

The CASE logo is rendered in a stylized, blocky font with a metallic, three-dimensional appearance. The letters are white with black outlines and are set against a dark background.

# 855C Loader



#### **78 (58 kW) NET FLYWHEEL HORSEPOWER**

Four cylinder, 336 in<sup>3</sup> (5 506 cm<sup>3</sup>) Case diesel engine

#### **POWERSHIFT TRANSMISSION**

Four speed powershift with torque converter

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

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

#### **IN-LINE LOADER LINKAGE**

Excellent visibility of work area and bucket

#### **SINGLE LEVER BUCKET CONTROL**

Low lever effort and ease of operation

#### **CHOICE OF BUCKETS**

1.5 yd<sup>3</sup> (1.15 m<sup>3</sup>) general purpose or  
1.375 yd<sup>3</sup> (1.05 m<sup>3</sup>) 4-in-1

Unit shown is equipped with non-standard items.

## **J I Case**

A Tenneco Company

Construction Equipment Division  
700 State Street Racine, WI 53404 U.S.A.



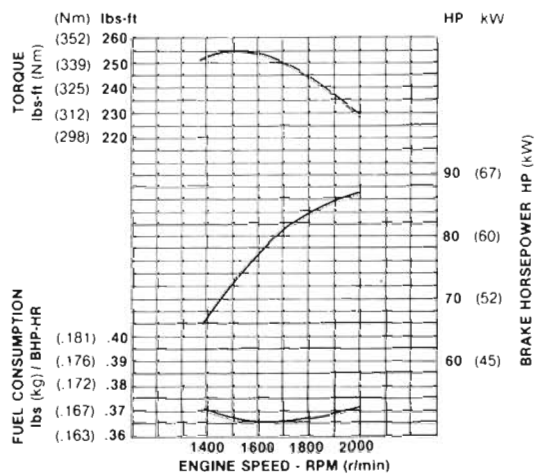
# 855C SPECIFICATIONS

## ENGINE

Case Model A336BD, 4 cycle, naturally aspirated diesel. Open chamber design. Uses No. 2 diesel fuel. Five main bearings. Positive pressure oil lubrication with full flow filtering and internal cooling. Multiple cylinder heads. Aluminum alloy pistons with full skirt, 3-ring design. 24-volt direct electric starting. Dry type, dual element air cleaner with service indicator. Two-stage full flow spin-on fuel filters.

Maximum rated horsepower	
(1) Gross	87 @ 2000 rpm (66 kW @ 2000 r/min)
(2) SAE net	78 @ 2000 rpm (58 kW @ 2000 r/min)
Displacement	336 in <sup>3</sup> (5 506 cm <sup>3</sup> )
Number cylinders	4
Bore and stroke	4.625" x 5" (117 mm x 127 mm)
Compression ratio	16.0:1
Torque, maximum, lbs-ft (Nm)	
Sea level, 60° F (15° C)	254 @ 1400 rpm (344 @ 1400 r/min)
500' (152 m) altitude, 85° F (29° C)	240 @ 1400 rpm (325 @ 1400 r/min)

- (1) Manufacturer's rating of maximum engine power at flywheel in accordance to SAE specification J270. Corrected to 29.00" Hg (97.9 kPa) and 85° F (29.4° C) Dry Air.
- (2) SAE net flywheel power of engine equipped with oil and water pump, alternator, air cleaner, fan and muffler. Corrected to 29.00" Hg (97.9 kPa) and 85° F (29.4° C).



Maximum engine performance per SAE J270 except air cleaner restriction is not included.

## TORQUE CONVERTER

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

## TRANSMISSION

Constant mesh, powershift with Hi-Lo range selector. Four speeds forward, 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	3.1	5.0	4.3	6.9	6.1	9.8
Reverse	2.3	3.7	3.4	5.5	4.7	7.6	6.7	10.8

## STEERING

Steering controlled by independent hydraulic clutches in transmission or by hydraulic actuated disc brakes. Three types of turns: power, gradual, and brake.

## FINAL DRIVES

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

## BRAKES

Oil cooled, hydraulic actuated disc brakes controlled by two foot pedals that may be interlocked or used independently; and which neutralize power drive. Separate pedal provides braking without disengaging transmission. Hand-operated over-center parking brake is standard.

## UNDERCARRIAGE

Sealed track, hydraulic track adjusters. Track rollers, carrier rollers, drum type idlers permanently lubricated. Solid disc hunting tooth sprockets, two or three bar semi-grousers. Channel section roller frame.

