

CX130 Excavator



ENGINE

Model..... Case 4TA-390
Type 4-stroke, turbocharged
and aftercooled
Cylinders..... 4
Bore/Stroke 4.02" x 4.72"
(102 x 120 mm)
Displacement 239 in³ (3.9 L)
Fuel injection..... Direct
Fuel..... Diesel
Cooling Liquid
Horsepower per SAE J1349
Net 106 hp (79 kW) @ 2200 rpm
Maximum torque @ 1450 rpm
Net 325 lb-ft (449 N-m)

BOOM/ARM

Boom

Length..... 15'2" (4.63 m)
Boom w/arm cylinder
& plumbing 2,202 lb (1001 kg)
Hoist cylinders.. 255 lb (116 kg) ea
Total boom..... 2,712 lb (1230 kg)

10' Arm (3.05 m)

Length..... 10' (3.05 m)
Bare arm..... 924 lb (420 kg)
Bucket cylinder linkage
& plumbing 469 lb (213 kg)
Total arm weight.. 1,393 lb (633 kg)

8'2" Arm (2.5 m)

Length..... 8'2" (2.5 m)
Bare arm..... 768 lb (349 kg)
Bucket cylinder linkage
& plumbing 469 lb (213 kg)
Total arm weight.. 1,237 lb (561 kg)

UNDERCARRIAGE

Number of top rollers
Top, each track..... 1
Bottom, each track..... 7
Number of shoes
Triple grouser – each track 42
Link pitch 6.75" (171 mm)

HYDRAULICS

Pumps (2)..... Variable displacement
axial piston design
Capacity –
Maximum..... 2 x 32.4 gpm
(122.7 L/min)
System relief pressure –
Standard 4975 psi (34.3 MPa)
Power Boost... 5265 psi (36.3 MPa)
Control valves –
5-spool section for right track
travel, auxiliary, swing, arm and
boom #2
4-spool section for left track
travel, boom, bucket and arm #2
Boom and arm holding valves

Pilot control hydraulic system –
Pump (1)..... Gear design
Maximum capacity 6.0 gpm
(22.8 L/min)
Relief pressure 566 psi (3.9 MPa)

Swing –
Motor (1) Fixed displacement
axial piston design
Speed..... 0-13.4 rpm
Brake..... Spring-applied
mechanical disc
Tail swing radius.... 6'11" (2.12 m)

Travel –
Motor (2) Two-speed
axial piston design
Final drive..... Planetary gear
reduction
Drawbar pull.... 22,481 lb (100 kN)

Travel Speeds –
Auto shift high to low
Forward/Reverse
Low 2.1 mph (3.4 km/h)
High..... 3.4 mph (5.5 km/h)

Travel control valve –
Dual stage relief and counter-
balance design with disc-type brakes

HYDRAULIC CYLINDERS

Boom cylinders (2) –
Bore diameter..... 4.1" (105 mm)
Rod diameter 2.8" (70 mm)
Stroke 39" (990 mm)
Arm cylinder (1) –
Bore diameter..... 4.5" (115 mm)
Rod diameter 3.1" (80 mm)
Stroke..... 43.6" (1108 mm)
Bucket cylinder (1) –
Bore diameter..... 3.7" (95 mm)
Rod diameter 2.6" (65 mm)
Stroke 34.7" (881 mm)

ELECTRICAL

Voltage 24 volts,
negative ground
Alternator..... 45 amp
Batteries (2) Low-maintenance
120 Ah (20 hr rate)

SERVICE CAPACITIES

Hydraulic tank
Refill capacity..... 19 gal (73 L)
Total system 32 gal (123 L)
Final drive (per side)..... 3.2 qt (3 L)
Swing drive..... 2.3 qt (2.2 L)
Engine
w/filter change..... 10.8 qt (10.2 L)
Fuel..... 66 gal (250 L)
Radiator 18.8 qt (17.7 L)

OPERATING WEIGHT

With 8'2" (2.5 m) arm, 23.6"
(600 mm) track shoes, 884 lb
(401 kg) bucket, 165 lb (75 kg)
operator, full fuel and standard
equipment..... 26,920 lb (12 211 kg)

