CAT

E240
EL240
EXCAVATOR

Maximum:

Reach At Ground Level . . 10 600 mm/34′9″
Digging Depth . . . . . 7410 mm/24′4″
Travel Speeds:
(E240) . . . . . 3.7 km/h/2.3 MPH
(EL240) . . . . . 3.4 km/h/2.1 MPH

- Flywheel Power . . . . . 110.3 kW/148 HP
- Operating Weight
  (E240) . . . . . 23 000 kg/50,705 lb.
  (EL240) . . . . . 23 600 kg/52,030 lb.
- General Purpose
  Bucket Capacity . . . . . (SAE) 760 to 985 liters/1.00 to 1.25 yd³

Machine shown may have optional equipment.

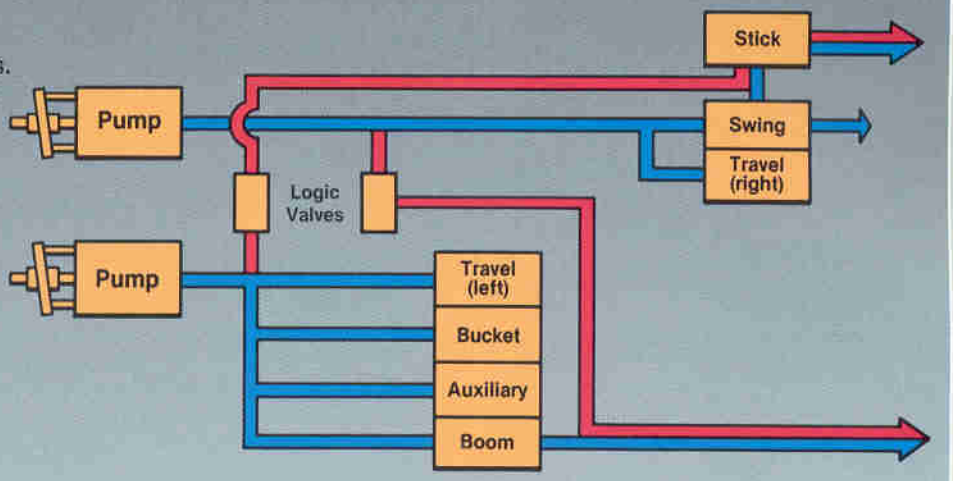
FEATURES

Hydraulic System

Advanced hydraulics balance stick, boom and swing functions for maximum productivity.

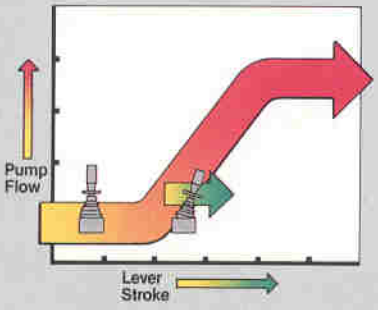
■ Two-pump system

- Two variable-flow, piston-type pumps power hydraulic circuits.
- Pumps mount in-line behind engine. Flexible coupling and common pump drive shaft deliver engine's power to pumps.
- Direct drive eliminates power losses, noise and maintenance common to pump gear drives.



■ Neutral-sensing feature

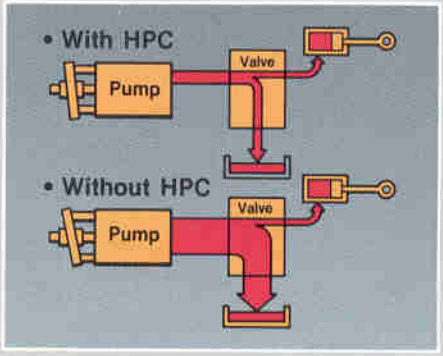
- System reduces pump flow to a minimum when joysticks and travel controls are in neutral... cutting fuel consumption, extending pump life.

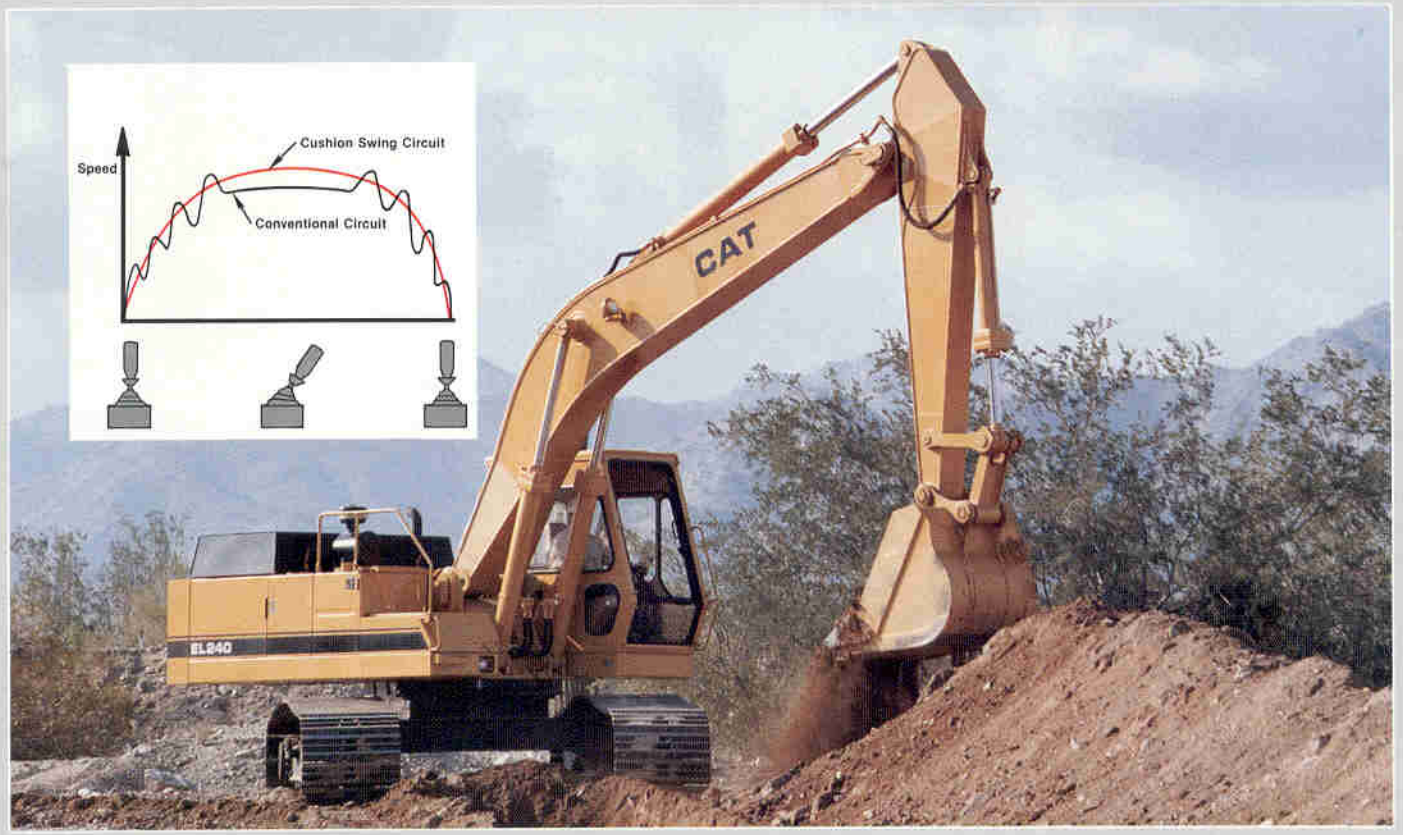


- Pump flow increases in proportion with lever movement...operator has precise control from feathering to full force.
- Operator controls movements more precisely. Smooth starts and stops are important when handling suspended loads.
- System eliminates hydraulic shock...increasing hydraulic hose and tube life.

■ High-pressure cut-off

- System reduces pump flow to a minimum before hydraulic pressure reaches relief valve setting.
- Reduced flow conserves fuel...prevents hydraulic oil deterioration from high system temperatures.
- Relief valve noise decreases.





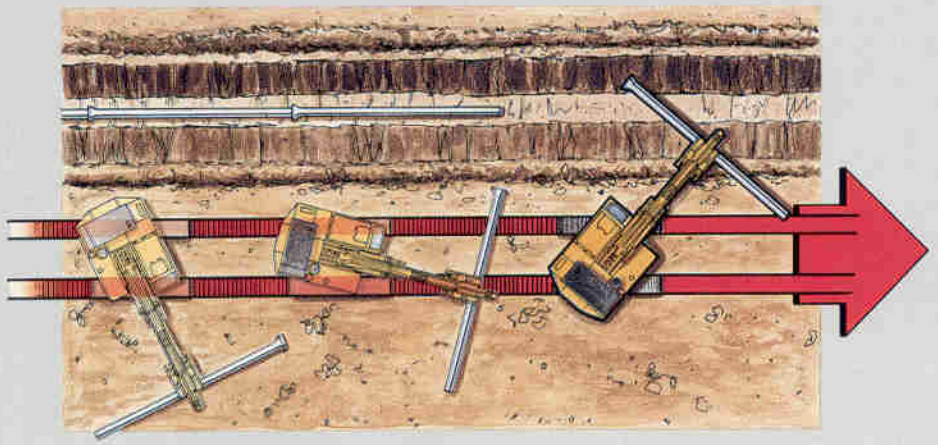
■ Cushion swing control

- Control provides smooth swing function for precise positioning applications, such as pipe handling.
- Operator switches the cushion swing control on and off from cab.