Track frame	Rigid
Track rollers (each side)	5
Carrier rollers (each side)	1
Track gauge	60" (1.52 m)
Length of track on ground	78.3" (1.99 m)
Shoes per track (each side)	38
Track shoe widths available	14" (356 mm), 15" (381 mm)
Area, track on ground	(14" shoes) 2,192 in <sup>2</sup> (1.41 m <sup>2</sup> ) (15" shoes) 2,349 in <sup>2</sup> (1.52 m <sup>2</sup> )
Height of grouser	0.81" (20.6 mm)

## LOADER HYDRAULIC SYSTEM

**Pump:** Gear type, torque converter mounted, driven from engine. 31 gpm @ 2000 rpm (117.3 lit/min @ 2000 r/min).

**Control valve:** Open center, parallel with low pressure regeneration, two spool valve.

**System relief pressure:** 2500 psi (17 237 kPa)

**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)	4" dia x 32.26" stroke, 2" rod (102 mm dia x 819 mm stroke, 51 mm rod)
Bucket (2)	3.5" dia x 37.25" stroke, 2" rod (90 mm dia x 946 mm stroke, 51 mm rod)

**Hydraulic cycle time:**

Rated load in bucket	Seconds
Raise	6.2
Dump	2.0
Lower (float down)	3.0

## LOADER 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. Low pressure regeneration. Return to dig.

## SERVICE REFILL CAPACITIES

	U.S. Gals	Litres
Fuel tank	40	151
Engine crankcase (with filter)	2.5	9.5
Hydraulic system	12	45.4
Transmission and torque converter	8	30.3
Final drives (each side)	1.9	7.2
Cooling system	11	41.6

## GENERAL DIMENSIONS

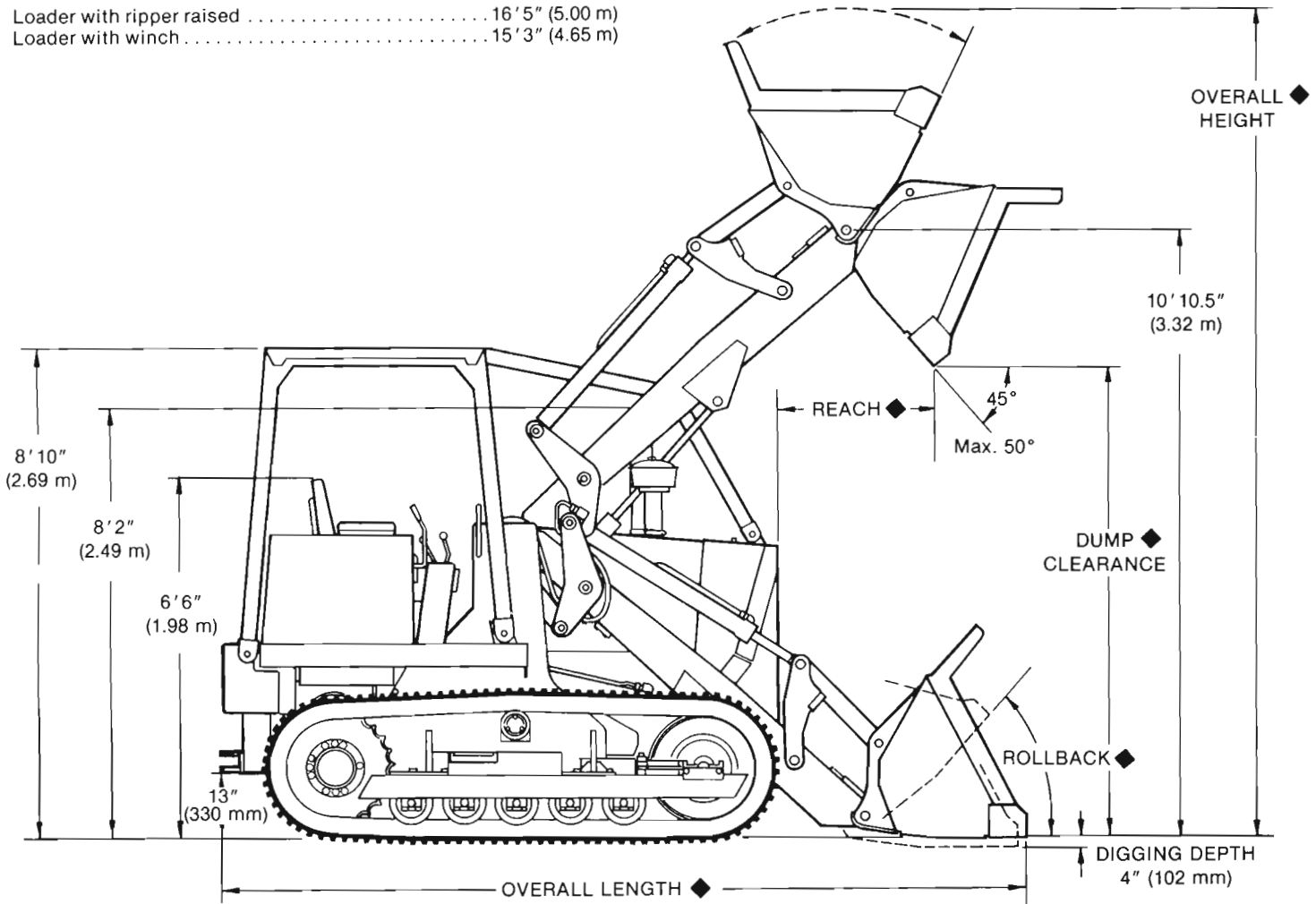
Overall width - at track, 14" (406 mm) shoe	74" (1.88 m)
Ground clearance	13" (330 mm)
Turning clearance circle (brake turn)	22' 4" (6.81 m)
Grading angle	105°