LIFT CAPACITIES

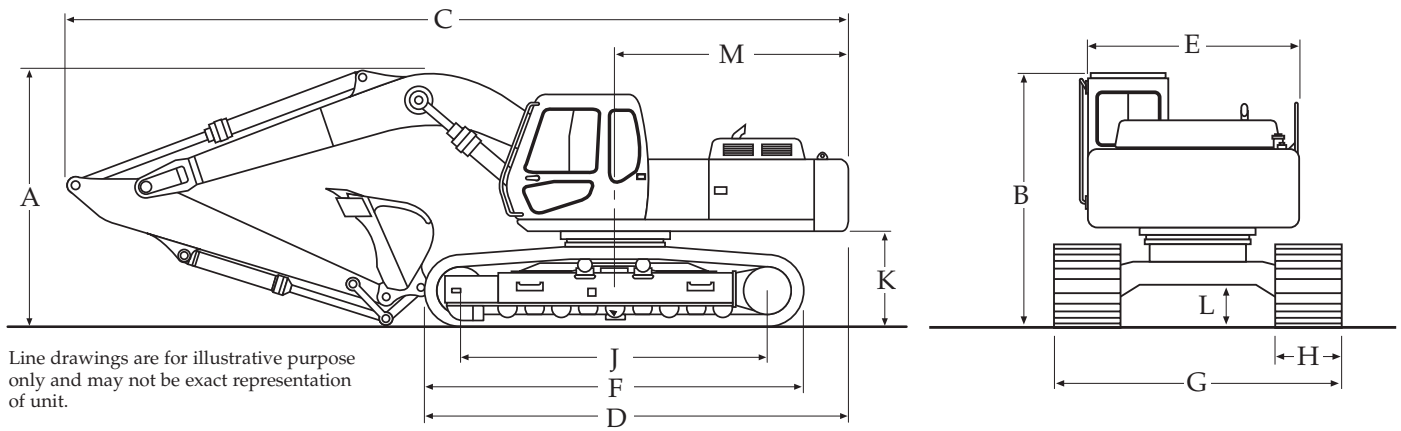
10'0" (3.05 m) Arm Lift capacities are calculated using a 860 lb (390 kg) bucket and 5,070 lb (2300 kg) counterweight in "Fine" Mode

Load (Lift Point) Height	5' (1.52 m)		10' (3.05 m)		15' (4.57 m)		20' (6.1 m)		25' (7.62 m)		MAXIMUM REACH		
	END	SIDE	END	SIDE	END	SIDE	END	SIDE	END	SIDE	@	END	SIDE
+20' (6.1 m)					4,651 lb* (2110 kg)	4,651 lb* (2110 kg)					19'8" (6.0 m)	4,118 lb* (1868 kg)	4,118 lb* (1868 kg)
+15' (4.57 m)					5,224 lb* (2370 kg)	5,224 lb* (2370 kg)	5,707 lb* (2589 kg)	4,100 lb (1860 kg)			23'0" (7.01 m)	3,451 lb* (1565 kg)	3,082 lb (1398 kg)
+10' (3.05)			8,024 lb* (3640 kg)	8,024 lb* (3640 kg)	6,997 lb* (3174 kg)	6,456 lb (2928 kg)	5,536 lb (2511 kg)	3,911 lb (1774 kg)			24'8" (7.52 m)	3,523 lb* (1598 kg)	2,606 lb (1182 kg)
+5' (1.52 m)			14,264 lb* (6470 kg)	11,279 lb (5116 kg)	8,489 lb (3851 kg)	5,881 lb (2668 kg)	5,263 lb (2387 kg)	3,656 lb (1658 kg)	3,579 lb (1623 kg)	2,430 lb (1102 kg)	25'2" (7.67 m)	3,538 lb (1605 kg)	2,400 lb (1089 kg)
Ground- line			16,018 lb (7266 kg)	10,158 lb (4608 kg)	7,956 lb (3609 kg)	5,399 lb (2449 kg)	5,017 lb (2276 kg)	3,426 lb (1554 kg)			24'8" (7.52 m)	3,565 lb (1617 kg)	2,398 lb (1088 kg)
-5' (-1.52 m)	10,698 lb* (4853 kg)	10,698 lb* (4853 kg)	15,578 lb (7066 kg)	9,791 lb (4441 kg)	7,676 lb (3482 kg)	5,145 lb (2334 kg)	4,876 lb (2212 kg)	3,294 lb (1494 kg)			23'1" (7.03 m)	3,913 lb (1775 kg)	2,632 lb (1194 kg)
-10' (-3.05 m)	16,382 lb* (7431 kg)	16,382 lb* (7431 kg)	15,645 lb (7096 kg)	9,846 lb (4466 kg)	7,653 lb (3471 kg)	5,123 lb (2324 kg)	4,906 lb (2225 kg)	3,322 lb (1507 kg)			20'1" (6.12 m)	4,862 lb (2205 kg)	3,293 lb (1494 kg)
-15' (-4.57 m)	24,632 lb* (11 173 kg)	24,632 lb* (11 173 kg)	14,708 lb* (6671 kg)	10,253 lb (4651 kg)	7,945 lb (3604 kg)	5,388 lb (2444 kg)					15'0" (4.57 m)	7,911 lb (3588 kg)	5,367 lb (2434 kg)

