9030B Narrow
Excavator

ENGINE

Model..... Case 6T-590
Type ..... 4-stroke, turbocharged
Cylinders..... 6
Bore / Stroke .....4.02" x 4.72" (102 x 120 mm)
Displacement ..... 359 in^3 (5.9 L)
Fuel injection..... Direct
Fuel..... Diesel
Fuel filter..... In-line strainer
Air intake ..... Cross-flow
Cooling ..... Liquid
Horsepower per SAE J1349
Net .... 131 hp (98 kW) @ 2200 rpm
Maximum torque @ 1500 rpm
Net ..... 425 lb·ft (576 N·m)

BOOM/ARM

Boom
Length..... 18'8" (5.7 m)
Boom w/arm cylinder & plumbing..... 3,722 lb (1688 kg)
Hoist cylinders (2)..... 394 lb (179 kg)
Total weight..... 4,510 lb (2046 kg)

9'10" Arm (3.00 m)
Length..... 9'10" (3.00 m)
Bare arm..... 1,320 lb (599 kg)
Bucket cylinder linkage & plumbing..... 780 lb (354 kg)
Total weight..... 2,100 lb (953 kg)

7'10" Arm (2.39 m)
Length..... 7'10" (2.39 m)
Bare arm..... 1,160 lb (526 kg)
Bucket cylinder linkage & plumbing..... 780 lb (354 kg)
Total arm weight. 1,940 lb (880 kg)

UNDERCARRIAGE

Number of top rollers
Top, each track..... 2
Bottom, each track..... 7
Number of shoes
Triple grouser - each track 46
Link pitch ..... 7.48" (190 mm)

HYDRAULICS

Pumps (2)..... Variable displacement axial-piston design
Capacity –
Maximum..... 2 x 51.2 gpm (194 L/min)
Minimum ..... 2 x 16 gpm (61 L/min)
System relief pressure –
Standard..... 4554 psi (31 400 kPa)
Power Boost 4975 psi (34 300 kPa)
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 ..... 0-11.9 rpm
Brake..... Spring-applied hydraulically released
Tail swing radius ..... 9'2" (2.8 m)

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

Travel Speeds –
Forward / Reverse
Low ..... 1.4 mph (2.3 km/h)
Medium..... 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 with disc-type brakes

HYDRAULIC CYLINDERS

Boom cylinders (2) –
Bore diameter..... 4.9" (125 mm)
Rod diameter ..... 3.3" (85 mm)
Stroke..... 49.6" (1.26 m)
Arm cylinder (1) –
Bore diameter..... 5.3" (135 mm)
Rod diameter ..... 3.9" (100 mm)
Stroke..... 62.2" (1.58 m)
Bucket cylinder (1) –
Bore diameter..... 4.7" (120 mm)
Rod diameter ..... 3.1" (80 mm)
Stroke..... 39.8" (1.01 m)

ELECTRICAL

Voltage ..... 24 volts, negative ground
Alternator..... 45 amp
Batteries (2) ..... Low-maintenance 12 volt, 140 Ah (20 hr rate)

SERVICE CAPACITIES

Hydraulic tank
Refill capacity..... 32 gal (120 L)
Total system ..... 53 gal (200 L)
Final drive (per side)..... 5 qt (4.7 L)
Swing drive..... 5.3 qt (5 L)
Engine
w/filter change..... 16 qt (15.1 L)
Fuel..... 82 gal (310 L)
Radiator..... 26.9 qt (25.5 L)

OPERATING WEIGHT

With 9'10" (3.00 m) arm, 23.5" (600 mm) track shoes, 1,410 lb (640 kg) bucket, 175 lb (79 kg) operator, full fuel and standard equipment..... 44,000 lb (19 958 kg)

