

HYDRAULIC EXCAVATOR

TakeuchiTM

From World First to World Leader

TB280FR

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MATERIAL HANDLING

1800 425 438

toyotatakeuchi.com.au



Operating Weight: 8,500 kg

Product Features & Specifications

ENGINE

- EU Stage V / EPA Tier 4 Emission Compliant
- Turbocharged
- DPF Exhaust After Treatment
- Double Element Air Cleaner
- Automatic Deceleration
- Working Modes: Standard, ECO and High Altitude
- Engine Preheat
- High Capacity Radiator and Hydraulic Oil Cooler
- Automatic Fuel Bleed System
- Engine Safety Start System on the Left Console
- Engine Auto Stop
- Fuel Supply Pump (optional)
- High Capacity Fuel Filters

ELECTRICAL

- 5.7" Color Multi-Informational Display
- Sealed Rocker Switches
- 12 volt System with 80 amp Alternator
- LED Light Package 1; Boom and Front Cab (optional)
- LED Light Package 2; Boom, Front Cab and Rear Cab (optional)
- Beacon Socket and Lamp Switch
- TFM (Takeuchi Fleet Management; GPS)*
- TSS (Takeuchi Security System; Immobilizer) (optional)*
- Travel Alarm (optional)
- Horn

OPERATOR'S STATION

- ROPS / OPG (TOP Guard, Level I)
- Deluxe High Back Suspension Seat
- Head Rest (optional)
- 2" Retractable Seat Belt
- Cab with Heat Defrost, Windshield Wiper and Washer, Skylight with Sunshade, AM / FM / MP3 Bluetooth Radio, 12v Power Outlet
- Rain Guard (optional)
- OPG Level II Roof Guard Kit (optional)
- OPG Level II Front Guard (optional)
- Air Conditioner (optional)

UNDERCARRIAGE AND FRAME

- Triple Flanged Track Rollers
- 2-Speed Travel with Automatic Shift
- High Torque Planetary Final Drive
- Auto Track Tensioning
- Large Wraparound Counterweight
- 2" Retractable Seat Belt
- 450 mm Rubber Crawlers
- 450 mm Steel Crawlers (optional)
- 450 mm Segmented Rubber Crawlers (optional)
- Rubber Pads for 450 mm Steel Crawlers (optional)
- Heavy Duty Dozer Blade with Float (optional)

TAKEUCHI FLEET MANAGEMENT

- Minimize Downtime
- Remote Diagnostics
- Utilization Tracking
- Proactive Maintenance
- Control Costs

HYDRAULIC

- Variable Displacement Pump
- Straight Travel Circuit
- Hydraulic Joystick Controls
- Proportional Control for Service Port 1
- Detent for Service Port 1
- Proportional Control for Service Port 2
- Service Port 3 for Quick Hitch (optional)
- Proportional Control for Service Port 4 (optional)
- Adjustable Auxiliary Flow for Service Port 1, 2, and 4
- Hydraulic Selector Valve (1-way / 2-way)
- Auto Pressure Release (optional)
- Air Breather, Hydraulic Tank
- Auto Tank (optional)
- Pilot Accumulator

WORKING EQUIPMENT

- Full Rotation Capability and STS Boom
- Cushioned Boom, Arm, and Offset Cylinders
- Main Boom Cylinder Guard
- Auxiliary Hydraulic Circuit Plumbed to Arm
- 1,650 mm Arm
- 1,810 mm Arm
- 2,000 mm Arm
- Boom Holding Valve with Lift Alarm
- Arm Holding Valve (optional)
- Pattern Change Valve (ISO or G) (optional)



Side to Side Boom Design



Automotive Styled Interior

*Functions may not be available in all countries, so please consult your Takeuchi dealer for details.

TOUGH, POWERFUL, RELIABLE



Large Floor with Foot Rest



Wraparound Counterweight



Triple Flanged Track Rollers



Work Lights

The TB280FR is a unique platform that separates itself from the competition with its unique side-to-side (STS) boom configuration and full rotation (FR) capabilities. One of the greatest benefits of the STS boom is the unmatched visibility to the attachment and job site. This design also allows the boom to be stowed over center in the full upright position enabling it to make a full rotation (FR) within a very tight radius allowing it to work within similar confines

as a smaller 5 ton machine for greater performance and productivity. Additional features include an updated cabin with automotive styled interior, color multi-informational display, multiple attachment presets with operator adjustable flow rates, standard auxiliary hydraulic circuits 1 & 2 allowing the operator to run a wide range of attachments, backfill blade and a tilt-up cab for greater serviceability.



