

HYDRAULIC EXCAVATOR

TB257FR

takeuchi
From World First to World Leader



Product Features & Specifications

ENGINE

- U.S. EPA Tier 4 Final / EU Stage V
- Turbocharged Diesel
- Electronic Fuel Injection
- DOC+DPF Exhaust After Treatment
- Automatic Fuel Priming System
- Dual Element Air Cleaner
- Automatic Engine Idle Feature
- Working Modes: Standard, ECO, and High Altitude
- Automatic Cold Start Device
- High Capacity Radiator and Hydraulic Oil Cooler
- Engine Safe Start System
- 90 Amp Alternator

TAKEUCHI FLEET MANAGEMENT

- 2 Year Standard Service
- Minimize Downtime
- Remote Diagnostics
- Utilization Tracking
- Proactive Maintenance
- Control Costs
- Geofencing

UNDERCARRIAGE AND FRAME

- Triple Flange Track Rollers
- 2-Speed Axial Piston Travel Motors with Counterbalance Valves
- Integrated Load Sensing, Automatic Downshift
- Automatic Fail-Safe Mechanical Parking Brake
- High Torque Planetary Final Drives
- Automatic Slew Brake with Shockless Relief Valve

UNDERCARRIAGE AND FRAME (cont'd)

- Concealed in Frame Travel Motor Connections
- Heavy Duty Backfill Blade with Float
- Large Wrap Around Protective Counterweight
- 15.7" Rubber Tracks
- 15.7" Steel Tracks (Optional)

OPERATOR'S STATION

- ROPS/OPG (Top Guard, Level I) Four Post Canopy
- Pressurized Cab with A/C, Heat, Defrost, Windshield Wiper and Washer, Skylight with Sunshade, AM/FM/MP3 Bluetooth Radio (Cab Only)
- Multifunction LCD Display (Canopy)
- 5.7" Color Multifunction Display (Cab)
- Sealed Rocker Switches
- Multifunction Joystick Controls
- Hand Dial Electronic Throttle Control
- Deluxe High Back Suspension Seat
- Pilot Control Safety Lockout System
- Adjustable Arm Rest
- Removable/Washable Floor Mat
- Cup Holder
- 12 Volt Power Socket
- 2" Retractable Seat Belt
- 3" Retractable Seat Belt (Optional)

HYDRAULIC & WORKING EQUIPMENT

- Variable Displacement Axial Piston Hydraulic Pump with Tandem Gear Pumps
- Cushioned Boom and Offset Cylinders
- STS (Side to Side) Shift Boom Design

HYDRAULIC & WORKING EQUIPMENT (cont'd)

- Boom Holding Valve with Lift Overload Alarm
- Hydraulic Pilot Controls
- Primary and Secondary Hydraulic Circuits Plumbed to Mid-Arm Shutoff Valves
- Proportional Primary and Secondary Auxiliary Circuit Controls
- Primary Auxiliary Detent Feature
- Auxiliary Flow Adjustable From Monitor
- Automatic One-Way Flow Valve for Primary Auxiliary Circuit
- Automatic Auxiliary Circuit Pressure Release Feature
- Hydraulic Reservoir with Fluid Level Sight Gauge
- LED Work Lights
- Travel Alarm
- Multiple Attachment Presets
- Integrated Hydraulic Quick Coupler Control System (Quick Coupler Optional)
- Primary Auxiliary Circuit Flow Selector Valve
- Pilot Control Pattern Change Valve (ISO or SAE)
- Pilot Pressure Accumulator
- Main Boom Cylinder Guard
- Long Arm with Integrated Thumb Mount
- Dual Pin Position Bucket (Optional)
- Mechanical Bucket Quick Coupler (Optional)
- Hydraulic Pin Grabber Quick Coupler (Optional)
- Main Pin Hydraulic Thumb (Optional)



Side-to-Side Shift Boom Design



Automotive Styled Interior

TOUGH, POWERFUL, RELIABLE



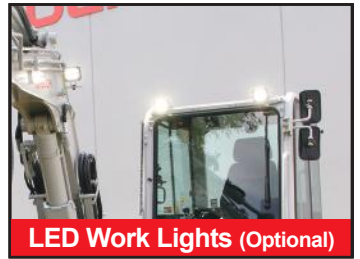
Large Floor with Foot Rest



Wraparound Counterweight



Heavy Duty Undercarriage



LED Work Lights (Optional)

The TB257FR is the latest addition to the Takeuchi FR line up and features the same Side-to-Side (STS) boom configuration and minimal swing radius as the TB280FR. Powering the TB257FR is the Kubota V2403-CR-TE5B turbocharged engine that is U.S. EPA Tier 4 Final compliant and provides 32% more engine output than it's predecessor, the TB153FR. Hydraulic performance is also improved with a 19% increase in traction force as well as hydraulic flow and main system pressure.

