

Cruz-Air[®] Excavator

One-engine, one-man operation

6-cylinder Case turbocharged diesel

Rubber-tired 4WD for on- and off-road versatility

1085C



case

1085C

Model 1085C Specifications

Engine

Make and model	Case 6T-590 turbocharged
Fuel	No. 2 diesel
No. of cylinders	6
Bore and stroke	4.02" x 4.72" (102 mm x 120 mm)
Displacement	359 in ³ (5883 cm ³)
Fuel supply	Low pressure transfer pump
Fuel induction	Injectors (6)
Air cleaner	Dual stage, dry-type
Oil filter	Renewable cartridge
Lubrication	Positive pressure
Cooling system	Pressurized radiator and lubricated bearing impeller pump
Horsepower	
(1) Gross SAE	148 @ 2200 rpm (110 kW @ 2200 r/min)
(2) SAE Net	133 @ 2200 rpm (99 kW @ 2200 r/min)
Torque, max. (SAE)	406 lbf-ft @ 1400 rpm (550 Nm @ 1400 r/min)

Note: Horsepower specifications are valid to 9843' (3000 m) elevation.

- (1) Gross engine horsepower and torque at flywheel per SAE Standard J1349.
(2) Net engine horsepower and torque at flywheel per SAE Standard J1349.

Electrical

Starting	24-volt electric
Batteries (2)	700 CCA @ 0°F (-18°C) at 30 sec rate
Alternator	45 amp

Hydraulic System

Pumps: One fixed displacement gear pump for the crowd circuits @ 52 gpm (197 L/min)
A tandem fixed displacement gear pump section for the hoist circuits @ 52 gpm (197 L/min) and one variable displacement pump section for the steering, brakes and pilot circuits @ 0 to 26 gpm (98 L/min)
Main relief valve pressure setting 2650 psi (18 271 kPa)
Oil cooler: Positive radiator type hydraulic oil cooler.
Control valves:
Quantity 2
Type Sectional—4 spool
Functions controlled Hoist, crowd, tool, swing and 2 auxiliary (see Hydraulic System diagram)

Cylinders: Double-acting hydraulic cylinders for hoist, crowd, outriggers, steering and optional equipment.

Hoist	6.5" x 55.4" (165 mm x 1.41 m)
Dipper, backhoe	6.5" x 50.8" (165 mm x 1.29 m)
Dipper, material handling	6.5" x 53.5" (165 mm x 1.36 m)
Tool	5.5" x 37.5" (140 mm x 953 mm)
Outrigger (2 std, 4 opt)	5.5" x 17.5" (140 mm x 445 mm)
Steering (2)	2.75" x 10" (70 mm x 254 mm)
Extendahoe® (opt)	4" x 60" (102 mm x 1.52 m)
Wrist-O-Twist® (opt)	4" x 7.5" (102 mm x 191 mm)
4-in-1® bucket (2 opt)	2.75" x 10.5" (70 mm x 267 mm)
Single-acting hydraulic cylinders for axle oscillation lock	
Axle lock (2)	3.5" x 5.35" (89 mm x 136 mm)

Cylinder cycle times (full stroke seconds)

	Std	Dual Flow
Hoist cylinder		
Extend	10.7	6.0
Retract	7.0	4.3
Tool cylinder		
Extend	4.8	2.7
Retract	3.8	2.2
Backhoe dipper cylinder		
Extend	9.0	4.6
Retract	6.4	4.3
Material handling dipper cylinder		
Extend	9.6	4.9
Retract	6.8	4.6
Extendahoe® arm (opt)		
Extend	4.1	—
Retract	3.1	—
Wrist-O-Twist® (opt)		
Extend	3.5 (approx)	—
Retract	2.5 (approx)	—
4-in-1® bucket (opt) (both cylinders)		
Extend	0.7	—
Retract	0.5	—

Breakout Force

Dipper cylinder:	
w/Extendahoe® extended	11,442 lbf (50 897 N)
w/Extendahoe® retracted	15,596 lbf (69 374 N)
Bucket	
Std pin position	19,822 lbf (88 173 N)
Power pin position	23,298 lbf (103 635 N)

Swing system: 360° continuous @ 11.5 rpm. Positive operator control with hydraulic motor, disc brake and 24.23:1 gear reducer.

Swing torque 24,884 lbf-ft (33 738 Nm)

Outriggers: 2 std, 4 opt—individually or simultaneously controlled from cab.
Lowering time 5.0 s
Raising time 5.5 s

Transmission

Make and model	Clark R18624
Type	6-speed power shift
Converter size	12.6" (320 mm)
Gear Ratios:	High Low
1st	3.94:1 8.81:1
2nd	2.00:1 4.49:1
3rd	0.70:1 1.58:1

Axles

Torque proportioning (high traction) differential
Front Planetary, steering, axle oscillates and is equipped with oscillation lockouts
Rear Planetary, rigid, non-steering, No-Spin optional

Tire Sizes

Standard—17.5 x 25, 16 PR
Optional—17.5 x 25, 12 PR Super Ground Grip
Optional—17.5 x 25, Michelin XRAT®

Travel Speeds (Forward & Reverse)

Unit equipped with 17.5 x 25 tires.	
	High Low
1st	6.7 mph 3.1 mph (10.8 km/h) (5.0 km/h)
2nd	12.7 mph 5.9 mph (20.4 km/h) (9.5 km/h)
3rd	29.1 mph 15.8 mph (46.8 km/h) (25.4 km/h)

