5.6 psi (38.6 kPa)
Maximum Travel Speed	
Low Range	1.7 mph (2.7 km / hr)
High Range	3.4 mph (5.6 km / hr)

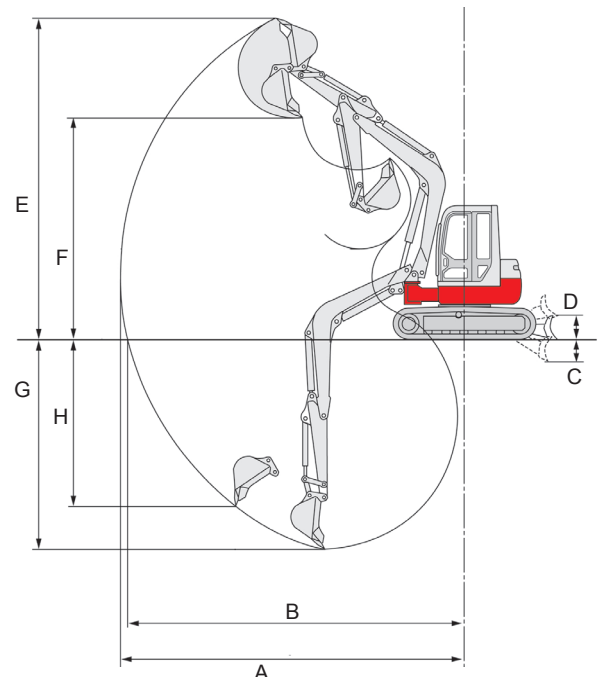
HYDRAULIC

Pump Type	Twin Variable Displacement Piston Pumps with Two Gear Pumps
Total Hydraulic Flow	52.5 gal / min (198.0 L / min)
Primary Auxiliary Hydraulic Flow	36.6 gal / min (138.4 L / min)
Secondary Auxiliary Hydraulic Flow	15 gal (58.0 L)
System Operating Pressure	4,000 psi (27.5 MPa)
Hydraulic Reservoir Capacity	18.0 gal (68.1 L)
Hydraulic System Capacity	31.7 gal (120.0 L)



WORKING DIMENSIONS

A. Maximum Reach	23 ft 7 in (7,195 mm)
B. Maximum Reach Ground Level	23 ft 1 in (7,045 mm)
C. Blade Maximum Lower	1 ft 3.9 in (405 mm)
D. Blade Maximum Lift	1 ft 7.9 in (505 mm)
E. Maximum Dig Height	21 ft 2 in (6,465 mm)
F. Maximum Dump Height	14 ft 8 in (4,480 mm)
G. Maximum Dig Depth	14 ft 11 in (4,545 mm)
H. Maximum Vertical Dig Depth	11 ft 5 in (3,490 mm)



Product Features

ENGINE

- ◆ EPA Interim Tier 4 Compliant
- ◆ Automatic Fuel Bleed System
- ◆ Extended Life Coolant
- ◆ Dual Element Air Cleaner

ELECTRICAL

- ◆ Electronic Monitoring System that Includes Visual and Audible Alarms for Low Oil Pressure, High Engine Coolant Temperature, Air Cleaner Restriction, and Charge Level
- ◆ 12 volt System with 55 amp Alternator
- ◆ Work Lights: Boom, Side Cover
- ◆ Engine Preheat
- ◆ Hour Meter
- ◆ Travel Alarm

UNDERCARRIAGE AND FRAME

- ◆ Triple Flanged Track Rollers
- ◆ Sloped Frame with Open Centers
- ◆ 2-Speed Travel with Automatic Shift
- ◆ Heavy Duty Dozer Blade
- ◆ Cast Iron Wrap Around Protective Counterweight
- ◆ 17.7" Rubber or Steel Tracks

HYDRAULIC

- ◆ Cushioned Main Boom, Arm, and Cylinders
- ◆ Pilot Controls
- ◆ Primary Auxiliary Hydraulic Circuit Plumbed to Arm with 1-Way and 2-Way Operation
- ◆ High Flow Primary Auxiliary Hydraulics, 36.6 gpm
- ◆ Second Auxiliary Hydraulics Plumbed to Arm
- ◆ Accumulator
- ◆ Hydraulic Oil Cooler with Sight Gauge