■ Auxiliary valve

- Standard auxiliary control valve allows economical addition of various attachments.
- Auxiliary valve delivers full pump flow...sufficient for most hydraulic attachments.

Straight Travel During Implement Operation



■ Straight-travel feature

- System automatically maintains straight travel during implement operation.
- Greatly improves material handling and fine grading capabilities.

FEATURES

Engine

Powerful...dependable...efficient.

■ Turbocharged for increased performance and efficiency, especially at high altitude operation — up 1980 m/6,500 ft.

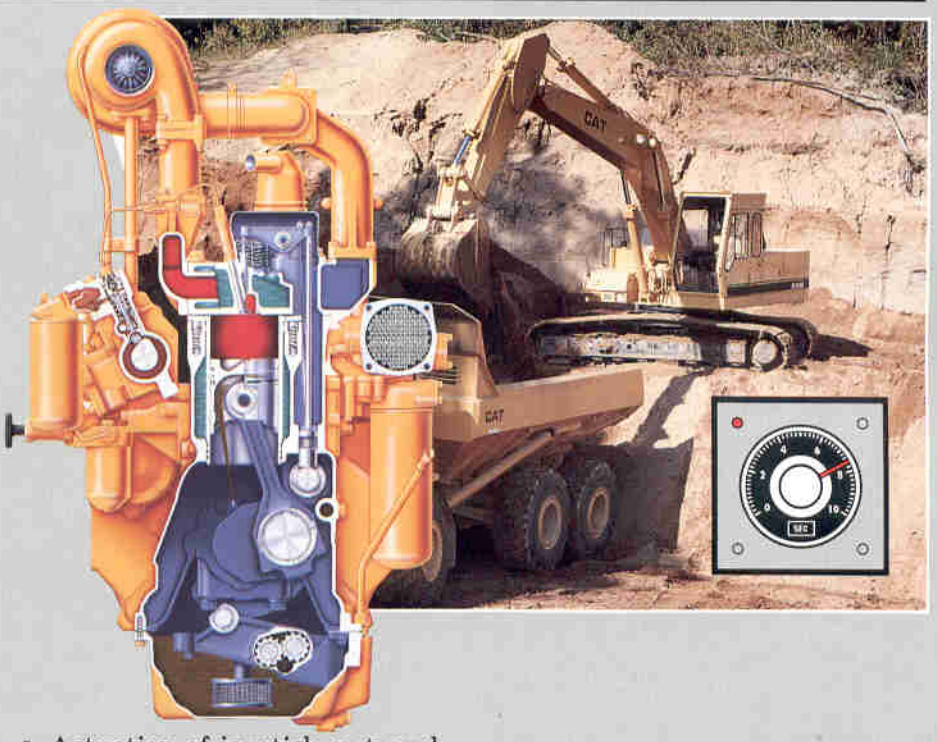
■ High displacement-to-power ratio ensures long life, exceptional reliability.

■ Direct-injection fuel system has adjustment-free pumps and valves...provides efficient, accurate fuel metering.

■ Four-stroke-cycle design uses long power strokes for more complete fuel combustion and efficiency.

■ Automatic Engine Speed Control available —

- Speed control automatically reduces engine speed when the joysticks and travel controls are in neutral... decreasing fuel consumption and noise.
- Dial in cab allows operator to adjust time delay for engine deceleration from 0 to 10 seconds...delivers considerable fuel savings in load and wait applications.



- Actuation of joystick or travel control automatically returns engine instantly to original operating RPM...no resetting necessary.

Undercarriage

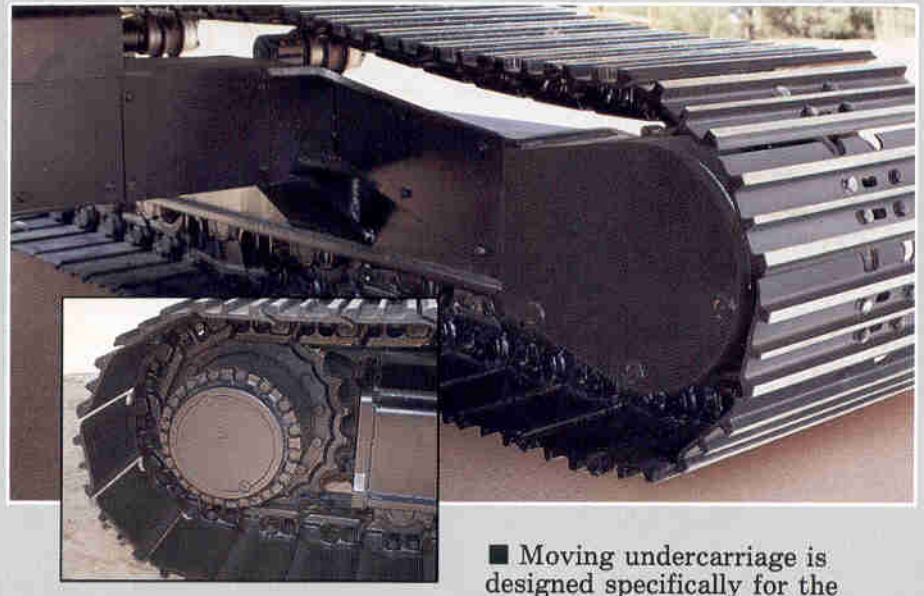
Mobility, stability and durability...designed for maximum productivity on toughest ground conditions.

■ Fast travel speeds, 3.7 km/h/2.3 **mph** for the E240 and 3.4 km/h/2.1 **mph** for the EL240, and 70 percent gradeability increase operating efficiency and reduce maneuvering time.

■ Track motors, brakes and final drives are enclosed in housings that are narrower than the track shoe width...prevents contact damage.

■ Hydraulic lines are routed through passages in the track roller frames and carbody ...protected from possible debris damage.

■ Standard undercarriage allows good maneuverability in tight work areas. Optional long undercarriage, with wider gauge, available for increased flotation and stability.



■ Sealed and lubricated track rollers and idlers provide longer service life.

■ Moving undercarriage is designed specifically for the impact and high loading generated by an excavator.

Structure

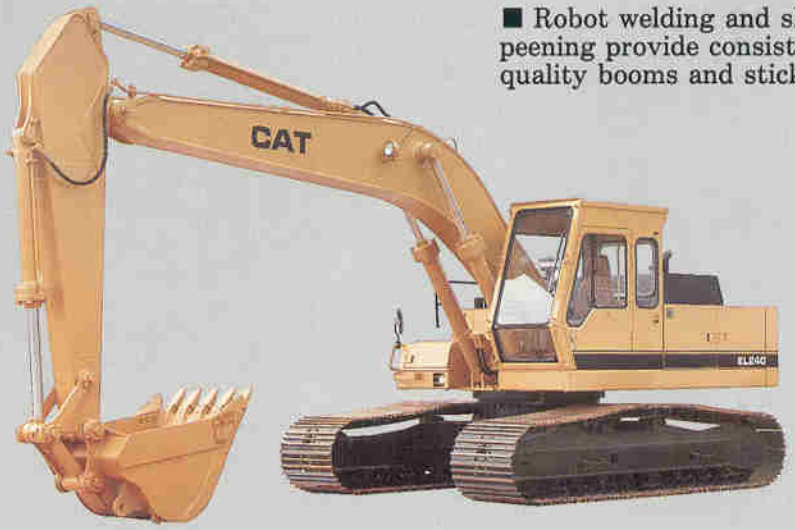
Built to withstand the toughest working conditions.

■ Durable front structures:

- High tensile steel is used at every strategic point ...greater structural strength for long life.
- Boom foot pin is chrome plated for excellent wear resistance.

■ Carbody is a box section, "H-shaped" design...capable of withstanding high loads imposed through the upperstructure by the front implements.

■ Forgings are used in high-stress areas of booms and sticks...increased strength, improved durability.



■ Robot welding and shot peening provide consistent, high quality booms and sticks.

Operator's Compartment

Spacious design promotes comfort and ease of operation

■ Joysticks control all front end and swing functions.

- Pilot-operated controls reduce lever effort for greater operator comfort and productivity. Short levers allow wrist-action control.
- Neutral-sensing feature increases pump flow in direct proportion to joystick movement...operator has precise control for maximum performance.

■ Machine monitoring system alerts operator to potential component or system problems.

- Red warning light and buzzer provide two-level warning ...allow operator to shut down machine before costly damage occurs.
- Pre-start feature allows operator to check hydraulic oil and coolant levels quickly and easily from seat...saves time and effort.

■ Excellent visibility and ventilation. Sliding rear window and roll-down door window permit good cross ventilation. Large roof hatch improves overhead visibility.

■ Lever and pedal travel controls offer maximum versatility...increased productivity.

- Pedals allow operator to work implement joysticks for fine grading, pipe handling.
- Levers allow inching for precise operation.
- Levers can be removed from pedals...gives operator a choice.

FEATURES

Serviceability

Less time spent on maintenance gives you more time on the job.

■ Floating seals used in all undercarriage bearings... eliminate need for greasing.