Drawbar Pull

	High Low
1st	12,016 lbf 27,856 lbf (53.4 kN) (123.9 kN)
2nd	5705 lbf 13,805 lbf (25.4 kN) (61.4 kN)
3rd	1477 lbf 4339 lbf (6.6 kN) (19.3 kN)
3% grade speed (max.)	12.4 mph (20.0 km/h)

Brakes

Service Hydraulic dry disc on each wheel, foot-operated
Parking Spring applied, hydraulic released. Located on rear drive shaft
Working Hydraulic at each wheel.
Hand-operated

Model 1085C Specifications

Maximum Gradeability* (Paved Surface)

With no load & 17.5 x 25 tires 95%

*Gradeability is a measure of tractive effort only and does not represent grades on which the machine can operate.

Turning Radius

Inside curb 15'7" (4.75 m)

Outside 25'6" (7.77 m)

Service Capacities

	U.S.	Liters
Fuel tank	75 gal	284
Hydraulic system (complete)	75 gal	284
Hydraulic reservoir	35 gal	132
Cooling system	9 gal	34
Engine oil (w/filter)	17 qt	16.1
Swing gearbox	8.5 qt	8
Transmission & torque converter	21 qt	19.9

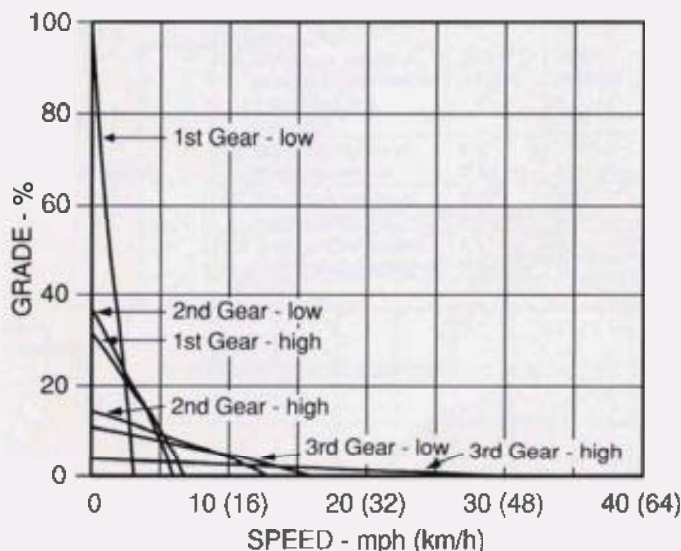
Operating Weights

Standard excavator w/rigid dipper, 17.5 x 25, 16PR tires, standard cab with heater, rear (std) outriggers, 60" (1.5 m) ditch forming bucket, Wrist-O-Twist,® full fuel and 175 lb (79 kg) operator 39,435 lb (17 884 kg)

Standard excavator w/Extendahoe,® 17.5 x 25, 16PR tires, standard cab with heater, front and rear (opt) outriggers, 36" (914 mm), 0.59 yd³ (0.45 m³) backhoe bucket, full fuel and 175 lb (79 kg) operator 40,960 lb (18 576 kg)

Standard material handler w/19' (5.8 m) material handling boom, 12'6" (3.8 m) material handling dipper, 17.5 x 25, 16 PR tires, logger cab with heater and 30" (762 mm) riser, wide stance front and rear (std on material handling unit) outriggers, boom work lights, 3/4-cord pulpwood grapple with holding chain (allied attachment), full fuel and 175 lb (79 kg) operator 41,091 lb (18 639 kg)

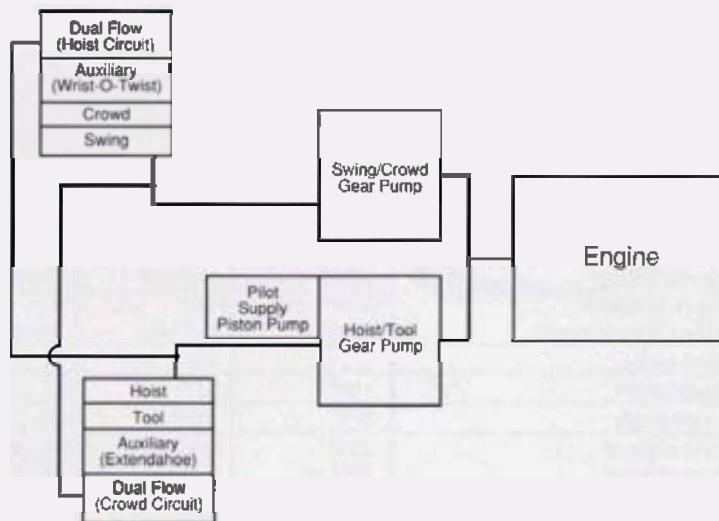
Grade Capabilities vs. Travel Speed



The 1085C's high-torque engine and 6-speed transmission—under full control of the operator at all times from the unit's single operator's cab—offer a unique combination of on- and off- road travel speed and grade climbing capabilities unmatched in the mobile excavator market.

Note: This chart is based on a gross vehicle weight of 40,000 lb (18 144 kg). Values will vary dependent on actual weight, tire pressure and road surface.

