

COMPETITIVE COMPARISON

	Takeuchi TW80	Case 321E	Caterpillar 907H	John Deere 304J	Volvo L30B PRO
Operating Performance					
Loader Boom Design	Z-bar	Z-bar	Z-bar	Z-bar	Z-bar
Bucket Breakout Force	15,287 lbs.	11,241 lbs.	9,442 lbs.	12,364 lbs.	13,710 lbs.
Lift Arm Breakout Force	13,567 lbs.	--	--	--	12,930 lbs.
Engine					
Engine Make	Deutz	Deutz	Cat	John Deere	Volvo
Engine Model	TD 2011	BF4M2011	C3.4	5030T	D3.6D
Horsepower Net	76.0 hp	77.0 hp	70.0 hp	73.0 hp	67 hp
Rated Engine Speed	2,600 rpm	2,500 rpm	2,500 rpm	2,800 rpm	2,300 rpm
Maximum Torque	177 ft-lb	226 ft-lb	--	195 ft-lb	177 ft-lb
Drive Train					
Traction Lock Front	Locking std	Ltd. slip std	Locking std	Locking std	Locking std
Traction Lock Rear	Locking std	Ltd. slip opt	Locking std	None	Locking std
Frame / Axle Articulation	24 deg.	24 deg.	--	20 deg.	20 deg.
Travel Speed High Range	12.4 mph	12.4 mph	12.4 mph	18.6 mph	11.5 mph
Hydraulic System					
Hydraulic Reservoir Capacity	19.8 gal.	10.5 gal.	--	21 gal.	--
Maximum System Pressure	4,061 psi.	3,626 psi.	3,400 psi.	2,750 psi.	3,625 psi.
Auxiliary Hydraulic Flow	18.5 gpm	21.1 gpm	22.0 gpm	25.0 gpm	14.5 gpm
Dimensions					
Max. Lift Height to Bucket Pin	11' 1"	11' 4"	10' 7"	11' 0"	10' 7"
Dump clearance Fully Raised	8' 6"	8' 8"	7' 10"	8' 9"	8' 4"
Reach Fully Raised	2' 5"	2' 10.8"	2' 8"	2' 10.8"	2' 4"
Overall Width without Bucket	6' 9"	6' 7"	6' 0"	--	6' 0"
Overall Height	8' 10"	9' 2"	8' 6"	9' 2"	8' 11"
Ground Clearance	18"	13"	11.8"	15.2"	22"
Tipping Load, Straight	9,420 lbs.	9,744 lbs.	9,524 lbs.	10,241 lbs.	9,700 lbs.
Tipping Load, Full Turn	8,294 lbs.	8,277 lbs.	6,989 lbs.	9,315 lbs.	8,490 lbs.
Operating Cap.* (50% Tip Load)	4,147 lbs.	4,138 lbs.	3,494 lbs.	4,657 lbs.	4,245 lbs.
Operating Weight	12,677 lbs.	12,676 lbs.	12,809 lbs.	13,404 lbs.	12,040 lbs.

* Operating capacity rated according to SAE J818 (50% of the tipping load)

HIGHLIGHTED indicates Takeuchi advantage over one or more of the competitors

TAKEUCHI Advantage

PERFORMANCE

- Takeuchi's Z-pattern lift geometry offers excellent breakout force and lifting capacity.
- 100% inching pedal provides optimum travel speed control.
- 100% differential lock for both front and rear axles provide on-the-go traction when operating in harsh conditions.
- True center pivot frame and total steering angle of 80 degrees means the rear wheels follow in the same track as the front wheels to allow the machine to maneuver in very tight areas.

DURABILITY

- Self aligning bushings are provided for cylinder pivot points that allow for larger pins for extra durability and are easily replaceable.
- The two speed hydrostatic drive system offers great performance and endurance.
- Rigid axles equipped with outboard planetary final drives provides a durable drive system.
- Curved rear counterweight provides excellent balance without being obstructive.

COMFORT

- Standard enclosed operators station that is ROPS (Roll Over Protective Structure) and FOPS (Falling Object Protective Structure) Level II certified.
- Features include; retractable seat belt, suspension seat, easy to operate pilot controls, front and rear wipers, rear window defrost, and cabin heater. (Optional air conditioning)

SERVICEABILITY

- Tilt-up rear cover provides easy access to the engine and other major components.
- Rear belly pan protects the engine and drive system.
- Convenient hydraulic system test ports.
- Centrally located lubrication and service points.
- 2 year/2000 hour full machine warranty.
- Simple electrical and hydraulic systems

Easy Access Engine Compartment

Offers great serviceability of major components and maintenance points under the tilt-up, lockable engine cover.

Large Rear Counterweight

Protects the rear of the machine and provides excellent balance for lifting heavy loads. The incorporated tie downs and tow hitch are provided for added convenience.

100% Inching Pedal

The speed control can be accomplished by reducing the oil flow to the drive motor and slowing the loader to a crawl. This unique system reduces wear on the brakes, improves fuel economy, and offers faster loader cycle times.

Hydrostatic Drive

Provides excellent machine control with minimal braking, and the standard two-speed travel enables you to move material quickly.

Excellent Operator Comfort

The operator's compartment provides excellent visibility and comfort with its suspension seat, arm rest, easy-to-operate controls, large steps, comfortable grab handles and a spacious cabin that is ROPS and FOPS Level 2 certified.

100% Differential lock

This standard feature enables full locking of the front and rear axles, and is engaged with a convenient switch located on the joystick. This gives the operator the ability to apply the diff lock on the move when loading a bucket or traveling through difficult terrain.



Z Bar Boom lift

Is superior in excavating and grading applications and provides excellent lifting capabilities for placing loads. It also offers great dump height, allowing you to load material with ease.

Flat Face Coupler

The available couplers allow you to easily make hydraulic hose connections directly on the attachment mounting bracket. A detent is provided for operation of attachments that require constant flow.

Self-Aligning Bearings

These easily replaceable, self-aligning bearings provide exceptional service life when compared to traditional pins and bushings.

Best-in-Class Breakout Force

The Takeuchi TW80 has the highest bucket breakout force in its class to handle those difficult excavating and lifting chores.

Excellent Turning Radius

With a true center pivot frame and an articulation of 80 degrees, the rear wheels follow in the same track as the front wheels to allow the machine to maneuver in very tight areas.

Hydraulic Bucket Quick-Attach

This feature allows you to exchange attachments from the comfort of the operator's seat and is standard on all machines.

Bucket Float and Positioning

A standard bucket float makes back-dragging a breeze. The automatic bucket positioner keeps the bucket level while raising and repositions the bucket to the dig position after dumping from full height.

Performance

- Best-in-class bucket breakout force
- Best-in-class loader lift force
- Excellent dump height
- Best-in-class traction force (drawbar pull)
- Standard 2-speed travel

Durability

- Efficient EPA Tier 3 engine
- 100% locking differential
- 100% Inching pedal
- Outboard planetary drive
- Self-aligning bushings and large pins

Operator Comfort / Safety

- Large, comfortable operator's compartment
- Quiet operation
- Suspension seat and arm rests
- Easy-to-operate pilot controls
- ROPS and FOPS Level 2 protection

Serviceability

- Tilt-up engine cover
- Easy access to major components
- Hydraulic system test ports
- Centrally located grease points
- 2 year/2000 hour full machine warranty