

CX210 Excavator



ENGINE

Model Case 6TAA-5904
Type 4-stroke, turbocharged
Cylinders 6
Bore/Stroke 4.02" x 4.72"
(102 x 120 mm)
Displacement 359 in³ (5.9 L)
Fuel injection Direct
Fuel injection pump Electronic
Fuel Diesel
Cooling Liquid
Horsepower per SAE J1349
Net 138 hp (98 kW) @ 1950 rpm
Maximum torque @ 1600 rpm
Net 392 lb·ft (532 N·m)

BOOM/ARM

Boom

Length 18'8" (5.7 m)
Boom w/arm cylinder
& plumbing 3,607 lb (1636 kg)
Hoist cylinders (2) 373 lb (169 kg) ea
Total weight 4,352 lb (1974 kg)

9'10" Arm (3.0 m)

Length 9'10" (3.0 m)
Bare arm 1,431 lb (649 kg)
Bucket cylinder linkage
& plumbing 791 lb (359 kg)
Total arm weight .. 2,222 lb (1008 kg)

7'10" Arm (2.4 m)

Length 7'10" (2.4 m)
Bare arm 1,296 lb (588 kg)
Bucket cylinder linkage
& plumbing 791 lb (359 kg)
Total arm weight .. 2,088 lb (947 kg)

UNDERCARRIAGE

Number of top rollers
Top, each track 2
Bottom, each track 7
Number of shoes
Triple grouser – each track 49
Link pitch 7.48" (190 mm)

HYDRAULICS

Pumps (2) Variable displacement
axial piston design

Capacity –

Maximum 2 x 53.1 gpm
(201 L/min)

System relief pressure –

Standard 4975 psi (34.3 MPa)
Power Boost 5410 psi (37.3 MPa)

Control valves –

4-spool section for left track travel,
boom #1, bucket #1 & #2, arm #2
5-spool section for right track
travel, boom #2, auxiliary, swing
and arm #1
Boom and arm holding valves

Pilot control hydraulic system –

Pump (1) Gear design
Maximum capacity 5.3 gpm
(20.1 L/min)

Relief pressure 566 psi (3.9 MPa)

Swing –

Motor (1) Fixed displacement
axial piston design
Speed 0-11.9 rpm
Brake Spring-applied
hydraulically released
with dual cushion relief
Tail swing radius 9'3" (2.82 m)

Travel –

Motor (2) Two-speed
axial piston design
Final drive Planetary gear
reduction
Drawbar pull 41,140 lb (183 kN)

Travel Speeds –

Auto shift high to low
Forward/Reverse
Low 2.1 mph (3.3 km/h)
High 3.4 mph (5.5 km/h)

Travel control valve –

Dual stage relief and counter-
balance design

HYDRAULIC CYLINDERS

Boom cylinders (2) –

Bore diameter 4.7" (120 mm)
Rod diameter 3.3" (85 mm)
Stroke 49.4" (1255 mm)

Arm cylinder (1) –

Bore diameter 5.3" (135 mm)
Rod diameter 3.7" (95 mm)
Stroke 58" (1474 mm)

Bucket cylinder (1) –

Bore diameter 4.5" (115 mm)
Rod diameter 3.1" (80 mm)
Stroke 39.8" (1012 mm)

ELECTRICAL

Voltage 24 volts,
negative ground

Alternator 45 amp

Batteries (2) Low-maintenance
112 Ah (20 hr rate)

SERVICE CAPACITIES

Hydraulic tank

Refill capacity 32 gal (120 L)

Total system 54 gal (206 L)

Final drive (per side) 5 qt (4.7 L)

Swing drive 5.1 qt (4.8 L)

Engine

w/filter change 26.3 qt (24.9 L)

Fuel 90 gal (340 L)

Radiator 28.5 qt (27 L)

OPERATING WEIGHT

With 9'10" (3.0 m) arm, 31.5"
(800 mm) track shoes, 1,546 lb
(701 kg) bucket, 165 lb (75 kg)
operator, full fuel and standard
equipment 44,002 lb (19 959 kg)