1085C Dual-Flow Hydraulic System



The 1085C's series-to-parallel hydraulic circuitry for hoist and tool (or auxiliary) control and similar circuitry for swing and crowd (or second auxiliary) control permit simultaneous operation of these functions.

The unit's dual-flow feature automatically increases flow to the operating component when only one circuit is being used. For example, if no work functions in the hoist/tool circuit are being used, the flow from both pumps is made available to the swing/crowd circuit. Likewise, if the swing/crowd circuit is not in use, both pump flows are available to the hoist/tool circuit. This combined flow produces higher operating speeds for single-function operations such as hoisting from a trench or swinging 180 degrees, and the increase in speed can increase productivity.

Operating Data

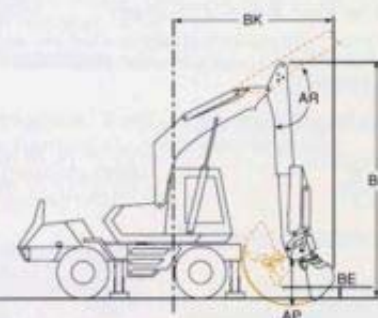
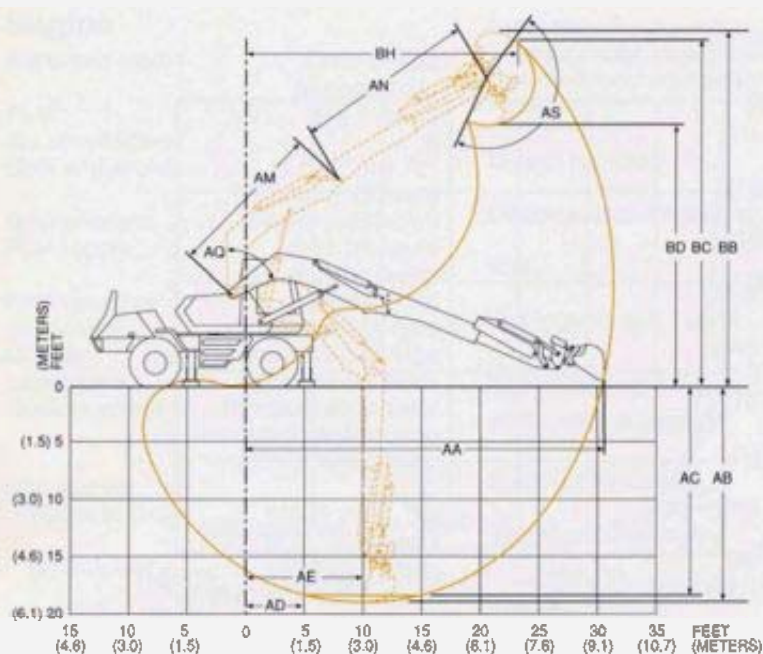


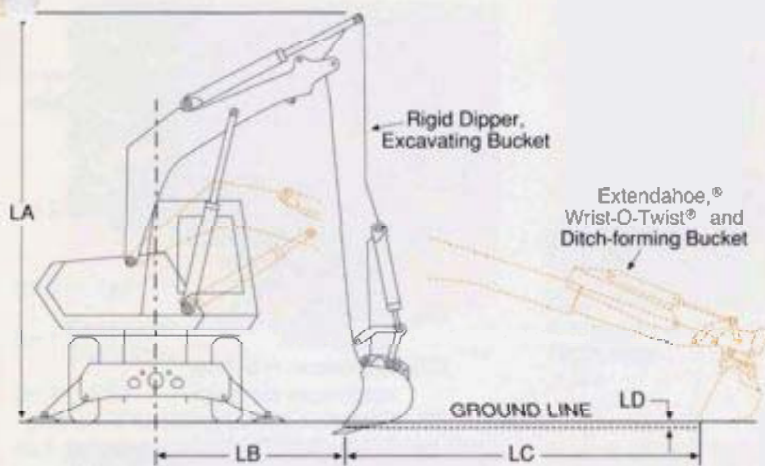
Illustration shows unit with Extendahoe® dipper, Wrist-O-Twist® and ditch bucket. However, the description references apply to all configurations listed below.

Excavating Capabilities—U.S. (Metric)

