

CASE

W14H Loader



83 (61.9 kW) NET FLYWHEEL HORSEPOWER

Case 336 in³ (5506 cm³) diesel engine

FULL POWERSHIFT TRANSMISSION

Four speeds forward, two reverse

SINGLE LEVER SHIFT CONTROL

Modulated transmission clutching for fast, smooth, on the go directional changes

TWIN TURBINE TORQUE CONVERTER

Automatically shifts to meet changing load demands for optimum cycling productivity

FRONT MOUNTED OPERATOR'S COMPARTMENT

Visibility, controllability, serviceability, comfort and noise reduction

IN-LINE LOADER LINKAGE

All linkage mounted in line with loader lift arms for good visibility to bucket work area

LONG 100" (2.54 m) WHEELBASE PLUS 40° ARTICULATION

Combines operational stability and balance with excellent turning radius

CENTER-PIVOT STEER

Allows rear and front tires to track at all times

Unit shown is equipped with non-standard items.

JI Case

A Tenneco Company

700 State Street Racine, WI 53404 U.S.A.



W14H SPECIFICATIONS

ENGINE

Make and model Case A336BD
 Fuel No. 1 or 2 diesel
 Maximum rated horsepower
 (1) Gross 93 @ 2200 rpm
 (69.4 kW @ 2200 r/min)
 (2) SAE net 83 @ 2200 rpm
 (61.9 kW @ 2200 r/min)
 Torque, maximum
 At 500' (152 m) altitude,
 85° F (29° C) 236 lbs-ft @ 1550 rpm
 (32.6 kg-m @ 1550 r/min)
 Cylinders, number (valve-in-head) 4
 Bore and stroke 4.625" x 5"
 (117 mm x 127 mm)
 Displacement 336 in³ (5506 cm³)
 Air cleaner (with service indicator) two element, dry type
 Oil filter full-flow type

- (1) Manufacturer's rating of maximum engine horsepower at flywheel when equipped with oil and water pumps. Fuel set at maximum quantity for this application. Corrected to sea level 29.92" (760 mm) Hg and 60° F (15° C) dry air.
 (2) SAE net flywheel horsepower of engine as applied to this vehicle when equipped with operating accessories including oil and water pumps, alternator, air cleaner, fan and muffler. Corrected to 500' (152 m) altitude with .38" (9.5 mm) Hg vapor pressure 29.38" (746 mm) Hg observed barometer and 85° F (29° C) per SAE J816a specifications.

ELECTRICAL SYSTEM

Voltage 24 volt
 Standard Alternator 40 amp
 Batteries (2) 12 volt
 System protected by circuit breakers.

TRAVEL SPEEDS (with 15.5 x 25 tires)

	1st		2nd		3rd		4th	
	mph	km/h	mph	km/h	mph	km/h	mph	km/h
Forward	3.2	5.3	7.0	11.3	11.0	17.7	22.4	36.1
Reverse	4.0	6.4	9.0	14.5	—	—	—	—

TRANSMISSION

Four speeds forward, two speeds reverse, powershift. Single lever control. Modulated clutching. Transmission shifts automatically from first to second and third to fourth.

TORQUE CONVERTER

Twin turbine integral with transmission 5.44 to 1 stall ratio.

AXLES (front and rear)

Front axle fixed. Rear axle oscillates up or down 12°, 24° total oscillation. One wheel can drop 14" (356 mm) with all wheels remaining on the ground for maximum traction. Axle shafts may be removed without disturbing the wheels or planetaries.

DIFFERENTIALS

Torque proportioning differentials, front and rear for maximum traction.

BRAKES

Air over hydraulic, 4-wheel internal-expanding, or caliper disc. Air actuated mechanical parking brake. Automatically sets if air pressure drops below effective operating level. Red warning light indicates when parking brake engaged.

STEERING

Center pivot articulated design with hydrostatic power steering. Front and rear wheels always track.
 Steering angle—each direction from center 40°
 Steering pump 21 gpm @ 2200 rpm @ 2000 psi
 (79.5 lit/min @ 2200 r/min @ 13 790 kPa)
 Steering cylinders 2.5" dia x 14.1" stroke
 (63.5 mm dia x 358 mm stroke)
 Turning circle outside tires 29'8" (9.04 m)