LIFT CAPACITIES

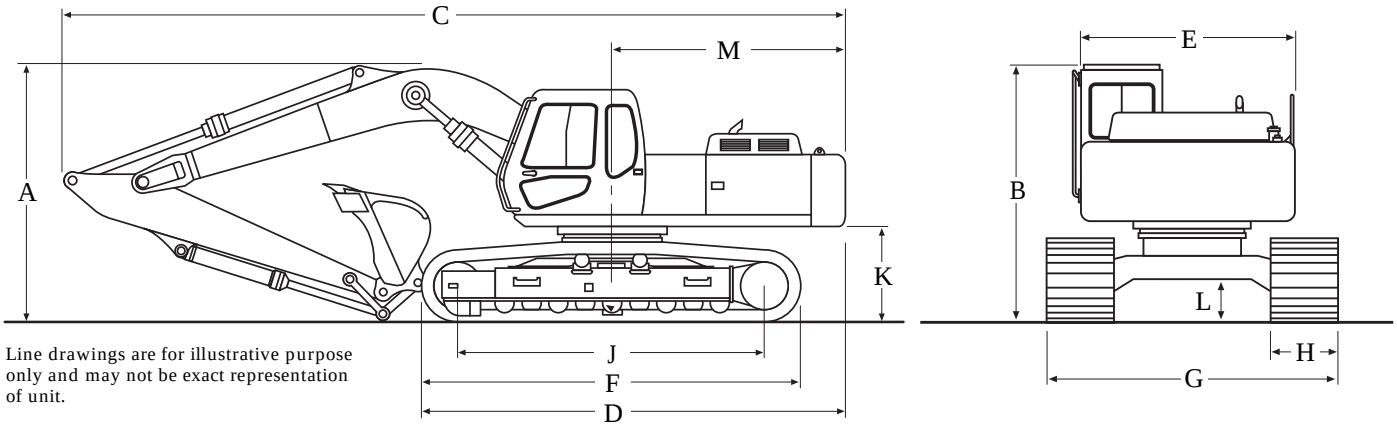
9'10" (3.00 m) Arm *Lift capacities calculated using a 1,380 lb (626 kg) bucket, 9,480 lb (4300 kg) counterweight operating in "Fine" Mode*

Load (Lift Point) Height	10' (3.05 m) END	10' (3.05 m) SIDE	15' (4.57 m) END	15' (4.57 m) SIDE	20' (6.1 m) END	20' (6.1 m) SIDE	25' (7.62 m) END	25' (7.62 m) SIDE	MAXIMUM REACH @	MAXIMUM REACH END	MAXIMUM REACH SIDE
+20' (6.1 m)									28'8" (8.74 m)	4,000 lb* (1814 kg)	4,000 lb* (1814 kg)
+15' (4.57 m)					10,600 lb* (4808 kg)	8,500 lb (3856 kg)	9,150 lb* (4150 kg)	5,650 lb (2563 kg)	30'7" (9.32 m)	4,000 lb* (1814 kg)	3,800 lb (1724 kg)
+10' (3.05 m)	22,550 lb* (10 229 kg)	22,550 lb* (10 229 kg)	15,200 lb* (6895 kg)	12,600 lb (5715 kg)	12,500 lb* (5670 kg)	7,950 lb (3606 kg)	9,300 lb (4218 kg)	5,400 lb (2449 kg)	31'6" (9.60 m)	4,100 lb* (1860 kg)	3,450 lb (1565 kg)
+5' (1.52 m)	20,650 lb* (9367 kg)	20,450 lb (9276 kg)	19,850 lb* (9004 kg)	11,350 lb (5148 kg)	12,850 lb (5829 kg)	7,350 lb (3334 kg)	8,950 lb (4060 kg)	5,100 lb (2313 kg)	31'6" (9.60 m)	4,400 lb* (1996 kg)	3,300 lb (1497 kg)
Ground-line	18,050 lb* (8187 kg)	18,050 lb* (8187 kg)	19,550 lb (8868 kg)	10,500 lb (4763 kg)	12,300 lb (5579 kg)	6,850 lb (3107 kg)	8,650 lb (3924 kg)	4,850 lb (2200 kg)	30'7" (9.32 m)	4,900 lb* (2223 kg)	3,400 lb (1542 kg)
-5' (1.52 m)	23,550 lb* (10 682 kg)	19,100 lb (8664 kg)	19,150 lb (8686 kg)	10,150 lb (4604 kg)	12,000 lb (5443 kg)	6,600 lb (2994 kg)	8,500 lb (3856 kg)	4,650 lb (2109 kg)	28'8" (8.74 m)	5,700 lb* (2585 kg)	3,800 lb (1724 kg)
-10' (3.05 m)	31,750 lb* (14 402 kg)	19,850 lb (9004 kg)	19,150 lb (8686 kg)	10,200 lb (4627 kg)	11,950 lb (5420 kg)	6,550 lb (2971 kg)	8,500 lb (3856 kg)	4,700 lb (2132 kg)	25'5" (7.75 m)	7,200 lb* (3266 kg)	4,750 lb (2155 kg)
-15' (4.57 m)	29,700 lb* (13 472 kg)	20,400 lb (9253 kg)	19,550 lb (8868 kg)	10,500 lb (4763 kg)	12,200 lb (5534 kg)	6,800 lb (3084 kg)			20'0" (6.10 m)	8,650 lb* (3924 kg)	7,200 lb (3266 kg)