	Style of Dipper Type of Bucket Length of Dipper	Rigid Excavator Fixed	Extendahoe® Excavator		Extendahoe® Ditch w/W-O-T*		Extendahoe® 4-in-1® Shovel	
			Extended	Retracted	Extended	Retracted	Extended	Retracted
AA	Maximum reach at grade level	30'6" (9.30 m)	30'7" (9.32 m)	25'6" (7.77 m)	30'8" (9.35 m)	25'7" (7.80 m)	31'10" (9.70 m)	25'1" (7.65 m)
AB	Maximum digging depth (tip of teeth)	18'10" (5.74 m)	18'10" (5.74 m)	13'10" (4.22 m)	18'11" (5.77 m)	13'11" (4.24 m)	19'3" (5.87 m)	14'3" (4.34 m)
AC	Maximum depth of cut for 8' (2.44 m) level bottom	18'5" (5.61 m)	18'5" (5.61 m)	13'3" (4.04 m)	18'6" (5.64 m)	13'4" (4.06 m)	NA	NA
AD	Minimum radius of 8' (2.44 m) level bottom at depth AC	6'2" (1.88 m)	6'2" (1.88 m)	6'2" (1.88 m)	6'2" (1.88 m)	6'2" (1.88 m)	NA	NA
AE	Radius of maximum digging depth	10'2" (3.10 m)	10'2" (3.10 m)	10'2" (3.10 m)	10'2" (3.10 m)	10'2" (3.10 m)	10'2" (3.10 m)	10'2" (3.10 m)
AM	Boom length (boom pivot to dipper pivot)	13'8" (4.17 m)	13'8" (4.17 m)	13'8" (4.17 m)	13'8" (4.17 m)	13'8" (4.17 m)	13'8" (4.17 m)	13'8" (4.17 m)
AN	Dipper length (dipper pivot to bucket pivot)	15'0" (4.57 m)	15'0" (4.57 m)	10'1" (3.07 m)	15'0" (4.57 m)	10'1" (3.07 m)	15'0" (4.57 m)	10'1" (3.07 m)
AP	Bucket tooth radius (bucket pivot to tip of teeth)	4'1" (1.24 m)	4'1" (1.24 m)	4'1" (1.24 m)	4'2" (1.27 m)	4'2" (1.27 m)	4'6" (1.37 m)	4'6" (1.37 m)
AQ	Boom pivot angle	81°	81°	81°	81°	81°	81°	81°
AR	Dipper pivot angle	116°	117°	117°	117°	117°	117°	117°
AS	Bucket pivot angle	171°	169°	169°	169°	169°	169°	169°
BB	Maximum height of working equipment	29'9" (9.07 m)	29'10" (9.09 m)	27'4" (8.33 m)	30'6" (9.30 m)	28'0" (8.53 m)	31'0" (9.45 m)	28'6" (8.69 m)
BC	Maximum bucket teeth height	29'5" (8.97 m)	29'5" (8.97 m)	26'9" (8.15 m)	29'10" (9.09 m)	27'4" (8.33 m)	31'0" (9.45 m)	28'6" (8.69 m)
BD	Minimum clearance of bucket teeth with bucket pivot at maximum height	22'3" (6.78 m)	22'4" (6.81 m)	19'10" (6.05 m)	22'4" (6.81 m)	19'10" (6.05 m)	22'7" (6.88 m)	20'1" (6.12 m)
BE	Minimum clearance of fully curled bucket at maximum boom height	1'11" (.58 m)	1'11" (.58 m)	6'11" (2.11 m)	0'9" (.23 m)	5'9" (1.75 m)	NA	NA
BH	Radius of bucket teeth at maximum height	23'7" (7.19 m)	23'9" (7.24 m)	19'5" (5.92 m)	23'4" (7.11 m)	19'0" (5.79 m)	19'5" (5.92 m)	15'1" (4.60 m)
BK	Maximum working equipment radius with boom at maximum height and dipper fully retracted	13'6" (4.11 m)	13'6" (4.11 m)	13'3" (4.04 m)	13'11" (4.24 m)	13'7" (4.14 m)	NA	NA
BL	Maximum height of working equipment with dipper fully retracted	20'5" (6.22 m)	20'5" (6.22 m)	20'5" (6.22 m)	20'5" (6.22 m)	20'5" (6.22 m)	20'5" (6.22 m)	20'5" (6.22 m)

* Wrist-O-Twist®

Operating Data



Level Grading Capabilities—U.S. (Metric)

Style of Dipper Type of Bucket	Rigid Excavator	Extendahoe® Excavator	Extendahoe® Ditch w/W-O-T*
Description			
LA Maximum height of working equipment in a level-grading operation	20'5" (6.22 m)	15'9" (4.80 m)	16'3" (4.95 m)
LB Minimum radius of level-grading cut	9'3" (2.82 m)	7'11" (2.41 m)	8'4" (2.54 m)
LC Maximum length of level-grading cut	16'8" (5.08 m)	18'1" (5.51 m)	17'11" (5.46 m)
LD Depth below ground line of level-grading cut	4.5" (114 mm)	0 (0)	0 (0)

* Wrist-O-Twist®

Excavator Lift Efforts—lb (kg) with Rigid Dipper

Distance From Groundline	Distance from Centerline of Rotation							
	10' (3.05 m)		15' (4.57 m)		20' (6.10 m)		25' (7.62 m)	
	End	Side	End	Side	End	Side	End	Side
+20' (6.10 m)							5958 (2703)	4761* (2160)
+15' (4.57 m)							6539 (2966)	4732* (2146)
+10' (3.05 m)							6843 (3104)	4575* (2075)
+5' (1.52 m)					8546 (3876)	6605* (2996)	7204 (3268)	4372* (1983)
0 Groundline	18388 (8341)	18388 (8341)	12323 (5590)	10092* (4578)	9304 (4220)	6213* (2818)	7254 (3290)	4195* (1903)
-5' (1.52 m)	17919 (8128)	17919 (8128)	12886 (5845)	9560* (4336)	9268 (4204)	5960* (2703)	5931 (2690)	4148* (1881)
-10' (3.05 m)	17418 (7901)	17418 (7901)	11427 (5183)	9395* (4261)	7217 (3274)	5945* (2697)		
-15' (4.57 m)	10209 (4631)	10209 (4631)	5237 (2375)	5237 (2375)				

