



# 1150B LOADER



## **105 NET FLYWHEEL HORSEPOWER**

Six cylinder, 451 c.i.d. Case diesel engine

## **FULL POWERSHIFT TRANSMISSION**

Modulated power shift with torque converter for smooth directional changes and positive control

## **SINGLE LEVER BUCKET CONTROL**

Low lever effort and ease of operation

## **COUNTER-ROTATING TRACKS**

Turn in the length of the tractor

## **CONTROLLED TRANSMISSION STEERING OR BRAKE STEERING**

Choice of power turns or brake turns for operator convenience and unmatched performance

## **IN-LINE LOADER LINKAGE**

Excellent visibility of work area and bucket

Unit shown is equipped with non-standard items.  
Manufactured by J I Case Company, Racine Wisconsin USA

**J I Case**  
A Tenneco Company



# 1150B SPECIFICATIONS

## ENGINE

Case Model A451BD, 4-cycle, naturally aspirated diesel. Open chamber design. Uses No. 2 diesel fuel. Seven main bearings. Positive pressure oil lubrication with full flow filtering and internal cooling. Multiple cylinder heads. Aluminum alloy pistons with full skirt, three ring design. 24-volt direct electric starting. Dry type, two-stage air cleaner with service indicator. Two-stage full flow spin-on fuel filters.

### Maximum rated horsepower

(1) Gross	125 @ 2100 rpm
(2) SAE net	105 @ 2100 rpm
Displacement	451 cu. in. (7392 cm <sup>3</sup> )
Number of cylinders	6
Bore and stroke	4 <sup>3</sup> / <sub>8</sub> " × 5" (111 mm × 127 mm)
Compression ratio	16.5:1
Torque, maximum, lbs.-ft. (Nm)	
Sea level, 60°F	359 @ 1300 rpm (487 @ 1300 tr/mn)
500' altitude, 85°F	345 @ 1300 rpm (468 @ 1300 tr/mn)

(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) air (per SAE J816 b).

## TORQUE CONVERTER

Single stage, hydrokinetic type, 13" (330 mm) diameter with 2.92 : 1 ratio.

## TRANSMISSION

Constant mesh, four speed full power shift with modulation permitting directional changes under full throttle. Four speeds forward and four speeds reverse.

## TRAVEL SPEEDS

	1st		2nd		3rd		4th	
	mph	km/h	mph	km/h	mph	km/h	mph	km/h
Forward	2.1	3.4	3.0	4.8	4.3	6.9	6.0	9.7
Reverse	2.5	4.0	3.6	5.8	5.1	8.2	7.2	11.5

## STEERING

Steering controlled by independent hydraulic clutches in transmission or by multiple disc power brakes. Four types of turns: power turns, gradual turns, counter-rotation, and brake turns.

## FINAL DRIVES

Spur and bull gear type, single reduction. One-piece line-bored case with final drive seal guards.

## BRAKES

Two multiple disc power brakes, oil cooled, independently controlled by power brake pedals for steering. Center pedal for controlled braking. Separate pedal provides braking without disengaging transmission. Hand operated over-center parking brake.

## UNDERCARRIAGE

Sealed track, hydraulic track adjusters. Track rollers, carrier rollers and drum type idlers are permanently lubricated. Solid disc hunting tooth sprockets and three bar semi-grousers. Reinforced box section track roller frame.

Track frame	Rigid
Track rollers (each side)	6
Carrier rollers (each side)	1
Track gauge	62" (1574 mm)
Length of track on ground	86.7" (2202 mm)
Shoes per track	40
Track shoe widths available	15" (381 mm) 16" (406 mm)
Area, track on ground	(15" shoe) 2601 sq. in. (1,68m <sup>2</sup> ) (16" shoe) 2770 sq. in. (1,79m <sup>2</sup> )

## BUCKET CONTROLS

Single lever control for bucket lift and dump with positive-hold regenerative "float" position in lift circuit. Positive-hold "rollback" position in dump circuit. Return-to-dig and automatic height control.

## LOADER HYDRAULIC SYSTEM

**Pump:** Gear type, torque converter mounted, driven from engine. 52 gpm @ 2100 rpm (197 lit/min @ 2100 tr/mn).

**Control Valve:** Open center, parallel with pressure compensation.

**System relief pressure:** 2200 psi (155 kg/cm<sup>2</sup>).

**Hydraulic lines:** Steel tubing with flared fittings and wire-braid high pressure hose with crimped full flow fittings.