7'10" (2.39 m) Arm *Lift capacities calculated using a 1,380 lb (626 kg) bucket, 9,480 lb (4300 kg) counterweight operating in "Fine" Mode*

Load (Lift Point) Height	10' (3.05 m) END	10' (3.05 m) SIDE	15' (4.57 m) END	15' (4.57 m) SIDE	20' (6.1 m) END	20' (6.1 m) SIDE	25' (7.62 m) END	25' (7.62 m) SIDE	MAXIMUM REACH @	MAXIMUM REACH END	MAXIMUM REACH SIDE
+20' (6.1 m)					10,800 lb* (4899 kg)	8,550 lb (3878 kg)			26'8" (8.13 m)	6,100 lb* (2767 kg)	5,100 lb (2313 kg)
+15' (4.57 m)					11,850 lb* (5375 kg)	8,300 lb (3765 kg)	9,350 lb* (4241 kg)	5,500 lb (2495 kg)	28'9" (8.76 m)	6,050 lb* (2744 kg)	4,250 lb (1928 kg)
+10' (3.05 m)	26,350 lb* (11 952 kg)	22,400 lb (10 160 kg)	17,100 lb* (7756 kg)	12,200 lb (5534 kg)	13,250 lb (6010 kg)	7,800 lb (3538 kg)	9,200 lb (4173 kg)	5,300 lb (2404 kg)	29'9" (9.11 m)	6,200 lb* (2812 kg)	3,850 lb (1746 kg)
+5' (1.52 m)			20,200 lb (9163 kg)	11,050 lb (5012 kg)	12,700 lb (5761 kg)	7,250 lb (3289 kg)	8,900 lb (4037 kg)	5,050 lb (2291 kg)	29'9" (9.11 m)	6,550 lb* (2971 kg)	3,700 lb (1678 kg)
Ground-line	16,650 lb* (7552 kg)	16,650 lb* (7552 kg)	19,400 lb (8800 kg)	10,400 lb (4717 kg)	12,250 lb (5557 kg)	6,850 lb (3107 kg)	8,650 lb (3924 kg)	4,850 lb (2200 kg)	28'10" (8.79 m)	7,000 lb* (3175 kg)	3,850 lb (1746 kg)
-5' (1.52 m)	24,700 lb* (11 204 kg)	19,150 lb* (8686 kg)	19,200 lb (8709 kg)	10,250 lb (4649 kg)	12,050 lb (5466 kg)	6,650 lb (3016 kg)	8,550 lb (3878 kg)	4,750 lb (2155 kg)	26'8" (8.13 m)	7,850 lb (3561kg)	4,400 lb (1996 kg)
-10' (3.05 m)	32,550 lb* (14 764 kg)	20,300 lb (9208 kg)	19,350 lb (8777 kg)	10,350 lb (4695 kg)	12,100 lb (5488 kg)	12,100 lb (5488 kg)			23'1" (7.03 m)	10,000 lb (4536 kg)	10,000 lb (4536 kg)
-15' (4.57 m)	26,500 lb* (12 020 kg)	20,900 lb (9480 kg)	18,550 lb* (8414 kg)	10,800 lb (4899 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.

