



LOADER DIMENSIONS

General Purpose Bucket* 4 IN 1® Bucket

A. Overall operating height – fully raised.....	13'11" (4.25 m)	14'3" (4.34 m)
Height to –		
B. Bucket hinge pin fully raised.....	11'2" (3.4 m)	11'2" (3.4 m)
C. Bucket hinge pin @ SAE carry	13.1" (334 mm)	14.6" (372 mm)
D. Dump angle @ full height.....	45°	45°
E. Dump clearance @ full height, 45° dump –		
Bucket.....	8'10" (2.69 m)	8'11" (2.72 m)
Clam open.....	NA	9'8" (2.95 m)
F. Dump reach @ full height, 45° dump –		
Bucket	27.7" (703 mm)	25.5" (647 mm)
Clam open.....	NA	11.9" (302 mm)
Bucket rollback –		
G. @ groundline	40°	40°
H. @ SAE carry	45°	45°
J. @ full height.....	Adjustable	Adjustable
K. Digging depth below grade –		
Bucket flat.....	5.9" (149 mm)	6.8" (180 mm)
Clam open (dozing)	NA	4.1" (103 mm)
L. Reach from front axle centerline – bucket on ground	75.2" (1.91 m)	72.7" (1.85 m)
Lift capacity to full height	6,182 lb (2804 kg)	5,514 lb (2501 kg)
Breakout force –		
Lift cylinders.....	9,164 lbf (40 760 N)	8,904 lbf (39 600 N)
Dump cylinders	9,480 lbf (42 170 N)	10,302 lbf (45 820 N)
Bucket cutting edge width.....	82" (2.08 m)/93" (2.36 m)	82" (2.08 m)
Maximum grading angle	116°	116°
Maximum clam opening.....	NA	38.3" (972 mm)
Moldboard height	NA	36.8" (934 mm)
Raising time to full height	3.4 sec	3.4 sec
Bucket dumping time.....	1.5 sec	1.5 sec
Lowering time –		
Power down	2.4 sec	2.4 sec
Return-to-dig.....	3.2 sec	3.2 sec
Clam –		
Open time	NA	2.3 sec
Close time	NA	3.1 sec

NOTE: Loader dimensions taken with 4WD,
19.5L x 24 rear tires and 82" (2.08 m) general
purpose bucket *without bolt-on cutting edge.

DIMENSIONS

	Standard Backhoe		Extendahoe®	
			Retracted	Extended
M. Overall transport length –				
General purpose bucket.....	22'7" (6.89 m)	22'7" (6.89 m)	22'7" (6.89 m)	NA
4 IN 1® bucket.....	22'4" (6.82 m)	22'6" (6.86 m)	22'6" (6.86 m)	NA
Overall transport width.....	7'2" (2.18 m)	7'2" (2.18 m)	7'2" (2.18 m)	NA
Height –				
To top of canopy.....	8'9" (2.67 m)	8'9" (2.67 m)	8'9" (2.67 m)	8'9" (2.67 m)
To top of cab.....	8'10" (2.69 m)	8'10" (2.69 m)	8'10" (2.69 m)	8'10" (2.69 m)
To top of exhaust stack.....	8'6" (2.59 m)	8'6" (2.59 m)	8'6" (2.59 m)	8'6" (2.59 m)
N. Transport	10'10" (3.29 m)	11'3" (3.42 m)	11'3" (3.42 m)	NA
Ground clearance at backhoe frame.....	14.6" (371 mm)	14.6" (371 mm)	14.6" (371 mm)	14.6" (371 mm)
Angle of departure	20°	20°	20°	20°
Front wheel tread –				
2WD.....	67.5" (1.71 m)	67.5" (1.71 m)	67.5" (1.71 m)	67.5" (1.71 m)
4WD.....	67.7" (1.72 m)	67.7" (1.72 m)	67.7" (1.72 m)	67.7" (1.72 m)
Width across tires				
17.5L x 24	81.7" (2.07 m)	81.7" (2.07 m)	81.7" (2.07 m)	81.7" (2.07 m)
19.5L x 24	81.4" (2.67 m)	81.4" (2.67 m)	81.4" (2.67 m)	81.4" (2.67 m)
19.5L x 24 Wide Track	88.0" (2.24 m)	88.0" (2.24 m)	88.0" (2.24 m)	88.0" (2.24 m)
O. Wheelbase –				
2WD.....	84" (2.13 m)	84" (2.13 m)	84" (2.13 m)	84" (2.13 m)
4WD.....	84.5" (2.15 m)	84.5" (2.15 m)	84.5" (2.15 m)	84.5" (2.15 m)

