

# TAKEUCHI®

*Those in the know, know Takeuchi*

**Wheel Loaders**

**TW50**

**TW65**

**TW80**



# Compact Wheel Loaders

The engineering focus of Takeuchi is to build machines to the highest standards of quality and performance; machines that incorporate solutions into each and every component and feature.

Takeuchi offers three models of compact wheel loaders further enhancing our extensive line of compact earthmoving equipment.

Takeuchi compact wheel loaders provide exceptional value for the dollar spent and demonstrate an outstanding blend of power and performance. They provide a unique combination of precision, durability, comfort and ease of service needed to perform a wide range of tasks, enabling the operator to complete their jobs quickly and efficiently.

The Takeuchi design philosophy is centered upon Four Pillars: Performance, Durability, Operator Comfort, and Serviceability. When you invest in Takeuchi, you receive five decades of equipment innovation and know how, the quality assurance of ISO-9001 certification and exceptional support from and industry innovator and leader.







The TW50 weighs 8,708 lbs, and has 57 hp (gross)



The TW65 weighs 10,582 lbs, and has 69 hp (gross)



The TW80 weighs 12,677 lbs, and has 80 hp (gross)

# Performance

Takeuchi wheel loaders are equipped with standard features that enhance machine performance, providing many jobsite solutions and making them a great addition to your fleet.

Our loaders feature EPA certified Deutz engines that offer an unprecedented blend of clean and quiet operation, powerful performance, and excellent fuel efficiency.

The hydrostatic drive system features two-speed travel that can be engaged on the move by simply depressing a button on front of the loader control handle. In high-speed travel, these loaders can reach top speeds of over 12 mph enabling them to move quickly and easily around the jobsites.

The 100% inching pedal allows the operator to control the travel speed independently from the engine speed without creating heat buildup resulting from applying the brake or lugging the engine; dramatically extending the life of both.

Takeuchi compact wheel loaders articulate 40° right and left and feature a true center pivot frame which enables the rear tires to follow the same line as the front tires. This makes them a great choice for working in confined areas.

The parallel lift loader linkage on the TW50 operates like a tool carrier and makes it a great choice for picking and placing items. The Z-bar loader linkage found on the TW65 and TW80 provides outstanding breakout forces allowing these machines to efficiently and effectively excavate, grade, and load material from stock-piles.



With the loader control lever fully forward in the detent position, the operator is able to engage the bucket float function. This allows the operator to back-drag quickly and efficiently making it much easier to finish grade or dress-up a jobsite.





Center frame oscillation allows the loader to oscillate a total of 20° and helps to maintain stability and traction



True center pivot steering provides a total angle of 80 degrees and allows rear wheels to follow in same track as front wheels enabling the machine to maneuver in tight areas



Travel speed is easily controlled using the 100% inching pedal that can slow the loader to a crawl/stop, reducing wear on the brakes and improving fuel economy

# Durability

Outboard mounted planetary drives provide the most efficient and durable method of speed reduction and torque amplification. This allows Takeuchi to use larger bearings and a smaller drive shaft resulting in longer component life and better ground clearance. The oil for the planetary drives is housed separately from the differentials resulting in lower heat, cleaner oil, and better cooling.

100% locking differentials are standard equipment and may be locked momentarily while travelling in first speed. With the front and rear differential locked the operator can get the additional traction needed to power through rough conditions and difficult digging applications.

Hydraulic hoses are protected using rubber hose wraps, and hydraulic lines are routed along the inside of the loader arms to provide additional protection from worksite hazards.

As with other Takeuchi machinery the compact wheel loaders feature high strength frames and high quality welds that ensure product longevity. Large diameter pins are utilized in high stress areas and all cylinders are mounted on spherical, self aligning bearings that are easily replaced and provide exceptional service life when compared to traditional pins and bushings.

A large wrap around rear counterweight protects the rear of the machine and provides exceptional balance for lifting heavy loads. The counterweight has tie downs mounted on either side to easily secure the machine for transport. A tow hitch is also provided for added convenience.







