TW80 SERIES 2 - Wheel Loader

TAKEUCHI

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OPERATING PERFORMANCE

Operating Weight	12,700 lbs (5,760 kg)
Standard Machine with Bucket, Cab	
Tipping Load, Straight	10,065 lbs (4,565 kg)
Tipping Load, Full Turn	8,890 lbs (4,033 kg)
Rated Operating Capacity, SAE J818*	4,445 lbs (2,016 kg)
Bucket Breakout Force	13,691 lbs (6,210 kg)
Lift Arm Breakout Force	12,147 lbs (5,510 kg)
Traction Force	11,574 lbs (5,250 kg)
Cycle Time	
Raise Full Load	6.0 Seconds
Lower No Load	3.8 Seconds
Dump Full Load	1.2 Seconds

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

ENGINE

Make/Model	Deutz / TD2.9L Turbo
Tier Rating	EPA Final Tier 4
Cylinders/Displacement	4 / 176 cu in (2.9 L)
Horsepower	73 hp (54 Kw)
Rated Engine Speed	2,200 rpm
Maximum Torque	192 ft-lb @ 1,800 rpm (260 Nm)
Engine Lubrication	11.6 qt (11.0 L)
Fuel Tank Capacity	26.4 gal (100.0 L)
Fuel Consumption (65% of Full Load)	2.6 gal / hr (10.0 L / hr)
Electrical System	12 volts / 95 amps

POWER TRAIN

Transmission Type	Hydrostatic Drive with 100% Hydraulic Inching Pedal
Axle Type	Rigid Axles with Outboard Planetary Reduction
Differential Lock	100% Differential Lock in Front and Rear Axles
Parking Brake	Spring Applied, Hydraulically Released, Multiple Wet Friction Disc
Service Brakes	Hydrostatic and Multi Wet Friction Disc
Steering Articulation	40° Left / 40° Right
Frame Articulation	12° Left / 12° Right
Maximum Travel Speed	
Low Range	4.0 mph (6.5 km / hr)
High Range	12.4 mph (20 km / hr)
Optional High Speed Travel	24.8 mph (40 km / hr)

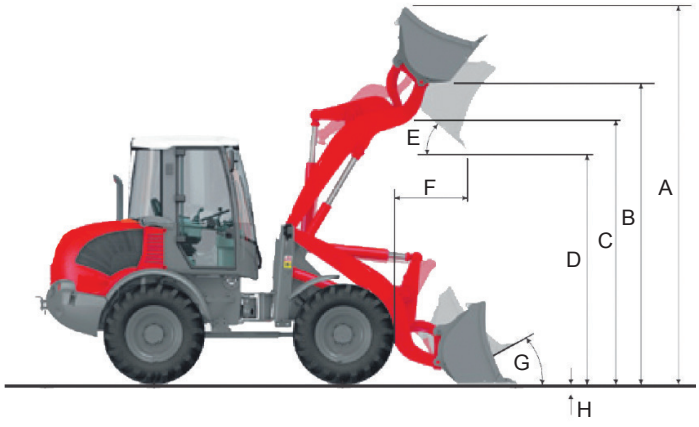
HYDRAULIC

Hydraulic Reservoir Capacity	14.0 gal (53.0 L)
Auxiliary Hydraulic Flow	16.4 gal / min (62.0 L / min)
Optional Auxiliary Flow	26.0 gal / min (98.0 L / min)
System Operating Pressure	3,335 psi (23.0 MPa)



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)



Product Features

ENGINE
- ♦ EPA Final Tier 4 Compliant with DOC
- ♦ Turbocharged
- ♦ Water Cooled
- ♦ Dual Element Air Filter with Restriction Indicator
- ♦ High Capacity Radiator

ELECTRICAL
- ♦ Electronic Engine Monitoring System Includes Fuel Gauge, High Beam Indicator, Turn Signal Indicators, High Speed Indicator
- ♦ 12 volt System with 95 amp Alternator
- ♦ Work Lights, Front and Rear
- ♦ Driving Lights and Turn Signals
- ♦ Directional Lights Fwd / Rev
- ♦ Engine Preheat
- ♦ Back-Up Alarm

POWER TRAIN
- ♦ Hydrostatic Drive with 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
- ❍ High Speed Road Gear with Ride Control (24.8 mph)

HYDRAULIC
- ♦ Precise and Responsive Pilot Controls
- ♦ Proportional Slide Switch Located in Loader Joystick for Auxiliary Hydraulic Circuit
- ♦ Auxiliary Hydraulic Lines Plumbed to the End of the Loader Arms
- ♦ Auxiliary Hydraulic Detent
- ♦ Hydraulic Oil Level Sight Gauge
- ♦ High capacity Hydraulic Oil Cooler
- ❍ High Flow Auxiliary Hydraulics (26.0 gpm)

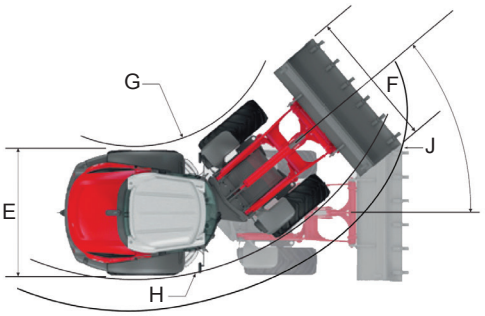
WORKING EQUIPMENT
- ♦ Z-Bar Linkage
- ♦ Bucket Float Function
- ♦ Mechanical Bucket Positioning
- ♦ Heavy Duty Hydraulic Bucket Quick Coupler
- ♦ Heavy Duty Self Aligning Loader Bushings with Oversize Pins
- ❍ 81.5” GP Combo Bucket (1.30 yd³)
- ❍ 82” Bolt-on Blade
- ❍ Combo Hitch to Universal SSL Adaptor
- ❍ HD 48” Pallet Forks and Frame
- ❍ Flat Face Hydraulic Coupler Kit

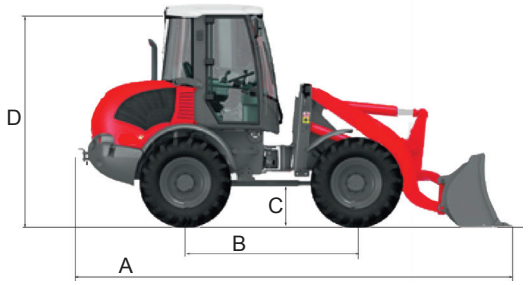
♦ - Standard ❍ - Optional

OPERATOR’S STATION
- ♦ Enclosed Operator’s Cab Equipped with Air Conditioner, Heat, Front and Rear Wiper, Front and Rear Washer and Rear Window Defrost
- ♦ ROPS / FOPS Protection
- ♦ 2” Retractable Seat Belt
- ♦ Deluxe Air Suspension Seat with Arm Rests
- ♦ Large Steps and Grab Handles
- ♦ Elevated Operator’s Station
- ♦ Multi-Function Joystick for Machine Direction Fwd / Rev, Thumb Wheel for Auxiliary Hydrualics and Loader Controls
- ❍ 3” Retractable Seat Belt

MACHINE DIMENSIONS

A. Overall Length with Bucket	18 ft 3 in (5,580 mm)
B. Wheelbase	7 ft 2.6 in (2,200 mm)
C. Ground Clearance	1 ft 6.5 in (470 mm)
D. Overall Height	8 ft 11.5 in (2,730 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 (4478 mm)





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