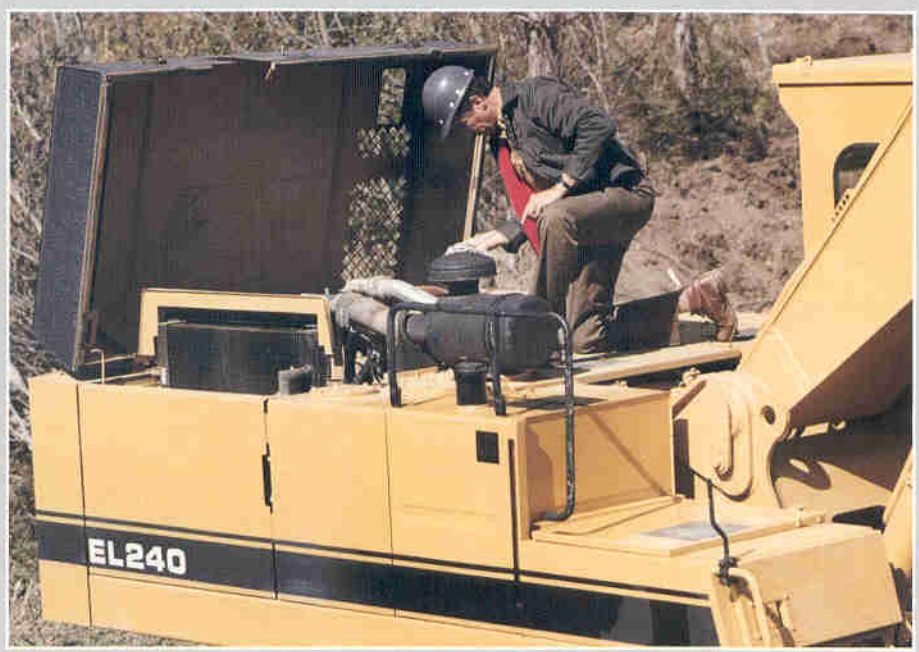
■ Swing-out side doors open left and right to simplify hydraulic equipment inspection and filter changes.

■ Centralized lube points for all front-end greasing.

■ Engine hood opens wide for easy access to inspection locations.

■ Key locks on side panels, engine hood, fuel tank cap and tool box. All locks open with same key.

■ No need for special gear oil; motor oil is used for the engine and gear boxes.



Total Customer Support

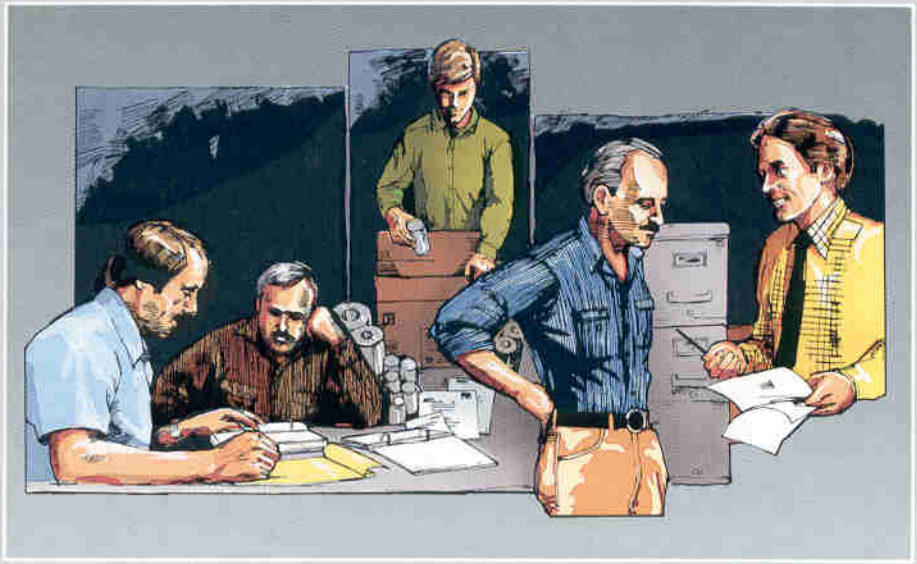
Unmatched in the industry.

■ Parts availability—Most Cat parts are immediately available off the shelf. Dealer availability is backed up by Cat's computer-controlled, emergency search system.

■ Service capability—Whether in the dealer's fully equipped shop, or in the field, you'll get factory trained servicemen using the latest technology and tooling.

■ Machine management services—Cat dealers help you manage your equipment investments with:

- Custom Track Service.
- Effective preventive maintenance programs.
- Diagnostic programs like Scheduled Oil Sampling and Technical Analysis.
- Information to make the most cost effective repair option decisions.
- Customer meetings, training for operators and mechanics.



■ Exchange components for quick repairs—Low cost components assure maximum, cost effective uptime.

■ Literature support—Easy-to-use operation and maintenance guides help you get the full value out of your equipment investment.

Engine

Flywheel power at 2200 RPM, 110.3 kW/**148 HP** (Kilowatts (kW) is the International System of Units equivalent to horsepower.)

Net power at the flywheel of the vehicle engine is based on SAE J1349 standard conditions of 25°C/77°F and 100 kPa/29.61" Hg. Fuel is 35 API (15.6°C/60°F) gravity having an LHV of 42 780 kJ/kg (18,390 Btu/lb) *when used at 29.4°C/85°F and weighing 828,9 g/L* (7.001 lb/U.S. gal). *Engine is equipped with fan, air cleaner, alternator, water pump, fuel pump, muffler, and lubricating oil pump. No derating is required up to 1980 m/*6,500 ft. *altitude.*

Cat four-stroke-cycle 3304 turbocharged diesel Engine, four cylinder, with 121 mm/**4.75"** bore, 152 mm/**6.0"** stroke and 7.0 liters/**425 in³** displacement.

Direct-injection fuel system with individual, adjustment-free injection pumps and valves, and variable injection timing.

Integral inlet manifold porting with one intake and one exhaust valve per cylinder.

24-volt direct electric starting system, (two 12-volt, 150 amp-hour batteries) with 7.5 kW starting motor.

Controls

Two joystick hand levers actuate boom, stick, bucket and swing.

Right Lever: Move forward and backward to lower and raise boom. Move right and left to control bucket curl and dump.

Left Lever: Move forward and backward to move stick out and in. Move left and right to control swing direction.

Oblique movement of either lever operates any two functions simultaneously. Manually applied lever on the left console completely neutralizes the joystick controls.

SPECIFICATIONS

Brakes

Two oil-disc brakes on final drive input shafts. Spring-applied, hydraulically released. Depressing a travel pedal simultaneously disengages brakes. When pedal is released, brakes automatically apply.

Steering

Two rocker pedals with detachable hand levers control steering and travel functions. Left pedal and lever control left track, and right pedal and lever control right track. When idlers are in front: (1) Pushing both pedals or levers forward moves the excavator straight ahead. (2) Rocking both pedals or pulling both levers backward moves the excavator straight back. (3) Moving one pedal or lever forward and the other pedal or lever backward counter-rotates the tracks for spot turns.

Service Refill Capacities

	Liters	U.S. Gallons
Fuel Tank	280	74.0
Cooling System	26.4	7.0
Lubrication:		
Engine Oil	20.0	5.3
Swing reduction gear set	9.5	2.5
Final Drives (each)	7.5	2.0
Hydraulic System (includes tank)	300	79.3
Hydraulic Tank	170	44.9

Swing Mechanism

Case-hardened drive gears are splash lubricated. Axial piston hydraulic motor drives output pinion through planetary gear reduction set. Optional swing holding brake is available to hold upper structure on side slopes. Rocker switch actuated, oil-disc brake is spring-applied, hydraulically released. It is located between the hydraulic motor and swing drive. Swing speed is 10.2 RPM at rated engine speed.

Note: All specifications are converted from metric to British measure and are rounded, unless otherwise specified.

Standard Equipment

NOTE: Standard and optional equipment may vary. Consult your Caterpillar Dealer for specifics.

- Cat diesel Engine Model 3304 water cooled, direct injection, 24V electric starting, 35-ampere alternator, 7.5 kW starting motor.
- Cab (sound suppressed; floor mat; cigar lighter; dome light; break-resistant, LEXAN sheet used in all windows except roll-down cab window and front windshield; laminated safety glass used in upper front retractable windshield; clear, tempered safety glass used in lower front window and roll-down window; four-way, adjustable-reclining seat, gauge instrumentation with pre-start monitoring of hydraulic oil and coolant levels).
- Counterweight.
- Electric horn.
- Heater/defroster.
- Auxiliary hydraulic valve, less lines to boom foot.
- 16-function monitoring system with audio and visual alarms.
- One key security system.
- Pilot controls with hydraulic neutralizing lever.
- Seat belt.
- Travel alarm.
- Travel control pedals with removable levers.
- Undercarriage with 800 mm/32" triple grouser tracks; hydraulic track adjuster; end and center track guiding guard; hydrostatic drive with automatic oil-disc track brakes.
- Windshield wiper and washer.
- Working lights (one on frame; two on boom).
- Inspection light in engine compartment.