NOTE: Dimensions taken with 19.5L x 24 rear tires and 11L x 16 front tires except that data marked 4WD is taken with 12 x 16.5 front tires.

CYLINDERS

	Bore Diameter	Rod Diameter	Stroke
Loader			
Lift (2)	3.25" (82.6 mm)	1.75" (44.5 mm)	30.2" (766 mm)
Bucket (2)	3.0" (76 mm)	1.5" (38.1 mm)	20.6" (522 mm)
4 IN 1® clam (2)	3.0" (76 mm)	1.75" (44.5 mm)	9.1" (231 mm)
Backhoe			
Boom.....	5.0" (127 mm)	2.25" (57.2 mm)	33.2" (842 mm)
Dipperstick	5.0" (127 mm)	2.5" (63 mm)	22.9" (583 mm)
Bucket	3.5" (89 mm)	2.5" (63 mm)	34.3" (872 mm)
Extendahoe®	3.0" (76 mm)	1.75" (44.5 mm)	42.0" (1.07 m)
Swing (2)	4.0" (101.6 mm)	2.0" (50.8 mm)	11.5" (292 mm)
Stabilizer (2).....	4.25" (108 mm)	2.0" (50.8 mm)	21.8" (553 mm)
Steering			
2WD	2.75" (69.9 mm)	1.5" (38.1 mm)	6.7" (170 mm)
4WD	2.48" (63 mm)	1.5" (38.1 mm)	9.53" (242 mm)

BACKHOE LIFT CAPACITIES

Boom Lift	Standard Backhoe		Extendahoe®			
	Distance from swing pivot (m)	Backhoe lift capacity - lb (kg)	Retracted		Extended	
			Distance from swing pivot (m)	Backhoe lift capacity - lb (kg)	Distance from swing pivot (m)	Backhoe lift capacity - lb (kg)
+16' (4.87 m)					12'5" (3.79)	1,140 (517)
+14' (4.27 m)	8'7" (2.62)	2,240 (1016)	9'6" (2.89)	1,840 (835)	14'7" (4.45)	1,450 (658)
+12' (3.66 m)	11'2" (3.40)	2,680 (1216)	11'10" (3.61)	2,220 (1007)	16'2" (4.93)	1,580 (717)
+10' (3.05 m)	12'9" (3.89)	2,750 (1247)	13'4" (4.06)	2,400 (1089)	17'2" (5.23)	1,660 (753)
+8' (2.44 m)	13'11" (4.24)	2,710 (1229)	14'5" (4.40)	2,410 (1093)	18'0" (5.49)	1,690 (767)
+6' (1.83 m)	14'7" (4.45)	2,680 (1216)	15'2" (4.62)	2,390 (1084)	18'7" (5.67)	1,700 (771)
+4' (1.22 m)	15'0" (4.57)	2,630 (1193)	15'6" (4.72)	2,370 (1075)	18'10" (5.74)	1,700 (771)
+2' (0.61 m)	15'1" (4.60)	2,560 (1161)	15'7" (4.75)	2,330 (1057)	18'11" (5.77)	1,700 (771)
Ground Level	14'11" (4.55)	2,550 (1157)	15'5" (4.70)	2,270 (1030)	18'10" (5.74)	1,690 (767)
-2' (0.61 m)	14'5" (4.40)	2,460 (1116)	15'0" (4.57)	2,230 (1011)	18'5" (5.62)	1,650 (748)
-4' (1.22 m)	13'7" (4.14)	2,380 (1079)	14'2" (4.32)	2,140 (971)	17'9" (5.41)	1,640 (744)
-6' (1.83 m)	12'4" (3.76)	2,380 (1079)	12'10" (3.91)	2,150 (975)	16'9" (5.11)	1,640 (744)
-8' (2.44 m)	10'5" (3.18)	2,380 (1079)	11'2" (3.40)	2,150 (975)	15'7" (4.75)	1,640 (744)
-10' (3.05 m)	7'6" (2.28)	2,590 (1175)	8'7" (2.62)	2,260 (1025)	13'11" (4.24)	1,700 (771)
-12' (3.66 m)					11'7" (3.53)	1,860 (844)
-14' (4.27 m)					7'11" (2.41)	2,260 (1025)
Dipper Lift						
+14' (4.27 m)					13'4" (4.06)	2,580 (1170)
+12' (3.66 m)	10'1" (3.08)	4,940 (2241)	10'7" (3.23)	4,360 (1978)	14'3" (4.35)	2,680 (1216)
+10' (3.05 m)	10'7" (3.23)	4,650 (2109)	11'2" (3.40)	4,190 (1901)	14'6" (4.42)	2,700 (1225)
+8' (2.44 m)	10'6" (3.20)	4,680 (2123)	10'11" (3.33)	4,160 (1887)	14'5" (4.40)	2,880 (1306)
+6' (1.83 m)	9'7" (2.92)	5,290 (2400)	10'2" (3.10)	4,680 (2123)	13'11" (4.24)	2,910 (1320)
+4' (1.22 m)	7'5" (2.25)	6,610 (2998)	8'3" (2.58)	5,590 (2536)	12'11" (3.94)	3,050 (1383)