Excavator Lift Efforts—lb (kg) with Extendahoe® Extended

Distance From Groundline	Distance from Centerline of Rotation							
	10' (3.05 m)		15' (4.57 m)		20' (6.10 m)		25' (7.62 m)	
	End	Side	End	Side	End	Side	End	Side
+20' (6.10 m)							5584 (2533)	4348* (1972)
+15' (4.57 m)							5969 (2707)	4305* (1953)
+10' (3.05 m)							6241 (2831)	4114* (1866)
+5' (1.52 m)					7884 (3576)	6094* (2764)	6567 (2979)	3874* (1757)
0 Groundline	17400 (7893)	17400 (7893)	11516 (5224)	9420* (4273)	8584 (3894)	5636* (2556)	6590 (2989)	3671* (1665)
-5' (1.52 m)	18426 (8358)	18298* (8300)	12015 (5450)	8811* (3997)	8516 (3863)	5349* (2426)	5267 (2389)	3632* (1647)
-10' (3.05 m)	16308 (7397)	16308 (7397)	10548 (4784)	8644* (3921)	6471 (2935)	5355* (2429)		
-15' (4.57 m)	9161 (4155)	9161 (4155)	4408 (1999)	4408 (1999)				

Excavator Lift Efforts—lb (kg) with Extendahoe® Retracted

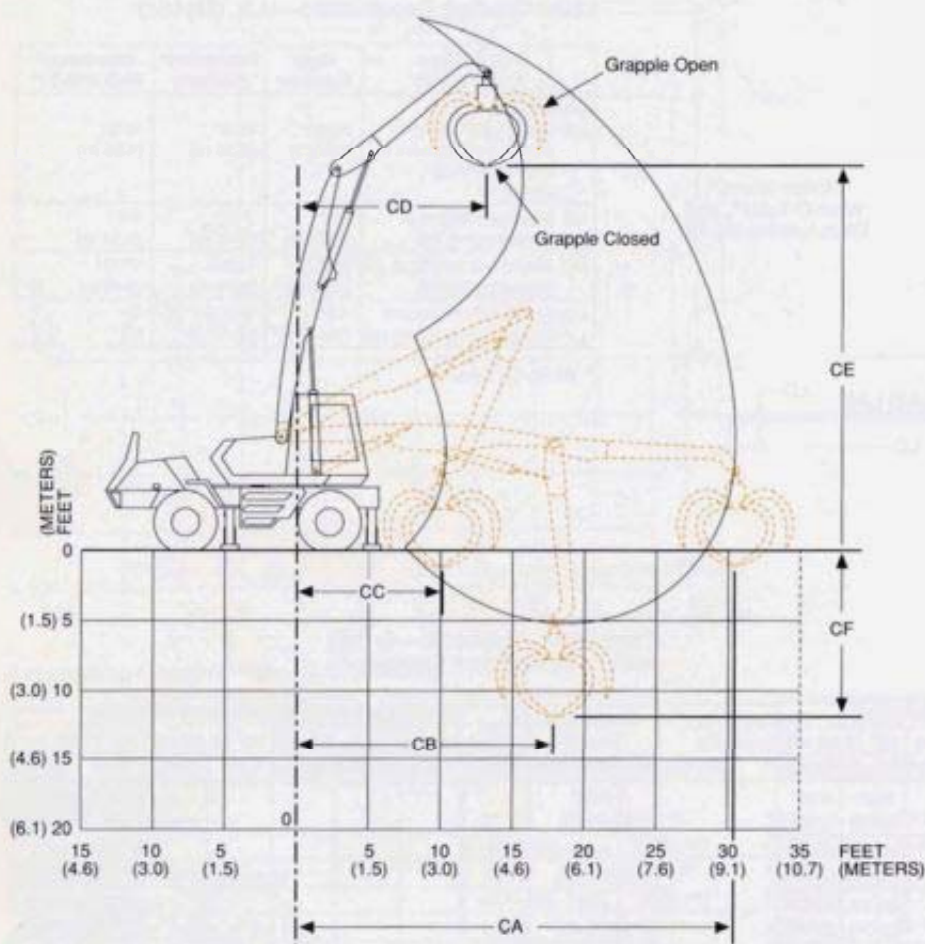
Distance From Groundline	Distance from Centerline of Rotation							
	10' (3.05 m)		15' (4.57 m)		20' (6.10 m)		25' (7.62 m)	
	End	Side	End	Side	End	Side	End	Side
+20' (6.10 m)					8078 (3664)	6483* (2941)		
+15' (4.57 m)					8050 (3651)	6415* (2910)		
+10' (3.05 m)					8450 (3833)	6079* (2757)		
+5' (1.52 m)	17410 (7897)	17410 (7897)	11674 (5295)	9495* (4307)	8812 (3997)	5705* (2588)		
0 Groundline	18379 (8337)	18219* (8264)	12067 (5473)	8879* (4027)	8460 (3837)	5469* (2481)		
-5' (1.52 m)	16202 (7349)	16202 (7349)	10549 (4785)	8719* (3955)				
-10' (3.05 m)	9157 (4154)	9157 (4154)						

Notes:

* Indicates tipping load.

Excavator lift values are based on standard unit equipped with 30" (0.76 m) excavator bucket, 9400 lb (4264 kg) counterweight and rear outriggers in use on a firm-supporting, level surface. Rated loads do not exceed 87% of hydraulic capacity nor 75% of stability. All specifications comply with SAE J1097.

Operating Data



Pulpwood Logger Performance Specifications—U.S. (Metric)

With 19' (5.8 m) Material Handling Boom, 12'6" (3.8 m) Material Handling Dipper, 8' (2.4 m), 3/4 cord (2.7 m³) grapple.

