

TB290 Hydraulic Excavator
COMPETITIVE DETAILS

	Takeuchi TB290	Bobcat E85	Case CX80C	Caterpillar 308E2 CR SB	John Deere 85G	Komatsu PC88MR-10	Kubota KX080-4	Volvo ECR88D	Yanmar ViO80-1
PERFORMANCE									
Tail Swing Design	Conventional	Minimal	Conventional	Minimal	Conventional	Minimal	Conventional	Zero	Zero
Operating Weight	18,630 lb (8,450 kg)	18,960 lb (8,600 kg)	18,915 lb (8,580 kg)	18,519 lb (8,500 kg)	19,564 lb (8,874 kg)	18,739 lb (8,500 kg)	18,280 lb (8,290 kg)	19,600 lb (8,890 kg)	18,136 lb (8,226 kg)
Max Digging Depth	15' 0" (4,572 mm)	15' 6" (4,724 mm)	15' 1" (4,598 mm)	15' 5" (4,699 mm)	14' 10" (4,521 mm)	15' 0" (4,565 mm)	15' 1" (4,660 mm)	14' 10" (4,530 mm)	15' 4" (4,674 mm)
Max Dump Height	17' 3" (5,258 mm)	16' 5" (5,003 mm)	15' 1" (4,598 mm)	16' 5" (5,003 mm)	16' 8" (5,080 mm)	15' 8" (4,770 mm)	17' 3" (5,250 mm)	17' 2" (5,220 mm)	15' 2" (4,623 mm)
Max Reach	24' 5" (7,435 mm)	23' 11" (7,289 mm)	23' 10" (7,270 mm)	24' 1" (7,341 mm)	25' 3" (7,700 mm)	23' 5" (7,135 mm)	24' 0" (7,315 mm)	24' 1" (7,350 mm)	23' 5" (7,137 mm)
Max Bucket Digging Force	16,565 lb (7,514 kg)	14,509 lb (6,581 kg)	12,792 lb (5,802 kg)	13,534 lb (6,139 kg)	10,476 lb (4,752 kg)	13,780 lb (6,250 kg)	14,660 lb (6,650 kg)	12,770 lb (5,680 kg)	14,275 lb (6,475 kg)
Max Arm Digging Force	8,161 lb (3,702 kg)	8,069 lb (3,660 kg)	7,644 lb (3,467 kg)	7,891 lb (3,579 kg)	6,902 lb (3,130 kg)	8,160 lb (3,700 kg)	8,554 lb (3,880 kg)	7,730 lb (3,506 kg)	8,363 lb (3,793 kg)
Traction Force	19,780 lb (8,972 kg)	NP	13,300 lb (6,032 kg)	14,500 lb (6,577 kg)	14,661 lb (6,650 kg)	15,040 lb (6,822 kg)	14,615 lb (6,629 kg)	14,610 lb (6,626 kg)	NP

ENGINE									
Make / Model	Yanmar / 4TNV98CT	NP	Isuzu / AP-4LE2X	Cat / C3.3B	Yanmar / 4TNV98C	Kom / SAA4D95LE	Kubota / V3307 DI	Volvo / D2.6H	Yanmar / 4TNV98
Tier Rating	EPA Final Tier 4	EPA Final Tier 4	EPA Final Tier 4	EPA Final Tier 4	EPA Final Tier 4	EPA Final Tier 4	EPA Final Tier 4	EPA Final Tier 4	EPA Interim Tier 4
Horsepower	69.2 hp (51.6 kW)	59.4 hp (44.3 kW)	55.2 hp (41.2 kW)	66.6 hp (49.7 kW)	56.9 hp (42.4 kW)	67.9 hp (50.7 kW)	66.6 hp (49.7 kW)	58.0 hp (43.3 kW)	54.6 hp (40.7 kW)
Rated Engine Speed	2,000 rpm	2,100 rpm	2,000 rpm	2,400 rpm	2,000 rpm	1,950 rpm	2,000 rpm	2,000 rpm	2,000 rpm
Max Torque	227.2 ft-lb (308 Nm)	NP	147.0 ft-lb (199.3 Nm)	NP	NP	NP	NP	162.0 ft-lb (219.6 Nm)	NP