Optional Equipment

Air conditioner
AM/FM radio
Automatic Engine Speed Control
Cab roof guard
Hydraulic hammer installation
600 mm/24" triple grouser shoes
Swing holding brake
Refueling pump
Auxiliary hydraulic lines

SPECIFICATIONS

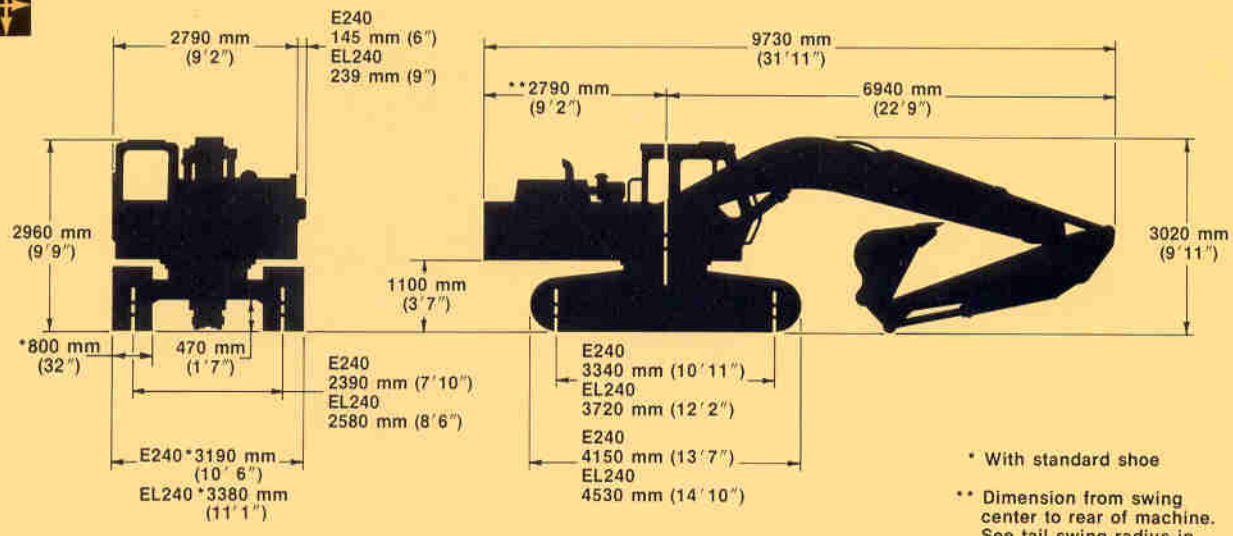
Specifications

Transport Dimensions	
Overall length	9730mm/31'11"
Overall width (with 800 mm/32" shoe)	E240 — 3190 mm/10'6" EL240 — 3380 mm/11'1"
Overall height	3020 mm/9'11"
Digging Force — 2220 mm/7'3" Stick	
Bucket cylinder	13 000 kg/28,660 lb
Stick cylinder	12 100 kg/26,675 lb
Digging Force — 2800 mm/9'2" Stick	
Bucket cylinder	13 000 kg/28,660 lb
Stick cylinder	10 000 kg/22,046 lb
Digging Force — 3500 mm/11'6" Stick	
Bucket Cylinder	13 000 kg/28,660 lb
Stick Cylinder	8500 kg/18,740 lb
Track	
Overall length	E240 — 4150 mm/13'7" EL240 — 4530 mm/14'10"
Overall width (with 800 mm/32" shoe)	E240 — 3190 mm/10'6" EL240 — 3380 mm/11'1"
Shoe width*	600 mm/24" 800 mm/32" Std.

* Specifications are converted from metric to British measure and rounded to industry standards.

Hydraulic System		
Pumps	Type	Variable-displacement, axial piston
	Pressure	280 kg/cm²/3983 psi
	Delivery	230 l/min/61 U.S. gal/min X 2
	No. of Pumps	2
Swing motor	Type	Fixed-displacement, axial piston
	No. of motors	1
Travel motors	Type	Fixed-displacement, axial piston
	No. of motors	2
Maneuverability		
Travel speed		E240 — 3.7 km/h/2.3 mph EL240 — 3.4 km/h/2.1 mph
Gradeability		70%/35°
Ground clearance		470 mm/1'7"
Swing Mechanism		
Max. swing speed		10.2 RPM
Tail swing radius		2900 mm/9'6"

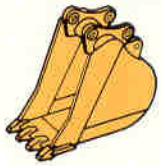
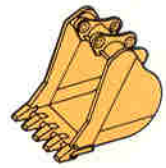
Dimensions (approximate)

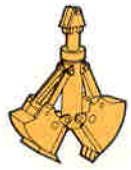
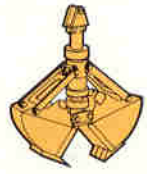


* With standard shoe

** Dimension from swing center to rear of machine. See tail swing radius in above chart.

Attachments*

Front-end Attachment	Backhoe Buckets		
	SAE 760 liters/1.0 yd.³	SAE 970 liters/1.25 yd.³	SAE 985 liters/1.25 yd.³
			
	**775 mm/30"	**925 mm/36"	**1075 mm/42"
2220 mm/7'3" Stick	●	●	●
2800 mm/9'2" Stick	●	●	●
3500 mm/11'6" Stick	●	●	●

Front-end Attachment	Clamshell Buckets		Ripper
	SAE 570 liters/.75 yd.³	SAE 760 liters/1.0 yd.³	
			
2220 mm/7'3" Stick	●	●	●
2800 mm/9'2" Stick	●	■	N/A
3500 mm/11'6" Stick	●	N/A	N/A

● Available ■ Limited only for light duty (for loading) N/A Not applicable

* Larger buckets are available from AEM manufacturers. Check with your local Cat dealer for specifics.

** Specifications are converted from metric to British measure and rounded to industry standards.

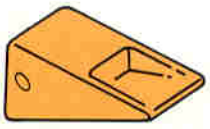
SPECIFICATIONS

Attachments

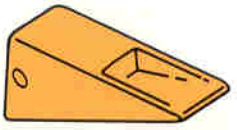
Bucket Type	Bucket Bite Width* mm	in	Bucket Tip Radius mm	in	SAE Capacity L	yd³	Weight With Teeth kg	lb
Trenching	775	30	1653	65	760	1.0	725	1598
Trenching	925	36	1653	65	970	1.25	827	1823
Trenching	1075	42	1543	61	985	1.25	817	1801

* Specifications are converted from metric to British measure and rounded to industry standards.

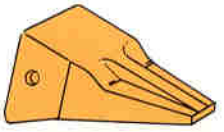
Teeth



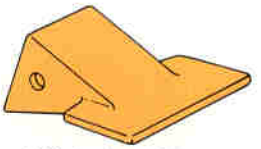
Short (severe)... for tough digging.



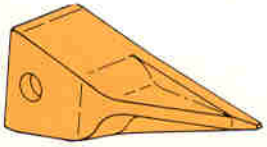
Long (general purpose)... for most digging applications.



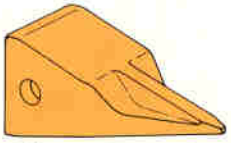
Penetration... self-sharpening for digging in tough, compacted material.



Wide (spade)... easy digging materials, for load retention and clean-up grading.



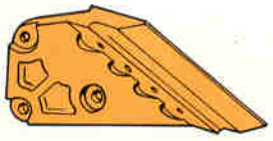
Sharp (corner)



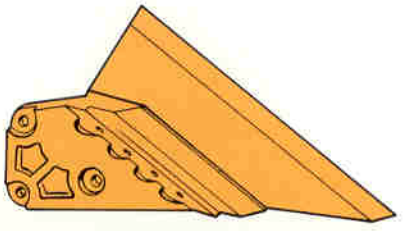
Sharp (center)

Sharp Tip...a special application ground engaging tool, designed to provide maximum penetration. It is recommended only when maximum penetration is the most important tip selection criterion — more important than wear life and strength.

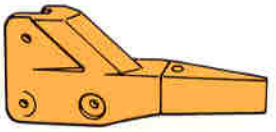
Sidecutters



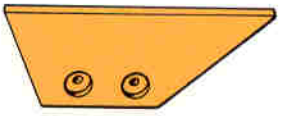
One-piece blade... effective in average digging conditions. Widens bite width 38 mm/1.5" each side.



Blade with extension...for light to moderate digging conditions. Extension bolts to one-piece blade and widens bite width 76 mm/3" on each side.

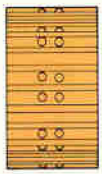
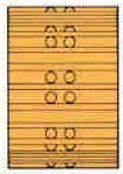


Tooth-type... for severe digging applications. Widens bite width 76 mm/3" on each side.



Strike-off... protects bucket corners from wear. Does not widen bite width.

Track Shoes

Type	Triple Grouser	
		
Shoe Width*	600 mm/24"	800 mm/32"
Ground Pressure	0.44 kg/cm²/6.26 psi	0.35 kg/cm²/4.98 psi
Operating Weight** E240	22 500 kg/49,605 lb	23 000 kg/50,705 lb
Operating Weight** EL240	23 000 kg/50,705 lb	23 600 kg/52,030 lb

* Specifications are converted from metric to British measure and are rounded to industry standards.
** with 970 liters/1.25 yd³ bucket and 2800 mm/9' 2" stick.
Specifications subject to change without notice.

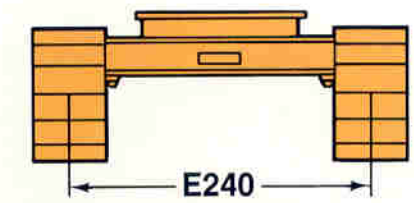
Two Undercarriage Options

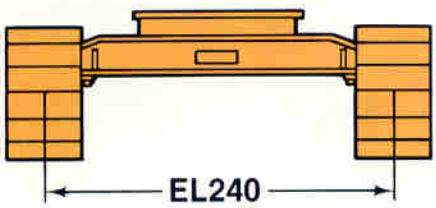
Track Gauge

Two track gauges are available. The E240, with a standard undercarriage, has a 2390 mm/7' 10" track gauge to provide easier transport and the maneuverability to work in tight quarters. The EL240, with its longer undercarriage, has an increased track gauge of 2580 mm/8' 6" for increased flotation and stability. This wider track gauge also assures easier turning with the long undercarriage.