- CA. Maximum reach at at grade level 30'2" (9.2 m)
- CB. Reach w/attachment at max distance below ground line 17'11" (5.5 m)
- CC. Minimum reach at grade level 10'1" (3.1 m)
- CD. Maximum reach at maximum elevation 13'1" (4 m)
- CE. Distance above grade of 8' (2.4 m) 3/4 cord (2.7 m³) attachment at max elevation
 - Grapple open 28'5" (8.7 m)
 - Grapple closed 27'1" (8.3 m)
- CF. Distance below grade of 8' (2.4 m) 3/4 cord (2.7 m³) attachment at min elevation
 - Grapple open 10'6" (3.2 m)
 - Grapple closed 11'10" (3.6 m)

Lift Efforts—lb (kg)

with 19' (5.8 m) Material Handling Boom and 12'6" (3.8 m) Material Handling Dipper, without grapple or holding chains

Distance From Groundline	Distance from Centerline of Rotation									
	10' (3.05 m)		15' (4.57 m)		20' (6.10 m)		25' (7.62 m)		30' (9.14 m)	
	Rear	Side	Rear	Side	Rear	Side	Rear	Side	Rear	Side
+25' (7.62 m)					10997 (4988)	10997 (4988)	8389 (3805)	8389 (3805)		
+20' (6.10 m)			13208 (5991)	13208 (5991)	11262 (5108)	11262 (5108)	9917 (4498)	9917 (4498)		
+15' (4.57 m)	19598 (8889)	19598 (8889)	14587 (6617)	14587 (6617)	11868 (5383)	11868 (5383)	10095 (4579)	10095 (4579)		
+10' (3.05 m)			16130 (7316)	16130 (7316)	12530 (5684)	12530 (5684)	10289 (4667)	10289 (4667)	7547 (3423)	7547 (3423)
+5' (1.52 m)	10429 (4731)	10429 (4731)	16982 (7703)	16982 (7703)	12861 (5834)	12861 (5834)	10232 (4641)	10232 (4641)	7230 (3279)	7230 (3279)
0 Groundline	12160 (5516)	12160 (5516)	16443 (7458)	16443 (7458)	12436 (5641)	12436 (5641)	9560 (4336)	9560 (4336)		

Note:

Material handling lift values are based on standard unit equipped with material handling boom and dipper, and front and rear outriggers in use, but without grapple or holding chains. These values are 100% of actual boom hoist capacity with unit on firm-supporting, level surface. Lifting loads without outriggers down or over front of machine is limited by stability constraints in all cases.

For safe working loads, the user is expected to make due allowance for specific job conditions such as soft or uneven ground, out-of-level conditions, experience of personnel, alternate machine equipment, etc. The operator and other personnel should acquaint themselves fully with the Operator's Manual furnished by the manufacturer before operating this machine, and the rules for safe operation should be followed at all times.



Excavator w/rigid dipper
Right side.



Excavator w/Extendahoe
Right side.



Material handling unit
Right side.



Excavator w/rigid dipper
Right side, transport configuration.



Excavator w/Extendahoe
Right side, transport configuration.



Material handling unit
Right side, transport configuration.



Excavator w/rigid dipper
Left side, transport configuration.

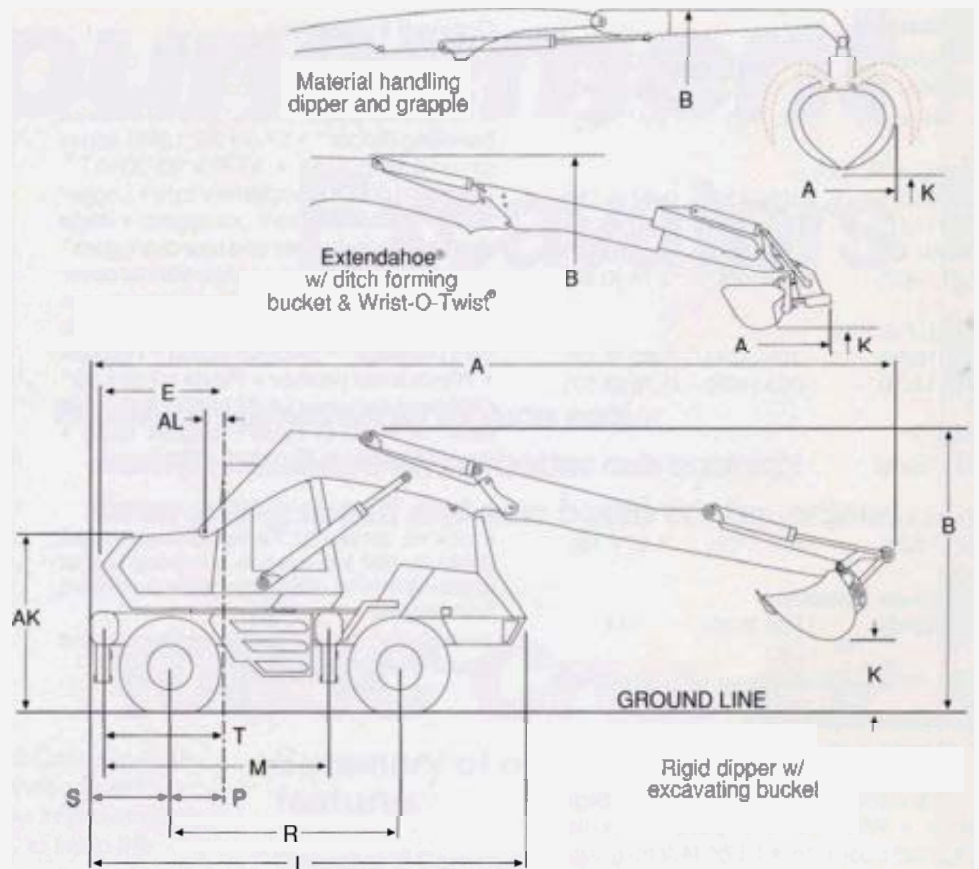
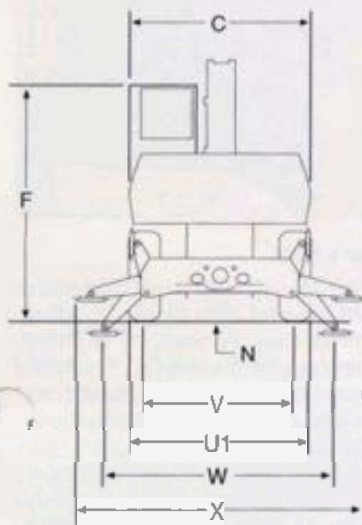