UNDERCARRIAGE									
Track Width	17.7" (450 mm)	17.7" (450 mm)	17.7" (450 mm)	17.7" (450 mm)	17.7" (450 mm)	17.7" (450 mm)	17.7" (450 mm)	17.7" (450 mm)	17.7" (450 mm)
Ground Pressure	5.5 psi (37.8 kPa)	5.5 psi (38.1 kPa)	5.5 psi (38.1 kPa)	5.3 psi (36.3 kPa)	5.6 psi (39.0 kPa)	5.4 psi (37.3 kPa)	5.2 psi (35.8 kPa)	5.8 psi (40.0 kPa)	5.2 psi (35.8 kPa)
Travel Speed Low Range	1.6 mph (2.6 km/h)	1.7 mph (2.7 km/h)	2.1 mph (3.3 km/h)	1.7 mph (2.8 km/h)	1.9 mph (3.1 km/h)	1.9 mph (3.0 km/h)	1.7 mph (2.7 km/h)	1.6 mph (2.6 km/h)	1.6 mph (2.5 km/h)
Travel Speed High Range	3.1 mph (5.0 km/h)	2.9 mph (4.7 km/h)	3.2 mph (5.1 km/h)	3.2 mph (5.1 km/h)	3.1 mph (6 km/h)	3.1 mph (5.0 km/h)	3.1 mph (5.0 km/h)	3.0 mph (4.8 km/h)	2.8 mph (4.5 km/h)

HYDRAULIC SYSTEM									
Total Hydraulic Flow	62.5 gpm (236.6 L/m)	NP	43.8 gpm (165.8 L/m)	39.6 gpm (170.0 L/m)	53.0 gpm (200 L/m)	60.7 gpm (229.8 L/m)	55.6 gpm (210 L/m)	49.0 gpm (185 L/m)	56.3 gpm (213 L/m)
Auxiliary Hydraulic Flow	26.4 / 14.5 gpm (100.0 L/m / 55.0 L/m)	25.1 gpm (95.0 L/m)	NP	33.8 / 16.9 gpm (128 L/m / 70.0 L/m)	NP	NP	26.4 / 17.6 gpm (100 L/m / 66.6 L/m)	24.0 / 9.0 gpm (90 L/m / 34 L/m)	31.7 gpm (120.0 L/m)
Hydraulic System Pressure	3,990 psi (27.5 MPa)	3,045 psi (26.9 MPa)	4,264 psi (29.4 MPa)	4,061 psi (27.9 MPa)	3,771 psi (26.0 MPa)	3,844 psi (26.5 MPa)	NP	4,270 psi (29.4 MPa)	3,481 psi (24.0 MPa)
Hydraulic Reservoir Capacity	19.3 gal (73.0 L)	NP	NP	21.7 gal (82.0 L)	15.0 gal (56.0 L)	14.8 gal (56.0 L)	19.8 gal (75.0 L)	22.0 gal (84.0 L)	NP

DIMENSIONS									
Width	7' 7" (2,300 mm)	7' 7" (2,311 mm)	7' 7" (2,311 mm)	7' 7" (2,311 mm)	7' 7" (2,311 mm)	7' 8" (2,330 mm)	7' 3" (2,200 mm)	7' 7" (2,311 mm)	7' 5" (2,261 mm)
Height	8' 5" (2,565 mm)	8' 8" (2,641 mm)	8' 10" (2,692 mm)	8' 4" (2,550 mm)	8' 7" (2,616 mm)	9' 11" (2,760 mm)	8' 4" (2,540 mm)	8' 11" (2,692 mm)	8' 10" (2,692 mm)
Length (Transport)	21' 10" (6,660 mm)	20' 6" (6,248 mm)	22' 1" (6,731 mm)	20' 10" (6,340 mm)	22' 5" (6,820 mm)	20' 10" (6,480 mm)	21' 2" (6,452 mm)	22' 1" (6,731 mm)	21' 2" (6,452 mm)
Ground Clearance	15.0" (385 mm)	NP	14.0" (355 mm)	NP	14.0" (360 mm)	16.0" (406 mm)	15.4" (391 mm)	16.0" (406 mm)	15.0" (381 mm)
Boom Swing (Degrees L / R)	70 / 60	70 / 55	NP	60 / 50	60 / 60	53 / 67	70 / 60	60 / 70	57 / 60
Min Front Swing Radius	8' 2" (2,495 mm)	8' 7" (2,616 mm)	NP	9' 2" (2,794 mm)	9' 6" (2,890 mm)	9' 6" (2,900 mm)	8' 2" (2,489 mm)	8' 8" (2,642 mm)	8' 11" (2,718 mm)
Tail Swing Radius	5' 5" (1,650 mm)	4' 3" (1,295 mm)	5' 6" (1,651 mm)	4' 9" (1,448 mm)	4' 11" (1,490 mm)	4' 10" (1,485 mm)	4' 10" (1,485 mm)	4' 3" (1,295 mm)	3' 9" (1,143 mm)