Track Length

The E240 has a standard undercarriage length of 4150 mm/13' 7" from end to end. It provides a stable platform for many applications around the world and is especially well-suited to hard or rock underfoot conditions. The EL240 has a 9% longer undercarriage, end-to-end length of 4530 mm/14' 10", which provides additional flotation in soft underfoot conditions. The longer undercarriage, combined with the wider track gauge, also provides additional stability for higher lift capacity.

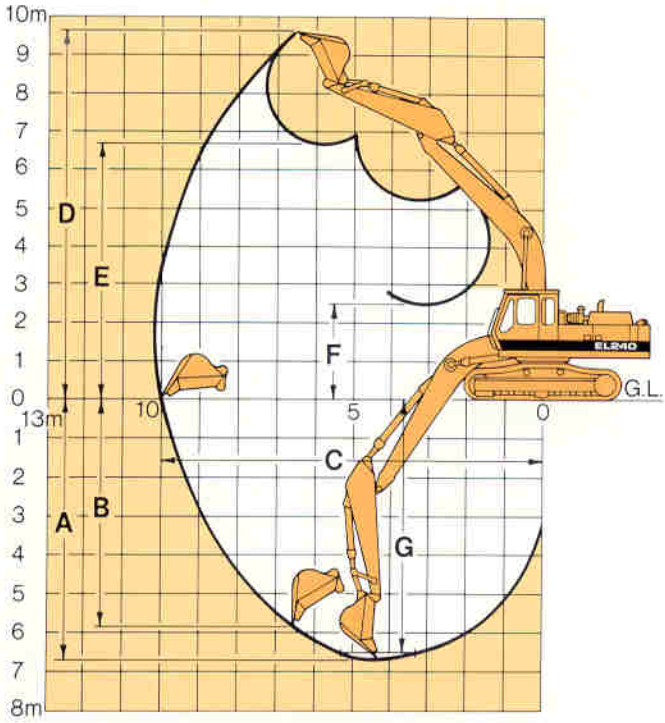




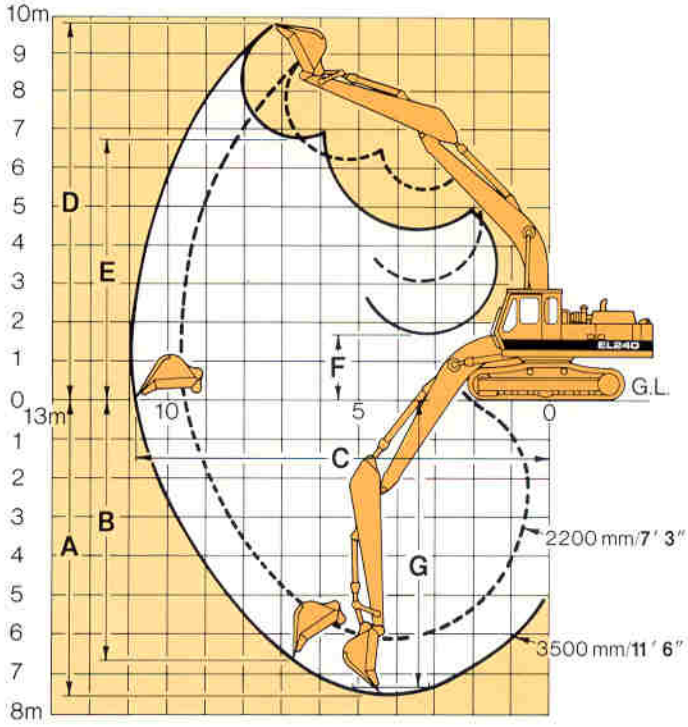
SPECIFICATIONS

Working Ranges and Digging Forces

2800 mm/9' 2" Stick

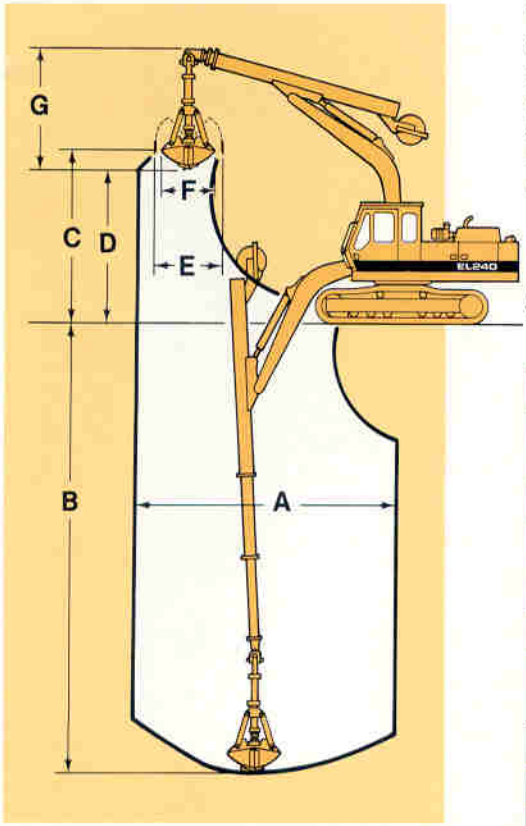


2220 mm/7' 3" Stick & 3500 mm/11' 6" Stick



STICK	2800 mm/9' 2"	2220 mm/7' 3"	3500 mm/11' 6"
A Maximum digging depth	6710 mm/22'	6110 mm/20' 1"	7410 mm/24' 4"
B Maximum vertical wall digging depth	5910 mm/19' 5"	5030 mm/16' 6"	6550 mm/21' 6"
C Maximum reach at ground level	10 000 mm/32' 10"	9400 mm/30' 10"	10 600 mm/34' 9"
D Maximum cutting height	9600 mm/31' 6"	9190 mm/30' 2"	9730 mm/31' 11"
E Maximum dumping height	6640 mm/21' 9"	6290 mm/20' 8"	6780 mm/22' 3"
F Minimum dumping height	2520 mm/8' 3"	3120 mm/10' 3"	1820 mm/6'
G Digging depth at 8' flat floor	6530 mm/21' 5"	5910 mm/19' 5"	7260 mm/23' 10"
Digging Force:			
Stick	10 000 kg/22,046 lb.	12 100 kg/26,675 lb.	8500 kg/18,740 lb.
Bucket	13 000 kg/28,660 lb.	13 000 kg/28,660 lb.	13 000 kg/28,660 lb.

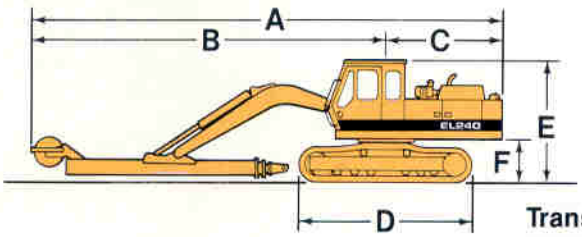
Telescopic Stick & Special Clamshell Buckets



This arrangement is used in the same applications as clamshell buckets on conventional sticks, but it provides additional digging depth and dump height. The stick can be hydraulically extended and retracted, so the machine can dig more than 20.4 m/67' deep. The special clamshell buckets used in this arrangement are different from the clamshell buckets available for use with conventional sticks. Bucket dimensions differ and an ejector is offered for ease in material removal.

Specifications

	E240	EL240
Weight	25 500 kg/56,217 lb.	26 550 kg/58,532 lb.
Bucket Capacity (with ejector)	500 liters/.65 yd³	800 liters/1 yd³
Type	Hydraulic Actuation	Hydraulic Actuation
Speed: Extend	12 seconds	12 seconds
Retract	14 seconds	14 seconds
Down Pressure	5500 kg/12,125 lb.	5500 kg/12,125 lb.
Additional Counterweight	500 kg/1,102 lb.	500 kg/1,102 lb.
A Reach	9500 mm/31'2"	8000 mm/26'3"
B Depth	20 445 mm/67'1"	20 490 mm/67'3"
C Height	5405 mm/17'9"	5410 mm/17'9"
D Dump	5045 mm/16'7"	5000 mm/16'5"
E Max. Opening	1580 mm/5'2"	1635 mm/5'4"
F Side profile width (bucket closed)	1376 mm/4'6"	1440 mm/4'9"
G Distance from stick end to bottom of bucket	3040 mm/10'	3085 mm/10'1"
Cutting Width	982 mm/3'3"	1328 mm/4'4"



Transport Dimensions:	E240	EL240
A	14 775 mm/48'6"	14 775 mm/48'6"
B	11 910 mm/39'1"	11 910 mm/39'1"
C	2790 mm/9'2"	2790 mm/9'2"
D	4150 mm/13'7"	4530 mm/14'10"
E	2960 mm/9'9"	2960 mm/9'9"
F	1100 mm/3'7"	1100 mm/3'7"