LIFT CAPACITIES

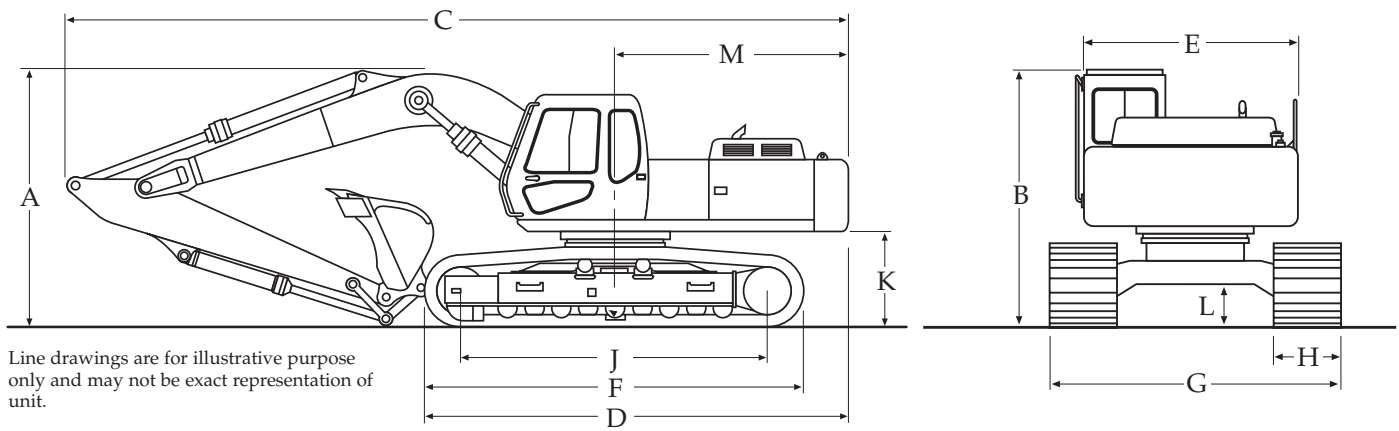
9'10" (3.0 m) Arm Lift capacities calculated using a 1,546 lb (701 kg) bucket, 8,796 lb (3990 kg) counterweight operating in "Fine" Mode

Load (Lift Point) Height	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
+20' (6.1 m)									24'7" (7.53 m)	6,017 lb* (2729 kg)	6,017 lb* (2729 kg)
+15' (4.57 m)					10,425 lb* (4729 kg)	9,680 lb (4391 kg)	9,708 lb* (4403 kg)	6,541 lb (2967 kg)	26'10" (8.18 m)	6,039 lb* (2739 kg)	5,702 lb (2586 kg)
+10' (3.05 m)	23,316 lb* (10 576 kg)	23,316 lb* (10 576 kg)	15,350 lb* (6963 kg)	14,436 lb (6548 kg)	12,335 lb* (5595 kg)	9,117 lb (4135 kg)	9,978 lb (4526 kg)	6,281 lb (2849 kg)	28'1" (8.56 m)	6,338 lb* (2875 kg)	5,096 lb* (2312 kg)
+5' (1.52 m)	18,672 lb* (8469 kg)	18,672 lb* (8469 kg)	19,493 lb* (8842 kg)	13,199 lb (5987 kg)	13,839 lb (6277 kg)	8,531 lb (3870 kg)	9,657 lb (4380 kg)	5,987 lb (2716 kg)	28'4" (8.63 m)	6,948 lb* (3152 kg)	4,841 lb (2196 kg)
Ground- line	18,731 lb* (8496 kg)	18,731 lb* (8496 kg)	21,442 lb (9726 kg)	12,409 lb (5629 kg)	13,333 lb (6048 kg)	8,083 lb (3666 kg)	9,396 lb (4262 kg)	5,749 lb (2608 kg)	27'9" (8.46 m)	8,006 lb (3631 kg)	4,886 lb (2216 kg)
-5' (-1.52 m)	25,175 lb* (11 419 kg)	23,776 lb (10 785 kg)	21,065 lb (9555 kg)	12,095 lb (5486 kg)	13,070 lb (5928 kg)	7,851 lb (3561 kg)	9,274 lb (4207 kg)	5,638 lb (2557 kg)	26'1" (7.95 m)	8,691 lb (3942 kg)	5,288 lb (2399 kg)
-10' (-3.05 m)	32,996 lb* (14 967 kg)	24,096 lb (10 930 kg)	21,111 lb (9576 kg)	12,133 lb (5503 kg)	13,077 lb (5932 kg)	7,856 lb (3563 kg)			23'4" (7.11 m)	10,341 lb (4691 kg)	6,293 lb (2854 kg)
-15' (-4.57 m)	27,685 lb* (12 558 kg)	24,838 lb (11 266 kg)	19,256 lb* (8734 kg)	12,510 lb (5674 kg)					18'11" (5.77 m)	14,618 lb* (6631 kg)	8,861 lb (4019 kg)

