

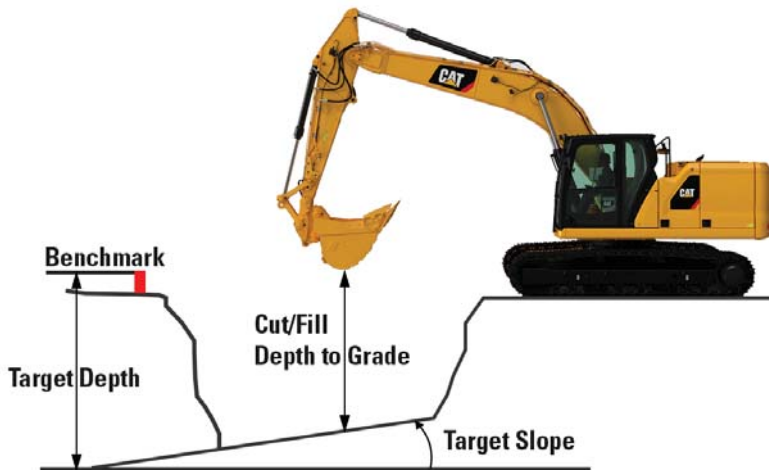
# Cat<sup>®</sup> GRADE with 2D

for Hydraulic Excavators



## BOOST OPERATOR EFFICIENCY UP TO 35% VERSUS TRADITIONAL GRADING.

- The standard Grade with 2D system displays real-time bucket location relative to grade on the high-resolution touchscreen color monitor with indicate-only and laser capability.
- Select your desired target depth and target slope and the system will give you real-time guidance on depth, slope, and horizontal distance to grade, with height and depth alerts that indicate target grade or obstacles.
- Easily adjust target depth and slope with joystick commands, the touchscreen interface, or the jog dial.
- The excavator and Grade with 2D work as a system while on-board processors and fast response sensors deliver precise real-time bucket tip elevation guidance.
- Start digging and simply check grade from inside the cab.
- The optional laser catcher with laser transmitter compatibility allows the excavator to move—bench once, reference the laser, and continue digging to grade across the jobsite.
- Use the Grade with 2D system to increase your efficiency and productivity when digging and grading basements, footings, foundations, utility trenches, slopes, and drainage ditches.
- Works with standard Grade Assist that adds semiautonomous digging capability and activates single-lever digging.



## > BOOST OPERATOR EFFICIENCY UP TO 35%.

- Reduce passes and speed time to complete accurate cuts.
- Easy-to-use controls and the ability to quickly adjust depth and grade while keeping your hands on the joysticks allows you to make accurate cuts faster.
- Enhance your accuracy and productivity when using the in-cab display that indicates bucket position and depth-to-grade.
- Use height and depth audio alerts that indicate when you reach your desired grade to protect from overcutting or undercutting.
- Improve quality and consistency for operators at all experience levels.
- Extend your workday by working in limited visibility and around the clock using the monitor's visual guidance.

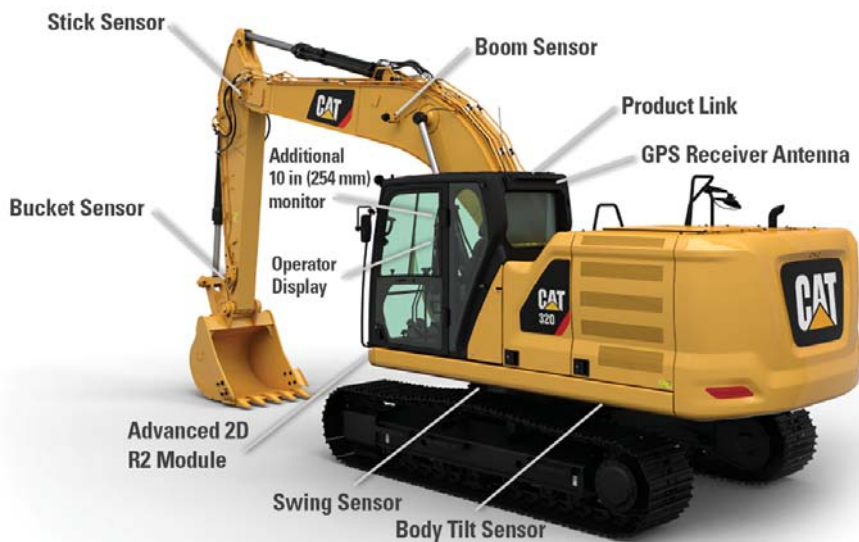
## > LOWER COSTS. IMPROVED SAFETY.

- Minimize costs by reaching target grade quickly and save costs associated with time, labor, fuel, and material consumption.
- Integrated components that are protected from damage ensure long life, reliable control, and cost-saving results.
- Work confidently without guesswork while cutting and filling to exact specifications without overcutting and having to refill a cut.
- Height and depth alerts from inside the cab indicate obstacles that could damage your excavator and cost you money.
- Work safer with fewer ground personnel checking grade in the trench or around your excavator.

## > UPGRADE FOR MORE PRODUCTIVITY.

Use the standard Grade with 2D system integrated from the factory, and as your job needs grow, easily upgrade for more productivity with expanded grade capabilities:

- Grade with Advanced 2D adds in-field design capability with an additional high-resolution 10 in (254 mm) touchscreen monitor.
- Grade with 3D works for complex cuts and fills requiring pinpoint precision as the system provides real-time position guidance and your excavator's exact position relative to GPS and GLONASS systems.
- All upgrades can be installed at the factory or any time after purchase.



[www.cat.com](http://www.cat.com)

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