

TB280FR Hydraulic Excavator
COMPETITIVE DETAILS

	Takeuchi TB280FR	Bobcat E85	Caterpillar 308E2 CR SB	John Deere 85G	Komatsu PC88MR-10	Kubota KX080-4	Volvo ECR88D	Yanmar Vi080-1
PERFORMANCE								
Tail Swing Design	Full Rotation	Minimal	Minimal	Conventional	Minimal	Conventional	Zero	Zero
Operating Weight	18,810 lb (8,530 kg)	18,960 lb (8600 kg)	18,519 lb (8,500 kg)	19,564 lb (8,874 kg)	18,739 lb (8,500 kg)	18,280 lb (8,590 kg)	19,600 lb (8,890 kg)	18,136 lb (8,226 kg)
Maximum Digging Depth	14' 11" (4,547 mm)	15' 6" (4,724 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)	14' 5" (4,394 mm)
Maximum Dump Height	14' 8.4" (4,480 mm)	16' 5" (5,003 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" (4,622 mm)
Maximum Reach (Ground Level)	23' 1" (7,045 mm)	23' 11" (7,289 mm)	24' 1" (7,341 mm)	25' 3" (7,700 mm)	23'4" (7,135 mm)	24' 0" (7,315 mm)	24' 1" (7,350 mm)	23' 5" (7,137 mm)
Maximum Bucket Digging Force	16,335 lb (7,409 kg)	14,509 lb (6,581 kg)	13,534 lb (6,139 kg)	10,476 lb (4,757 kg)	13,780 lb (6,250 kg)	14,660 lb (6,650 kg)	12,770 lb (5,680 kg)	12,583 lb (5,707 kg)
Maximum Arm Digging Force	7,037 lb (3,192 kg)	8,069 lb (3,660 kg)	7,891 lb (3,579 kg)	6,902 lb (3,310 kg)	8,160 lb (3,700 kg)	8,554 lb (3,880 mm)	7,730 lb (3,506 kg)	8,363 lb (3,793 kg)
Traction Force	19,783 lb (8,973 kg)	NP	14,500 lb (6,577 kg)	14,661 lb (6,650 kg)	15,040 lb (6,822 kg)	14,615 lb (6,629 mm)	14,610 lb (6,626 kg)	NP
ENGINE								
Make / Model	Yanmar / 4TNV98CT	NP	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 Interim Tier 4
Horsepower	69.2 hp (51.6 kW)	59.4 hp (44.3 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 (43.2 kW)	54.6 hp (40.7 kW)
Rated Engine Speed	2,000 rpm	2,100 rpm	2,400 rpm	2,000 rpm	1,950 rpm	2,000 rpm	2,000 rpm	2,000 rpm
Maximum Torque	227.2 ft-lb (308 Nm)	NP	NP	NP	NP	NP	162.0 ft-lb (220 Nm)	NP
UNDERCARRIAGE								
Track Width	17.7" (450 mm)	17.7" (450 mm)	18.0" (457 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 (38.1 kPa)	5.5 psi (38.1 kPa)	5.3 psi (36.3 kPa)	5.6 psi (39 kPa)	5.4 psi (37.3 kPa)	5.2 psi (35.8 kPa)	5.8 psi (39.7 kPa)	5.2 psi (35.8 kPa)
Travel Speed Low Range	1.7 mph (2.7 km/h)	1.7 mph (2.7 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 (2.6 km/h)
Travel Speed High Range	3.2 mph (5.2 km/h)	2.9 mph (4.7 km/h)	3.17 mph (5.1 km/h)	3.1 mph (5.0 km/h)	3.1 mph (5.0 km/h)	3.1 mph (4.9 km/h)	3.0 mph (4.9 km/h)	2.8 mph (4.5 km/h)
HYDRAULIC SYSTEM								
Total Hydraulic Flow	52.5 gpm (198.0 L/m)	NP	39.6 gpm (150 L/m)	53.0 gpm (200 L/m)	60.7 gpm (229.8 L/m)	55.6 gpm (210 L/m)	49.0 gpm	56.3 gpm (213 L/m)
Auxiliary Hydraulic Flow	39.0 / 15.0 gpm (148.0 / 58.0 L/m)	25.1 gpm (95.0 L/m)	33.8 / 16.9 gpm (128 / 64 L/m)	NP	NP	26.4 / 17.6 gpm (100 / 66.6 L/m)	24.0 / 9.0 gpm (90 / 34 L/m)	31.7 gpm (119 L/m)
Hydraulic System Pressure	3,990 psi (27.5 MPa)	3,045 psi (26.9 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 MPa)
Hydraulic Reservoir Capacity	18.7 gal (71.0 L)	NP	21.7 gal (82 L)	15.0 gal (56.0 L)	14.8 gal (56.0 L)	19.8 gal (75 L)	22.0 gal (84 L)	NP
DIMENSIONS								
Width	7' 7" (2,300 mm)	7' 7" (2,311 mm)	7' 7" (2,311 mm)	7' 7" (2,320 mm)	7' 8" (2,330 mm)	7' 3" (2,200 mm)	7' 7" (2,300 mm)	7' 5" (2,260 mm)
Height	8'11.4" (2,725 mm)	8' 8" (2,641 mm)	8' 4" (2,550 mm)	8' 7" (2,530 mm)	9' 11" (2,760 mm)	8' 4" (2,540 mm)	8' 11" (2,715 mm)	8' 10" (2,692 mm)
Length (Transport)	20'7.4" (6,285 mm)	20' 6" (6,248 mm)	20' 10" (6,340 mm)	22' 5" (6,820 mm)	21' 1" (6,430 mm)	21' 2" (6,450 mm)	21' 1" (6,420 mm)	21' 2" (6,451 mm)
Ground Clearance	13.7" (315 mm)	NP	NP	14.0" (360 mm)	NP	15.4" (390 mm)	16.0" (405 mm)	15.0" (381 mm)
Dozer Blade Height	19.6" (500 mm)	NP	17.0" (420 mm)	18.0" (460 mm)	NP	19.7" (500mm)	19.0" (470 mm)	18.0" (457 mm)
Boom Swing Angle (Degrees L / R)	30 / 15	70 / 55	60 / 50	60 / 60	53 / 67	70 / 60	60 / 70	57 / 60
Min Front Swing Radius	5'3.5" (1,610 mm)	8' 7" (2,616 mm)	9' 2" (2,794 mm)	9' 6" (2,890 mm)	9' 6" (2,900 mm)	8' 2" (2,490 mm)	8' 8" (2,642 mm)	8' 11" (2,717 mm)
Tail Swing Radius	4' 2.4" (1,280 mm)	4' 3" (1,295 mm)	4' 9" (1,447 mm)	4' 11" (1,490 mm)	4' 10" (1,473 mm)	4' 10" (1,460 mm)	4' 3" (1,290 mm)	3' 9" (1,143 mm)