

# TW80 Series 2

## Competitive Details

	Takeuchi TW80 SERIES 2	Case 221F	Case 321E	Caterpillar 906M	Caterpillar 907M	John Deere 304K	Kawasaki 45ZV-2	Volvo L35G
<b>PERFORMANCE</b>								
Loader Boom Design	Z Bar	Z Bar	Z Bar	Z Bar	Z Bar	Z Bar	Z Bar	Z Bar
Operating Weight	12,700 lb (5,760 kg)	12,547 lb (5,691 kg)	13,303 lb (6,034 kg)	12,331 lb (5,595 kg)	12,745 lb (5,783 kg)	12,778 lb (5,796 kg)	12,220 lb (5,542 kg)	13,779 lb (6,250 kg)
Tipping Load, Straight	10,065 lb (4,565 kg)	9,318 lb (4,226 kg)	9,740 lb (4,418 kg)	8,666 lb (3,932 kg)	9,007 lb (4,087 kg)	9,171 lb (4,000 kg)	8,470 lb (3,840 kg)	10,913 lb (4,950 kg)
Tipping Load, Full Turn	8,890 lb (4,033 kg)	8,014 lb (3,635 kg)	8,192 lb (3,716 kg)	7,061 lb (3,204 kg)	7,339 lb (3,330 kg)	8,091 lb (3,670 kg)	7,170 lb (3,250 kg)	9,590 lb (4,350 kg)
Operating Capacity*	4,445 lb (2,016 kg)	4,007 lb (1,818 kg)	4,096 lb (1,858 kg)	3,483 lb (1,579 kg)	3,494 lb (1,584 kg)	4,046 lb (1,835 kg)	3,585 lb (1,626 kg)	4,795 lb (2,174 kg)
Bucket Breakout Force	13,960 lb (6,333 kg)	10,959 lb (4,971 kg)	10,076 lb (4,570 kg)	9,442 lb (4,282 kg)	9,442 lb (4,282 kg)	9,190 lb (4,169 kg)	8,280 lb (3,755 kg)	13,601 lb (6,169 kg)
Lift Arm Breakout Force	12,387 lb (5,618 kg)	NP	13,163 lb (5,970 kg)	7,194 lb (3,263 kg)	7,194 lb (3,263 kg)	NP	NP	13,862 lb (6,287 kg)
Traction Force	11,802 lb (5,354 kg)	NP	NP	NP	NP	NP	NP	NP
*Operating capacity is 50% of full turn tipping load with bucket according to SAE J818								
<b>ENGINE</b>								
Make / Model	Deutz / TD2.9L Turbo	FPTF5HFL463AF004	FPTF5HFL463AF001	Kubota / C3.3B	Kubota / C3.3B	Yanmar / 4TNV98	Kubota / V3307-DITI	Deutz / D3.3D
Tier Rating	EPA Final Tier 4	EPA Final Tier 4	EPA Final Tier 4	EPA Final Tier 4	EPA Final Tier 4	EPA Interim Tier 4	EPA Interim Tier 4	EPA Final Tier 4
Horsepower	73.0 hp (54 kW)	74.0 hp (55 kW)	74.0 hp (55 kW)	74.0 hp (55 kW)	74.0 hp (55 kW)	67.0 hp (50 kW)	63.0 hp (47 kW)	74.8 hp (55.4 kW)
Rated Engine Speed	2,200 rpm	2,500 rpm	2,500 rpm	2,400 rpm	2,400 rpm	2,400 rpm	2,200 rpm	2,600 rpm
Maximum Torque	192.0 ft-lb (260 Nm)	233.0 ft-lb (315 Nm)	233.0 ft-lb (315 Nm)	192 ft-lb (260 Nm)	192 ft-lb (260 Nm)	176.0 ft-lb (238 Nm)	NP	195.5 ft-lb (264 Nm)
<b>DRIVETRAIN</b>								
Differential Lock	100%	45% Front Only	45% Front Only	100%	100%	45% Limited Slip	45% Limited Slip	100%
Steering Articulation	40 deg	40 deg	NP	39 deg	39 deg	40 deg	41 deg	40 deg
Frame or Axle Oscillation	12 deg	20 deg	NP	NP	NP	10 deg	11 deg	10 deg