Heavy duty axles are equipped with outboard planetary final drives that provide excellent durability and promote lower axle temperatures, which prolong the oil life



Heavy duty curved rear counterweight provides excellent balance without being obstructive



The hydrostatic drive system provides excellent traction and machine control while the standard two-speed travel enables you to move material quickly

# Operator Comfort

A spacious operator's station offers outstanding visibility and comfort. All models feature a standard six-way adjustable suspension seat, arm rest, and easy to operate low effort loader control. The operator can enter and exit the machine safely thanks to the large grab handles and well placed steps. A Rollover Protective Structure (ROPS) and certified Falling Object Protective Structure (FOPS) provide the operator with additional peace of mind.

The TW65 and TW80 feature an adjustable steering column that allows the operator to adjust the steering wheel to their desired position providing greater comfort, mobility, and productivity. It also makes it easier for the operator to enter and exit the machine.

The gauge cluster and accessory controls are ergonomically designed and clearly marked making them easy to access and monitor, allowing the operator to focus on the job and worry less about locating a switch or dial.







Hydraulic quick coupler provides a heavy duty mount for attachments and is hydraulically actuated from the operator's seat. An optional SSL style adaptor is also available



Adjustable steering column comes standard on the TW65 and TW80 models



The large operator's compartment offers excellent comfort with its suspension seat, arm rests, easy-to-operate controls, and spacious floor

# Serviceability

Takeuchi designs each compact wheel loader to simplify service access, reducing downtime and saving you money.

Takeuchi compact wheel loaders feature a monitor panel that checks engine performance and alerts the operator to potential issues, protecting the loader and minimizing downtime. The monitor panel includes indicators for: electrical, air filter restriction, low brake fluid level, engine and hydraulic oil temperature, and engine oil pressure.

The wide opening engine cover provides unequalled access to daily inspection points such as filters and fluid levels.

Easy access grease points are centrally located making routine service simple and efficient.

The hydraulic oil sight gauge allows the operator to quickly and accurately check the hydraulic oil level.







Protected hose routing and steel lines help reduce the chance for damage during operation



Convenient hydraulic system test ports provide an easy connection for diagnostic equipment to ensure your machine is running at its peak performance



Outboard planetary final drives allow for easy servicing and help keep the oil and components cool and clean

# Specifications



## OPERATING PERFORMANCE

Standard Machine with Bucket
Operating Weight
Tipping Load, Straight
Tipping Load, Full Turn
Rated Operating Capacity, SAE J818*
Bucket Breakout Force
Lift Arm Breakout Force
Traction Force
<b>Cycle Time</b>
Raise Full Load
Lower No Load
Dump Full Load



## ENGINE

Make/Model
Tier Rating
Cylinders/Displacement
Horsepower Gross (SAE J1995)
Horsepower Net (SAE J1349)
Rated Engine Speed
Maximum Torque
Engine Lubrication
Cooling System
Fuel Tank Capacity
Fuel Consumption (65% of full load)
Electrical System

## DRIVE TRAIN

Transmission Type
Axle Type
Differential Lock
Parking Brake



Service Brakes
Steering Articulation
Frame Articulation
<b>Maximum Travel Speed</b>
Low
High

## HYDRAULIC SYSTEM

Hydraulic Reservoir Capacity
Auxiliary Hydraulic Flow
System Operating Pressure

\*Operating Capacity is 50% of full turn tipping load with bucket according to SAE J818