Excavator w/Extendahoe
Left side, transport configuration.



Material handling unit
Left side, transport configuration.

Dimensional Data



Dimensional Data

Roading Dimensions—U.S. (Metric)

- A. Overall length, transport position:
 Rigid dipper w/excav. bucket 34'9" (10.59 m)
 Extendahoe® w/excav. bucket 29'11" (9.12 m)
 Extendahoe® w/ditch bucket
 & Wrist-O-Twist® . . . 30'5" (9.27 m)
 Material handling . . . 38'10" (11.84 m)
- AK. Boom pivot to groundline 8'2" (2.49 m)
- AL. Boom pivot to axis of rotation 12.6" (320 mm)
- B. Overall height, transport position:
 Rigid dipper w/excav. bucket 12'8" (3.86 m)
 Extendahoe® w/excav. bucket 12'8" (3.86 m)
 Extendahoe® w/ditch bucket
 & Wrist-O-Twist® . . . 12'8" (3.86 m)
 Material handling . . . 11'8" (3.56 m)
- C. Width of upper structure 8'1" (2.46 m)
- E. Swing clearance, axis of rotation to rear corner of upper structure . . . 7'0" (2.13 m)

- F. Height to top of cab 11'2" (3.40 m)
- K. Clearance, attachment in transport position:
 Rigid dipper w/excav. bucket 3'1" (940 mm)
 Extendahoe® w/excav. bucket 3'7" (1.09 m)
 Extendahoe® w/ditch bucket
 & Wrist-O-Twist® . . . 4'4" (1.32 m)
 Material handling . . . 3'1" (940 mm)
- L. Overall length of undercarriage 19'2" (5.84 m)
- M. Outrigger frames, center to center . . . 9'11" (3.02 m)
- N. Ground clearance . . . 1'4" (406 mm)
- P. Rear axle to axis of rotation 2'6" (762 mm)
- R. Wheelbase 10'1" (3.07 m)
- S. Rear axle to rear of frame 3'6" (1.07 m)
- T. Axis of rotation to rear outriggers . . . 5'5" (1.65 m)

- U1. Max. overall width w/outriggers retracted:
 Rigid dipper w/excav. bucket 8'6" (2.59 m)
 Extendahoe® w/excav. bucket 8'6" (2.59 m)
 Extendahoe® w/ditch bucket
 & Wrist-O-Twist® . . . 8'6" (2.59 m)
 Material handling . . . 9'11" (3.02 m)
- V. Tread width w/17.25 tires 7'0" (2.13 m)
- W. Effective spread of extended outriggers:
 Rigid dipper w/excav. bucket 10'7" (3.23 m)
 Extendahoe® w/excav. bucket 10'7" (3.23 m)
 Extendahoe® w/ditch bucket
 & Wrist-O-Twist® . . . 10'7" (3.23 m)
 Material handling . . . 12'0" (3.66 m)
- X. Max. width over pads w/outriggers extended:
 Rigid dipper w/excav. bucket 13'2" (4.01 m)
 Extendahoe® w/excav. bucket 13'2" (4.01 m)
 Extendahoe® w/ditch bucket
 & Wrist-O-Twist® . . . 13'2" (4.01 m)
 Material handling . . . 14'0" (4.27 m)



Four-wheel drive standard

Four-wheel-drive power and torque proportioning differentials are standard. A no-spin rear axle is available as an option.



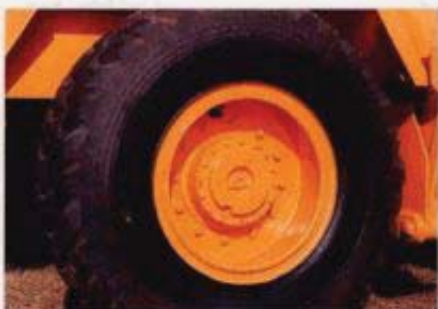
Standard outriggers

Hydraulic front (optional) and rear (standard) outriggers protect stability when lifting heavy loads.



