

# CX240 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 in<sup>3</sup> (5880 cc)  
Fuel injection ..... Direct  
Fuel ..... Diesel  
Cooling ..... Liquid  
Horsepower per SAE J1349  
Gross 163 hp (121 kW) @ 2200 rpm  
Maximum torque @ 1500 rpm  
Net ..... 574 lb-ft (778 N·m)

## BOOM/ARM

### Boom

Length ..... 19'2" (5.8 m)  
Boom w/arm cylinder  
& plumbing ..... 4,943 lb (2242 kg)  
Hoist cylinders (2) .. 543 lb (246 kg) ea  
Total weight ..... 6,030 lb (2735 kg)

### 10'2" Arm (3.09 m)

Length ..... 10'2" (3.09 m)  
Bare arm ..... 1,945 lb (882 kg)  
Bucket cylinder linkage  
& plumbing ..... 1,019 lb (462 kg)  
Total weight ..... 2,964 lb (1344 kg)

### 8'2" Arm (2.5 m)

Length ..... 8'2" (2.5 m)  
Bare arm ..... 1,734 lb (787 kg)  
Bucket cylinder linkage  
& plumbing ..... 1,019 lb (462 kg)  
Total weight ..... 2,753 lb (1249 kg)

## UNDERCARRIAGE

Number of top rollers  
Top, each track ..... 2  
Bottom, each track ..... 9  
Number of shoes  
Triple grouser – each track ..... 51  
Link pitch ..... 7.48" (190 mm)

## HYDRAULICS

Pumps (2) ..... Variable displacement  
axial piston design  
Capacity –  
Maximum ..... 2 x 56 gpm  
(212 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 (3900 kPa)

Swing –  
Motor (1) ..... Fixed displacement  
axial piston design  
Speed ..... 0-10.4 rpm  
Brake ..... Spring-applied  
hydraulically released  
with dual cushion relief  
Tail swing radius .... 9'10" (2.99 m)

Travel –  
Motor (2) ..... Two-speed  
axial piston design  
Final drive ..... Planetary gear  
reduction  
Drawbar pull .... 43,006 lb (191 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

## HYDRAULIC CYLINDERS

Boom cylinders (2) –  
Bore diameter ..... 4.9" (125 mm)  
Rod diameter ..... 3.5" (89 mm)  
Stroke ..... 50.6" (1.28 m)  
Arm cylinder (1) –  
Bore diameter ..... 5.7" (145 mm)  
Rod diameter ..... 4.1" (105 mm)  
Stroke ..... 64.1" (1.63 m)  
Bucket cylinder (1) –  
Bore diameter ..... 5.1" (130 mm)  
Rod diameter ..... 3.5" (89 mm)  
Stroke ..... 42.2" (1.07 m)

## ELECTRICAL

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

## SERVICE CAPACITIES

Hydraulic tank  
Refill capacity ..... 32 gal (120 L)  
Total system ..... 59 gal (225 L)  
Final drive (per side) ... 5.0 qt (4.7 L)  
Swing drive ..... 6.3 qt (6.0 L)  
Engine  
w/filter change ..... 23.2 qt (22 L)  
Fuel ..... 90 gal (340 L)  
Radiator ..... 28.5 qt (27 L)

## OPERATING WEIGHT

With 10'2" (3.09 m) arm, 31.5"  
(800 mm) track shoes, 2,014 lb  
(914 kg) bucket, 165 lb (75 kg)  
operator, full fuel and standard  
equipment ..... 53,405 lb (24 224 kg)