LOADER HYDRAULIC SYSTEM

Cylinders: Double-acting with hardened and chrome-plated rods.
 Lift (2) 4.5" dia x 25.38" stroke
 (114 mm dia x 645 mm stroke)
 Bucket (2) 3" dia x 30.5" stroke
 (76 mm dia x 775 mm stroke)
Pump: Dual-stage, gear-type, engine-driven. 34 gpm @ 2200 rpm @ 2200 psi (129 lit/min @ 2200 r/min @ 15 168 kPa).
Control valve: Open-center, series parallel circuit.
Hydraulic lines: Steel tubing with brazed fittings and wire-braid, high-pressure hose with swaged fittings.
Reservoir: Positive pressurized, inlet filtered hydraulic oil system sealed for dirt exclusion. Full-time micronic filter furnishes only clean oil to all components of the hydraulic system.
Hydraulic cycle time:
 (Rated load in bucket) Seconds
 Raise 5.5
 Lower 4.0
 Dump 1.7
 Total 11.2

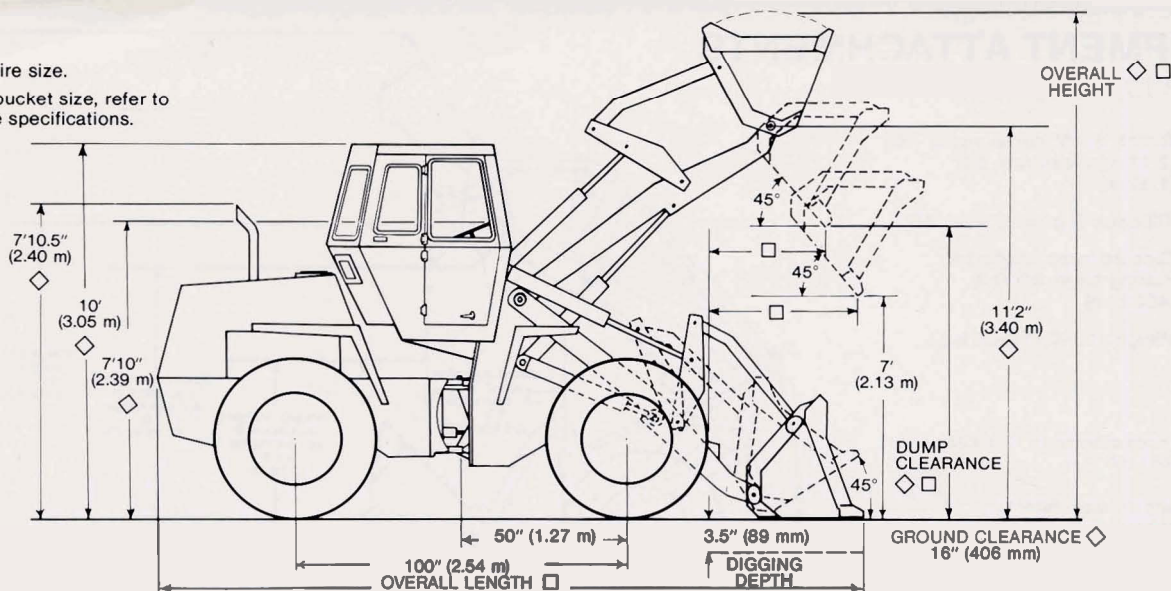
SERVICE CAPACITIES

	U.S. Gals	Litres
Fuel tank	38	144
Hydraulic system	21	80
Transmission and torque converter	7.5	28.4
Engine crankcase	11 qt	10.4
Differentials and final drives		
Front	11 qt	10.4
Rear	11 qt	10.4
Cooling system	7	27

NOTE: Specifications herein are in accordance with all Society of Automotive Engineers' standards (SAE). The applicable Loader Standard is SAE J732C.



- ◇ Varies with tire size.
- Varies with bucket size, refer to performance specifications.