BACKHOE OPERATIONAL DATA

	Standard Backhoe		Extendahoe®	
	Retracted	Extended	Retracted	Extended
Digging depth –				
Maximum	14'5" (4.39 m)	14'10" (4.52 m)	14'10" (4.52 m)	18'3" (5.56 m)
Maximum w/hi-capacity bucket	14'10" (4.52 m)	15'3" (4.65 m)	15'3" (4.65 m)	18'8" (5.69 m)
2' (610 mm) flat bottom	14'3" (4.34 m)	14'8" (4.47 m)	14'8" (4.47 m)	18'2" (5.54 m)
8' (2.44 m) flat bottom	13'4" (4.06 m)	13'9" (4.19 m)	13'9" (4.19 m)	17'6" (5.33 m)
Overall reach from –				
Rear axle centerline	21'5" (6.53 m)	22'0" (6.70 m)	22'0" (6.70 m)	25'5" (7.75 m)
Swing pivot	18'1" (5.51 m)	18'5" (5.61 m)	18'5" (5.61 m)	21'10" (6.65 m)
Loading height	11'2" (3.40 m)	11'5" (3.48 m)	11'5" (3.48 m)	13'3" (4.04 m)
Loading reach – dipper retracted	8'9" (2.67 m)	8'8" (2.64 m)	8'8" (2.64 m)	11'6" (3.50 m)
Swing arc	180°	180°	180°	180°
Bucket rotation –				
#1 position	164°	164°	164°	164°
#2 position	200°	190°	190°	190°
Stabilizer spread – operating	9'5" (2.87 m)	9'5" (2.87 m)	9'5" (2.87 m)	9'5" (2.87 m)
Digging force –				
Bucket cylinder	12,821 lbf (57 031 N)	12,821 lbf (57 031 N)	12,821 lbf (57 031 N)	12,821 lbf (57 031 N)
Dipper cylinder	8,224 lbf (36 582 N)	7,784 lbf (25 066 N)	7,784 lbf (25 066 N)	5,635 lbf (25 066 N)
	w/bucket @ 50°	w/bucket @ 50°	w/bucket @ 50°	w/bucket @ 51°
Leveling angle				
maximum slope that backhoe will make vertical cut	12°	12°	12°	12°

NOTE: Lift capacities apply straight to the rear of prime mover. Equipped with 24" (610 mm) Universal H.D. trenching bucket, Case coupler and link except as noted.