SPECIFICATIONS

LONG REACH ARRANGEMENT

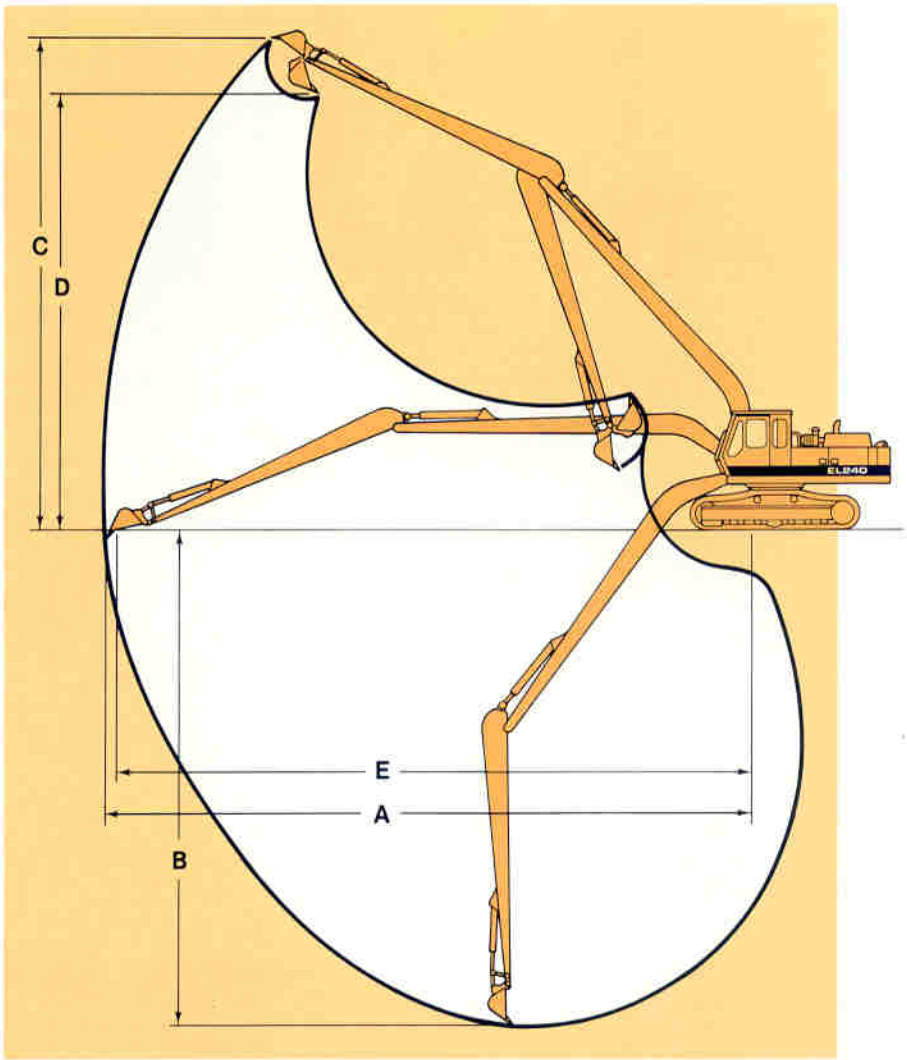
The long reach excavator offers unprecedented power and performance for river conservation and dredging work formerly reserved for draglines. Even under soft and swampy conditions, where most conventional excavators are not suitable, the long reach attachment enables stable river-side operation. A ditch cleaning bucket is available for dredging sludge deposits and mud from river beds and canals. Holes in the bucket allow water to drain.

NOTE: This attachment is mainly for river conservation and dredging work, and is not suggested for ordinary excavation.

Long Reach Attachment

Front end attachment type	Boom length mm (ft. in.)	Stick length mm (ft. in.)	Bucket capacity JIS liter (SAE yd.³)	
			Backhoes	Ditch-cleaning
18 350 mm/60′ 2″	10 200 mm/33′ 6″	7900 mm/25′ 11″	400 (.625)	600 (.875)

Additional counterweight provided for Long Reach Attachment = 600 kg/1323 lb.



A Maximum reach	18 450 mm/60' 6"
B Maximum digging depth	14 630 mm/48'
C Maximum cutting height	13 720 mm/45'
D Maximum dumping height	11 720 mm/38' 5"
E Maximum reach at ground level	18 350 mm/60' 2"

Long Reach Attachment Transport Dimensions E240, EL240	
Overall Machine Length (Front Folded)	14 140 mm/46' 5"
Overall Height (to top of boom)	3850 mm/12' 8"

Lift Capacities

STICK — 2220 mm/**7' 3"**
BUCKET — 970 liters/**1.25 yd³** backhoe bucket
SHOE — 600 mm/**24"** triple grouser shoe

E240

BUCKET HOOK HEIGHT		LOAD RADIUS												MAXIMUM LOAD RADIUS		
		1.5 m/5.0 ft.		3.0 m/10.0 ft.		4.5 m/15.0 ft.		6.0 m/20.0 ft.		7.5 m/25.0 ft.		9.0 m/30.0 ft.				
		OVER FRONT	OVER SIDE	OVER FRONT	OVER SIDE	OVER FRONT	OVER SIDE	OVER FRONT	OVER SIDE	OVER FRONT	OVER SIDE	OVER FRONT	OVER SIDE	OVER FRONT	OVER SIDE	m ft
7.5 m	kg							*3850	*3850					*3450	*3450	7.29
25.0 ft	**lb**							***8350**	***8350**					***7650**	***7650**	**23.59**
6.0 m	kg							*4900	*4900	*4000	3350			*3350	2800	8.31
20.0 ft	**lb**							***10,750**	**10,650**	***8350**	**7200**			***7300**	**6200**	**27.09**
4.5 m	kg					*6600	*6600	*5450	4800	4600	3200			*3300	2350	8.90
15.0 ft	**lb**					***14,250**	***14,250**	***11,800**	**10,300**	**9850**	**6850**			***7300**	**5200**	**29.15**
3.0 m	kg					*8750	7050	*6400	4500	4500	3100	3300	2250	3200	2150	9.18
10.0 ft	**lb**					***18,750**	**15,150**	***13,800**	**9700**	**9600**	**6650**	**7050**	**4800**	**7000**	**4750**	**30.10**
1.5 m	kg					9850	6550	6200	4250	4350	2950	3250	2200	3150	2100	9.16
5.0 ft	**lb**					**21,100**	**14,050**	**13,300**	**9100**	**9300**	**6350**	**6900**	**4650**	**6850**	**4600**	**30.07**
GROUND	kg					9600	6300	6000	4050	4250	2850			3300	2200	8.86
LINE	**lb**					**20,550**	**13,550**	**12,900**	**8700**	**9100**	**6150**			**7200**	**4850**	**29.06**
-1.5 m	kg			*6050	*6050	9600	6300	5950	4000	4200	2850			3700	2500	8.22
-5.0 ft	**lb**			***13,550**	***13,550**	**20,550**	**13,550**	**12,750**	**8600**	**9050**	**6100**			**8150**	**5550**	**26.94**
-3.0 m	kg			*13 800	13 300	9700	6400	6000	4050					4700	3250	7.16
-10.0 ft	**lb**			***30,050**	**28,400**	**20,800**	**13,750**	**12,900**	**8750**					***10,450**	**7150**	**23.33**
-4.5 m	kg					*8700	6650							*6200	5250	5.34
-15.0 ft	**lb**					***18,550**	**14,350**							***13,800**	**11,750**	**17.33**

EL240

BUCKET HOOK HEIGHT		LOAD RADIUS												MAXIMUM LOAD RADIUS		
		1.5 m/5.0 ft.		3.0 m/10.0 ft.		4.5 m/15.0 ft.		6.0 m/20.0 ft.		7.5 m/25.0 ft.		9.0 m/30.0 ft.				
		OVER FRONT	OVER SIDE	OVER FRONT	OVER SIDE	OVER FRONT	OVER SIDE	OVER FRONT	OVER SIDE	OVER FRONT	OVER SIDE	OVER FRONT	OVER SIDE	OVER FRONT	OVER SIDE	m ft
7.5 m	kg							*3850	*3850					*3450	*3450	7.29
25.0 ft	**lb**							***8350**	***8350**					***7650**	***7650**	**23.59**
6.0 m	kg							*4900	*4900	*4000	3750			*3350	3150	8.31
20.0 ft	**lb**							***10,750**	***10,750**	***8350**	**8100**			***7300**	**7000**	**27.09**
4.5 m	kg					*6600	*6600	*5450	5400	*5100	3650			*3300	2700	8.90
15.0 ft	**lb**					***14,250**	***14,250**	***11,800**	**11,550**	***11,250**	**7750**			***7300**	**5950**	**29.15**
3.0 m	kg					*8750	7950	*6400	5100	5350	3500	*3600	2550	*3450	2450	9.18
10.0 ft	**lb**					***18,750**	**17,150**	***13,800**	**10,900**	**11,500**	**7500**	***7550**	**5450**	***7500**	**5400**	**30.10**
1.5 m	kg					*10 500	7450	*7400	4800	5200	3400	*3900	2500	*3650	2400	9.16
5.0 ft	**lb**					***22,750**	**16,000**	***16,000**	**10,300**	**11,200**	**7250**	***8050**	**5350**	***8000**	**5300**	**30.07**
GROUND	kg					*10 300	7200	7250	4650	5100	3300			3950	2550	8.86
LINE	**lb**					***24,750**	**15,450**	**15,600**	**9950**	**10,950**	**7050**			**8700**	**5550**	**29.06**
-1.5 m	kg			*6050	*6050	*11 250	7200	7200	4550	5100	3250			4450	2850	8.22
-5.0 ft	**lb**			***13,550**	***13,550**	***24,400**	**15,500**	**15,450**	**9800**	**10,900**	**7000**			**9850**	**6300**	**26.94**
-3.0 m	kg			*13 800	*13 800	*10 500	7350	7300	4650					*4800	3650	7.16
-10.0 ft	**lb**			***30,050**	***30,050**	***22,700**	**15,700**	**15,600**	**9950**					***10,450**	**8150**	**23.33**
-4.5 m	kg					*8700	7600							*6200	5950	5.34
-15.0 ft	**lb**					***18,550**	**16,300**							***13,800**	**13,300**	**17.33**