The operator will appreciate the spacious, well appointed cab that is shared with the TB280FR. Cab features include a large multifunction color monitor panel, electronic throttle control, rocker switches that control a wide range of functions, deluxe high back suspension seat, adjustable arm rests, and large floor area for greater legroom and comfort. There are three working modes, Standard, ECO, and High Altitude, which allow the operator to maintain optimum performance and efficiency depending on their application.

The unique Side-to-Side (STS) boom configuration is what sets the TB257FR apart from its competition. The STS boom configuration and minimal tail swing allows for unmatched visibility and maneuverability when working in confined spaces. This configuration allows the upper structure to be full rotated nearly within the width of the tracks when the boom is stowed in the full upright position.

Maintenance and serviceability have been greatly improved as well with an enhanced forward tilting cab design that allows for much easier access to the hydraulic control valve, slew motor, and swivel joint. In addition, the counterweight has been redesigned to allow for easier access to the engine for daily maintenance checks and service.



Forward Tilting Cabin and Wide Opening Service Hoods Provide Exceptional Maintenance Access.

OPERATING PERFORMANCE

Operating Weight - Canopy	12,675 lb	(5,750 kg)
Operating Weight - Cab	12,930 lb	(5,865 kg)
Slew Speed	9.6 rpm	
Travel Speed		
1st	1.6 mph	(2.6 km/h)
2nd	3.0 mph	(4.8 km/h)
Gradeability	30°	
Ground Pressure - Canopy	4.7 psi	(32.6 kPa)
Ground Pressure - Cab	4.8 psi	(33.3 kPa)
Max Bucket Breakout Force	10,431 lb	(4,731 kg)
Max Arm Digging Force	5,190 lb	(2,354 kg)
Traction Force	15,040 lb	(6,822 kg)
Boom Swing Angle (Left/Right)	30°/16°	

ENGINE

Make / Model	Kubota V2403-CR-TE5B	
Displacement	148.5 cu in	(2.4 L)
Horsepower @ 2,200 rpm	52.3 hp	(39.0 kW)
Maximum Torque @ 1,500 rpm	144.3 lb ft	(195.6 Nm)

FLUID CAPACITIES

Engine Lubrication	10.0 qt	(9.5 L)
Cooling System	10.6 qt	(10.0 L)
Fuel Tank Capacity	18.5 gal	(70.2 L)
Hydraulic Reservoir Capacity	13.7 gpm	(52.0 L)
Hydraulic System Capacity	26.4 gal	(100.0 w)

HYDRAULIC SYSTEM

Auxiliary Flow - Primary Circuit	27.7 gpm	(105.0 L/min)
Auxiliary Flow- Secondary Circuit	11.8 gpm	(44.7 L/min)
Hydraulic System Pressure	3,481 lb	(24.0 MPa)



Multifunction Display



Unmatched Visibility



Backfill Blade with Float



Multifunction Switch Bank

TB257FR Lifting Capacities at Ground Level*

Lift Point Radius from Rotation Axis		9' 9.6" (2,987 mm)		13' 1.2" (3,993 mm)	
	Lifting Capacities Over Front, Blade Down	5,022 lb	(2,278 kg)	3,339 lb	(1,515 kg)
	Lifting Capacities Over Side	2,969 lb	(1,347 kg)	1,989 lb	(902 kg)