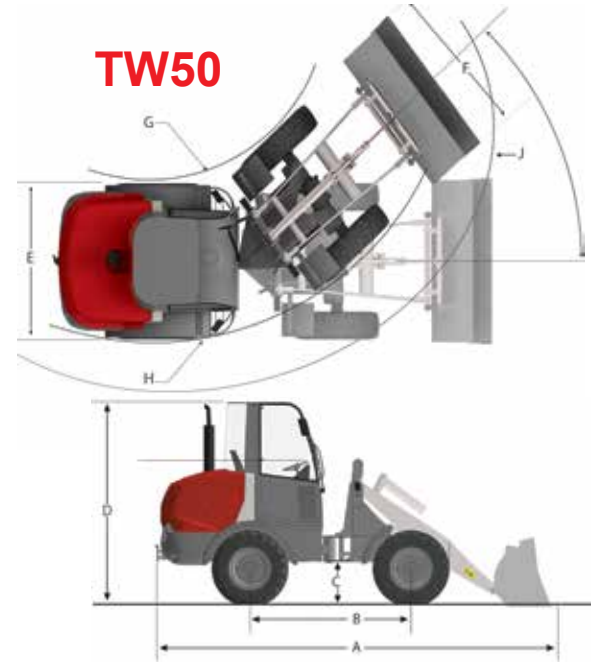
<b>TW50</b>		<b>TW65</b>		<b>TW80</b>	
Canopy		Cab		Cab	
8,708 lb (3,950 kg)		10,582 lb (4,800 kg)		12,677 lb (5,750 kg)	
6,790 lb (3,080 kg)		8,073 lb (3,800 kg)		9,420 lb (4,273 kg)	
5,975 lb (2,710 kg)		7,143 lb (3,240 kg)		8,294 lb (3,762 kg)	
2,987 lb (1,355 kg)		3,572 lb (1,620 kg)		4,147 lb (1,881 kg)	
8,992 lb (4,079 kg)		11,600 lb (5,262 kg)		15,287 lb (6,934 kg)	
7,644 lb (3,467 kg)		10,319 lb (4,680 kg)		13,567 lb (6,154 kg)	
8,543 lb (3,875 kg)		9,217 lb (4,180 kg)		11,802 lb (5,354 kg)	
5.0 Seconds		5.8 Seconds		6.0 Seconds	
4.0 Seconds		3.5 Seconds		3.8 Seconds	
1.5 Seconds		1.7 Seconds		1.2 Seconds	
Deutz / TD2009 Water Cooled		Deutz / TD2011 Turbo		Deutz /TD2011 Turbo	
Interim Tier 4		Interim Tier 4		Tier 3	
4/140 cu in (2.29 L)		4/221 cu in (3.62 L)		4/221 cu in (3.62 L)	
57 hp (42 Kw)		69 hp (51.3 Kw)		80 hp (59.5 Kw)	
53.6 hp (40 Kw)		67 hp (50 Kw)		76 hp (57.1 Kw)	
2200 rpm		2200 rpm		2600 rpm	
147.5 ft-lb @ 1500 rpm (200 Nm)		177 ft-lb @ 1600 rpm (240 Nm)		177 ft-lb @ 1600 rpm (240 Nm)	
10.6 qt (10 L)		11.6 qt (11 L)		11.6 qt (11 L)	
4.8 qt (4.5 L)					
16.2 gal (61.5 L)		26.4 qt (100 L)		26.4 gal (100 L)	
1.9 gal/hr (7.2 L/hr)		2.5 gal (9.5 L/hr)		2.9 gal/hr (11.0 L/hr)	
12 volts / 50 amps		12 volts / 80 amps		12 volts / 80 amps	
Hydrostatic Drive w/ 100% Hydraulic Inching Pedal		Hydrostatic Drive w/100% Hydraulic Inching Pedal		Hydrostatic Drive w/100% Hydraulic Inching Pedal	
Rigid Axles w/ Outboard Planetary Reduction		Rigid Axles w/Outboard Planetary Reduction		Rigid Axles w/Outboard Planetary Reduction	
100% Differential Lock in Front & Rear Axles		100% Differential Lock in Front & Rear Azles		100% Differential Lock in Front & Rear Axles	
Spring Applied, Hydraulically Released, Multiple Wet Friction Disc		Spring Applied, Hydraulically Released, Multiple Wet Friction Disc		Spring Applied, Hydraulically Released, Multiple Wet Friction Disc	
Hydrostatic & Multiple Wet Friction Disc		Hydrostatic & Multiple Wet Friction Disc		Hydrostatic & Multiple Wet Friction Disc	
40° Left / 40° Right		40° Left / 40° Right		40° Left / 40° Right	
12° Left 12° Right		12° Left / 12° Right		12° Left / 12° Right	
4 mph (6.5 km/hr)		4 mph (6.5 km/hr)		4 mph (6.5 km/hr)	
12.4 mph (20 km/hr)		12.4 mph (20 km/hr)		12.4 mph (20 km/hr)	
15.9 gal (60 L)		13.7 gal (52 L)		19.8 gal (75 L)	
14.5 gal/min (55 L/min)		15.8 gal/min (60 L/min)		18.5 gal/min (70 L/min)	
3,336 psi (23 mpa)		3,844 psi (26.5 mpa)		4,061 psi (28.0 mpa)	

