

## COMPETITIVE COMPARISON

	Takeuchi TB180FR	Bobcat E80 M-Series	Caterpillar 308D CR SB	John Deere 85D	Kubota KX080-3
<b>Operating Performance</b>					
Tail Swing Design	<b>Full Revolution</b>	Minimal	Minimal	Minimal	Conventional
Operating Weight	18,370 lbs.	18,689 lbs.	18,519 lbs.	18,821 lbs.	18,364 lbs.
Maximum Bucket Digging Force	<b>16,335 lbs.</b>	12,280 lbs.	13,489 lbs.	12,368 lbs.	14,660 lbs.
Maximum Arm Digging Force	<b>8,020 lbs.</b>	7,659 lbs.	7,868 lbs.	7,209 lbs.	8,554 lbs.
<b>Engine</b>					
Engine Make	Yanmar	Kubota	Mitsubishi	Isuzu	Kubota
Engine Model	4TNV98	--	4M40 TL	4LE2X	V3307-DI-T
Horsepower Net	<b>60.8 hp</b>	57.0 hp	55.6 hp	54.0 hp	66.5 hp
Rated Engine Speed	2,300 rpm	--	2,000 rpm	2,000 rpm	2,000 rpm
Maximum Torque	179 ft-lb	--	--	--	--
<b>Undercarriage</b>					
Track Width	17.7"	--	18.0"	18.0"	17.7"
Track Ground Contact Length	7' 3"	--	--	7' 6"	7' 6.6"
Ground Pressure	5.5 psi	5.66 psi	--	4.9 psi	5.22 psi
Traction Force (Drawbar Pull)	<b>18,720 lbs.</b>	--	14,388 lbs.	14,661 lbs.	14,615 lbs.
Maximum Travel Speed	<b>3.4 mph</b>	2.9 mph	3.1 mph	3.1 mph	3.1 mph
<b>Hydraulic System</b>					
Total Hydraulic Flow	<b>52.5 gpm</b>	--	--	47.1 gpm	55.6 gpm
Auxiliary Hydraulic Flow	<b>1st 36.6 gpm</b>	31.7 gpm	33.8 gpm	--	26.4 gpm
Maximum System Pressure	<b>4,000 psi.</b>	--	4,061 psi.	3,771 psi.	--
Hydraulic Reservoir Capacity	<b>18 gal.</b>	--	21.9 gal.	15 gal.	19.8 gal.
Hydraulic System Capacity	<b>32 gal.</b>	--	24.8 gal.	27 gal.	36 gal.
<b>Dimensions and Specifications</b>					
Width	<b>7' 7"</b>	7' 7"	7' 7"	8' 1"	7' 2.6"
Height	9' 1"	8' 7.9"	8' 6"	8' 10"	8' 4"
Length (Transport)	20' 3"	20' 2.8"	21' 2"	22' 0"	21' 2"
Ground Clearance	13.7"	--	--	14"	15.4"
Maximum Digging Depth	<b>14' 11"</b>	15' 2"	15' 2"	14' 8"	15' 1"
Maximum Dump Height	14' 8"	16' 8"	18' 10"	16' 10"	17' 2"
Maximum Reach at Ground Level	<b>23' 7"</b>	24' 6"	22' 5"	24' 9"	23' 6"

**HIGHLIGHTED** item indicates a Takeuchi advantage over one or more of the competitors

## TAKEUCHI Advantage

### PERFORMANCE

- The side-to-side offset boom combined with the unique "Full Revolution" design of the Takeuchi TB180FR allows the machine to slew 360 degrees just inches beyond the excavators track width.
- Attachment interference prevention system protects the machine from contact with the boom or bucket.
- The incredible traction (drawbar) force of the two speed planetary travel motors along with the automatic step down feature provides torque on demand when pushing or turning in high speed.
- Load compensating, multi-pump hydraulic system provides smooth, synchronized control while allowing excellent multiple function operation that operators expect.