# LIFT CAPACITIES

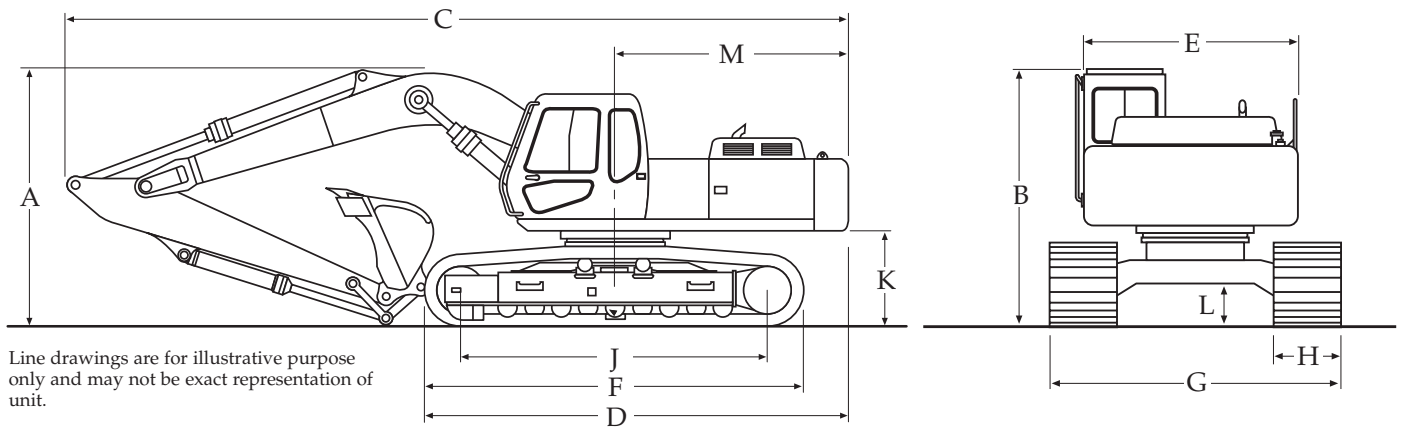
**11'6" (3.5 m) Arm** Lift capacities calculated using a 1,778 lb (806 kg) bucket, 11,244 lb (5100 kg) counterweight operating in "Fine" Mode

Load (Lift Point) Height	10' (3.05 m)		15' (4.57 m)		20' (6.1 m)		25' (7.62 m)		30' (9.14 m)		MAXIMUM REACH		
	END	SIDE	END	SIDE	END	SIDE	END	SIDE	END	SIDE	@	END	SIDE
+20' (6.1 m)							9,191 lb* (4169 kg)	8,324 lb (3776 kg)			27'1" (8.25 m)	5,978 lb* (2712 kg)	5,978 lb* (2712 kg)
+15' (4.57 m)							10,082 lb* (4573 kg)	8,048 lb (3651 kg)			29'2" (8.89 m)	5,979 lb* (2712 kg)	5,924 lb (2687 kg)
+10' (3.05 m)			15,927 lb* (7224 kg)	15,927 lb* (7224 kg)	12,789 lb* (5801 kg)	11,229 lb (5093 kg)	11,193 lb* (5077 kg)	7,623 lb (3458 kg)	6,918 lb* (3138 kg)	5,384 lb (2442 kg)	30'3" (9.22 m)	6,236 lb* (2829 kg)	5,296 lb (2402 kg)
+5' (1.52 m)	25,673 lb* (11 645 kg)	25,673 lb* (11 645 kg)	20,679 lb* (9380 kg)	16,340 lb (7412 kg)	15,196 lb* (6893 kg)	10,364 lb (4701 kg)	11,329 lb (5139 kg)	7,165 lb (3250 kg)	8,299 lb* (3764 kg)	8,299 lb (3764 kg)	30'6" (9.3 m)	6,772 lb* (3072 kg)	5,008 lb (2272 kg)
Ground- line	21,995 lb* (9977 kg)	21,995 lb* (9977 kg)	24,007 lb* (10 889 kg)	15,116 lb (6857 kg)	15,687 lb (7116 kg)	9,679 lb (4390 kg)	10,908 lb (4948 kg)	6,780 lb (3075 kg)			29'11" (9.12 m)	7,700 lb* (3493 kg)	5,015 lb (2275 kg)
-5' (-1.52 m)	27,692 lb* (12 561 kg)	27,692 lb* (12 561 kg)	25,007 lb (11 343 kg)	14,556 lb (6602 kg)	15,237 lb (6911 kg)	9,281 lb (4210 kg)	10,655 lb (4833 kg)	6,550 lb (2971 kg)			28'5" (8.66 m)	8,740 lb (3964 kg)	5,360 lb (2431 kg)
-10' (-3.05 m)	37,187 lb* (16 868 kg)	29,812 lb (13 522 kg)	24,769 lb* (11 235 kg)	14,481 lb (6568 kg)	15,127 lb (6861 kg)	9,183 lb (4165 kg)	10,645 lb (4828 kg)	6,540 lb (2966 kg)			25'10" (7.87 m)	10,130 lb (4595 kg)	6,231 lb (2826 kg)
-15' (-4.57 m)	31,997 lb* (14 514 kg)	30,594 lb (13 877 kg)	21,997 lb* (9978 kg)	14,812 lb (6719 kg)	15,402 lb (6986 kg)	9,427 lb (4276 kg)					21'11" (6.68 m)	13,393 lb (6075 kg)	8,269 lb (3751 kg)
-20' (-6.1 m)			15,046 lb* (6825 kg)	15,046 lb* (6825 kg)							15'5" (4.70 m)	14,548 lb* (6599 kg)	14,548 lb* (6599 kg)