# Dimensions

## Features

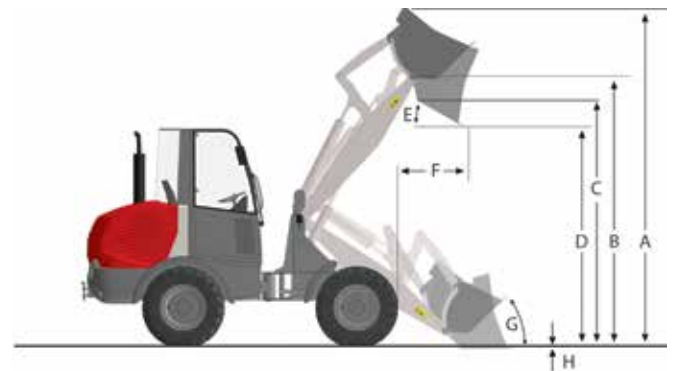
	TW50	TW65	TW80
<b>ENGINE</b>			
EPA Tier 3 Compliant			◆
EPA interim Tier 4 Compliant	◆	◆	
Water Cooled	◆		
Oil Cooled		◆	◆
Turbocharged		◆	◆
Dual Element Air Cleaner w/Restriction Indicator	◆	◆	◆
Heavy Duty Radiator	◆		
High Capacity Engine Oil Cooler		◆	◆
<b>ELECTRICAL</b>			
Electronic Engine Monitoring System w/Fuel Gauge, High Beam, Turn Signal and High Speed Indicators	◆	◆	◆
12 Volt System w/ 50 amp Alternator	◆		
12 Volt System w/ 80 amp Alternator		◆	◆
Work Lights, Front and Rear	◆	◆	◆
Directional Lights Fwd/Rev	◆	◆	◆
Engine Preheat	◆	◆	◆
Backup-Up Alarm	◆	◆	◆
<b>DRIVE TRAIN</b>			
Hydrostatic Drive w/ 100% Inching Pedal	◆	◆	◆
100% Locking Differentials, Front and Rear	◆	◆	◆
Outboard Planetary Drives	◆	◆	◆
Two-speed Travel	◆	◆	◆
Spring Applied Parking Brake	◆	◆	◆
Multi Wet Disc Brake	◆	◆	◆
Heavy Duty Construction Tire Assembly	○	○	○
Floatation Tire Assembly	○	○	○
<b>HYDRAULIC</b>			
High Capacity Hydraulic Oil Cooler	◆	◆	◆
Heavy Duty Hydraulic Quick Attach Coupler	◆	◆	◆
Precise and Responsive Pilot Controls		◆	◆
Auxiliary Hydraulic Lines Plumbed to the End of the Loader Arms	◆	◆	◆
Auxiliary Hydraulic Detent	◆	◆	◆
Hydraulic System Test Ports	◆	◆	◆
Hydraulic Oil Level Sight Gauge	◆	◆	◆
Remote Mounted Hydraulic Oil Cooler		◆	◆

