



Cat[®] 349F L

Hydraulic Excavator

Productivity

- Same bucket force, stick force, swing torque, and lift capability as the 349E.
- Emissions package works without interrupting the job process or operator.

Fuel Efficiency

- C13 ACERT™ engine meets U.S. EPA Tier 4 Final, EU Stage IV emission standards.
- Electronic, fuel, air, and aftertreatment integration enhances fuel efficiency, reduces emissions, and extends service intervals.
- Equipped to run on up to B20 biodiesel fuel for fuel-saving flexibility.
- Three power modes – high, standard, and eco – help manage fuel consumption.
- Automatic engine speed control lowers rpm based on load for reduced fuel consumption.
- Automatic engine idle shutdown turns off the engine when it idles for more than a specified amount of time.

Technology

- Cat[®] Connect technology improves job site efficiency.
- Product Link™/VisionLink[®] connects owners to equipment, providing access to machine location, hours, fuel consumption, idle time, events, and diagnostic codes.
- Optional Cat Grade Control Depth and Slope helps operators work more productively and accurately with less rework.

Serviceability

- Routine maintenance items like grease points, fluid taps, and filters are easy to reach.
- Service door design helps prevent debris entry, latching in place to enhance service.
- Side-by-side cooling system is efficient and enables easy cleaning.

Comfort

- Full-size roll-over protective structure (ROPS) certified cab is quiet and comfortable.
- Automatic climate control system helps maintain consistent cab temperature.
- Joysticks and armrests adjust for operator preference.
- Seats include heated and cooled options.
- LED monitor is programmable in 42 languages.
- Drink holders, storage areas, and auxiliary power outlets offer added convenience.

Versatility

- Common linkages between E and F Series support tool interchangeability.
- Multiple Cat Work Tools are available for a wide range of applications.
- Auxiliary tool control system maximizes performance of hammers, shears, compactors, multi-processors, and other Cat Work Tools.

Durability

- Built for long service life.
- Upper frame with special mounts supports ROPS cab.
- Lower frame is reinforced to enhance component durability.
- Booms and sticks are built with baffle plates for added strength.
- Box-section structures with multi-plate fabrications, castings, and forgings are used in high-stress areas.
- Track shoes, links, rollers, idlers, and final drives are built with high-tensile-strength steel.
- Grease-lubricated track link prevents dirt and debris from entering.
- Counterweight bolted directly to the main frame for rigidity.



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Engine

Engine Model	Cat C13 ACERT
Gross Power – SAE J1995	322 kW
Power – ISO 14396	317 kW
Power – SAE J1349/ISO 9249	311 kW
Bore	130 mm
Stroke	157 mm
Displacement	12.5 L

Machine Weights

Minimum Weight*	48 600 kg
Maximum Weight**	50 300 kg
*With Reach boom, R3.35 m stick, 600 mm DG tracks.	
**With ME boom, M3.0 m stick, 750 mm TG tracks.	

Hydraulic System

Main System – Maximum Flow (Total)	770 L/min
Swing System – Maximum Flow	385 L/min
Maximum Pressure – Equipment	
Heavy Lift	38 000 kPa
Normal	35 000 kPa
Maximum Pressure – Travel	35 000 kPa
Maximum Pressure – Swing	27 500 kPa
Pilot System – Maximum Flow	27 L/min
Pilot System – Maximum Pressure	4120 kPa

Drive

Maximum Travel Speed	4.7 km/h
Maximum Drawbar Pull	335 kN

Swing Mechanism

Swing Speed	8.7 rpm
Swing Torque	148.5 kN·m

Service Refill Capacities

Fuel Tank Capacity	720 L
Cooling System	50 L
Engine Oil (with filter)	38 L
Swing Drive (each)	10 L
Final Drive (each)	15 L
Hydraulic System (including tank)	570 L
Hydraulic Tank	407 L
DEF Tank	41 L

Sound Performance

Exterior – ISO 6395	106 dB(A)
Operator – ISO 6396	69 dB(A)

Dimensions

Boom Option	Reach Boom 6.9 m
Stick Option	R3.35TB HD
Shipping Height	3730 mm
Shipping Length	11 920 mm
Tail Swing Radius	3760 mm
Length to Center of Rollers	4360 mm
Track Length	5370 mm
Ground Clearance	510 mm
Track Gauge	2740 mm
Transport Width – 750 mm Shoes	3490 mm
Cab Height	3220 mm
Cab Height with Top Guard	3390 mm
Counterweight Clearance*	1280 mm
*Without shoe lug height.	

Working Ranges

Boom Option	Reach Boom 6.9 m
Stick Option	R3.35TB HD
Maximum Digging Depth	7660 mm
Maximum Reach at Ground Level	11 730 mm
Maximum Cutting Height	10 820 mm
Maximum Loading Height	7430 mm
Minimum Loading Height	2750 mm
Maximum Depth Cut for 2440 mm Level Bottom	7520 mm
Maximum Vertical Wall Digging Depth	5830 mm

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