WORKING EQUIPMENT

- ◆ Main Boom Cylinder Guard
- ◆ Patented Side-to-Side (STS) Offset Boom System
- ◆ Long Arm
- ◆ Boom Holding Valve with Overload Alarm
- Dual Pin Position Bucket
- Mechanical Bucket Quick Coupler
- Main Pin Hydraulic Thumb

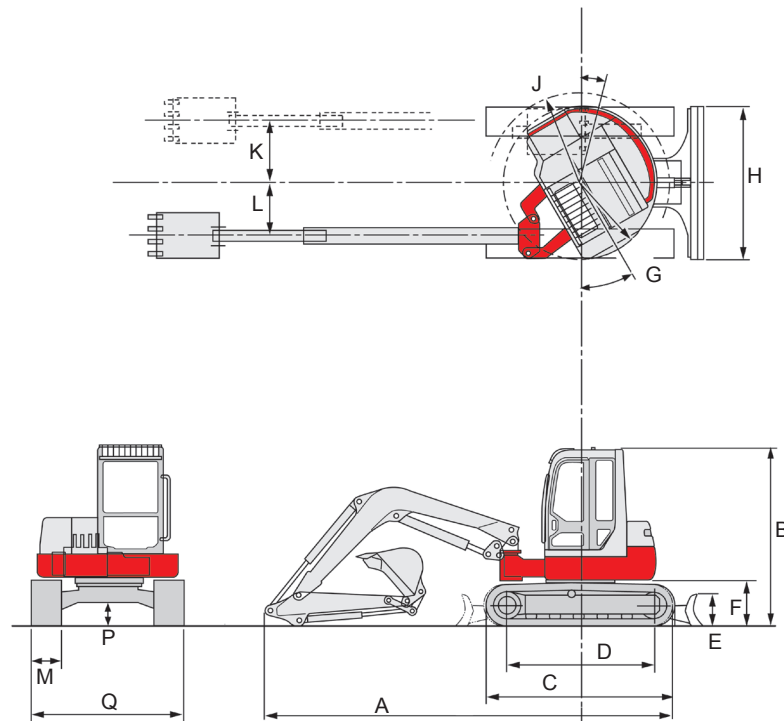
OPERATOR'S STATION

- ◆ Enclosed Cab with Air Conditioner, Heat, Defrost, Wiper, Cab and Boom Work Lights, Deluxe AM / FM / MP3 Jack, Retractable Front Glass with Cylinder Assisted Lift and Removable Lower Section
- ◆ Tilt-up Operator Station
- ◆ Six Way Adjustable Suspension Seat with Adjustable Arm Rests
- ◆ Quick Change Control Pattern (ISO or SAE)
- ◆ Proportional Slide Switch for Auxiliary Hydraulics
- ◆ 2" Retractable Seat Belt
- 3" Seat Belt

◆ - Standard ○ - Optional

MACHINE DIMENSIONS

A. Transport Length	20 ft 3 in (6,175 mm)
B. Transport Height	9 ft 1 in (2,770 mm)
C. Undercarriage Length	9 ft 4 in (2,855 mm)
D. Track Ground Contact Length	7 ft 3 in (2,210 mm)
E. Dozer Blade Height	1 ft 7.6 in (500 mm)
F. Counter Weight Ground Clearance	2 ft 4 in (715 mm)
G. Tail Swing (Slew) Radius	4 ft 1 in (1,255 mm)
H. Dozer Blade Width	7 ft 7 in (2,300 mm)
J. Min. Front Radius	4 ft 7 in (1,395 mm)
K. Offset Working Distance (Right)	3 ft 1.2 in (945 mm) @ 15°
L. Offset Working Distance (Left)	2 ft 7.5 in (800 mm) @ 30°
M. Track Width (Rubber)	17.7 in (450 mm)
P. Ground Clearance	1 ft 1.7 in (350 mm)
Q. Undercarriage Width	7 ft 7 in (2,300 mm)



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