

# CASE

## W4 Loader



**37 SAE NET (27.6 kW) HORSEPOWER**

4-cylinder liquid-cooled diesel engine.

**HYDROSTATIC DRIVE**

Infinitely variable travel speeds up to 4.4 mph (7 km/h) in work range, 12.7mph (20.4 km/h) in transport range.

**CENTER-PIVOT STEER**

70° total articulation. Front and rear wheels track at all times.

**16° TOTAL FRAME OSCILLATION**

Permits stable ground contact over rough terrain.



**FUNCTIONS AS WHEEL LOADER OR FORKLIFT**

for extra job versatility.

**½ YD<sup>3</sup> (.38 m<sup>3</sup>) LOADER BUCKET**

Self-leveling in raise cycle, standard level gauge for loading.

**2500 LB (1135 kg) FORKLIFT LOAD CAPACITY**

144" (3.7 m) lift height with pallet fork.

Unit shown is equipped with non-standard items.

**JI Case**

A Tenneco Company

Construction Equipment Division

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# W4 SPECIFICATIONS

## ENGINE

Make and model	Mitsubishi 4DQ50
Fuel	diesel
Maximum rated horsepower	
(1) Gross	40 @ 3000 rpm (29.8 kW @ 3000 r/min)
(2) SAE net	37 @ 3000 rpm (27.6 kW @ 3000 r/min)
Torque, maximum	87 ft-lbs @ 1200 rpm (12.03 kg-m @ 1200 r/min)
Cylinders, number	4
Bore and stroke	3.3" x 3.7" (84 mm x 94 mm)
Displacement	128 in <sup>3</sup> (2084 cm <sup>3</sup> )
Starting	12 volt electric (90 amp-hr battery)
Air cleaner (with service indicator)	single element dry type
Oil filter	full flow replaceable element
Fuel filter	replaceable element
Cooling	liquid

## DRIVE SYSTEM

Hydrostatic ground drive with variable displacement piston pump. Fixed displacement piston motor connected to a two-speed mechanical transmission with drive shaft to front and rear differentials. Hand lever control for forward, neutral, reverse. Foot pedal for travel speed control. 10 micron filter in charge circuit, 40 micron system filter.

## TRANSMISSION

Two speed with low and high ranges in either direction.

## TRAVEL SPEEDS

Working range	0 to 4.4 mph (0 to 7.0 km/h)
Transport range	0 to 12.7 mph (0 to 20.4 km/h)

## DIFFERENTIALS

Dana Model 60 with full float axles.

## STEERING

Center pivot hydraulic with 35° articulation in each direction from centerline. Frame oscillation 8° either direction from centerline.

## BRAKES

Service brake — hydrodynamic in neutral position of hydrostatic drive system with engine running. Holding brake — foot operated mechanical disc type. Parking brake — hand actuated mechanical disc type.

## TIRES

Standard 12.5L x 15 SGT implement.

## SERVICE CAPACITIES

	U.S. Gals	Litres
Fuel tank	13.2	49.9
Hydraulic system (tank only)	10.0	37.9
(complete system)	15.0	56.8
Cooling system	2.5	9.5
Engine crankcase w/ filter	7.0	6.6

## LOADER DATA

Type — mechanical self-leveling  
Bucket level indicator gauge (standard)

### Controls:

Four-position loader arm circuit — raise, lower neutral, float (spring return to neutral from raise or lower position)

Three-position bucket circuit — rollback, neutral, dump (spring return to neutral)

Pump — gear type, .92 in<sup>3</sup> displacement (15.0 cm<sup>3</sup>)

Breakout force — 5250 lbs (2381 kg)

### Hydraulic lift capacity:

Ground level — 5700 lbs (2585 kg)

Full height — 2700 lbs (1224 kg)

Digging depth at 10° bucket angle — 4.8 in. (122 mm)

### Hydraulic cycle times:

Raise — 5.2 sec.

Lower (power) — 3.02 sec.

Lower (float) — 3.25 sec.

Dump (loaded) — 1.54 sec.

### Cylinders:

Loader — 2.5" dia x 29.6" stroke, 1.5" rod (63.5 mm dia x 752 mm stroke, 38.1 mm rod)

Bucket — 2.5" dia x 24.9" stroke, 1.5" rod (63.5 mm dia x 633.2 mm stroke, 38.1 mm rod)

## OPERATING DATA

### Tipping loads:

Straight — 3430 lbs (1555 kg)

With 35° turn — 3000 lbs (1361 kg)

### Operating loads:

Straight — 1715 lbs (778 kg)

With 35° turn — 1500 lbs (680 kg)

Outside turn diameter — 264" (6.7 m)

## WEIGHTS:

Shipping — 4310 lbs (1950 kg)

Operating — 4568 lbs (2068 kg)