### DURABILITY

- Takeuchi's frame and undercarriage is made from thick, high quality steel which provides superior strength
- Extra large pins, bushings, bearings and seals provide hours of useful service.
- Cushioned boom, arm, and swing cylinders allow for smooth operation while reducing stress on the frame, components and operator.

### COMFORT

- The spacious operator's compartment offers excellent visibility, comfort and easy entry and exit.
- Extremely quiet operation.
- Standard high back suspension seat, adjustable arm rest and retractable seatbelt.
- Progressive pilot controls with pattern change valve

### SERVICEABILITY

- Tilt up operator's platform provides quick and easy access to major components.
- Side-by-side radiator and hydraulic oil cooler provide greater cooling capacity and easier cleaning. Hinged side and rear panels promote easy servicing.
- Long life hydraulic oil offers reduced service intervals.
- Sectional hydraulic hoses for easy replacement.
- Simple electrical and hydraulic systems.

#### EPA Tier 4i Diesel Engine

This rugged engine provides excellent power and economy in a small package. Takeuchi is also known as one of the quietest machines on the market.

#### High Performance Cooling System

A hinged cover provides access to side-by-side coolers that feature increased cooling capacity and are easy to inspect, clean and maintain.

#### Boom Safety Device

Additional peace of mind is provided by the boom safety device and selectable lift alarm.

#### Load Compensating Hydraulics

Our 4-pump design provides smooth, synchronized control of the boom, arm, and swivel with no reduction in working speed. This also allows the engine to work more efficiently without wasting fuel.

#### Heavy Duty Blade

Integrated reinforcements and a large hydraulic cylinder combine to make light work of backfilling and helps stabilize the unit. Large tie-down points are provided to secure the machine.

#### Performance

- Best-in-class bucket breakout force
- Excellent dump height
- Excellent dig depth
- Best-in-class travel speed
- Best-in-class tractive force (drawbar pull)

#### Excellent Operator Comfort

The operator's compartment offers excellent visibility and comfort with its high-back suspension seat, adjustable arm rests, and easy-to-operate pilot controls with standard pattern selector.



#### Automatic Step-down Travel

Maximizes production by allowing you to travel or push in high speed. When a load is encountered during pushing or turning, the travel motors automatically shift to high torque mode to provide excellent track power.

#### Durability

- Efficient EPA Interim Tier 4 engine
- Heavy-duty dozer blade
- Large pins and bushings
- Thick frames and quality welds
- Large hydraulic cylinders and rods

#### Patented Side-to-Side boom

This exclusive feature allows better visibility while allowing the machine to turn a full revolution within inches of the machine's track width. This is more than just a zero tail swing, it's a full revolution!

#### Cushioned Hydraulic Cylinders

Cushioned boom, arm, and swing cylinders allow for smooth operation while reducing stress on the frame and other components. No one else offers this same level of quality in their base machine.

#### Operator Comfort / Safety

- Large operator's compartment
- Suspension seat and arm rests
- Retractable seat belt and travel alarm
- Boom safety device and lift alarm standard
- FOPS Level 2 protection

#### Excellent Dump Height

Allows you to dig and load material with ease. Takeuchi's dual pin position bucket provides even more versatility and enables you to adapt the machine's digging characteristics to the task at hand.

#### Dual Auxiliary Circuits

1st auxiliary high flow circuit and 2nd auxiliary low flow circuit are plumbed to the arm for excellent attachment versatility

#### Large Pins and Bushings

Extra large pins and bushings provide many hours of useful service. O-rings and pin seals on the bucket pins help keep the elements out of this critical area.

#### Excellent Dig Depth

Outstanding dig depth and excellent reach means you can dig more and reposition less, increasing your productivity.

#### Class Leading Digging Power

The Takeuchi TB180FR has class leading bucket breakout force and excellent arm digging force, giving you the power you need to get the job done quickly.

#### Serviceability

- Tilt up operators platform
- Hinged side and rear panels
- In-tank hydraulic filter
- Easy access lubrication points
- 2 year/2000 hour full machine warranty