**Cylinders:** Double acting with hardened, chrome plated rods.

Lift (2)	5.0" dia. × 31.45" stroke, × 2.25" rod (127 mm dia. × 799 mm stroke × 57 mm rod)
Bucket (2)	4.5" dia. × 32.0" stroke, × 2.25" rod (114 mm dia. × 813 mm stroke × 57 mm rod)

### Hydraulic cycle time:

Rated load in bucket	Seconds
Raise	5.9
Dump	1.9
Lower (float down)	4.0

## SERVICE REFILL CAPACITIES

	U.S. Gals.	Liters
Fuel tank	52	196.8
Engine crankcase (with filter)	3.75	14.2
Hydraulic system	15	56.8
Transmission and torque converter	15	56.8
Final drives (each side)	2	7.6
Cooling system	13	49.3

## GENERAL DIMENSIONS

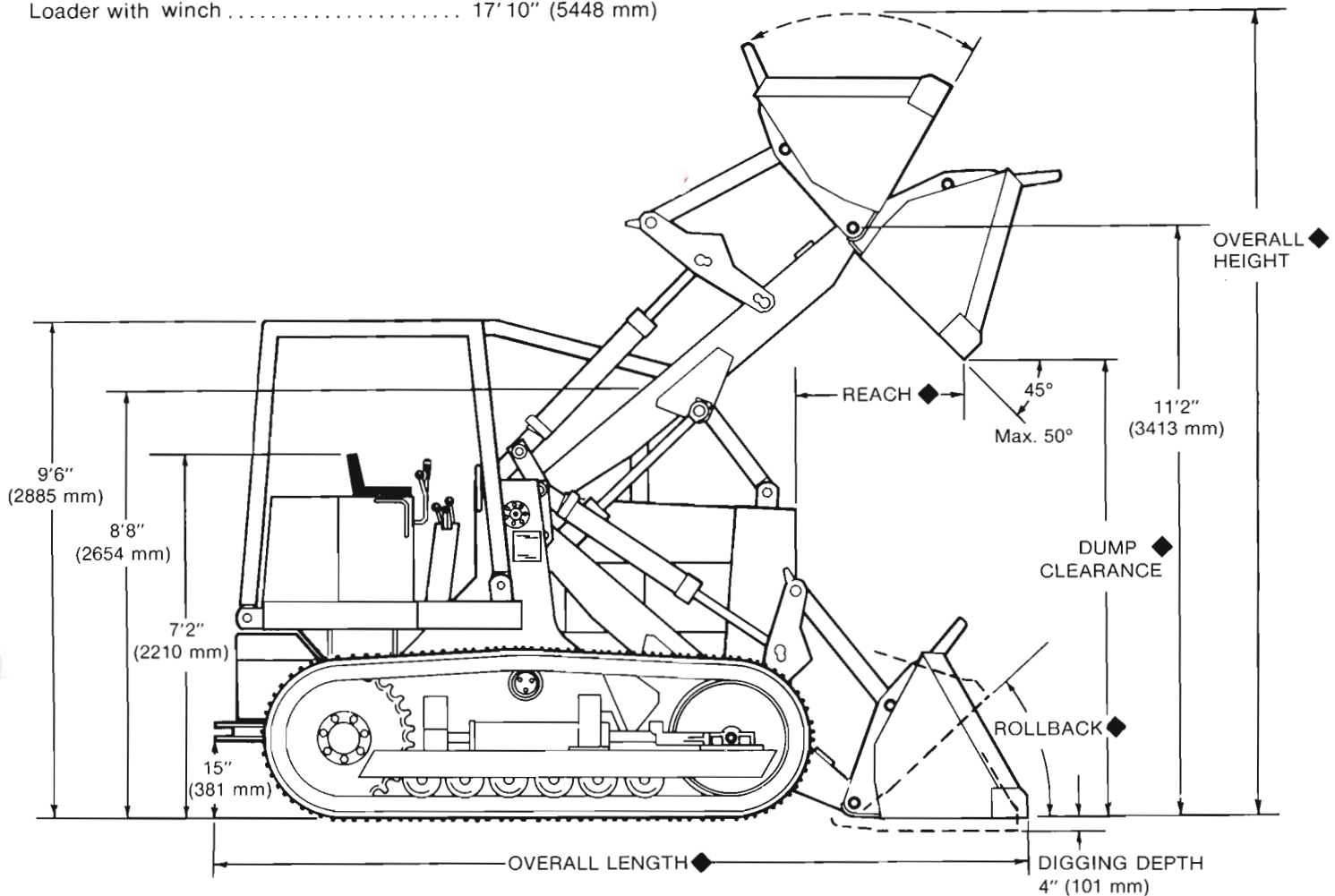
Overall width	
(at track, 15" shoes)	77" (1956 mm)
Ground clearance	13" (330 mm)
Turning clearance circle	
(counter-rotate turn)	22'4" (6807 mm)
Grading angle	103°