A tilt-able cabin and large lockable service hoods provide outstanding maintenance access.

OPERATING PERFORMANCE

| | |
|---|------------|
| Operating Weight - Cab (Rubber) | 8,500 kg |
| Operating Weight - Cab (Steel) | 8,695 kg |
| Bucket Capacity (Heaped) | 0.245 m³ |
| Slew Speed | 10.0 min-1 |
| Travel Speed | |
| 1st | 2.7 km/h |
| 2nd | 5.2 km/h |
| Gradeability | 30° |
| Ground Pressure - Cab (Rubber) | 37.9 kPa |
| Ground Pressure - Cab (Steel) | 39.3 kPa |
| Maximum Bucket Breakout Force | 46.7 kN |
| Maximum Arm Digging Force (1,650 mm Arm) | 34.8 kN |
| Maximum Arm Digging Force (1,810 mm Arm) | 32.9 kN |
| Maximum Arm Digging Force (2,000 mm Arm) | 31.3 kN |
| Traction Force | 88.0 kN |
| Boom Swing Angle (Left/Right) | 30° / 15° |

ENGINE

| | |
|--------------------------|-----------------------|
| Model | Yanmar / 4TNV98CT |
| Rated Output (ISO 14396) | 51.6 kW / 2,000 min-1 |
| Maximum Torque | 308 Nm / 1,300 min-1 |
| Displacement | 3,318 ml |
| Alternator | 12 V - 0.96 kW |
| Battery (IEC 60095-1) | 12 V - 90 A·h |

FLUID CAPACITY

| | |
|------------------------------|---------|
| Engine Lubrication | 9.4 L |
| Cooling System | 14.0 L |
| Fuel Tank Capacity | 100.0 L |
| Hydraulic Reservoir Capacity | 71.0 L |
| Hydraulic System Capacity | 147.0 L |

HYDRAULIC SYSTEM

| | |
|--------------------|----------------------------|
| P1, P2 | Variable Displacement Pump |
| Flow Rate | 74.0 L/min |
| Relief Pressure | 27.5 MPa |
| P3 | Gear Pump |
| Flow Rate | 59.0 L/min |
| Relief Pressure | 24.0 MPa |
| Service Port 1 | |
| Flow Rate | 148.0 L/min |
| Hydraulic Pressure | 20.6 MPa |
| Service Port 2 | |
| Flow Rate | 59.0 L/min |
| Hydraulic Pressure | 20.6 MPa |
| Service Port 3 | |
| Hydraulic Pressure | 20.6 MPa |
| Service Port 4 | |
| Flow Rate | 59.0 L/min |
| Hydraulic Pressure | 20.6 MPa |

SAFETY and HEALTH

| | |
|-------------------|------------|
| Vibration Levels | |
| Hand / Arm | ≤ 2.5 m/s² |
| Body | ≤ 0.5 m/s² |
| Noise Level | |
| Sound Power Level | LwA 99 dB |