# OPERATING DIMENSIONS

◆ Varies with bucket size.  
Refer to Performance Specifications.

## OVERALL LENGTHS:

Loader with ripper raised ..... 16' 5" (5.00 m)  
 Loader with winch ..... 15' 3" (4.65 m)



# PERFORMANCE SPECIFICATIONS

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

**GENERAL PURPOSE**  
1.5 yd<sup>3</sup> (1.15 m<sup>3</sup>)

**4-IN-1**  
1.375 yd<sup>3</sup> (1.05 m<sup>3</sup>)

Struck capacity	1.29 yd <sup>3</sup> (0.98 m <sup>3</sup> )	1.12 yd <sup>3</sup> (0.86 m <sup>3</sup> )
Bucket weight (less teeth)	1,260 lbs (572 kg)	1,860 lbs (844 kg)
Bucket width	79" (2.01 m)	79" (2.01 m)
Breakout force	14,500 lbs (6 577 kg)	14,000 lbs (6 350 kg)
Maximum lift capacity	7,500 lbs (3 402 kg)	6,600 lbs (2 994 kg)
Bucket rollback at ground line	40°	45°
at 18" (457 mm) carry	44°	48°
Dump clearance @ full lift — 45° discharge	8' 7" (2.62 m)	8' 4" (2.54 m)
Reach @ 45° discharge angle, 7' (2.13 m) clearance	4' 6" (1.37 m)	4' 5" (1.35 m)
Reach @ full lift, 45° discharge	35" (889 mm)	34" (864 mm)
Overall length	14' 2" (4.32 m)	14' 7" (4.45 m)
Overall height	14' 10" (4.52 m)	14' 5" (4.39 m)
Static tipping load*	12,975 lbs (5 886 kg)	12,570 lbs (5 702 kg)
Operating weight (approx.)*	20,190 lbs (9 158 kg)	21,190 lbs (9 611 kg)

\*Includes ROPS, full tank of fuel and 170 lbs (77 kg) operator.

**NOTE:** Operating weight and weight distribution may vary with the addition of optional equipment. 2,400 lbs (1 088 kg) counterweight included for general purpose bucket. 2,800 lbs (1 269 kg) counterweight included for 4-in-1 bucket.



# OPTIONAL EQUIPMENT

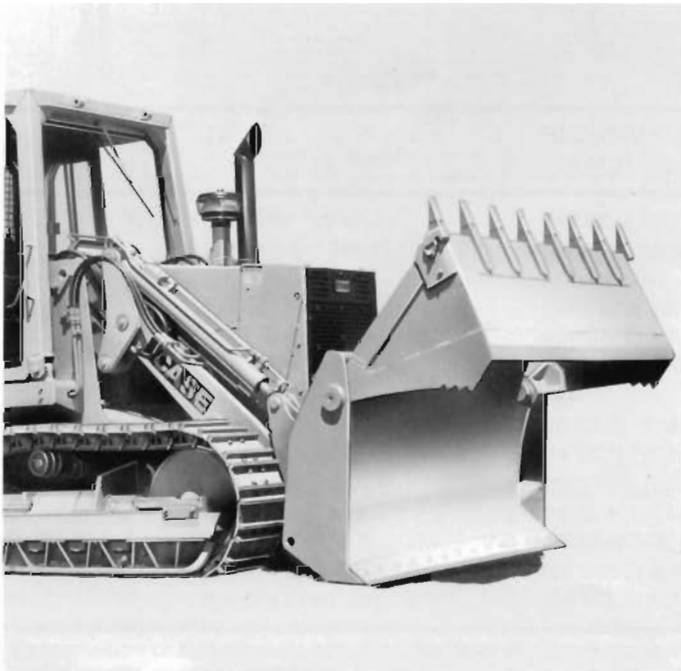
	Approximate Weight		Add-on Tipping Load	
	lbs	kg	lbs	kg
Backhoe, 14' (4.2 m)	4,000	1 814	8,200	3 719
Extendahoe®, 14'-18' (4.2 m - 5.5 m)	4,500	2 041	9,295	4 216
Bucket teeth	100	45.4	- 130	- 59
Cab	900	408	1,000	454
*Counterweight — 2,000 lbs	- 2,000	- 907	- 3,115	- 1 413
*Counterweight, each 400 lbs	- 400	- 182	- 675	- 306
Drawbar	30	13	N.C.	N.C.
Grille, H.D.	20	9	N.C.	N.C.
Hook, front pull	21	10	N.C.	N.C.
Lights, 2 front & 1 rear	18	8	N.C.	N.C.
Lockup kit	15	7	N.C.	N.C.
Muffler, spark arresting	27	12	N.C.	N.C.
Noise suppression	36	16	N.C.	N.C.
Ripper — 3 tooth	1,400	635	2,660	1 207
Ripper w/475 lbs (215 kg) cwt	1,875	850	3,565	1 617
Rockguards	440	200	285	129
*ROPS	- 430	- 195	- 480	- 218
Side screens	90	41	110	50
Sweeps	134	61	N.C.	N.C.
*Suspension seat	40	18	N.C.	N.C.
Track guides, front and rear	250	113	150	68
Track shoes, each 1" over 14" (25.4 mm over 406 mm)	101	46	65	29
Transmission guard	35	16	N.C.	N.C.
Winch	1,111	504	1,785	810
Fairlead 3 roller	189	86	340	154
Fairlead 4 roller	213	97	390	177
Log Arch	575	261	990	449