7'10" (2.40 m) Arm Lift capacities calculated using a 1,546 lb (701 kg) bucket, 8,796 lb (3990 kg) counterweight operating in "Fine" Mode

Load (Lift Point) Height	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
+20' (6.1 m)					10,560 lb* (4790 kg)	9,789 lb (4440 kg)			22'4" (6.81 m)	9,280 lb* (4209 kg)	7979 lb (3619 kg)
+15' (4.57 m)					11,597 lb* (5260 kg)	9,450 lb (4286 kg)			24'11" (7.60 m)	9,287 lb* (4213 kg)	6,437 lb (2920 kg)
+10' (3.05 m)	27,743 lb* (12 584 kg)	26,658 lb (12 092 kg)	17,163 lb* (7785 kg)	14,005 lb (6352 kg)	13,389 lb* (6073 kg)	8,927 lb (4049 kg)	9,855 lb (4470 kg)	6,174 lb (2800 kg)	26'2" (7.98 m)	9,117 lb (4135 kg)	5,693 lb (2582 kg)
+5' (1.52 m)			20,914 lb* (9487 kg)	12,911 lb (5856 kg)	13,691 lb (6210 kg)	8,407 lb (3813 kg)	9,590 lb (4350 kg)	5,931 lb (2690 kg)	26'6" (8.08 m)	8,751 lb (3969 kg)	5,401 lb (2450 kg)
Ground- line	16,991 lb* (7707 kg)	16,991 lb* (7707 kg)	21,326 lb (9673 kg)	12,323 lb (5589 kg)	13,282 lb (6024 kg)	8,045 lb (3649 kg)	9,396 lb (4262 kg)	5,754 lb (2610 kg)	25'10" (7.87 m)	8,959 lb (4064 kg)	5,488 lb (2489 kg)
-5' (-1.52 m)	27,681 lb* (12 556 kg)	24,102 lb (10 932 kg)	21,141 lb (9589 kg)	12,169 lb (5520 kg)	13,122 lb (5952 kg)	7,903 lb (3585 kg)			24'1" (7.34 m)	9,901 lb (4491 kg)	6,043 lb (2741 kg)
-10' (-3.05 m)	30,864 lb* (14 000 kg)	24,554 lb (11 137 kg)	21,337 lb (9678 kg)	12,332 lb (5593 kg)	13,253 lb (6011 kg)	8,019 lb (3637 kg)			21'0" (6.4 m)	12,279 lb (5569 kg)	7,472 lb (3389 kg)
-15' (-4.57 m)	24,132 lb* (10 946 kg)	24,132 lb* (10 946 kg)	16,958 lb* (7692 kg)	12,886 lb (5845 kg)					15'11" (4.85 m)	15,745 lb* (7142 kg)	11,752 lb (5330 kg)