Wide-stance outriggers

Wide-stance hydraulic front and rear outriggers are used for material handling applications.



Outboard planetaries

Outboard planetary final reduction puts less torque on axles and simplifies servicing.



Excavator rear view

The standard rear outriggers are shown in their retracted positions.



Material handling rear view

Wide-stance outriggers and the logger cab on a 30" (762 mm) riser are frequently recommended for pulpwood handling applications.



Excavator buckets

Excavator buckets are shown with Wrist-O-Twist® on a rigid dipper (left) and mounted directly to an Extendahoe®.



Ditch-forming buckets

The 1085C with a 60" (1.5 m) or 72" (1.8 m) wide ditch-forming bucket, Wrist-O-Twist®, and Extendahoe® are frequently used for ditch cleaning applications.



Pulpwood grapple

This 8' (2.4 m), 3/4 cord (2.7 m³) pulpwood grapple (an allied item) and the 1085C material handling unit make an excellent pulpwood logger.

Equipment Data

Buckets

Nominal Bucket Width in (mm)	Weight lb (kg)	SAE Capacity (Struck) yd ³ (m ³)
General Purpose		
24 (610)	925 (420)	0.37 (0.28)
30 (762)	1030 (467)	0.50 (0.38)
36 (914)	1130 (513)	0.62 (0.47)
42 (1067)	1235 (560)	0.74 (0.57)
Ditch Forming		
60 (1524)	1005 (456)	0.63 (0.48)
72 (1829)	1075 (488)	0.75 (0.57)
4-in-1®		
60 (1524)	1612 (731)	1.25 (0.96)

Front Loading		
60 (1524)	1626 (738)	1.5 (1.15)

Concrete Removal		
48 (1219)	1850 (839)	NA

Note: For heaped capacities, add approximately 20%.

Standard Equipment

Enclosed, total vision, vandal-resistant cab
• Tinted windows • Adjustable bucket seat
• Cab controls for all operations • Signal horn • Windshield wipers • Auxiliary hydraulic controls • 13'8" (4.2 m) grading and excavating boom • Fast hoist, crowd and tool • Swing brake • Positive oil cooler • Hydraulic oil filters • Hydraulic rear outriggers • Hydraulic service and working brakes • Parking brake — spring-applied, hydraulic-released, on drive shaft • Turn signals • Head and tail lights • Four-wheel drive • Planetary axles • Front-wheel full-power steering • 17.5 x 25, 16PR tires • Power shift transmission, forward and reverse • Torque converter • Torque proportioning differentials • Electric engine hour meter • Fuel gauge • Dry-type air cleaner • Cold-weather start kit • Remote boom and swing lubrication • Master battery disconnect switch.

Sold and serviced by:

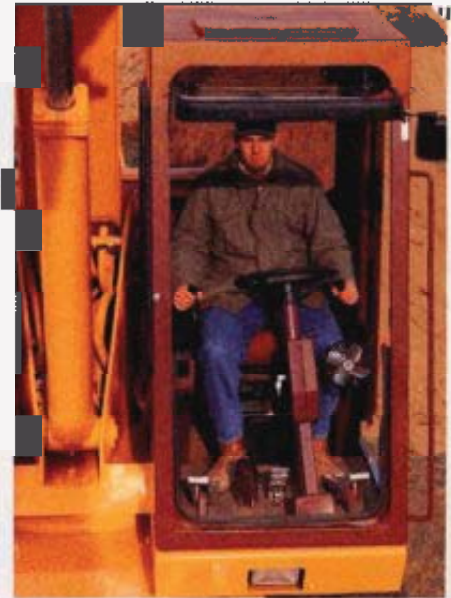
Optional Equipment

19' (5.8 m) material handling boom*
• 15' (4.6 m) rigid dipper • 15' (4.6 m) Extendahoe dipper • 12'6" (3.8 m) material handling dipper* • 17.5 x 25, 12PR super ground grip tires • 17.5 x 25 XRAT* (Michelin) tires • No-spin rear axle • Logger cab* • Hydraulic front outriggers • Wide stance hydraulic front and rear outriggers* • Secondary steering • Upper vandal cover • Cab heater, LP gas • Excavator boom work light package • Log-loader boom work light package* • Back-up alarm • Tool box • Windshield washer • Pintle hitch • 30" (762 mm) cab riser* • 60" (1524 mm) cab riser* • Wrist-O-Twist® w/quick latch • Various buckets (See list) • Lift lugs.

Notes:

8' (2.4 m), 3/4 cord (2.7 m³) pulpwood grapple (2000 lb, 907 kg) used in pulpwood logger application is an allied item to be purchased from supplier.

*Indicates equipment usually used in pulpwood logger application.



Operator's Cab

All controls for both the lower and upper works are located in a single, all-steel, weatherproof cab. Windshield of tinted, tempered glass slides open and is stored in an up-and-over position. Side and rear windows are of tinted Lexan® (Option: logger cab is of heavier construction, uses 0.25" (6.4 mm) ground and polished safety glass for all windows) Separate hand controls for digging and parking brakes, swing brake, ignition, directional lights, engine throttle and lock, and steering reversal are all standard controls in the cab. (Operator controls can be interchanged to satisfy operating techniques of most operators.)



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

Important

JI Case reserves the right to change these specifications without notice and without incurring any obligation relating to such change. Unit shown on front cover may be equipped with non-standard equipment.

JI Case

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