Travel Speed Low Range	4.0 mph (6.5 km/hr)	3.0 mph (4.8 km/hr)	3.3 mph (5.3 km/hr)	6.0 mph (10 km/hr)	6.0 mph (10 km/hr)	3.7 mph (6 km/hr)	7.4 mph (12 km/hr)	5.0 mph (18 km/hr)
Travel Speed High Range	12.4 mph (20 km/hr)	8.1 mph (13 km/hr)	8.9 mph (14.4 km/hr)	12.0 mph (20 km/hr)	12.0 mph (20 km/hr)	12.0 mph (20 km/hr)	21.1 mph (34 km/hr)	18.6 mph (30 km/hr)
Optional High Speed Travel	24.8 mph (40 km/hr)	18.6 mph (30 km/hr)	20.6 mph (33.1 km/hr)	22.0 mph (35 km/hr)	22.0 mph (35 km/hr)	NP	NP	NP
<b>HYDRAULIC SYSTEM</b>								
Hydraulic Reservoir Capacity	14.0 gal (53.0 L)	10.6 gal (40 L)	10.6 gal (40 L)	12.2 gal (45.5 L)	12.2 gal (45.5 L)	23.8 gal (90 L)	NP	17.2 gal (65 L)
Auxiliary Flow - Standard	16.4 gpm (62.0 L/m)	22.5 gpm (85 L/m)	22.5 gpm (85 L/m)	19.0 gpm (73 L/m)	19.0 gpm (73 L/m)	20.0 gpm (77 L/m)	19.3 gpm (73 L/m)	18.2 gpm (69 L/m)
Auxiliary Flow - Optional	26.0 gpm (98.0 L/m)	34.3 gpm (130 L/m)	34.3 gpm (130 L/m)	31.0 gpm (116 L/m)	31.0 gpm (116 L/m)	NP	NP	NP
Hydraulic System Pressure	3,335 psi (23.0 MPa)	3,626 psi (25 MPa)	3,626 psi (25 MPa)	3,408 psi (23.5 MPa)	3,408 psi (23.5 MPa)	3,335 psi (22.9 MPa)	3,000 psi (20.6 MPa)	3,626 psi (25 MPa)
<b>DIMENSIONS</b>								
Wheelbase	7' 2.6" (2,200 mm)	7' 3.6" (2,225 mm)	7' 3" (2,225 mm)	7' 1" (2,159 mm)	7' 1" (2,170 mm)	7' 1" (2,159 mm)	7' 2" (2,184 mm)	7' 1" (2,150 mm)
Outside Turning Radius	13' 3" (4,046 mm)	13' 0" (3,987 mm)	13' 1" (3,987 mm)	14' 6" (4,420 mm)	14' 8" (4,489 mm)	NP	12' 5" (3,784 mm)	13' 0" (3,962 mm)
Maximum Lift Height to Bucket Pin	11' 1" (3,380 mm)	10' 9.6" (3,290 mm)	11' 1.7" (3,395 mm)	10' 7" (3,227 mm)	10' 7" (3,227 mm)	11' 1" (3,378 mm)	10' 4" (3,149 mm)	11' 0" (3,345 mm)
Dump Height Fully Raised	8' 6" (2,605 mm)	7' 11.5" (2,425 mm)	8' 2" (2,493 mm)	8' 1" (2,478 mm)	8' 1" (2,478 mm)	8' 7" (2,616 mm)	7' 8" (2,336 mm)	8' 9" (2,670 mm)
Reach Fully Raised	2' 5" (740 mm)	3' 4.2" (1,020 mm)	3' 3" (1,020 mm)	2' 4" (714 mm)	2' 4" (725 mm)	3' 1" (930 mm)	3' 4" (482 mm)	2' 5" (740 mm)
Overall Width Without Bucket	6' 9" (2,050 mm)	6' 1" (1,860 mm)	6' 1" (1,860 mm)	6' 0" (1,828 mm)	6' 0" (1,840 mm)	NP	6' 3.5" (1,920 mm)	6' 4" (1,932 mm)
Overall Height	8' 11.5" (2,730 mm)	8' 7.4" (2,627 mm)	8' 9.5" (2,680 mm)	8' 1" (2,463 mm)	8' 5" (2,586 mm)	8' 0" (2,438 mm)	9' 4" (2,844 mm)	9' 0" (2,745 mm)
Minimum Ground Clearance	18.5" (470 mm)	12.5" (317 mm)	14.6" (370 mm)	11.0" (279 mm)	11.0" (300 mm)	13.0" (330 mm)	13.0" (330 mm)	24.0" (610 mm)