◆ - Standard    ○ - Optional



### MACHINE DIMENSIONS

A. Overall Length with Bucket	16 ft 10.4 in (5,140 mm)
B. Wheelbase	6 ft 6 in (1,988 mm)
C. Ground Clearance	1 ft 5.3 in (440 mm)
D. Overall Height	8 ft 2 in (2,487 mm)
E. Overall Width without Bucket	5 ft 10 in (1,785 mm)
F. Recommended Bucket Width	71 in (1,803 mm)
G. Inside Turning Radius	6 ft 0 in (1,840 mm)
H. Outside Turning Radius	11 ft 10.6 in (3,622 mm)
J. Turning Radius Bucket Edge	13 ft 0 in (3,977 mm)

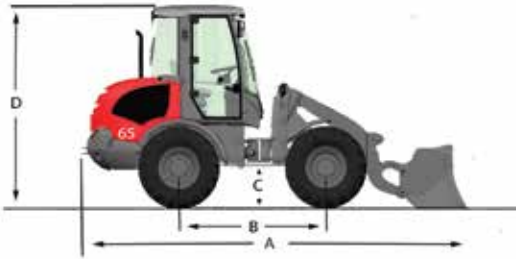
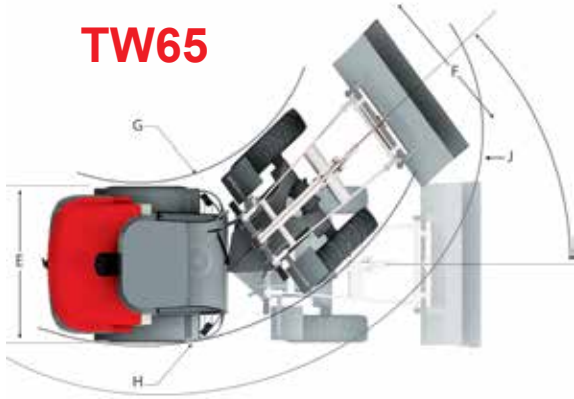


### WORKING DIMENSIONS

A. Overall Operating Height	13 ft 5.6 in (4,105 mm)
B. Maximum Lift Height to Bucket Pin	10 ft 8.7 in (3,270 mm)
C. Bucket Clearance Height	9 ft 7 in (2,920 mm)
D. Dump Height Fully Raised	8 ft 4 in (2,550 mm)
E. Maximum Dump Angle Fully Raised	45°
F. Reach Fully Raised	1 ft 4.8 in (427 mm)
G. Maximum Bucket Rollback at Ground	48°
H. Maximum Cut	3.46 in (88 mm)



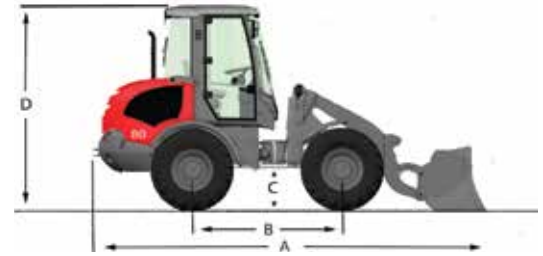
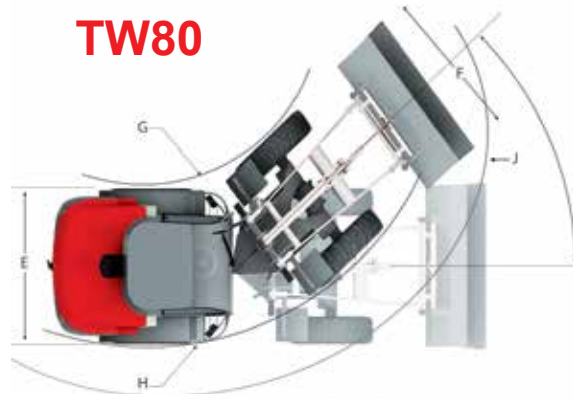
## TW65