*Indicates the load is limited by hydraulic capacity rather than tipping.
Lift Capacity Ratings are based on SAE Standard J1097. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

Lift Capacities

STICK — 2800 mm/**9' 2"**
BUCKET — 970 liters/**1.25 yd³** backhoe bucket
SHOE — 600 mm/**24"** triple grouser shoe

E240

BUCKET HOOK HEIGHT		LOAD RADIUS 1.5 m/5.0 ft. OVER FRONT	1.5 m/5.0 ft. OVER SIDE	3.0 m/10.0 ft. OVER FRONT	3.0 m/10.0 ft. OVER SIDE	4.5 m/15.0 ft. OVER FRONT	4.5 m/15.0 ft. OVER SIDE	6.0 m/20.0 ft. OVER FRONT	6.0 m/20.0 ft. OVER SIDE	7.5 m/25.0 ft. OVER FRONT	7.5 m/25.0 ft. OVER SIDE	9.0 m/30.0 ft. OVER FRONT	9.0 m/30.0 ft. OVER SIDE	MAXIMUM LOAD RADIUS OVER FRONT	MAXIMUM LOAD RADIUS OVER SIDE	MAXIMUM LOAD RADIUS m ft
7.5 m	kg									*2450	*2450			*2200	*2200	8.05
25.0 ft	**lb**									***5200**	***5200**			***4900**	***4900**	**26.11**
6.0 m	kg									*3500	3350			*2100	*2100	8.97
20.0 ft	**lb**									***6400**	***6400**			***4650**	***4650**	**29.27**
4.5 m	kg							*4850	*4850	*4550	3300	*2400	2350	*2100	2100	9.52
15.0 ft	**lb**							***10,500**	***10,500**	***10,000**	**7000**	***5000**	**4950**	***4600**	**4600**	**31.16**
3.0 m	kg			*10 650	*10 650	*7700	7350	*5850	4600	4550	3150	*2700	2250	*2150	1900	9.77
10.0 ft	**lb**			***26,200**	***26,200**	***16,500**	**15,750**	***12,650**	**9900**	**9800**	**6700**	***5650**	**4750**	***4700**	**4200**	**32.04**
1.5 m	kg					*9950	6700	6350	4300	4400	3000	*3000	2150	*2300	1850	9.76
5.0 ft	**lb**					***21,400**	**14,400**	**13,600**	**9250**	**9450**	**6400**	***6250**	**4600**	***5050**	**4100**	**32.02**
GROUND	kg			*3700	*3700	9750	6400	6100	4100	4300	2900	*3100	2100	*2550	1950	9.47
LINE	**lb**			***8300**	***8300**	**20,900**	**13,700**	**13,100**	**8800**	**9150**	**6150**	***6450**	**4550**	***5550**	**4250**	**31.08**
-1.5 m	kg	*3300	*3300	*5500	*5500	9700	6300	6000	4000	4200	2800			*2900	2200	8.89
-5.0 ft	**lb**	***7250**	***7250**	***12,800**	***12,800**	**20,700**	**13,550**	**12,850**	**8600**	**9050**	**6050**			***6450**	**4800**	**29.13**
-3.0 m	kg	*7000	*7000	*11 650	*11 650	9750	6350	6000	4000	4250	2850			*3600	2700	7.93
-10.0 ft	**lb**	***15,900**	***15,900**	***26,600**	***26,600**	**20,850**	**13,650**	**12,900**	**8600**	**9150**	**6100**			***8000**	**5950**	**25.89**
-4.5 m	kg			*13 150	*13 150	*9600	6550	6150	4150					*4000	3950	6.39
-15.0 ft	**lb**			***28,400**	***28,400**	***20,650**	**14,050**	**13,250**	**8950**					***8750**	***8750**	**20.69**

EL240

BUCKET HOOK HEIGHT		LOAD RADIUS 1.5 m/5.0 ft. OVER FRONT	1.5 m/5.0 ft. OVER SIDE	3.0 m/10.0 ft. OVER FRONT	3.0 m/10.0 ft. OVER SIDE	4.5 m/15.0 ft. OVER FRONT	4.5 m/15.0 ft. OVER SIDE	6.0 m/20.0 ft. OVER FRONT	6.0 m/20.0 ft. OVER SIDE	7.5 m/25.0 ft. OVER FRONT	7.5 m/25.0 ft. OVER SIDE	9.0 m/30.0 ft. OVER FRONT	9.0 m/30.0 ft. OVER SIDE	MAXIMUM LOAD RADIUS OVER FRONT	MAXIMUM LOAD RADIUS OVER SIDE	MAXIMUM LOAD RADIUS m ft
7.5 m	kg									*2450	*2450			*2200	*2200	8.05
25.0 ft	**lb**									***5200**	***5200**			***4900**	***4900**	**26.11**
6.0 m	kg									*3500	*3500			*2100	*2100	8.97
20.0 ft	**lb**									***6400**	***6400**			***4650**	***4650**	**29.27**
4.5 m	kg							*4850	*4850	*4550	3700	*2400	*2400	*2100	*2100	9.52
15.0 ft	**lb**							***10,500**	***10,500**	***10,000**	**7900**	***5000**	***5000**	***4600**	***4600**	**31.16**
3.0 m	kg			*10 650	*10 650	*7700	*7700	*5850	5200	*5050	3550	*2700	2550	*2150	*2150	9.77
10.0 ft	**lb**			***26,200**	***26,200**	***16,500**	***16,500**	***12,650**	**11,150**	***10,950**	**7650**	***5650**	**5450**	***4700**	***4700**	**32.04**
1.5 m	kg					*9950	7650	*6950	4900	5300	3400	*3000	2500	*2300	2150	9.76
5.0 ft	**lb**					***21,400**	**16,400**	***15,050**	**10,500**	**11,400**	**7300**	***6250**	**5300**	***5050**	**4750**	**32.02**
GROUND	kg			*3700	*3700	*11 150	7300	7400	4700	5200	3300	*3100	2450	*2550	2250	9.47
LINE	**lb**			***8300**	***8300**	***24,100**	**15,700**	**15,900**	**10,050**	**11,100**	**7050**	***6450**	**5250**	***5550**	**4950**	**31.08**
-1.5 m	kg	*3300	*3300	*5500	*5500	*11 400	7250	7300	4600	5100	3250			*2900	2500	8.89
-5.0 ft	**lb**	***7250**	***7250**	***12,800**	***12,800**	***24,650**	**15,500**	**15,650**	**9850**	**10,950**	**6950**			***6450**	**5500**	**29.13**
-3.0 m	kg	*7000	*7000	*11 650	*11 650	*10 950	7300	7300	4600	5150	3250			*3600	3100	7.93
-10.0 ft	**lb**	***15,900**	***15,900**	***26,600**	***26,600**	***23,650**	**15,650**	**15,700**	**9850**	**11,050**	**7000**			***8000**	**6800**	**25.89**
-4.5 m	kg			*13 150	*13 150	*9600	7500	*7050	4750					*4000	*4000	6.39
-15.0 ft	**lb**			***28,400**	***28,400**	***20,650**	**16,050**	***14,950**	**10,200**					***8750**	***8750**	**20.69**

*Indicates the load is limited by hydraulic capacity rather than tipping.
Lift Capacity Ratings are based on SAE Standard J1097. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

Lift Capacities

STICK — 3500 mm/**11'6"**
BUCKET — 760 liters/**1.0 yd³** backhoe bucket
SHOE — 600 mm/**24"** triple grouser shoe