8'2" (2.5 m) Arm Lift capacities are calculated using a 860 lb (390 kg) bucket and 5,070 lb (2300 kg) counterweight in "Fine" Mode

Load (Lift Point) Height	5' (1.52 m)		10' (3.05 m)		15' (4.57 m)		20' (6.1 m)		MAXIMUM REACH		
	END	SIDE	END	SIDE	END	SIDE	END	SIDE	@	END	SIDE
+20' (6.1 m)					5,961 lb* (2704 kg)	5,961 lb* (2704 kg)			17'0" (5.18 m)	5,051 lb* (2291 kg)	5,051 lb* (2291 kg)
+15' (4.57 m)					6,444 lb* (2923 kg)	6,444 lb* (2923 kg)	5,493 lb* (2492 kg)	4,030 lb (1828 kg)	21'4" (6.5 m)	3,316 lb* (1504 kg)	3,316 lb* (1504 kg)
+10' (3.05)	20,101 lb* (9118 kg)	20,101 lb* (9118 kg)	10,506 lb* (4765 kg)	10,506 lb* (4765 kg)	8,182 lb* (3711 kg)	6,318 lb (2866 kg)	5,489 lb (2490 kg)	3,874 lb (1757 kg)	23'1" (7.03 m)	3,374 lb* (1530 kg)	2,965 lb (1345 kg)
+5' (1.52 m)			16,461 lb* (7467 kg)	10,887 lb (4938 kg)	8,381 lb (3802 kg)	5,793 lb (2628 kg)	5,252 lb (2382 kg)	3,653 lb (1657 kg)	23'8" (7.2 m)	3,662 lb* (1661 kg)	2,733 lb (1240 kg)
Ground- line	5,884 lb* (2669 kg)	5,884 lb* (2669 kg)	15,909 lb (7216 kg)	10,084 lb (4574 kg)	7,944 lb (3603 kg)	5,397 lb (2448 kg)	5,054 lb (2292 kg)	3,468 lb (1573 kg)	23'1" (7.03 m)	4,033 lb (1829 kg)	2,753 lb (1249 kg)
-5' (-1.52 m)	11,873 lb* (5386 kg)	11,873 lb* (5386 kg)	15,721 lb (7131 kg)	9,928 lb (4503 kg)	7,761 lb (3520 kg)	5,231 lb (2373 kg)	4,974 lb (2256 kg)	3,393 lb (1539 kg)	21'5" (6.53 m)	4,507 lb (2044 kg)	3,076 lb (1395 kg)
-10' (-3.05 m)	18,692 lb* (8479 kg)	18,692 lb* (8479 kg)	15,937 lb (7229 kg)	10,108 lb (4585 kg)	7,832 lb (3553 kg)	5,296 lb (2402 kg)			18'2" (5.54 m)	5,854 lb (2655 kg)	4,010 lb (1819 kg)
-15' (-4.57 m)			12,122 lb* (5498 kg)	10,678 lb (4843 kg)					12'3" (3.73 m)	9,632 lb* (4369 kg)	7,697 lb (3491 kg)