### MACHINE DIMENSIONS

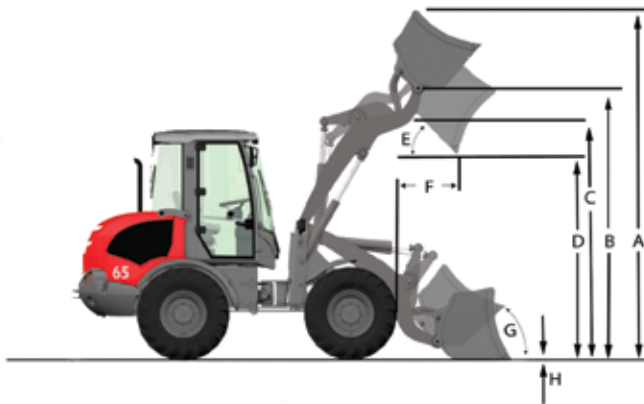
A. Overall Length with Bucket	17 ft 3 in (5,250 mm)
B. Wheelbase	6 ft 6.7 in (2,000 mm)
C. Ground Clearance	1 ft 5.7 in (450 mm)
D. Overall Height	8 ft 9 in (2,662 mm)
E. Overall Width without Bucket	6 ft 1.5 in (1,870 mm)
F. Recommended Bucket Width	71 in (1,803 mm)
G. Inside Turning Radius	5 ft 11 in (1,817 mm)
H. Outside Turning Radius	12 ft 2 in (3,715 mm)
J. Turning Radius Bucket Edge	13 ft 8 in (4,164 mm)

## TW80



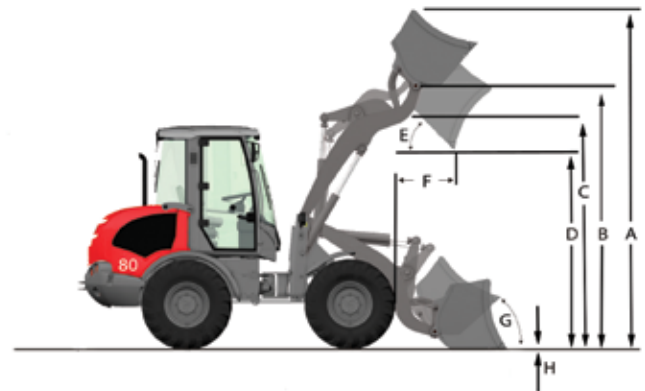
### MACHINE DIMENSIONS

A. Overall Length with Bucket	18 ft 3 in (5,580 mm)
B. Wheelbase	7 ft 2 in (2,180 mm)
C. Ground Clearance	1 ft 6 in (460 mm)
D. Overall Height	8 ft 10 in (2,685 mm)
E. Overall Width without Bucket	6 ft 9 in (2,050 mm)
F. Recommended Bucket Width	81.5 in (2,070 mm)
G. Inside Turning Radius	6 ft 3 in (1,898 mm)
H. Outside Turning Radius	13 ft 3 in (4,046 mm)
J. Turning Radius Bucket Edge	14 ft 8 in (4,478 mm)



### WORKING DIMENSIONS

A. Overall Operating Height	13 ft 0 in (3,960 mm)
B. Maximum Lift Height to Bucket Pin	10 ft 4.6 in (3,165 mm)
C. Bucket Clearance Height	9 ft 2 in (2,800 mm)
D. Dump Height Fully Raised	8 ft 1 in (2,465 mm)
E. Maximum Dump Angle Fully Raised	45°
F. Reach Fully Raised	2 ft 0 in (625 mm)
G. Maximum Bucket Rollback at Ground	48°
H. Maximum Cut	3.15 in (80 mm)



### WORKING DIMENSIONS

A. Overall Operating Height	13 ft 10 in (4,220 mm)
B. Maximum Lift Height to Bucket Pin	11 ft 1 in (3,380 mm)
C. Bucket Clearance Height	9 ft 11 in (3,025 mm)
D. Dump Height Fully Raised	8 ft 6 in (2,605 mm)
E. Maximum Dump Angle Fully Raised	45°
F. Reach Fully Raised	2 ft 5 in (740 mm)
G. Maximum Bucket Rollback at Ground	48°
H. Maximum Cut	3.15 in (80 mm)

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In accordance with our established policy of continued improvement. Specifications and features are subject to  
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FORM: Wheel Loader FB 2012