\*Included in operating weight.

**NOTE:** Subtract weight of ROPS when installing cab and counterweight when installing rear mounted attachment.

## 4-IN-1 BUCKET

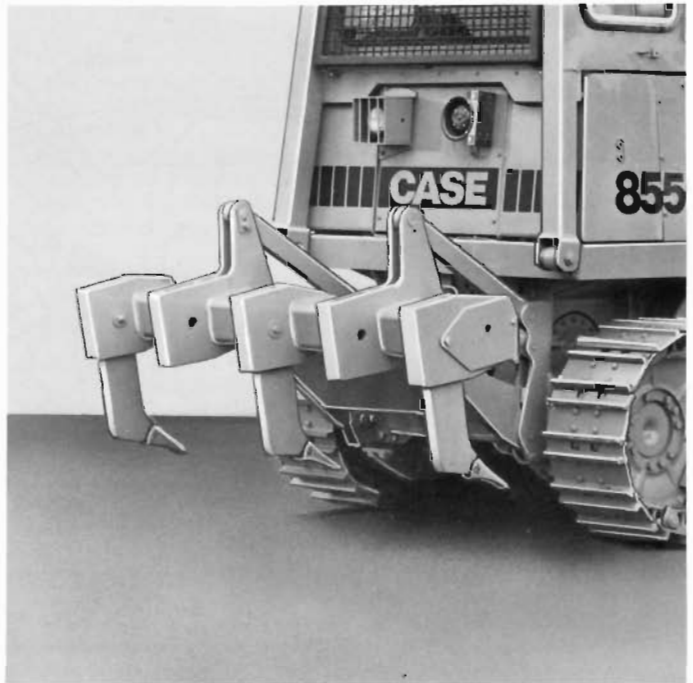
Width of moldboard cutting edge	79" (2.01 m)
Moldboard height	40" (1.02 m)
Maximum clam opening	47.3" (1.20 m)
Dump clearance @ full lift (using clam)	10' 10" (3.30 m)



Form No. CE20483

## RIPPER

Type	Parallelogram
Overall width	72.4" (1.84 m)
Maximum penetration	15" (381 mm)
Ground clearance (at carry)	12" (307 mm)
Number of shanks	3 standard, 5 maximum
Shank spacing:	
with 3 shanks	34" (863 mm)
with 5 shanks	
inner shanks	17.8" (452 mm)
outer shanks	16.2" (411 mm)
Ripper tips	Replaceable
Hydraulic cylinders (2)	3.25" dia x 8.4" stroke, 1.75" rod (82.6 mm dia x 213 mm stroke, 44.5 mm rod)
Weight	1,430 lbs (649 kg)



## STANDARD EQUIPMENT

Dry two-stage air cleaner with service indicator • Alternator and voltage regulator • Pusher fan • Master disconnect key switch • Neutral safety start mechanism • Adjustable seat • Over-center parking brake • Tool box • Permanently lubricated track rollers • Sealed track • Hydraulic track adjusters • Engine sideshields • Crankcase guard • Radiator guard • Muffler • Return-to-dig • Hourmeter • Instrument panel gauges • Tachometer • Fuel gauge • ROPS canopy with seat belt.

**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:**