Multi-Informational Display



Unmatched Visibility

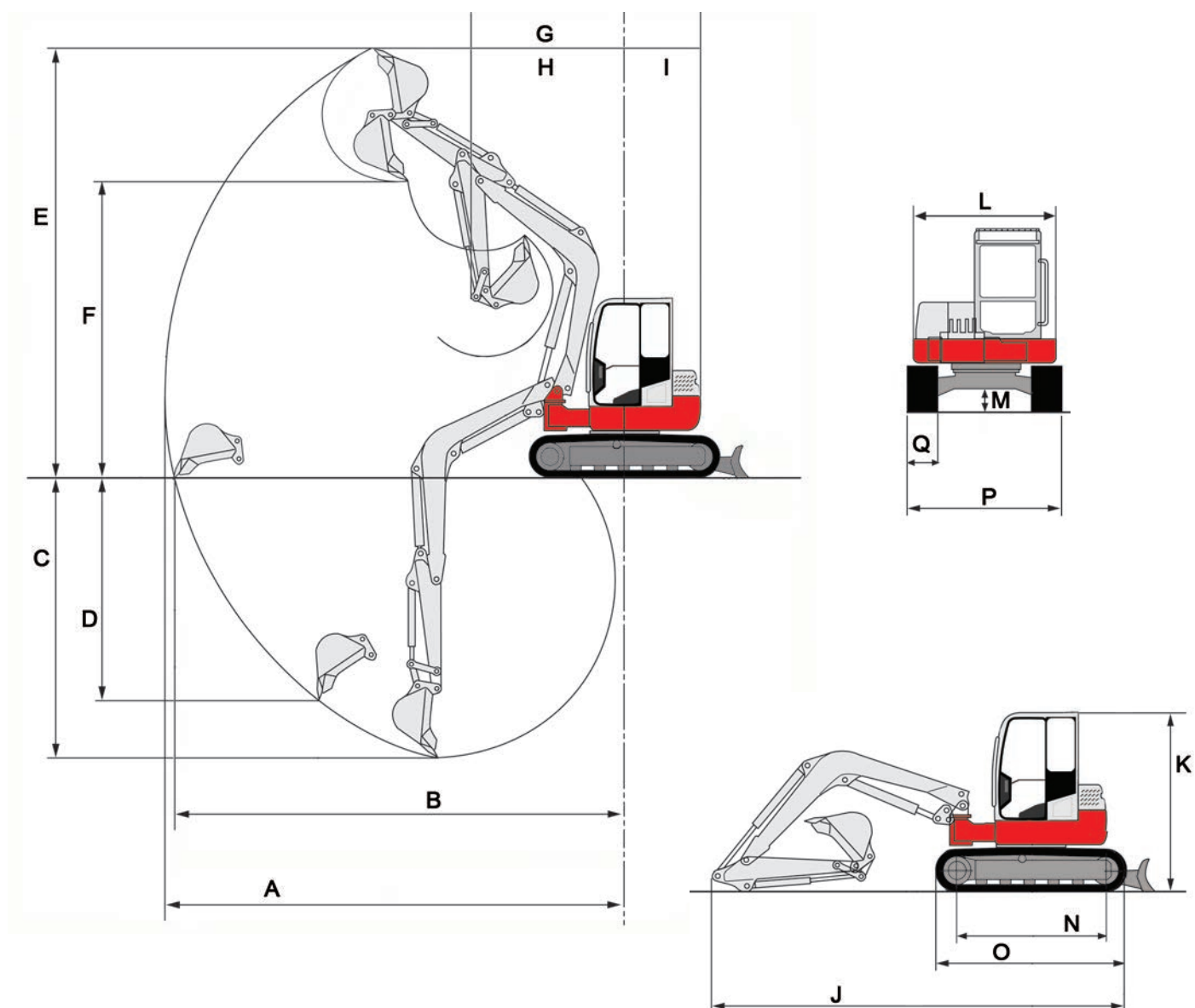


Dozer Blade



Multi-Function Switch Bank

TB280FR Hydraulic Excavator



| MACHINE DIMENSIONS | 1,650 mm ARM | 1,810 mm ARM | 2,000 mm ARM |
|---------------------------------------|--------------|--------------|--------------|
| A Maximum Reach | 6,870 mm | 7,035 mm | 7,195 mm |
| B Maximum Reach at Ground Level | 6,715 mm | 6,885 mm | 7,045 mm |
| C Maximum Digging Depth | 4,195 mm | 4,375 mm | 4,540 mm |
| D Maximum Vertical Digging Depth | 3,160 mm | 3,330 mm | 3,495 mm |
| E Maximum Height of Cutting Edge | 6,280 mm | 6,375 mm | 6,465 mm |
| F Maximum Dumping Height | 4,295 mm | 4,390 mm | 4,480 mm |
| G Front Swing Radius | 2,835 mm | 2,880 mm | 2,880 mm |
| H Front Swing Radius with Boom Offset | 1,610 mm | 1,610 mm | 1,610 mm |
| I Slew Radius | 1,280 mm | 1,280 mm | 1,280 mm |
| J Overall Length | 6,160 mm | 6,175 mm | 6,285 mm |
| K Overall Height | 2,725 mm | 2,725 mm | 2,725 mm |
| L Upper Structure Overall Width | 2,170 mm | 2,170 mm | 2,170 mm |
| M Ground Clearance | 315 mm | 315 mm | 315 mm |
| N Crawler Base | 2,210 mm | 2,210 mm | 2,210 mm |
| O Crawler Overall Length | 2,855 mm | 2,855 mm | 2,855 mm |
| P Crawler Overall Width | 2,300 mm | 2,300 mm | 2,300 mm |
| Q Crawler Shoe Width | 450 mm | 450 mm | 450 mm |



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FORM: TB280FR Compact Excavator Spec Sheet - Apr. 2019