



Engine

Model	Yanmar 4TNE-94
Type	Water cooled, 4 cycle Diesel 4-cylinders in line, direct injection, low emission
Rated flywheel horsepower	
SAE J1995 (gross)	58.3 HP (43.5 kW) at 2500 rpm
J1349 (net)	57.7 HP (43 kW) at 2500 rpm
DIN 6271/1(gross)	59.1 PS (43.5 kW) at 2500 rpm
6271/1(net)	58.5 PS (43 kW) at 2500 rpm
Max. torque	19.4 kgf-m (140 lbf-ft) at 1600 rpm
Bore	94 mm (3.70")
Stroke	100 mm (3.94")
Piston displacement	2776 cc (169.5 cu.in)
Batteries	12 V x 100 AH
Starting motor	12 V - 2.3kW
Alternator	12 V - 40 Amp



Hydraulic system

Main pump	
Type	Variable displacement piston pump
Rated flow	2 x 52.25 lpm (13.8 US gpm/11.5 UK gpm)
Auxiliary hydraulic flow	40.5 lpm (10.7US gpm/8.9 UK gpm)
Sub-pump for pilot circuit	Gear pump
Hydraulic motors	
Travel	Two speed axial piston motor with brake valve and parking brake
Swing	Axial piston motor with automatic brake
Relief valve setting	
Implement circuits	210 kgf/cm ² (2985 psi)
Travel	210 kgf/cm ² (2985 psi)
Swing circuit & dozer blade	170 kgf/cm ² (2415 psi)
Pilot circuit	30 kgf/cm ² (425 psi)
Service valve	Installed
Hydraulic cylinders	
No. of cylinder-bore x rod x stroke	
Boom : 1 - 100 x 55 x 620 mm (3.9" x 2.2" x 24.4")	
Arm : 1 - 85 x 50 x 760 mm (3.3" x 2.0" x 30.0")	
Bucket : 1 - 80 x 50 x 580 mm (3.2" x 2.0" x 23.0")	
Boom swing : 1 - 95 x 50 x 631 mm (3.7" x 2.0" x 24.8")	
Dozer blade : 1 - 100 x 50 x 159 mm (3.9" x 2.0" x 6.3")	



Controls

Pilot pressure-operated joysticks and pedals with detachable levers provide easy and fatigueless operation.

Pilot control	Two joysticks with one safety lever (LH) : Swing and arm, (RH) : Boom and bucket (ISO pattern)
Engine throttle	Lever type
External lights	Two lights mounted on the boom one below the cab, one below the battery box



Swing system

Swing motor	Axial piston motor
Swing reduction	Planetary gear reduction
Swing gear lubrication	Grease
Swing brake	Wet, multi-disc
Swing speed	10.0 rpm



Steering system

Hydraulically actuated, orbitrol type steering system actuates on front wheels through the steering cylinders.
Min. turning radius.....5005mm(16'5")



Undercarriage

Reinforced box-section frame is of high-tensile strength steel.
Pin-on type dozer blade is standard.
Dozer bladea very useful addition for leveling and back filling or clean-up work.



Drives & Brakes

4-wheel hydrostatic drive, constant mesh, helical gear transmission provides 2 forward and reverse travel speeds.
Max. drawbar pull2800 kgf (6170 lbf)
Travel Speed 1st (forward/ reverse)8.0 km/hr (5.0 mph)
2st (forward/ reverse)27 km/hr (16.8 mph)
Gradeability30° (58%)
Service brake.....independent brake system, front and rear axle full hydraulic power brake.
spring released and hydraulic applied wet type multiple disc brake.



Axles & wheel

Full floating front axle is supported by center trunion for oscillation. It can be locked by oscillation lock cylinders.
Rear axle is fixed on the lower chassis.
Tires.....12.0 x 16.5-12PR.single



Coolant & Lubricant capacity

	liter	US gal	UK gal
Fuel tank	125.0	33.0	27.5
Engine coolant	10.4	2.7	2.3
Engine oil	9.7	2.6	2.1
Swing device	0.5	0.16	0.1
Final drive(each)	4.4	1.2	1.0
Axle(front)	5.3	1.4	1.2
(rear).....	5.3	1.4	1.2
Hydraulic tank	80.0	21.0	17.6



Operating weight (approximate)

Operating weight, including 2,840 mm (9'4") one-piece boom, 1,600 mm (5'3") arm, SAE heaped 0.18 m³ (0.24 yd³) excavator bucket, lubricant, coolant, fuel tank, hydraulic tank and the standard equipment.

Operating weight.....5,140kg(11,330lb)

Major component weight

Upper structure	2,475 kg (5,460 lb)
Counter weight	211 kg (465 lb)
Boom (with arm cylinder)	258 kg (570 lb)



Dozer blade

Width x height1925 x 354 mm (6' 4" x 14")
Max. lifting above ground level.....395 mm(15.5")
Max. depth below ground level.....95 mm(3.7")