# OPERATING DIMENSIONS

◆ Varies with bucket size.  
Refer to Performance Specifications

◆ **Overall lengths:**

Loader with ripper raised ..... 18' 10" (5735 mm)  
Loader with winch ..... 17' 10" (5448 mm)



# PERFORMANCE SPECIFICATIONS

**BUCKET TYPE** - Capacity,  
SAE rated nominally heaped

**GENERAL PURPOSE**  
1-3/4 cu. yd. (1,33m<sup>3</sup>)

**LIGHT MATERIAL**  
2.0 cu. yd. (1,52m<sup>3</sup>)

**4-IN-1**  
1-3/4 cu. yd. (1,33m<sup>3</sup>)

<b>Struck capacity</b>	1.52 cu. yd. (1,16m <sup>3</sup> )	1.65 cu. yd. (1,26m <sup>3</sup> )	1.47 cu. yd. (1,12m <sup>3</sup> )
<b>Bucket weight (less teeth)</b>	1620 lbs. (735 kg)	1800 lbs. (817 kg)	2,480 lbs. (1125 kg)
<b>Bucket width</b>	81.2" (2062 mm)	87" (2210 mm)	84.4" (2144 mm)
<b>Breakout force</b>	18,400 lbs. (8346 kg)	17,100 lbs. (7756 kg)	17,400 lbs. (7892 kg)
<b>Maximum lift capacity</b>	9,200 lbs. (4173 kg)	9,000 lbs. (4082 kg)	8,100 lbs. (3674 kg)
<b>Bucket rollback at ground line</b>	40°	40.5°	43°
<b>at 18" (457 mm) carry</b>	43°	43°	45°
<b>Dump clearance @ full lift-45° discharge</b>	8'8" (2641 mm)	8'5" (2575 mm)	8'2" (2495 mm)
<b>Reach @ 45° discharge angle, 7' clearance</b>	4'6" (1366 mm)	4'5" (1364 mm)	4'1" (1252 mm)
<b>Reach @ full lift, 45° discharge</b>	3' 4 <sup>3</sup> / <sub>4</sub> " (1036 mm)	3'6" (1066 mm)	3'3" (998 mm)
<b>Overall length</b>	15'9" (4800 mm)	16'0" (4890 mm)	16'4" (4978 mm)
<b>Overall height</b>	15'4" (4673 mm)	15'2" (4635 mm)	15'3" (4648 mm)
<b>Static tipping load**</b>	16,700 lbs. (7575 kg)	16,600 lbs. (7530 kg)	15,100 lbs. (6849 kg)
<b>Operating weight (approx.)**</b>	24,800 lbs. (11249 kg)	25,000 lbs. (11340 kg)	25,700 lbs. (11658 kg)
<b>With ROPS**</b>	25,515 lbs. (11574 kg)	25,715 lbs. (11664 kg)	26,415 lbs. (11982 kg)

\*\*Machine stability and operating weight can be increased through the addition of optional equipment.