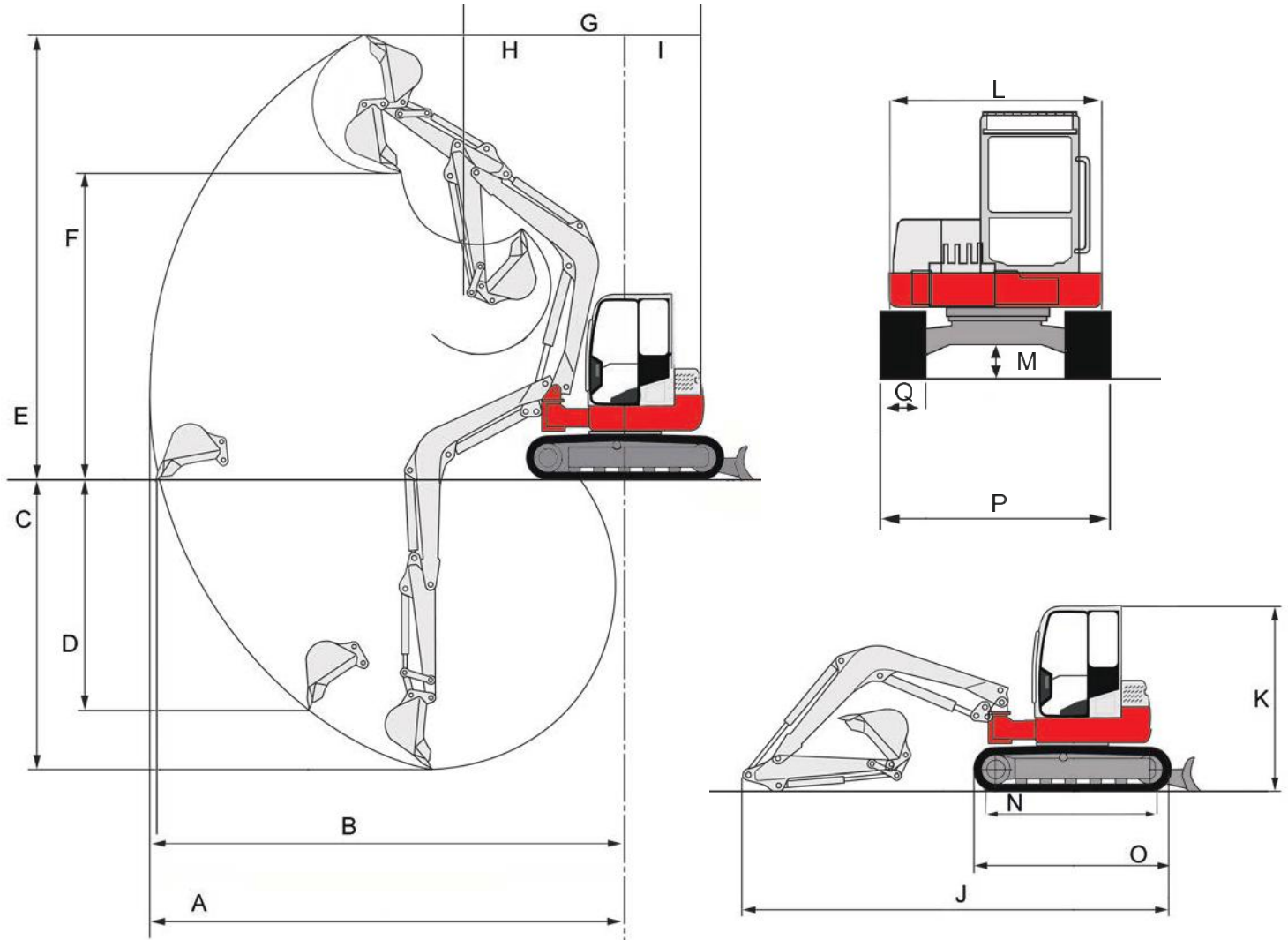
* Ratings based on ISO10567 and do not exceed 87% of hydraulic lift or 75% of tipping load.

ATTACHMENTS

Takeuchi now offers attachments for all of your Takeuchi equipment.

See your authorized Takeuchi dealer for additional information and attachment options.

TB257FR Compact Excavator



MACHINE DIMENSIONS

A	Maximum Reach	20' 4.6"	(6,215 mm)
B	Maximum Reach at Ground Level	19' 11.4"	(6,080 mm)
C	Maximum Digging Depth	12' 9.4"	(3,895 mm)
D	Maximum Vertical Digging Depth	10' 4.6"	(3,160 mm)
E	Maximum Height of Cutting Edge	18' 0.3"	(5,495 mm)
F	Maximum Dumping Height	12' 9.2"	(3,890 mm)
G	Front Swing Radius	8' 5.5"	(2,580 mm)
H	Front Swing Radius with Boom Offset	4' 8.5"	(1,435 mm)
I	Slew Radius	3' 10.6"	(1,180 mm)
J	Overall Length	17' 8.4"	(5,395 mm)
K	Overall Height	8' 5.4"	(2,575 mm)
L	Upper Structure Overall Width	6' 2.8"	(1,900 mm)
M	Ground Clearance	11.8"	(300 mm)
N	Track Base	6' 6.0"	(1,980 mm)
O	Undercarriage Length	8' 2.4"	(2,500 mm)
P	Undercarriage Width	6' 6.7"	(2,000 mm)
Q	Track Width	15.7"	(400 mm)



2 YEAR
2,000 HOUR
FULL MACHINE
WARRANTY



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In accordance with our established policy of continued improvement, specifications and
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