**10'2" (3.09 m) Arm** Lift capacities calculated using a 1,778 lb (806 kg) bucket, 11,244 lb (5100 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)							8,010 lb* (3633 kg)	8,010 lb* (3633 kg)	25'5" (7.75 m)	7,062 lb* (3203 kg)	7,062 lb* (3203 kg)
+15' (4.57 m)					11,653 lb* (5286 kg)	11,653 lb* (5286 kg)	10,909 lb* (4948 kg)	8,004 lb (3631 kg)	27'7" (8.41 m)	7,115 lb* (3227 kg)	6,604 lb (2996 kg)
+10' (3.05 m)	27,629 lb* (12 532 kg)	27,629 lb* (12 532 kg)	17,549 lb* (7960 kg)	17,549 lb* (7960 kg)	13,775 lb* (6248 kg)	11,129 lb (5048 kg)	11,807 lb (5356 kg)	7,615 lb (3454 kg)	28'9" (8.76 m)	7,491 lb* (3398 kg)	5,878 lb (2666 kg)
+5' (1.52 m)	19,947 lb* (9048 kg)	19,947 lb* (9048 kg)	22,027 lb* (9991 kg)	16,128 lb (7316 kg)	16,039 lb* (7275 kg)	10,326 lb (4684 kg)	11,351 lb (5149 kg)	7,199 lb (3265 kg)	29'0" (8.84 m)	8,234 lb* (3735 kg)	5,560 lb (2522 kg)
Ground- line	21,597 lb* (9796 kg)	21,597 lb* (9796 kg)	24,832 lb* (11 264 kg)	15,101 lb (6850 kg)	15,716 lb (7129 kg)	9,723 lb (4410 kg)	10,986 lb (4983 kg)	6,866 lb (3114 kg)	28'5" (8.66 m)	8,974 lb (4071 kg)	5,588 lb (2535 kg)
-5' (-1.52 m)	29,577 lb* (13 416 kg)	29,577 lb* (13 416 kg)	25,151 lb (11 408 kg)	14,702 lb (6669 kg)	15,362 lb (6968 kg)	9,410 lb (4268 kg)	10,801 lb (4899 kg)	6,696 lb (3037 kg)	26'10" (8.18 m)	9,709 lb (4404 kg)	6,025 lb (2733 kg)
-10' (-3.05 m)	35,919 lb* (16 293 kg)	30,333 lb (13 759 kg)	24,448 lb* (11 089 kg)	14,745 lb (6688 kg)	15,349 lb (6962 kg)	9,397 lb (4262 kg)			24'1" (7.34 m)	11,494 lb (5214 kg)	7,138 lb (3238 kg)
-15' (-4.57 m)	29,785 lb* (13 510 kg)	29,785 lb* (13 510 kg)	20,870 lb* (9466 kg)	15,196 lb (6893 kg)					19'9" (6.02 m)	15,052 lb* (6827 kg)	9,937 lb (4507 kg)

