

TW80 Series 3

Product Comparison

	Takeuchi TW80 SERIES 3	Case 221F	Case 321F	Caterpillar 906M	Caterpillar 907M	John Deere 304L	Kawasaki 45ZV-2	Volvo L35G
PERFORMANCE								
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)	12,496 lb (5,668 kg)	12,913 lb (5,857 kg)	12,778 lb (5,796 kg)	11,860 lb (5,380 kg)	13,448 lb (6,100 kg)
Tipping Load, Straight	9,742 lb (4,419 kg)	9,318 lb (4,227 kg)	9,740 lb (4,418 kg)	8,666 lb (3,931 kg)	9,007 lb (4,086 kg)	9,171 lb (4,000 kg)	8,150 lb (3,697 kg)	10,913 lb (4,950 kg)
Tipping Load, Full Turn	8,602 lb (3,902 kg)	8,014 lb (3,635 kg)	8,192 lb (3,716 kg)	7,061 lb (3,203 kg)	7,339 lb (3,329 kg)	8,091 lb (3,670 kg)	6,880 lb (3,121 kg)	9,590 lb (4,350 kg)
Operating Capacity*	4,301 lb (1,951 kg)	4,007 lb (1,818 kg)	4,096 lb (1,858 kg)	3,531 lb (1,602 kg)	3,607 lb (1,665 kg)	4,046 lb (1,835 kg)	3,440 lb (1,560 kg)	4,795 lb (2,175 kg)
Bucket Breakout Force	13,960 lb (6,333 kg)	10,959 lb (4,971 kg)	10,076 lb (4,570 kg)	NP	NP	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	13,164 lb (5,971 kg)	NP	NP	NP	NP	13,826 lb (6,271 kg)
Traction Force	12,049 lb (5,466 kg)	NP	NP	NP	NP	NP	NP	NP
*Operating capacity is 50% of full turn tipping load with bucket according to SAE J818								
ENGINE								
Make / Model	Deutz / TD2.9L Turbo	FPTF5HFL463AF004	FPTF5HFL463AF001	Cat C3.3B DIT	Cat C3.3B DIT	Yanmar / 4TNV98	Kubota / V3307-DITI	Volvo / D3.3M
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)	61.0 hp (45.5 kW)	74 hp (55.2 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)	227.0 ft-lb (308 Nm)	227.0 ft-lb (308 Nm)	192 ft-lb (260 Nm)	192 ft-lb (260 Nm)	176.0 ft-lb (238 Nm)	NP	195.5 ft-lb (264 Nm)
DRIVETRAIN								
Differential Lock	100%	Limited Slip or 100%	Limited Slip or 100%	100%	100%	45% Limited Slip	Limited Slip	100%
Steering Articulation	40 deg	40 deg	40 deg	39 deg	39 deg	40 deg	16 deg	40 deg
Frame or Axle Oscillation	12 deg	20 deg	20 deg	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 (9.7 km/hr)	6.0 mph (9.7 km/hr)	3.7 mph (6 km/hr)	7.4 mph (12 km/hr)	5.0 mph (8 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 (19 km/hr)	12.0 mph (19 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
HYDRAULIC SYSTEM								
Hydraulic Reservoir Capacity	22.2 gal (84 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)	13.2 gal (50 L)	14.3 gal (54 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 (72 L/m)	19.0 gpm (72 L/m)	20.0 gpm (77 L/m)	21.0 gpm (79.5 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 (117 L/m)	31.0 gpm (117 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)	2,990 psi (20.6 MPa)	3,481 psi (24 MPa)
DIMENSIONS								
Wheelbase	7' 2.6" (2,200 mm)	7' 3.6" (2,225 mm)	7' 3.6" (2,225 mm)	7' 1" (2,159 mm)	7' 1" (2,159 mm)	7' 1" (2,159 mm)	7' 2.5" (2,197 mm)	7' 1" (2,159 mm)
Outside Turning Radius	13' 3" (4,046 mm)	13' 1" (3,988 mm)	13' 0" (3,988 mm)	14' 6" (4,420 mm)	14' 8" (4,470 mm)	NP	14' 10.8" (4,540 mm)	12' 10" (3,912 mm)
Maximum Lift Height to Bucket Pin	11' 1" (3,380 mm)	10' 9.5" (3,289 mm)	11' 1.7" (3,396 mm)	10' 7" (3,226 mm)	10' 7" (3,226 mm)	11' 1" (3,378 mm)	10' 4" (3,156 mm)	10' 8" (3,251 mm)
Dump Height Fully Raised	8' 6" (2,605 mm)	7' 11.5" (2,426 mm)	8' 2.1" (2,492 mm)	8' 1" (2,464 mm)	8' 1" (2,464 mm)	8' 7" (2,616 mm)	7' 10" (2,388 mm)	8' 6" (2,591 mm)
Reach Fully Raised	2' 5" (740 mm)	3' 4.2" (1,020 mm)	3' 3.5" (1,003 mm)	2' 4" (711 mm)	2' 4" (711 mm)	3' 1" (930 mm)	3' 3" (991 mm)	2' 3" (686 mm)
Overall Width Without Bucket	6' 9" (2,050 mm)	6' 1.2" (1,859 mm)	6' 1.2" (1,859 mm)	6' 0" (1,829 mm)	6' 0" (1,829 mm)	NP	6' 3.5" (1,918 mm)	6' 0" (1,835 mm)
Overall Height	8' 11.5" (2,730 mm)	8' 7.4" (2,626 mm)	8' 9.5" (2,680 mm)	8' 1" (2,464 mm)	8' 5" (2,565 mm)	8' 0" (2,438 mm)	9' 4" (2,851 mm)	9' 0" (2,743 mm)
Minimum Ground Clearance	18.5" (470 mm)	12.5" (317 mm)	14.6" (370 mm)	11.0" (279 mm)	11.0" (279 mm)	13.0" (330 mm)	13.5" (343 mm)	24.0" (610 mm)