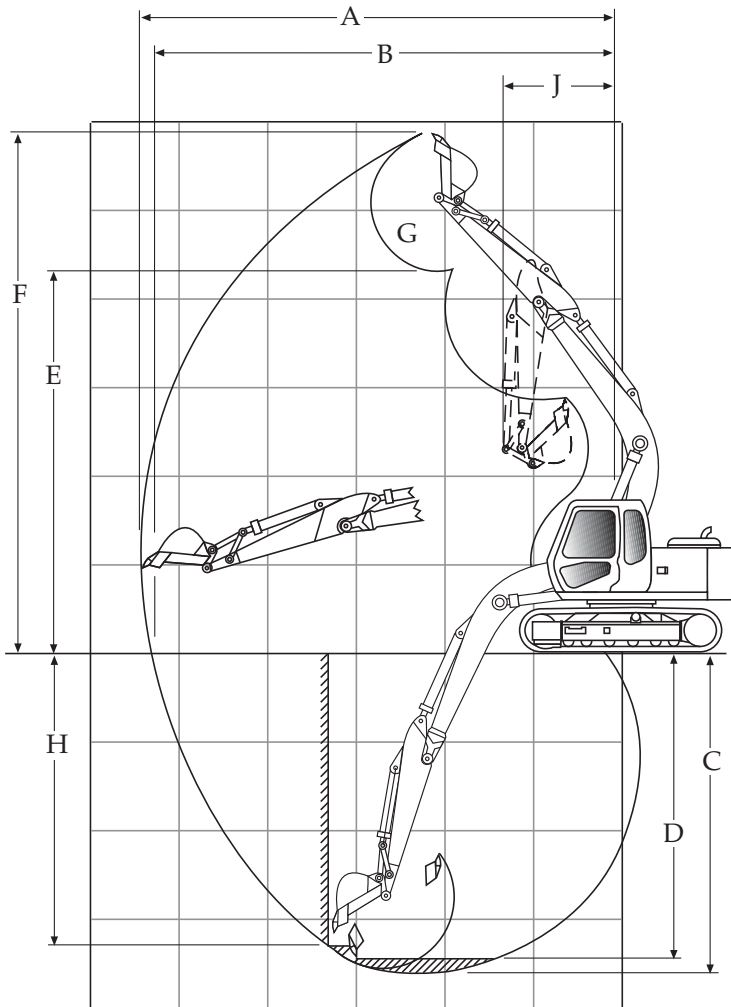
NOTE: *Lift capacities do not exceed 75% of the minimum tipping load or 87% of the hydraulic lift capacity. Capacities that are marked with an asterisk are hydraulic limited.



DIMENSIONS

	10' (3.05 m) Arm	8'2" (2.5 m) Arm
A. Overall height	9'1" (2.77 m)	9'0" (2.74 m)
B. Cab height	9'0" (2.74 m)	9'0" (2.74 m)
C. Overall length	25'0" (7.62 m)	24'10" (7.57 m)
D. w/o attachment	12'9" (3.88 m)	12'9" (3.88 m)
E. Width of upperstructure	8'5" (2.57 m)	8'5" (2.57 m)
F. Track overall length.....	11'6" (3.51 m)	11'6" (3.51 m)
G. Track overall width w/23.6" (600 mm) shoes.....	8'6" (2.59 m)	8'6" (2.59 m)
H. Track shoe width.....	23.6" (600 mm)	23.6" (600 mm)
J. Center to center (idler to sprocket).....	9'2" (2.79 m)	9'2" (2.79 m)
K. Upperstructure ground clearance	2'11" (890 mm)	2'11" (890 mm)
L. Minimum ground clearance.....	1'5" (432 mm)	1'5" (432 mm)
M. Tail swing radius.....	6'11" (2.11 m)	6'11" (2.12 m)
Working weight*	26,920 lb (12 211 kg)	
Ground pressure	4.8 psi (33 kPa)	

*With 23.6" (600 mm) track shoe, 884 lb (401 kg) bucket, 165 lb (75 kg) operator, full fuel and standard equipment.