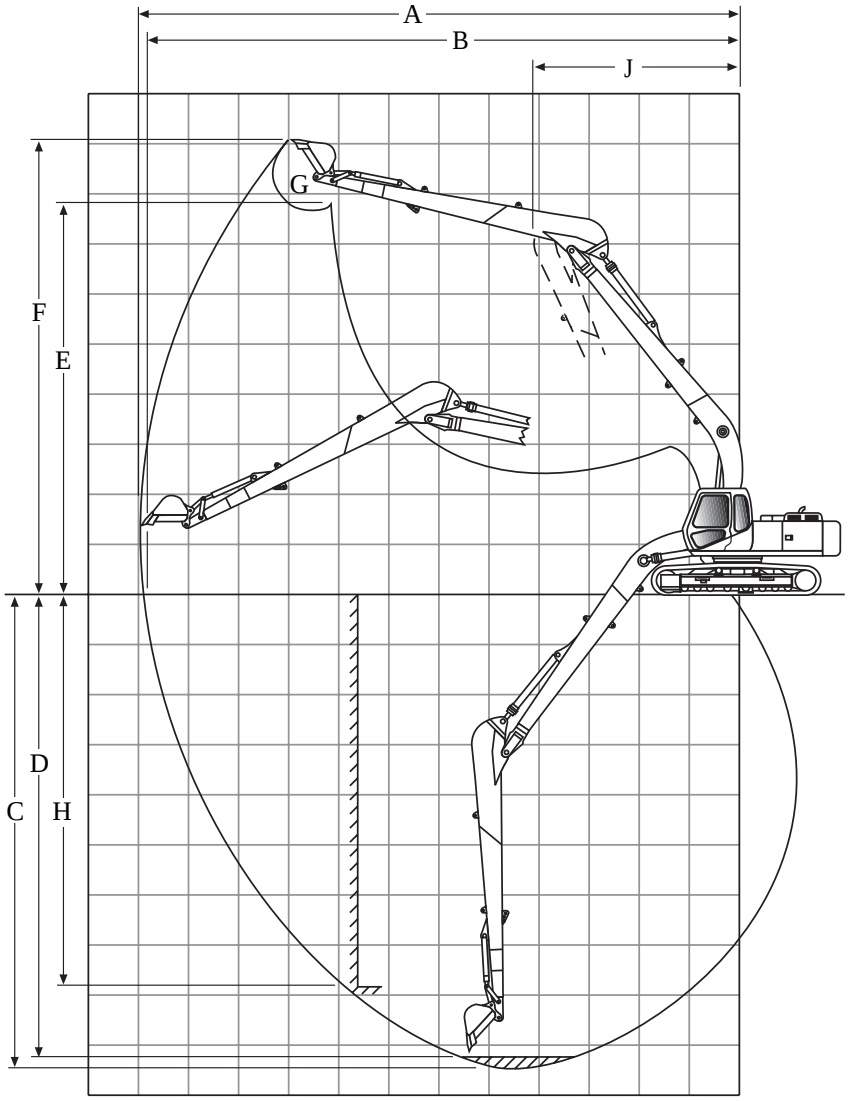


Line drawings are for illustrative purpose only and may not be exact representation of unit.

DIMENSIONS

	9'10" (3.00 m) Arm	7'10" (2.39 m) Arm
A. Overall height	9'7" (2.93 m)	10'0" (3.06 m)
B. Cab height	9'7" (2.93 m)	9'7" (2.93 m)
C. Overall length	31'0" (9.44 m)	31'4" (9.56 m)
D. w/o attachment	15'11" (4.68 m)	15'11" (4.68 m)
E. Width of upperstructure	8'2" (2.5 m)	8'2" (2.5 m)
F. Track overall length	13'8" (4.17 m)	13'8" (4.17 m)
G. Track overall width w/23.5" (600 mm) shoes	8'6" (2.59 m)	8'6" (2.59 m)
H. Track shoe width	23.5" (600 mm)	23.5" (600 mm)
J. Center to center (idler to sprocket)	11'1" (3.37 m)	11'1" (3.37 m)
K. Upperstructure ground clearance	3'5" (1.04 m)	3'5" (1.04 m)
L. Minimum ground clearance	18" (460 mm)	18" (460 mm)
M. Tail swing radius	9'2" (2.8 m)	9'2" (2.8 m)
Working weight*	44,000 lb (19 958 kg)	43,840 lb (19 885 kg)
Ground pressure	6.5 psi (45 kPa)	6.5 psi (45 kPa)

*With 23.5" (600 mm) track shoe, 1,410 lb (640 kg) bucket, 175 lb (79 kg) operator, full fuel and standard equipment.