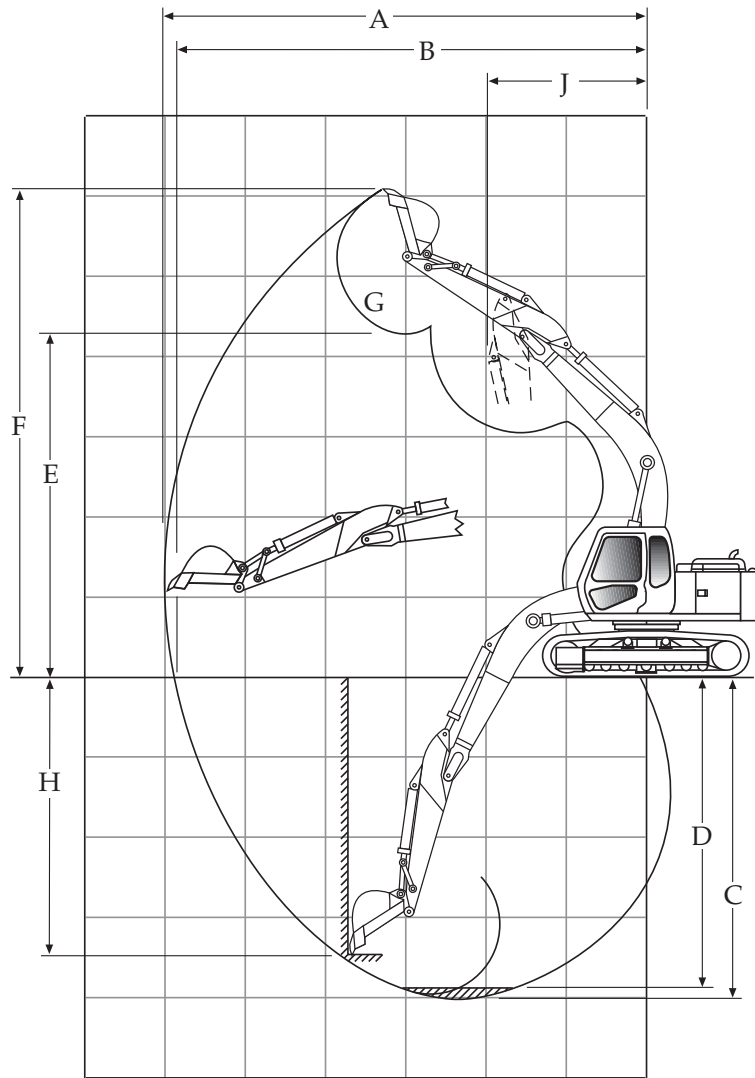
\*Lift capacities do not exceed 75% of the minimum tipping load or 87% of the hydraulic lift capacity. Capacities that are marked with an asterisk are hydraulic limited.



## DIMENSIONS

	10'2" (3.09 m) Arm	8'2" (2.5 m) Arm
A. Overall height	10'1" (3.08 m)	10'10" (3.31 m)
B. Cab height	9'11" (3.02 m)	9'11" (3.02 m)
C. Overall length	32'9" (9.97 m)	32'11" (10.04 m)
D. w/o attachment	17'5" (5.31 m)	17'5" (5.31 m)
E. Width of upperstructure	9'2" (2.79 m)	9'2" (2.79 m)
F. Track overall length	15'3" (4.64 m)	15'3" (4.64 m)
G. Track overall width w/31.5" (800 mm) shoes	11'1" (3.39 m)	11'1" (3.39 m)
H. Track shoe width	31.5" (800 mm)	31.5" (800 mm)
J. Center to center (idler to sprocket)	12'7" (3.84 m)	12'7" (3.84 m)
K. Upperstructure ground clearance	3'7" (1.10 m)	3'7" (1.10 m)
L. Minimum ground clearance	1'6" (0.46 m)	1'6" (0.46 m)
M. Tail swing radius	9'10" (2.99 m)	9'10" (2.99 m)
Working weight*	53,405 lb (24 224 kg)	
Ground pressure	5.2 psi (36 kPa)	

\*With 31.5" (800 mm) track shoe, 2,014 lb (914 kg) bucket, 165 lb (75 kg) operator, full fuel and standard equipment.