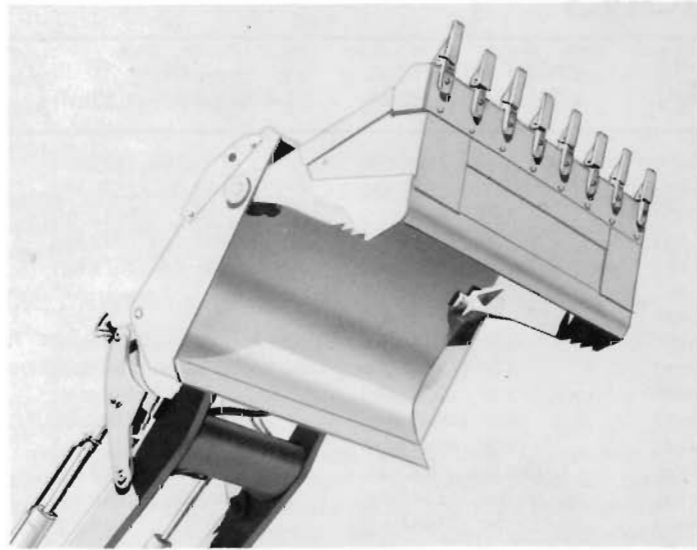
# OPTIONAL EQUIPMENT

	Approximate add-on weight	
	lbs.	kg.
Anti-sandblast screen	7	3,2
Bucket teeth	125	56,7
*Counterweight	2000	907,2
Counterweight, add-on	1000	454
Drawbar (rigid)	330	150
Drawbar (for ripper)	170	77,1
Drawbar (for winch)	70	31,8
Fan, reversible	3	1,4
Grille, heavy duty	22	10
Hook, front pull	20	9,1
Lights, 2 front, 1 rear	19	8,6
Lights, side auxiliary, 2	29	13,2
Lockup kit	8	3,1
Muffler, spark arresting	n.c.	n.c.
Noise suppression kit	160	72,6
Normalizing turbocharger	60	27
Return-to-dig and auto. height control	32	14,5
Ripper, three tooth	2200	998
Rock guards	580	263
Roll-Over Protective Structure	560	254
ROPS, front sweeps	155	70,3
Side shields, rear engine	22	10
Track guides, front and rear	290	131
Transmission guard, full bottom	50	22,7
Winch	1500	680
Winch, fairlead (four roller)	350	158,7
Winch, integral arch (three roller)	700	317,5
Fourth roller for arch	35	15,8

\*Included In Operating Weight

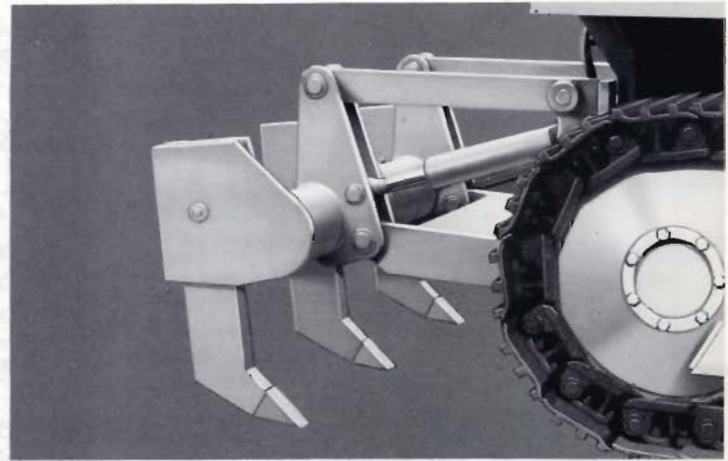
## 4-IN-1 BUCKET

Width of moldboard cutting edge	82.2"	(2088 mm)
Moldboard height	49"	(1244 mm)
Maximum clam opening	51.3"	(1303 mm)
Dump clearance @ full lift (using clam)	11'0"	(3353 mm)



## RIPPER

Type	Parallelogram
Overall width	66" (1676 mm)
Maximum penetration	17" (432 mm)
Ground clearance (at carry)	12.5" (317 mm)
Number of shanks	3
Shank spacing	31" (787 mm)
Ripper tips	Replaceable
Hydraulic cylinders (2)	3.5" dia. x 10.0" stroke x 1.75" rod (89 mm dia. x 254 mm stroke x 44 mm rod)
Weight	2200 lbs. (998 kg)



## STANDARD EQUIPMENT

Dry air cleaner with service indicator. Alternator and voltage regulator. Pusher fan. Master disconnect key switch. Neutral safety start mechanism. Color-coded international symbol gauges. Tachometer. Adjustable seat. Over-center parking brake. Tool box. Permanently lubricated track rollers. Sealed track. Hydraulic track adjusters. Front engine sideshields. Bottom transmission guard. Crankcase guard. Radiator guard. Muffler.

**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.

**Sold and serviced by:**