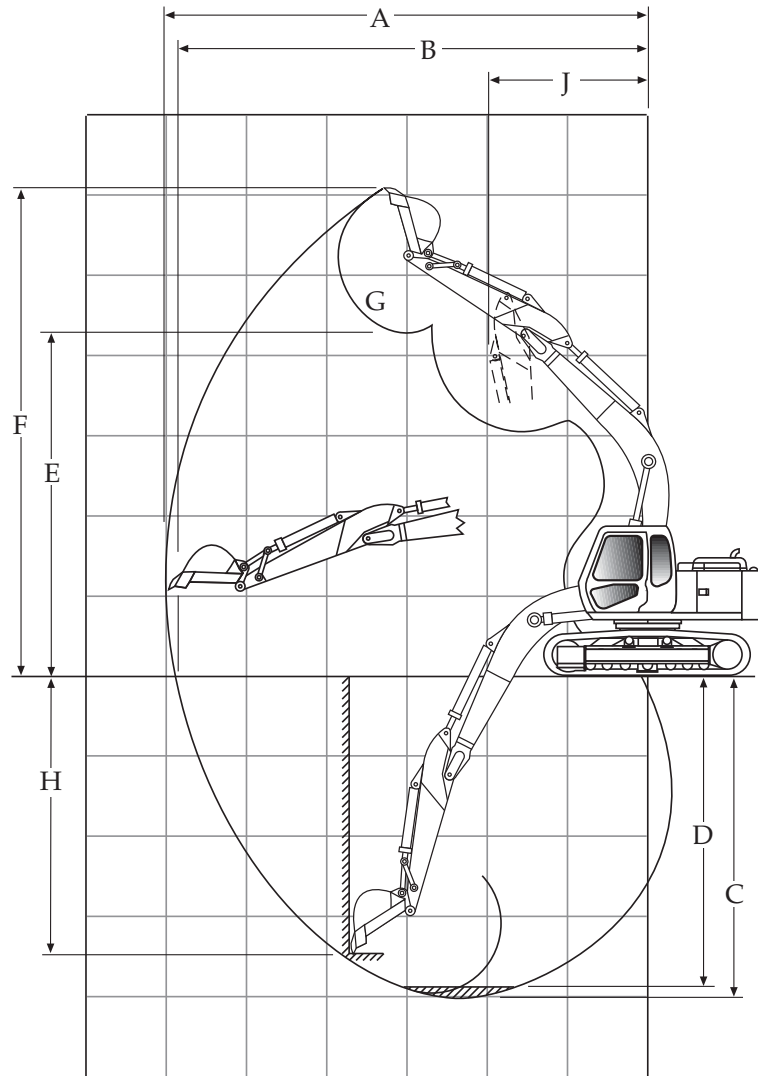
NOTE: *Lift capacities do not exceed 75% of the minimum tipping load or 87% of the hydraulic lift capacity.
Capacities that are marked with an asterisk are hydraulic limited.



DIMENSIONS

	9'10" (3.0 m) Arm	7'10" (2.39 m) Arm
A. Overall height	9'7" (2.92 m)	10'1" (3.07 m)
B. Cab height	9'5" (2.88 m)	9'5" (2.88 m)
C. Overall length.....	31'1" (9.47 m)	31'4" (9.55 m)
D. w/o attachment	16'6" (5.03 m)	16'6" (5.03 m)
E. Width of upperstructure	9'2" (2.79 m)	9'2" (2.79 m)
F. Track overall length.....	14'8" (4.47 m)	14'8" (4.47 m)
G. Track overall width w/31.5" (800 mm) shoes.....	10'6" (3.20 m)	10'6" (3.20 m)
H. Track shoe width	31.5" (800 mm)	31.5" (800 mm)
J. Center to center (idler to sprocket)	12'0" (3.66 m)	12'0" (3.66 m)
K. Upperstructure ground clearance	3'5" (1.04 m)	3'5" (1.04 m)
L. Minimum ground clearance	18" (457 mm)	18" (457 m)
M. Tail swing radius.....	9'3" (2.82 m)	9'3" (2.82 m)
Working weight*	44,002 lb (19 959 kg)	43,868 lb (19 898 kg)
Ground pressure	4.5 psi (31 kPa)	4.5 psi (31 kPa)

*With 31.5" (800 mm) track shoe, 1,546 lb (701 kg) bucket, 165 lb (75 kg) operator, full fuel and standard equipment.