PERFORMANCE SPECS

	9’10” (3.00 m) Arm	7’10” (2.39 m) Arm
A. Maximum dig radius	32’8” (9.95 m)	30’11” (9.42 m)
B. Dig radius at groundline	32’1” (9.78 m)	30’4” (9.24 m)
C. Maximum dig depth	21’11” (6.68 m)	20’0” (6.1 m)
D. Dig depth - 8’0” (2.44 m) level bottom	21’5” (6.52 m)	19’4” (5.89 m)
E. Dump height	21’11” (6.68 m)	17’11” (5.46 m)
F. Overall reach height	31’1” (9.47 m)	30’5” (9.26 m)
G. Bucket rotation	183˚	183˚
H. Vertical straight wall dig depth	19’11” (6.07 m)	17’11” (5.46 m)
J. Minimum swing radius	11’11” (3.64 m)	12’2” (3.71 m)
Arm digging force		
Standard	20,280 lb (90.2 kN)	24,470 lb (108.8 kN)
Power Boost	22,260 lb (99.0 kN)	26,680 lb (118.7 kN)
Bucket digging force		
Standard	25,580 lb (113.8 kN)	25,580 lb (113.8 kN)
Power Boost	28,000 lb (124.5 kN)	28,000 lb (124.5 kN)

STANDARD EQUIPMENT

OPERATOR'S COMPARTMENT
- Cab with Isomount® system
- Adjustable deluxe seat with 3" (76 mm) retractable seat belt
- Oscillating fan
- Vandal cover
- Front window safety glass
- Heater: 13,500 BTU
- AM/FM Radio
- Roof hatch, skylight
- Sliding Lexan** windows
- Windshield wiper w/washer

ENGINE
- Case 6T-590 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
- 4 Position mode selector: H, S, 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: 23.5" (600 mm) 3-bar, 46 per side
- Track length: 13'8" (4.17 m)
- Track gauge: 6'6" (1.98 m)

TRACK DRIVE
- 3 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: 9,480 lb (4300 kg)
- Single key vandal lockup

OPTIONAL EQUIPMENT

OPERATOR'S COMPARTMENT

Air conditioner

UPPERSTRUCTURE
- Arm: 9'10" or 7'10" (3.00 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* Coupler
- Hydraulic or mechanical

Control pattern change kit

BUCKETS

Application	Width	SAE Heaped Capacity
General purpose	24" thru 48" (0.61 m thru 1.22 m)	0.59 yd^3 thru 1.30 yd^3 (0.45 m^3 thru 0.99 m^3)
General purpose high-capacity	24" thru 42" (0.61 m thru 1.07 m)	0.73 yd^3 thru 1.38 yd^3 (0.56 m^3 thru 1.06 m^3)
Heavy-duty	24" thru 48" (0.61 m thru 1.22 m)	0.59 yd^3 thru 1.30 yd^3 (0.45 m^3 thru 0.99 m^3)
Heavy-duty high-capacity	24" thru 42" (0.61 m thru 1.07 m)	0.73 yd^3 thru 1.38 yd^3 (0.56 m^3 thru 1.06 m^3)
Severe-duty	24" thru 36" (0.61 m thru 0.91 m)	0.59 yd^3 thru 0.95 yd^3 (0.45 m^3 thru 0.73 m^3)
Ditch	60" or 72" (1.52 m or 1.83 m)	0.90 yd^3 or 1.06 yd^3 (0.69 m^3 or 0.81 m^3)

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

Form No. - CE 231-07-99
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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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