PERFORMANCE SPECIFICATIONS

BUCKET TYPE - Capacity SAE Rated (nominally heaped) Struck Cutting edge width Weight	GENERAL PURPOSE 1.50 yd ³ (1.15 m ³) 1.29 yd ³ (1.0 m ³) 86 in (2.18 m) 950 lbs (431 kg)	GENERAL PURPOSE 1.75 yd ³ (1.34 m ³) 1.45 yd ³ (1.11 m ³) 96 in (2.44 m) 1100 lbs (499 kg)	4-IN-1 [®] 1.25 yd ³ (.97 m ³) .97 yd ³ (.74 m ³) 84 in (2.13 m) 1340 lbs (608 kg)
Dump Clearance @ 45° Dump — Full Height	8'10.5" (2.71 m)	8'10.5" (2.71 m)	9'1.5" (2.78 m)
Bucket Reach @ Full Height & 45° Dump	2'8" (813 mm)	2'8" (813 mm)	3'0" (914 mm)
Bucket Reach @ 7' (2.13 m) Clearance & 45° Dump	4'1.5" (1.26 m)	4'1.5" (1.26 m)	5'0" (1.52 m)
Loader Clearance Circle — Bucket in Carry Position	32'8" (9.96 m)	33'5" (10.19 m)	32'8" (9.96 m)
Overall Length	18'4" (5.59 m)	18'4" (5.59 m)	18'5" (5.61 m)
Overall Height	14'6" (4.42 m)	14'6" (4.42 m)	16'5.5" (5.02 m)
SAE Breakout Force, lbs	12,361 (5607 kg)	12,361 (5607 kg)	12,058 (5470 kg)
SAE Tipping Load, Straight, lbs*	11,819 (5361 kg)	11,795 (5350 kg)	12,279 (5570 kg)
35° Turn	10,750 (4876 kg)	10,729 (4867 kg)	11,169 (5066 kg)
40° Turn	10,436 (4734 kg)	10,415 (4724 kg)	10,843 (4918 kg)
Operating Load, lbs*	5218 (2367 kg)	5208 (2362 kg)	5422 (2459 kg)
Maximum Material Weight per yd ³ (m ³)	3479 (1578 kg)	2976 (1350 kg)	4338 (1968 kg)
Hydraulic Lifting Capacity @ Full Height	8500 (3856 kg)	8350 (3788 kg)	8110 (3679 kg)
SAE Operating Weight, lbs*	15,686 (7115 kg)	15,706 (7124 kg)	16,583 (7522 kg)

*For select items, add to or deduct from the machine operating weight and tipping loads as given in the chart below. All dimensions and specifications based upon unit with 15.5 x 25, L2 tires, ROPS cab, fenders with 175 lb (79.4 kg) operator.

Selected Items	Operating Weight Adjustments		Tipping Load Adjustments					
	lbs	kg	Straight		35° Turn		40° Turn	
			lbs	kg	lbs	kg	lbs	kg
W/ROPS Canopy	-530	-240	-379	-172	-379	-172	-379	-172
16.9 x 24, R4 w/o ballast	-380	-172	-272	-123	-247	-112	-240	-109
Without fenders	-191	-87	-152	-69	-138	-63	-134	-61

OPERATING DIMENSIONS

Tire Options	15.5 x 25, L2 tires	16.9 x 24, R4 tires
Tread	68" (1.73 m)	69" (1.75 m)
Width over tires	84" (2.13 m)	85.5" (2.17 m)
Increase in vertical dimensions	None	0.75" (19 mm)

EQUIPMENT ATTACHMENTS

4-IN-1 BUCKET SPECIFICATIONS

Reach @ 45° dump angle, 7'0"
(2.13 m) clearance, 5'0"
(1.52 m)

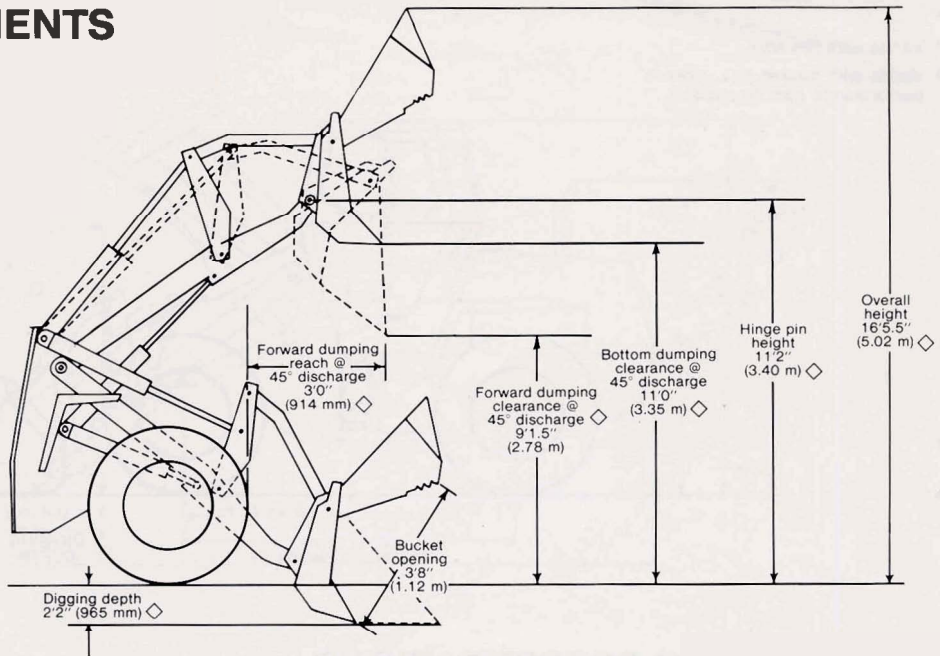
Tilt back @ ground level, 45°

Closure force, clamp to cutting edge, 9000 lb
(4082 kg)