## PERFORMANCE SPECS

	10'2" (3.09 m) Arm	8'2" (2.5 m) Arm
A. Maximum dig radius .....	34'2" (10.42 m).....	32'6" (9.90 m)
B. Dig radius at groundline .....	33'8" (10.26 m).....	31'11" (9.72 m)
C. Maximum dig depth .....	22'10" (6.97 m).....	20'11" (6.38 m)
D. Dig depth - 8'0" (2.44 m) level bottom .....	22'4" (6.80 m).....	20'4" (6.21 m)
E. Dump height .....	22'2" (6.76 m).....	21'6" (6.55 m)
F. Overall reach height .....	32'2" (9.81 m).....	31'6" (9.61 m)
G. Bucket rotation .....	180° .....	180°
H. Vertical straight wall dig depth .....	18'6" (5.65 m).....	18'6" (5.65 m)
J. Minimum swing radius .....	12'8" (3.87 m).....	13'2" (4.01 m)
Arm digging force		
Standard .....	26,174 lb (116.4 kN) .....	31,477 lb (140.0 kN)
Power Boost .....	31,477 lb (140.0 kN) .....	34,162 lb (152.0 kN)
Bucket digging force		
Standard .....	35,432 lb (157.6 kN) .....	35,432 lb (157.6 kN)
Power Boost .....	38,312 lb (170.4 kN) .....	38,312 lb (170.4 kN)

NOTE: \*Lift capacities on page 2 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.

# 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  
 Horn, dual

## 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  
 Boom and arm holding valves  
 Selectable cushion control  
 for boom and arm  
 Controlled free swing  
 Ultra Clean filtration system

## UNDERCARRIAGE

Shoes: 31.5" (800 mm) 3-bar,  
 51 per side  
 Track length: 15'3" (4.64 m)  
 Track gauge: 8'6" (2.59 m)

## TRACK DRIVE

2-speed hydrostatic travel  
 Straight tracking travel priority  
 Disc-type parking brakes

## UPPERSTRUCTURE

Boom: 19'2" (5.8 m) one piece  
 Free swing control  
 Hammer adaptable, no reinforcing  
 required  
 Swing brake

## OTHER

Counterweight: 9,920 lb (4500 kg)  
 Single key vandal lockup

# OPTIONAL EQUIPMENT

## UPPERSTRUCTURE

Arm: 10'2" or 8'2"  
 (3.09 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

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

## BUCKETS

### Application

### Width

### SAE Heaped Capacity

General purpose.....	24" thru 54" (0.60 m thru 1.37 m) .....	0.75 yd <sup>3</sup> thru 2.00 yd <sup>3</sup> (0.57 m <sup>3</sup> thru 1.53 m <sup>3</sup> )
Heavy-duty.....	24" thru 54"(0.60 m thru 1.37 m ) .....	0.75 yd <sup>3</sup> thru 2.00 yd <sup>3</sup> (0.57 m <sup>3</sup> thru 1.53 m <sup>3</sup> )
Extreme-duty.....	24" thru 48" (0.60 m thru 1.22 m) ...	0.62 yd <sup>3</sup> thru 1.625 yd <sup>3</sup> (0.47 m <sup>3</sup> thru 1.24 m <sup>3</sup> )
Heavy-duty cast lip .....	30" thru 39"(0.76 m thru 0.99 m ) .....	0.88 yd <sup>3</sup> thru 1.25 yd <sup>3</sup> (0.67 m <sup>3</sup> thru 0.96 m <sup>3</sup> )
Ditching .....	60" or 66" (1.52 m or 1.68 m).....	1.25 yd <sup>3</sup> or 1.38 yd <sup>3</sup> (0.96 m <sup>3</sup> or 1.06 m <sup>3</sup> )

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

Form No. CE 265-01-02  
Replaces Form No. CE 265-02-01



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