PERFORMANCE SPECS

	9'10" (3.0 m) Arm	7'10" (2.39 m) Arm
A. Maximum dig radius	32'8" (9.96 m)	30'10" (9.40 m)
B. Dig radius at groundline	32'1" (9.78 m)	30'3" (9.22 m)
C. Maximum dig depth	22'0" (6.71 m)	20'1" (6.12 m)
D. Dig depth - 8'0" (2.44 m) level bottom	21'5" (6.53 m)	19'7" (5.97 m)
E. Dump height.....	22'5" (6.83 m)	21'7" (6.58 m)
F. Overall reach height	31'8" (9.65 m)	30'9" (9.37 m)
G. Bucket rotation	183°	183°
H. Vertical straight wall dig depth	22'0" (6.71 m)	18'0" (5.49 m)
J. Minimum swing radius.....	11'11" (3.63 m)	12'0" (3.66 m)
Arm digging force		
Standard	21,424 lb (95.3 kN)	25,853 lb (115 kN)
Power Boost	23,380 lb (104 kN)	28,236 lb (125.6 kN)
Bucket digging force		
Standard	28,533 lb (126.9 kN)	28,533 lb (126.9 kN)
Power Boost	30,994 lb (137.9 kN)	30,994 lb (137.9 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 6TAA-5904 turbocharged diesel
Federal emission certified
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, S, F
Auto Power Boost
2 Variable flow piston pumps
Auxiliary attachment mode
Auto pump destroke
Auxiliary hydraulic valve
Arm and boom holding valve
Selectable cushion control
for boom and arm
Controlled free swing
Ultra Clean filtration system

UNDERCARRIAGE

Shoes: 31.5" (800 mm) 3-bar,
49 per side
Track length: 14'8" (4.47 m)
Track gauge: 7'10" (2.39 m)

TRACK DRIVE

2-speed hydrostatic travel
Disc-type parking brakes

UPPERSTRUCTURE

Boom: 18'6" (5.64 m) one piece
Free swing control
Hammer adaptable, no reinforcing
required
Swing brake

OTHER

Counterweight: 8,796 lb (3990 kg)
Single key vandal lockup

OPTIONAL EQUIPMENT

UPPERSTRUCTURE

Arm: 9'10" or 7'10"
(3.0 m or 2.39 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

Load holding control devices
Cylinder mounted
Case/JRB Slide-Loc® Hydraulic
Coupler

BUCKETS

Application

Width

SAE Heaped Capacity

General purpose.....	24" thru 48" (0.61 m thru 1.22 m)	0.62 yd ³ thru 1.50 yd ³ (0.47 m ³ thru 1.15 m ³)
Heavy-duty.....	24" thru 48" (0.61 m thru 1.22 m)	0.62 yd ³ thru 1.50 yd ³ (0.47 m ³ thru 1.15 m ³)
Heavy-duty cast lip	24" thru 39" (0.61 m thru 0.99 m)	0.50 yd ³ thru .88 yd ³ (0.38 m ³ thru 0.67 m ³)
Extreme-duty	24" thru 42" (0.61 m thru 1.07 m)	0.50 yd ³ thru 1.125 yd ³ (0.38 m ³ thru 0.86 m ³)
Ditch	60" or 66" (1.52 m or 1.68 m)	1.00 yd ³ or 1.12 yd ³ (0.76 m ³ or 0.86 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 264-02-01



IMPORTANT: Case Corporation reserves the right to change these specifications without notice and without incurring any obligation relating to such change. Case Corporation does not warrant the safety or reliability of attachments from other manufacturers.

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