PERFORMANCE SPECS

	10' (3.05 m) Arm	8'2" (2.5 m) Arm
A. Maximum dig radius	28'8" (8.74 m).....	27'2" (8.27 m)
B. Dig radius at groundline	28'3" (8.61 m).....	26'8" (8.13 m)
C. Maximum dig depth	20' (6.1 m).....	18'2" (5.54 m)
D. Dig depth - 8'0" (2.44 m) level bottom	19'5" (5.91 m).....	17'6" (5.34 m)
E. Dump height.....	23'2" (7.06 m).....	22'3" (6.77 m)
F. Overall reach height	30'11" (9.42 m).....	29'11" (9.13 m)
G. Bucket rotation	165°.....	165°
H. Vertical straight wall dig depth	17'6" (5.34 m).....	16'3" (4.96 m)
J. Minimum swing radius	8'6" (2.58 m).....	6'9" (2.05 m)
Arm digging force		
Standard		14,026 lb (62.4 kN)
Power Boost.....		14,817 lb (65.9 kN)
Bucket digging force		
Standard	21,619 lb (96.2 kN)	21,619 lb (96.2 kN)
Power Boost	22,848 lb (101.6 kN)	22,848 lb (101.6 kN)

STANDARD EQUIPMENT

OPERATOR'S COMPARTMENT

Cab with Isomount® system
 Adjustable deluxe seat with
 3" (76 mm) retractable seat belt
 Vandal cover
 Front window safety glass
 Climate Control System
 AM/FM Radio w/ auto tuner
 Roof hatch, skylight
 Sliding Lexan™ windows
 Windshield wiper w/ washer

ENGINE

Case 4TA-390 turbocharged diesel
 Federal emission certified
 Ether cold start
 Warm up mode
 Selectable one touch or auto
 accelerator/decelerator

ELECTRICAL

Batteries (2)
 Electronic Systems Monitor

HYDRAULICS

ISO pattern pilot controls
 3 Position mode selector:
 H, L, F
 Power Boost
 2 Variable flow piston pumps
 Auxiliary attachment mode
 Auto pump destroke
 Auxiliary hydraulic valve
 Boom and arm holding valve
 Selectable cushion control
 for boom and arm
 Controlled free swing
 Ultra Clean filtration system

UNDERCARRIAGE

Shoes: 23.6" (600 mm) 3-bar,
 42 per side
 Track length: 11'8" (3.55 m)
 Track gauge: 6'6" (1.98 m)

TRACK DRIVE

2-speed hydrostatic travel
 Disc-type parking brakes

UPPERSTRUCTURE

Boom: 15'2" (4.63 m) one piece
 Free swing control
 Hammer adaptable, no reinforcing
 required
 Swing brake

OTHER

Counterweight: 5,070 lb (2300 kg)
 Single key vandal lockup

OPTIONAL EQUIPMENT

UPPERSTRUCTURE

Arm: 10'0" or 8'2"
 (3.05 m or 2.5 m)

HYDRAULICS

Auxiliary hydraulics
 Single acting, one pump
 Double acting, single or dual pump
 (includes heavy-duty bucket
 linkage)
 Double acting general purpose
 for use with thumb kit

OTHER

8'6" (2.59 m) wide dozer blade
 Load holding control devices
 Cylinder mounted
 Case/JRB Slide-Loc® Hydraulic
 Coupler

BUCKETS

Application

Width

SAE Heaped Capacity

General Purpose	24" thru 42" (0.61 m thru 1.07 m)	0.50 yd ³ thru 0.88 yd ³ (0.38 m ³ thru 0.67 m ³)
Heavy-duty	24" thru 42" (0.61 m thru 1.07 m)	0.50 yd ³ thru 0.88 yd ³ (0.38 m ³ thru 0.67 m ³)
Ditch.....	60" or 66" (1.52 m or 1.68 m)	0.75 yd ³ thru 0.88 yd ³ (0.57 m ³ thru 0.67 m ³)

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

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Replaces Form No. - CE 262-02-01



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