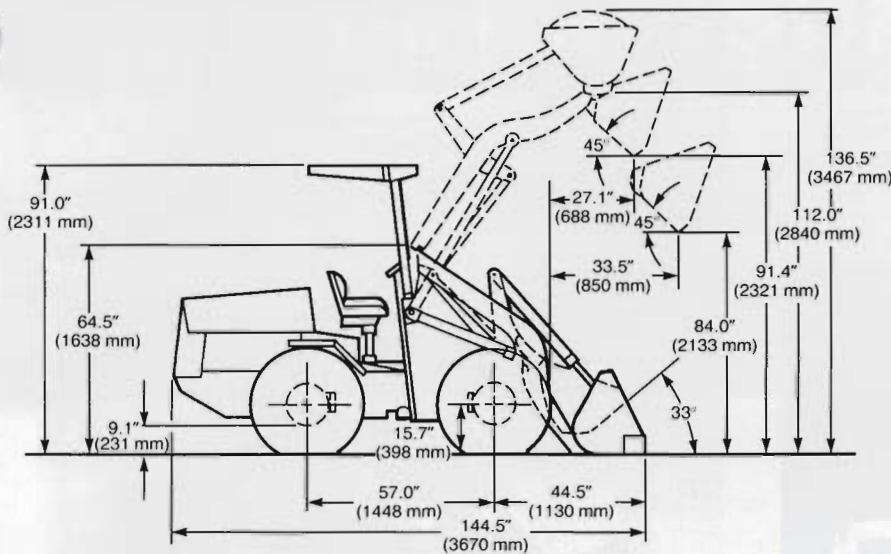
Operating with counterweight kit — 4728 lbs (2145 kg)

Operating with counterweight kit and water tire ballast — 5400 lbs (2450 kg)

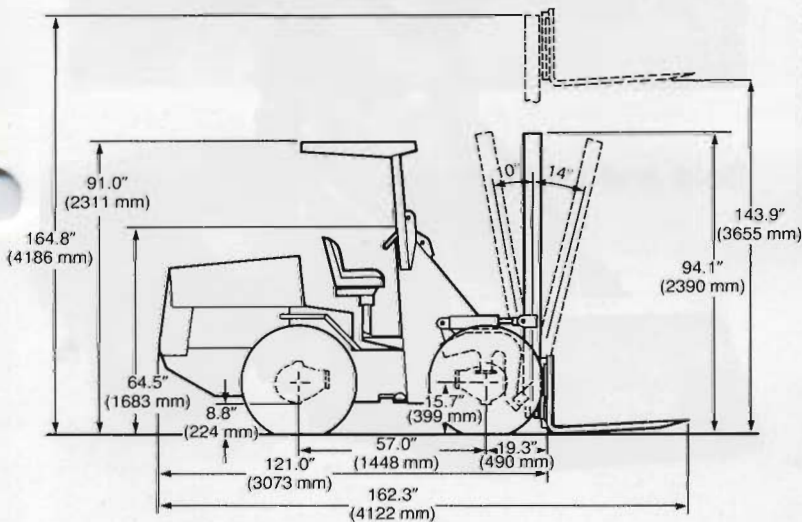




## OPERATING DIMENSIONS (Loader)



## OPERATING DIMENSIONS (Forklift)



### FORKLIFT MAST DATA

Load capacity to full height — 2500 lbs (1135 kg) @ 24" (610 mm) load center.

Max. forklifting height\* — 144" (3658 mm).

Overall height\* (mast closed) — 94.1" (2390 mm).

Overall height\* (mast raised) — 164.8" (4186 mm).

Freelift — 1/2" (12.7 mm).

Rate of lift 144" (3658 mm) mast —

Max. load — 9 sec.

Empty — 8.5 sec.

Rate of drop 144" (3658 mm) mast — 5.5 sec. (max. load).

Overall length (ICED definition — front of carriage, less forks, to rear) — 121" (3073 mm).

Turning clearance (diameter, with forks)\* —

Left — 17'5" (5309 mm).

Right — 19'7" (5969 mm).

Degrees tilt —

Forward — 14°

Rear — 10°

Ground clearance\* — 7.5" (191 mm), freelif bottom of forklift mast.

Mast type (number of stages) — two.

Lateral fork adjustment —

Inside dimension — 40" (1016 mm).

Outside dimension — 48" (1219 mm).

Size of forks (set of two, standard) — 1.5" x 3.0" x 42" (38 mm x 76 mm x 1067 mm)

\*Measurements taken with 12.5L x 15 tires.

### WEIGHTS

Shipping — 5108 lbs (2317 kg).

Operating\* — 5835 lbs (2647 kg).

\*Operating weight contains basic unit with mast forklift, 175 lb (79 kg) operator, 12 gallons (45.4 litres) fuel and counterweights.



## STANDARD EQUIPMENT

40 gross hp (29.8 kW) liquid cooled diesel engine. Electric cold start pre-heat system. 12 volt starting and alternator charging system. 90 amp-hr battery. Dry type replaceable element air filter. Indicator lights: alternator, engine oil pressure, hydraulic oil temperature, water temperature and neutral start position. Hydrostatic drive system with mechanical two-speed transmission. Hydraulic oil cooler. Spin-on type engine oil filter. Two hydraulic filters. Hydraulic steering. Full float axles. Mechanical parking brake. Fuel gauge. ROPS/FOPS canopy. Seat belt. Deluxe bucket seat. Hand operated throttle control.



## OPTIONAL EQUIPMENT (Loader arm mounted)

Dirt bucket — 60" wide (1.5 m),  $\frac{1}{2}$  yd<sup>3</sup> struck (.38 m<sup>3</sup>). Light materials bucket — 72" wide (1.8 m),  $\frac{3}{4}$  yd<sup>3</sup> struck (.57 m<sup>3</sup>). Fertilizer bucket\* — 60" wide (1.5 m), 1 yd<sup>3</sup> struck (.76 m<sup>3</sup>). Pallet fork. Manure fork. Additional counterweights. Full cab.

\*Mast forklift counterweights must be used with fertilizer bucket option.

**NOTE:** All specifications are stated in accordance with ICED definitions or SAE standards or recommended practices where applicable.

## IMPORTANT

J I Case Company reserves the right to change these specifications without notice and without incurring any obligation relating to such change.



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