E240

BUCKET HOOK HEIGHT		LOAD RADIUS 1.5 m/5.0 ft. OVER FRONT	1.5 m/5.0 ft. OVER SIDE	3.0 m/10.0 ft. OVER FRONT	3.0 m/10.0 ft. OVER SIDE	4.5 m/15.0 ft. OVER FRONT	4.5 m/15.0 ft. OVER SIDE	6.0 m/20.0 ft. OVER FRONT	6.0 m/20.0 ft. OVER SIDE	7.5 m/25.0 ft. OVER FRONT	7.5 m/25.0 ft. OVER SIDE	9.0 m/30.0 ft. OVER FRONT	9.0 m/30.0 ft. OVER SIDE	MAXIMUM LOAD RADIUS OVER FRONT	MAXIMUM LOAD RADIUS OVER SIDE	MAXIMUM LOAD RADIUS m ft
7.5 m **25.0 ft**	kg **lb**									*2200 ***4650**	*2200 ***4650**			*1700 ***3750**	*1700 ***3750**	8.78 **28.53**
6.0 m **20.0 ft**	kg **lb**									*3750 ***7950**	3450 **7350**	*1850 ***3850**	*1850 ***3850**	*1650 ***3600**	*1650 ***3600**	9.62 **31.41**
4.5 m **15.0 ft**	kg **lb**									*4050 ***8800**	3350 **7150**	*2150 ***4450**	*2150 ***4450**	*1650 ***3550**	*1650 ***3550**	10.12 **33.16**
3.0 m **10.0 ft**	kg **lb**			*8950 ***15,900**	*8950 ***15,900**	*6500 ***13,950**	*6500 ***13,950**	*5200 ***11,200**	4700 **10,150**	*4550 **9850**	3200 **6850**	3300 ***6900**	2550 **4750**	*1700 ***3700**	*1700 ***3700**	10.36 **33.98**
1.5 m **5.0 ft**	kg **lb**			*5450 ***12,450**	*5450 ***12,450**	*8900 ***19,100**	6850 **14,700**	6350 **13,650**	4350 **9400**	4400 **9400**	3000 **6450**	3200 **6850**	2150 **4550**	*1800 ***3950**	1650 **3600**	10.35 **33.96**
GROUND LINE	kg **lb**			*3600 ***8000**	*3600 ***8000**	9650 **20,700**	6350 **13,650**	6050 **13,000**	4100 **8800**	4250 **9050**	2850 **6100**	3100 **6700**	2050 **4400**	*2000 ***4450**	1700 **3750**	10.09 **33.09**
-1.5 m **-5.0 ft**	kg **lb**	*3200 ***7200**	*3200 ***7200**	*6200 ***14,150**	*6200 ***14,150**	9450 **20,250**	6200 **13,250**	5900 **12,600**	3950 **8450**	4150 **8850**	2750 **5900**	3100 ***6200**	2050 **4350**	*2350 ***5150**	1900 **4100**	9.55 **31.28**
-3.0 m **-10.0 ft**	kg **lb**	*6950 ***15,650**	*6950 ***15,650**	*10 250 ***23,250**	*10 250 ***23,250**	9450 **20,250**	6150 **13,250**	5850 **12,500**	3900 **8350**	4100 **8800**	2750 **5850**			*2900 ***6400**	2250 **4950**	8.67 **28.33**
-4.5 m **-15.0 ft**	kg **lb**	*10 650 ***23,950**	*10 650 ***23,950**	*14 700 ***31,750**	12 900 **27,600**	9600 **20,550**	6300 **13,500**	5900 **12,700**	3950 **8550**					*4000 ***9000**	3050 **6900**	7.32 **23.73**
-6.0 m **-20.00 ft**	kg **lb**					*8200 ***17,250**	6600 **14,200**							*6350 ***14,300**	5450 **12,400**	5.16 **16.54**

EL240

BUCKET HOOK HEIGHT		LOAD RADIUS 1.5 m/5.0 ft. OVER FRONT	1.5 m/5.0 ft. OVER SIDE	3.0 m/10.0 ft. OVER FRONT	3.0 m/10.0 ft. OVER SIDE	4.5 m/15.0 ft. OVER FRONT	4.5 m/15.0 ft. OVER SIDE	6.0 m/20.0 ft. OVER FRONT	6.0 m/20.0 ft. OVER SIDE	7.5 m/25.0 ft. OVER FRONT	7.5 m/25.0 ft. OVER SIDE	9.0 m/30.0 ft. OVER FRONT	9.0 m/30.0 ft. OVER SIDE	MAXIMUM LOAD RADIUS OVER FRONT	MAXIMUM LOAD RADIUS OVER SIDE	MAXIMUM LOAD RADIUS m ft
7.5 m **25.0 ft**	kg **lb**									*2200 ***4650**	*2200 ***4650**			*1700 ***3750**	*1700 ***3750**	8.78 **28.53**
6.0 m **20.0 ft**	kg **lb**									*3750 ***7950**	*3750 ***7950**	*1850 ***3850**	*1850 ***3850**	*1650 ***3600**	*1650 ***3600**	9.62 **31.41**
4.5 m **15.0 ft**	kg **lb**									*4050 ***8800**	3750 **8050**	*2150 ***4450**	*2150 ***4450**	*1650 ***3550**	*1650 ***3550**	10.12 **33.16**
3.0 m **10.0 ft**	kg **lb**			*8950 ***15,900**	*8950 ***15,900**	*6500 ***13,950**	*6500 ***13,950**	*5200 ***11,200**	*5200 ***11,200**	*4550 ***9900**	3600 **7700**	*3600 ***6900**	2550 **5450**	*1700 ***3700**	*1700 ***3700**	10.36 **33.98**
1.5 m **5.0 ft**	kg **lb**			*5450 ***12,450**	*5450 ***12,450**	*8900 ***19,100**	7750 **16,700**	*6400 ***13,750**	4950 **10,600**	*5200 ***11,300**	3450 **7350**	3850 **8250**	2450 **5250**	*1800 ***3950**	*1800 ***3950**	10.35 **33.96**
GROUND LINE	kg **lb**			*3600 ***8000**	*3600 ***8000**	*10 550 ***22,750**	7250 **15,600**	7350 **15,700**	4650 **10,000**	5100 **10,950**	3250 **7000**	3800 **8100**	2400 **5100**	*2000 ***4450**	2000 **4350**	10.09 **33.09**
-1.5 m **-5.0 ft**	kg **lb**	*3200 ***7200**	*3200 ***7200**	*6200 ***14,150**	*6200 ***14,150**	*11 250 ***24,300**	7100 **15,200**	7150 **15,300**	4500 **9650**	5000 **10,700**	3150 **6800**	*3400 ***6200**	2350 **5050**	*2350 ***5150**	2150 **4750**	9.55 **31.28**
-3.0 m **-10.0 ft**	kg **lb**	*6950 ***15,650**	*6950 ***15,650**	*10 250 ***23,250**	*10 250 ***23,250**	*11 150 ***24,150**	7050 **15,150**	7100 **15,250**	4450 **9550**	4950 **10,650**	3150 **6750**			*2900 ***6400**	2600 **5700**	8.67 **28.33**
-4.5 m **-15.0 ft**	kg **lb**	*10 650 ***23,950**	*10 650 ***23,950**	*14 700 ***31,750**	*14 700 ***31,750**	*10 300 ***22,250**	7200 **15,450**	7200 **15,450**	4550 **9750**					*4000 ***9000**	3500 **7850**	7.32 **23.73**
-6.0 m **-20.0 ft**	kg **lb**					*8200 ***17,250**	7500 **16,150**							*6350 ***14,300**	6200 **14,050**	5.16 **16.54**

*Indicates the load is limited by hydraulic capacity rather than tipping.
Lift Capacity Ratings are based on SAE Standard J1097. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

CATERPILLAR

The Competitive Edge

Performance

- An auxiliary valve for additional attachments is a standard part of the main valve bank. This allows easy economical addition of grapples, hammers, etc. for added versatility.
- Proven performance with Cat 3304 Engine...low strain, long life.
- Variable-displacement piston pumps: Power proportioning — low resistance, high flow rate for fast cycles — high resistance, low flow rate, high pressure for maximum break out force — adjusts to application demand automatically.
- Load and wait operation — adjustable Automatic Engine Speed Control reduces engine RPM when controls are in neutral for fuel efficiency (5-15%), low noise levels.
- Neutral sensing controls pump flow — controls in neutral destrokes the pump, flow increases gradually in proportion to lever movement...fuel savings, easy cold weather starts, long pump life.

Reliability/Durability

- Carbody's internal compartments transfer weight and stress to track roller frames for stability — long life.
- Forgings at cylinder pivot points, built-in to spread loading stresses throughout the boom. Reduces maintenance, downtime.
- Undercarriage components designed specifically for excavator stress and impact loading — long life, more work.
- Integral track motors — completely sealed, smaller than the narrowest track shoe...lines routed through carbody legs...provide protection for the travel mechanism.

Maintenance/Repair

- Pivot points have sealed linkage to reduce maintenance.
- Proper track adjustment is essential and easy — convenient access, fast and simple with a grease gun.
- Daily service areas — strategically placed, fast access...allows more work time.
- Modular components — remove as single units for simpler, quicker repairs.
- Modules can be field installed...less shop time, downtime.
- Monitoring system — guards against costly, time-consuming failures when gauges aren't monitored properly.
- Pre-start monitoring of fluid levels: monitors (from operator's seat) the coolant level and hydraulic oil level before starting the machine.

Operating Ease

- Conveniently placed, precise, low-effort controls and easy-to-read, non-glare instrument panel — less strain, fatigue for a more productive operator.
- Fully adjustable seat standard for comfort, visibility.
- Windshield retractable for improved visibility, ventilation.
- Extra room with 940 mm/37" window-to-window inside cab dimension.

Total Customer Support

- Parts availability — most Cat parts on dealer's shelf when you need them — computer-controlled, emergency search system backup.
- Service capability — dealer's shop or fast field service — factory trained servicemen — latest tooling and technology.
- Machine management services — effective preventive maintenance programs, diagnostic programs (Scheduled Oil Sampling, Technical Analysis), cost effective repair options, customer meetings, operator and mechanic training.
- Exchange components for quick repairs — choose remanufactured products or rebuilt components for maximum availability and lower costs.
- Literature Support — easy-to-use operation, maintenance guides help you get the maximum value out of your equipment investment.
- Flexible Financing — your dealer can arrange attractive financing on the entire line of Cat equipment. Terms structured to meet your cash flow requirements. See how affordable and easy it is to own Cat equipment.

Materials and specifications subject to change without notice.

NX Arrangement
AEHQ2720 (8-87)
(Replaces AEHQ2661)

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