STANDARD EQUIPMENT

OPERATOR'S COMPARTMENT

See page 2

ENGINE

Case 4T-390 turbocharged diesel
Automatic fan belt tensioner
Integral engine oil cooling
Fuel filter w/water trap
Air intake pre-cleaner
Dual element air cleaner
65 amp alternator
685 CCA 12-volt battery
Heavy-duty radiator w/coolant recovery bottle
Non-spark-arresting muffler

LOADER

See page 2

BACKHOE

See page 2

POWERTRAIN

2WD
4F/4R Power shuttle synchromesh transmission
Torque converter
Transmission de-clutch
Electro-hydraulic differential lock
Hydrostatic steering
Wet disc brakes
Remote lube front axle pivot

HYDRAULICS

2-spool loader control valve
6-spool backhoe control valve
Heavy-duty oil cooler

OTHER

Forward tilt engine hood
Replaceable, molded front bumpers
Front/rear tie downs
Reflective logos
Lights - Cab and Canopy
2 Rear tail/stop
2 Front flashers/turn
2 Rear flashers/turn
4 Front & 4 rear adjustable halogen lights (55 w)

OPTIONAL EQUIPMENT

OPERATOR'S COMPARTMENT

Cab with –
Heater
Defroster
Dome light - door activated w/switch
Wipers, front and rear
Tinted glass
Floor mat
Side window partial hold open
Inside release for side windows
Operator Convenience Package
Tilt wheel
Windshield washer w/adjustable nozzles (front & rear)
Sun visor
Deluxe Cab Package
Operator Convenience Package
PLUS
Vinyl-covered interior
Radio-ready kit w/antenna and speakers
Reduced sound level to 72 dB(A)
Vinyl or cloth-covered mechanical suspension seat
Air Ride suspension seat
3" (76 mm) retractable seat belt
Cab air-conditioning, 100% filtered air, in-cab access filter, 8 adjustable roof vents, 2 floor vents, w/heater
Ride Control

Cab right door
Canopy Convenience Package
Front windshield w/wiper & washer
85 dB(A) sound
Floor mat
Sun visor

ENGINE

Cold weather ether starting aid
Alternator, 95 amp
Dual, 12-volt, 525 CCA batteries
Chaff screen
Fuel tank, 40 gal (151 L)

LOADER

Hydraulic attachment coupler
Attachment auxiliary hydraulics
Buckets (see page 2)

BACKHOE

Case integrated hydraulic coupler
Buckets (see page 2)
Extendahoe®
Two-lever control
Stabilizer pads
Flip-over
Rubber pad
Front counterweights
440 lb (200 kg)
900 lb (408 kg)

POWERTRAIN

4WD w/outboard planetary drive, on-the-go push-button activation and 12 x 16.5 front tires
Powershift transmission (4WD unit only)

HYDRAULICS

Auxiliary hydraulics for handheld equipment

OTHER

17.5L x 24 rear tires
19.5L x 24 rear tires
Tool box
Special paint
Galaxy tires - Front
4WD 12 L x 16.5 Soft Flex-Poly Fill
Galaxy tires - Rear
2/4WD 19.5 L x 24 w/Tyrllyner™

WIDE TRACK OPTION

Offset tires - rear
19.5L x 24 12PR 88" (2.24 m) track width
93" (2.36 m) long lip loader bucket

NOTE: All specifications are stated in accordance with SAE Standards or Recommended Practices, where applicable.

Form No. CE 252-10-00
Replaces Form No. - None

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CASE CONSTRUCTION EQUIPMENT CONTACT INFORMATION

NORTH AMERICA/MEXICO
700 STATE STREET
RACINE, WI 53404 U.S.A.

Visit Case Corporation on the Web at:
<http://www.casece.com>
Printed in U.S.A.