Weight, 1340 lb (608 kg)

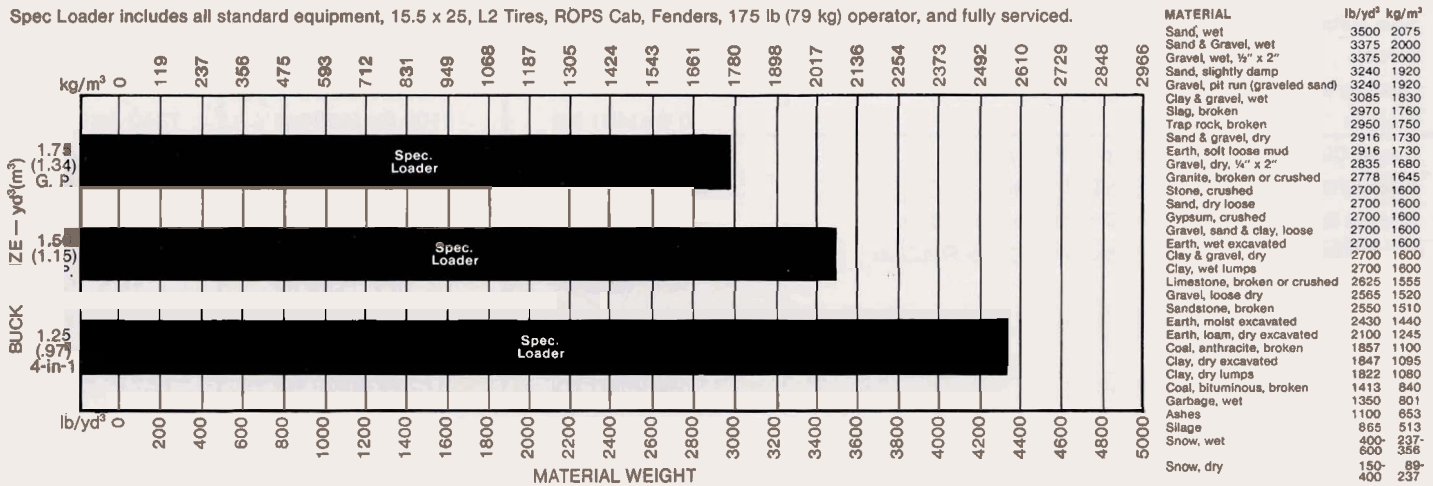
NOTE: SAE code adhered to, 15.5 x 25 L2, 12PR tires used.

◇ Varies with tire size - refer to performance specifications.



W14H BUCKET SELECTION CHART

Spec Loader includes all standard equipment, 15.5 x 25, L2 Tires, ROPS Cab, Fenders, 175 lb (79 kg) operator, and fully serviced.



Bucket recommendations shown above are based on normal materials and average operating conditions. When selecting the proper bucket for a specific application other factors, such as loadability, material characteristics, terrain and other pertinent job conditions must also be considered.

STANDARD EQUIPMENT

Air cleaner, two element, dry type. Air horn. Alternator with voltage regulator. Anti-freeze to -40°F. Batteries. Brakes, air over hydraulic. Brakes, parking. Bucket position indicator. Differentials, torque proportioning. Drawbar. Fan, pusher. Gauges (air pressure, converter oil temperature, engine water temperature, fuel). Lights, front and rear flood. Light, tail and stop. ROPS canopy. Seat belt. Start, 24 volt. Steering, hydrostatic. Tachometer and hour meter. Transmission, powershift. Warning lights (alternator, clutch pressure, engine oil pressure, parking brake).

OPTIONAL EQUIPMENT

Air conditioning, two ton. Alarm, back-up. Alternator, 65 amp. Beacon, rotating. Brackets, lift and tie down. Buckets. Bucket height kick-out, automatic, adjustable. Engine side panels. Fan, suction. Fenders. Forks, log. Forks, pallet. Fuel pump, electric. Guard, power train. Heater (36,000 BTU/hr) and defroster. Lights, additional driving. Lock-up kit. Muffler, spark arresting. Return to dig mechanism, automatic. ROPS cab with air pressurization and sound suppression. Seat belt. Seat, suspension. Starting equipment, cold weather. Steering, auxiliary. Tire inflation kit. Turn signals. Windshield wipers, rear.

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 changes.

Sold and serviced by: