





132 FLYWHEEL HORSEPOWER Case diesel engine

FULL POWERSHIFT TRANSMISSION Four speeds forward, two reverse

SINGLE LEVER SHIFT CONTROL

Modulated transmission clutching for fast, smooth directional changes

HYDRAULIC LIFT CAPACITY 23,700 lbs (10,750 kg)

IN-LINE-PLANE LOADER LINKAGE
Excellent view of bucket work area

LONG WHEEL BASE
Good operational stability

CENTER-PIVOT STEER

Allows rear and front tires to track at all times

Unit shown is equipped with non-standard items.

Manufactured by J I Case Company, Racine Wisconsin USA

J I Case A Tenneco Company



LOADER SPECIFICATIONS

NGINE

Make and model	Case A504BD diesel, No. 1 or 2
(1) Gross	158 @ 2200 rpm
(2) SAE net Torque, maximum	132 @ 2200 rpm
At 500' (152 m) altitude,	
85°F (29°C)	372 lbs/ft @
	1400 rpm
	(51,41 kg/m @
	1400 tr/mn)
Cylinders, number (valve-in-head)	6
Bore and stroke	45/8" x 5"
	$(117 \text{ mm} \times 127 \text{ mm})$
Displacement	504 cu/in (8,21 lit)
Starting	24 volt electric
Air cleaner (with service indicator)	two element, dry type
Oil filter	full-flow type
Advitage data and the season and	

- (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 accesories 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 J818a specifications.

RAVEL SPEEDS

	1st		2nd		3rd		4th	
	mph	(km/h)	mph	(km/h)	mph	(km/h)	mph	(km/h)
Forward	2.9	(4,6)	6.7	(10.78)	12.7	(20.44)	25.4	(40,87)
Reverse	4.0	(6.44)	9.1	(14.64)				

TRANSMISSION

Four speeds forward, two speeds reverse, powershift. Single lever control. Modulated clutching. First low to first high and second low to second high is done automatically.

TORQUE CONVERTER

Twin turbine integral with transmission, 5.1 to 1 stall ratio.

AXLES (front and rear)

Front axle fixed. Rear axle oscillates up or down $11\frac{1}{2}^{\circ}$, 23° total oscillation. One wheel can drop 16" (406,4 mm) with all wheels remaining on the ground for maximum traction. Axles may be removed without disturbing the wheels or planetaries.

DIFFERENTIALS

Torque proportioning differentials, front and rear for maximum traction.

BRAKES

Air over hydraulic, internal-expanding, 4-wheel. Air actuated mechanical parking brake. Automatically sets if air pressure drops below safe operating level.

STEERING

Center pivot articulated design with hydrostatic power steering. Front and rear wheels always track.

Steering angle-each dir-

ection from center ... 40°

Steering pump 21 gpm @ 2200 rpm @ 2500 psi

(79,5 lit/min @ 2200 tr/mn @

176 kg/cm²)

Steering cylinders 3" dia. x 15" stroke, 1½" rod

(76 mm dia. x 381 mm stroke,

38 mm rod)

LOADER HYDRAULIC SYSTEM

Cylinders: Double-acting with hardened and chrome-plated rods to increase strength and resist corrosion.

5" dia. x 341/4" stroke, 3" rod (127 mm dia. x 870 mm stroke, 76 mm rod) Bucket (2) 41/2" dia, x 291/2" stroke, 21/2" rod

(114 mm dia. x 749 mm stroke, 64 mm rod)

Pump: Dual-stage, gear-type, converter-driven, 50 gpm @ 2200 rpm @ 2300 psi (189 lit/min @ 2200 tr/mn @ 162 kg/cm²). Control valve: Open-center, parallel circuit.

Hydraulic lines: Steel tubing with soldered fittings and wirebraid, 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	. 6.3
Lower	. 2.8
Dump	3.8
Total	12.9

SERVICE CAPACITIES

	U.S. gallons	(liters)
Fuel tank	58	(219,5)
Hydraulic system	35	(132,5)
Transmission and torque converter		(34,1)
Engine crankcase	3.25	(12.3)
Differentials and final drives		
Front	6.5	(24.6)
Rear	6.5	(24,6)
Cooling system	6.75	(25,5)

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

OPERATING DIMENSIONS Varies with tire size. Varies with bucket size, refer to performance specifications. 17.5 x 25, L2 tires 20.5 x 25, L2 tires 77" (1955 mm) 79" (2006 mm) OVERALL () Width over tires 96" (2438 mm) 100" (2540 mm) HEIGHT Increase in vertical dimensions: 2,1" (53 mm) None 12'1%" (3353 mm) (3696 mm) \Diamond (2133 mm) (2667 mm) DUMP 🗘 🗆 CLEARANCE 8'4%" (2553 mm) -60¾" (1543 mm)-GROUND CLEARANCE -121½"(3086 mm)-12-1/2" (311 mm) Q OVERALL LENGTH PERFORMANCE SPECIFICATIONS 5

BUCKET TYPE - Capacity	EXCAVATING	GENERAL	PURPOSE	LIGHT MATERIAL	LIGHT MATERIAL	4-IN-1
SAE Rated (nominally heaped)	2 Cu/Yds (1,53 m³)		u/Yds I m³)	3 Cu∕∕ds (2,29 m³)	4 Cu/Yds (3,06 m³)	2½ Cu/Yds (1,91 m²)
Struck Capacity §	1,6 cu/yds (1,22 m³)		u/yds 3 m³) 104" wide	2.6 cu/yds (1,99 m³)	3.5 cu/yds (2,68 m²)	2.0 cu/yds (1,53 m³)
Dump Clearance @ 45° Dump —	9' ½"	8' 8'½"	8' 101/2"	8' 6¾"	8' 1¾"	8' 9½"
Full Height § 🔷	(2756 mm)	(2654 mm)	(2705 mm)	(2610 mm)	(2483 mm)	(2680 mm)
Bucket Reach @ Full Height & 45° Dump §	3' 1"	3′ 5″	3′ 2½″	3' 6¾"	3′ 11¾″	3" 6"
	(939 mm)	(1041 mm)	(975 mm)	(1088 mm)	(1213 mm)	(1067 mm)
Bucket Reach @ 7' Clearance	4' 4½"	4' 8½"	4′ 6″	4' 10¼"	5' 3"	4' 7'½"
45° Dump §	(1333 mm)	(14 35 m m)	(1372 mm)	(1480 mm)	(1600 mm)	(1410 mm)
Loader Clearance Circle —	38′ 9″	39′ 2′′	39′ 4″	39′ 8″	40'	40' 4"
Bucket in Carry Position §	(11811 mm)	(11938 mm)	(11989 mm)	(12090 mm)	(12192 mm)	(12294 mm)
Overall Length §	22′ ½″	22′ 6″	22' 2 ½"	22° 8½"	23′ 3¼″	23'
	(6718 mm)	(6858 mm)	(67 6 9 mm)	(6922 mm)	(7100 mm)	(7010 mm)
Overzii Height §	15' 8"	15' 11"	15' 9"	16'	16' 2"	16' 4''
	(4775 mm)	(4851 mm)	(4801 mm)	(4877 mm)	(4929 mm)	(4979 mm)
Tipping Lasd, Straight**	17,300	17,100	17,100	17,200	17,300	15,800
	(7847 kg)	(7756 kg)	(7 756 kg)	(7 8 02 kg)	(7847 kg)	(7620 kg)
35° Turn	15,800	15,600	15.600	15,700	15,800	15,300
	(7167 kg)	(7076 kg)	(7076 kg)	(71 2 1 kg)	(7167 kg)	(6940 kg)
40° Turn	14,700	14,500	14,500	14,600	14,700	14,200
	(6667 kg)	(6577 kg)	(6577 kg)	(6622 kg)	(6667 kg)	(8441 kg)
Operating Weight**	23,000	23,275	23,275	23,400	23,660	23,635
	(10433 kg)	(10558 kg)	(10550 kg)	(10614 kg)	(10732 kg)	(10721 kg)

[&]quot;Machine stability can be improved through the use of larger tires, CA C12, or counterweights. For select items, add the amount to the machine operating weight and tipping loads as given in the chart. All dimensions and specifications based upon unit with 2½ cu. yd. bucket and 17.5 x 25, L2 tires, unballasted.

Added Weight Items	Incr	ease in O	perating Weight		Inc	rease in 1	ipping Loa	ad	
				Str	night	35°	Turn	40°	Turn
ROPS enclosed cab 20.5 x 25, L2 17.5 x 25, L2 w/75% CA C1 ² 20.5 x 25, L2 w/75% CA C1 ² Counterweight	j	lbs 525 625 1194 2600 1000	(kg) (283) (283) (542) (1179) (454)	1bs 510 510 1930 3700 2300	(kg) (231) (231) (231) (875) (1678) (1043)	1bs 470 470 1890 3500 2100	(kg) (214) (214) (857) (1590) (952)	158 450 450 1800 3340 2000	(kg) (204) (204) (816) (1515) (907)

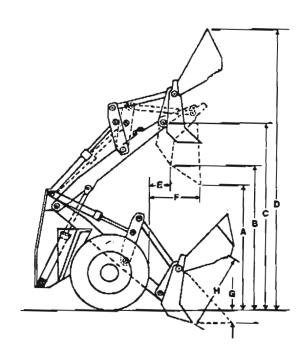
EQUIPMENT ATTACHMENTS

BUCKETS

	Material Weight	Capacity	Cutting Edge		
TYPE	lbs (kg) per cu/yd (m³)	SAE Rated	Struck	Width-Inches (mm)	
Excavating	3400 (1542 kg)	2 (1,53 m ³)	1.6 (1,27 m ³)	96" (2438 mm)	
General Purpose	3000 (1361 kg)	2.5 (1,91 m ³)	2.0 (1,53 m ³)	96" (2438 mm)	
General Purpose ,	3000 (1361 kg)	2.5 (1,91 m³)	2.0 (1,53 m ³)	104" (2642 mm)	
Light Material		3.0 (2.29 m ³)	2.6 (1,99 m ³)	104" (2642 mm)	
Light Material		4.0 (3,06 m³)	3.5 (2,68 m ³)	104" (2642 mm)	
4-in-1	3000 (1361 kg)	2.5 (1,91 m³)	2.0 (1,53 m ³)	101" (2565 mm)	

4-in-1 SPECIFICATIONS:8

THE SPECIFICATIONS,	
A - Forward dumping clearance	
@ 45° discharge 🔷	8' 91/2" (2680 mm)
B — Bottom dumping clearance	
@ 45° discharge 🔷	12' (3658 mm)
C-Hinge pin height	12' 2" (3708 mm)
D — Overall height ♦	18' 1" (5639 mm)
E - Bottom dumping reach	,
@ 45° discharge	14" (356 mm)
F - Forward dumping reach	(000 11111)
@ 45° discharge	3' 6" (1067 mm)
G — Digging depth	9½" (244 mm)
H — Bucket opening	4' 5½" (1359 mm)
Peoch @ 450 dump andle	4 3 /2 (1339 11111)
Reach @ 45° dump angle,	4(7)/// /4 4=0>
7' (2130 mm) clearance	4' 7½" (1410 mm)
Tilt back @ ground level	45°
Closure force, clamp to cutting	
edge	10,000 lb (4536 kg)
Weight	2600 lb (1134 kg)
§ SAE code adhered to, 17.5 x 25,	
L2, 12 PR tires used	



Sold and serviced by:

STANDARD EQUIPMENT

 Varies with tire size - refer to performance specifications,

Alternator. Voltage regulator. Batteries. 24 volt start. Front and rear flood lights. Taillight and stop light, Pusher fan. Two-element, dry-type air cleaner. Air horns. Powershift transmission. Transmission oil cooler. Air-over hydraulic brakes. Parking brake, Voltmeter, engine oil pressure gauge, engine water temperature gauge, fuel level gauge, converter oil temperature gauge, clutch pressure gauge, air pressure gauge, tachometer. Automatic, adjustable bucket height kickout. Automatic return-to-dig mechanism. Drawbar.

OPTIONAL EQUIPMENT

Cab. ROP cab, ROP canopy, seat belt accompanies ROPS. Buckets. Log forks. Pallet forks. Power train guard. Engine side panels. Fenders. Heater and defroster. Cold weather starting equipment. Lockup kit. Tire inflation kit. Turn signals. Additional driving lights, Spark arresting muffler.

TIRES (front and rear)

17.5 x 25. 12PR traction-type, L2 17.5 x 25, 12PR, rock-type, L3 20.5 x 25, 12PR, rock-type, L3 20.5 x 25, 12PR, traction-type, L2