



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 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)

Sub-pump for pilot circuit Gear pump

Hydraulic motors

Travel Two speed, axial piston motor with counter balance valve and parking brake

Swing Axial piston motor with automatic swing brake

Relief valve setting

Implement circuits 210 kgf/cm² (2985 psi)

Travel 210 kgf/cm² (2985 psi)

Swing circuit 180 kgf/cm² (2560 psi)

Pilot circuit 30 kgf/cm² (425 psi)

Service valve Installed

Hydraulic cylinders

No. of cylinder-bore x rod x stroke

Boom : 1 - 100 x 55 x 636 mm (3.9" x 2.2" x 25.0")
 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 - 110 x 50 x 205 mm (4.3" x 2.0" x 8.1")



Controls

Pilot pressure-operated joysticks 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)

Travelling and steering Two levers with pedals

Engine throttle Lever type

External lights Two lights mounted on the boom one below the cab



Swing system

Swing motor Axial piston motor

Swing reduction Planetary gear reduction

Swing circuit lubrication Grease

Swing brake Wet, multi-disc

Swing speed 10.0 rpm



Undercarriage

Center frame is integrally welded with reinforced box-section track frames. The undercarriage includes lubricated rollers, idlers, track adjusters with shock absorbing spring, sprockets and track-chain with triple grouser shoes.

No. of shoes on each side 40
 No. of carrier roller on each side 1
 No. of track rollers on each side 5



Drives & Brakes

Drive method Full hydrostatic type

Drive motor Axial piston motor, in-shoe design

Reduction system Planetary reduction gear

Max. drawbar pull 4,900 kgf (10,800 lbf)

Max. travel speed (high) 4.0 km/hr (2.5 mph)
 (low) 2.2 km/hr (1.4 mph)

Gradeability 35°(70%)

Parking brake Wet, multi-disc



Coolant & Lubricant capacity

	liter	US gal	UK gal
Fuel tank	125.0	33.0	27.5
Engine coolant	8.0	2.1	1.8
Engine oil	9.7	2.6	2.1
Swing device	0.6	0.16	0.1
Final drive(each)	1.7	0.45	0.4
Hydraulic tank	80.0	21.0	17.6



Operating weight (approximate)

Operating weight, including 2,900 mm (9'6") one-piece boom, 1,600 mm (5'3") arm, PCSA heaped 0.18 m³ (0.24 yd³) excavator bucket, lubricant, coolant, fuel tank, hydraulic tank and the standard equipment.

Operating weight

Shoes (Triple grouser)	Operating weight	Ground pressure
400 mm (16")	5,400 kg (11,910 lb)	0.31 kgf/cm ² (4.41 psi)

Major component weight

Upper structure 2,475 kg (5,460 lb)
 Counterweight 221 kg (490 lb)
 Boom (with arm cylinder) 272 kg (600 lb)



Dozer blade

Width x height 1865 x 350mm (6' 1" x 13.8")
 Max. lifting above ground level 350mm(13.7")
 Max. depth below ground level 540mm(21.2")