

**CASE**  
CONSTRUCTION

**521F**  
WHEEL LOADER



**SINCE 1842**

# ENGINEERED FOR IT ALL

## TOPNOTCH TECHNOLOGY

Productive is moving up to 212 tons of material per hour\*. Efficient is using 12% less fuel. Comfort is room to work, confidence in your controls and clear site lines of the task at hand. And all of it together – is the 521F. Experience the latest addition to the CASE F Series line of high-performance wheel loaders.

\*Based on a 50-meter loading/dumping cycle with an estimate of up 56 cycles per hour

### 521F HIGHLIGHTS:

- 1 SCR technology provides a **10% increase in fuel efficiency** over previous generations while a standard auto-idle feature results in additional fuel savings up to 30%, at idle.
- 2 CASE Quiet Cab – **the largest cab in the industry** – delivers class-leading comfort and visibility thanks to a dual air filtration system, optional heated air-ride seat and floor-to-ceiling windows.
- 3 Standard limited-slip axles provide excellent traction on slippery surfaces, particularly in snow removal applications, while optional heavy-duty axles with locking front differential are perfect for use on hard surfaces.
- 4 Advanced Instrument Cluster (AIC) clearly displays important performance data and offers four selectable power modes (Economy, Standard, Max, Auto) to match engine power to the task at hand.
- 5 Optional joystick steering and pilot loader controls put precise command and convenient control at your fingertips.
- 6 Wide variety of tires available, including snow tires, to bring out the best in the 521F.
- 7 CASE coupler – designed by CASE specifically for CASE wheel loaders – improves fork visibility and is compatible with JRB and ACS attachments.
- 8 Optional Ride Control™ provides excellent material retention and machine control over rough terrain.
- 9 Available with standard Z-bar linkage for large operating loads, XR linkage for extended reach and dump clearance and tool-carrier XT linkage for maximum utility, excellent visibility and parallel lift.
- 10 Expanded selection of attachments, including **new buckets, rotary brooms and forks.**



## THE CASE DIFFERENCE

### **TIER 4 TECHNOLOGY MATCHED TO THE TASK**

Using Selective Catalytic Reduction (SCR) technology was the obvious Tier 4 Final choice for the 521F. The tasks of this class of wheel loader are more variable and require inconsistent engine loads. So rather than compromise power, we let the engine do what it does best – run at peak performance. This gives the faster throttle response and acceleration that operators want while maintaining lower exhaust temperatures and since SCR is an after-treatment system that doesn't rely on diesel particulate filters (DPF), you'll avoid the downtime, maintenance, and fuel-burning process of DPF regeneration.



**SCR**  
POWERFUL + EFFICIENT + SIMPLE

### **LOVE WHERE YOU WORK**

As the largest cab in the industry, the CASE Quiet Cab is a spacious example of our continued commitment to the operator experience. A dual air filtration system and insulated cab mounts provide a clean, quiet operating environment while the floor-to-ceiling windows, improved lighting system and optional rearview camera give excellent visibility all around the machine. And of course, award-winning joystick steering and our Advanced Instrument Cluster put precise, intuitive control at your fingertips.



### **MAINTENANCE MADE EASY**

From ground-level service checks to a tilt-up rear hood that provides complete engine access to the Automatic Machine Protection feature that helps prevent costly failures, the 521F wheel loader offers a level of serviceability like no other.

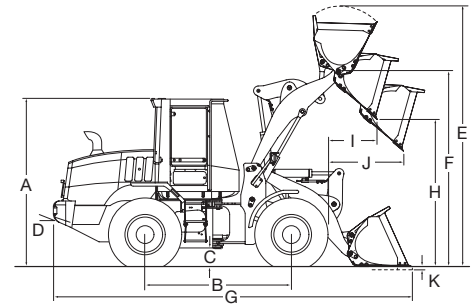
### **SMARTFIT™ BUCKET TEETH**

521F buckets come with the innovative SmartFit bucket tooth system. These heavy-duty, self-sharpening teeth combine exceptional strength and unmatched ease of installation thanks to a hammerless fastener system with reusable locking pins. Available in a full range of styles.



# SPECIFICATIONS AND DIMENSIONS

| SPECIFICATIONS   | 521FZ-Bar <sup>1</sup> | 521F XT <sup>2</sup> | 521F XR <sup>1</sup> |
|--|------------------------|----------------------|----------------------|
| <b>Engine</b>  | FPT F4HFE413NB         | FPT F4HFE413NB       | FPT F4HFE413NB       |
| <b>Emissions Certification</b>                                     | Tier 4 Final           | Tier 4 Final         | Tier 4 Final         |
| <b>Displacement/<br/>Cylinders – in<sup>3</sup> (L)</b>            | 275 (4.5) / 4          | 275 (4.5) / 4        | 275 (4.5) / 4        |
| <b>Net Peak hp – hp (kW)</b>                                       | 131 (98)               | 131 (98)             | 131 (98)             |
| <b>Operating Weight – lb (kg)</b>                                  | 22,948 (10 409)        | 24,585 (11 152)      | 23,229 (10 536)      |
| <b>Bucket Capacity – yd<sup>3</sup> (m<sup>3</sup>)</b>            | 2.3 (1.8)              | 2.1 (1.61)           | 2.1 (1.61)           |
| <b>Bucket Cylinder Breakout Force – lb (kg)</b>                    | 19,303 (8 756)         | 21,563 (9 781)       | 20,874 (9 468)       |
| <b>Material Density – SAE lb/yd<sup>3</sup> (kg/m<sup>3</sup>)</b> | 3,140 (1 863)          | 2,914 (1 729)        | 2,967 (1 761)        |
| <b>Tipping Load @ 40° Turn – SAE lb (kg)</b>                       | 14,444 (6 552)         | 12,239 lb (5 551)    | 12,463 (5 653)       |
| DIMENSIONS*  | 521F Z-Bar             | 521F XT              | 521F XR              |
| <b>A. Height to Top of ROPS Cab</b>                                | 129.0 in (3 277 mm)    | 129.0 in (3 277 mm)  | 129.0 in (3 277 mm)  |
| <b>B. Wheelbase</b>  | 108.3 in (2 750 mm)    | 108.3 in (2 750 mm)  | 108.3 in (2 750 mm)  |
| <b>C. Ground Clearance</b>   | 14.85 in (377 mm)      | 14.85 in (377 mm)    | 14.85 in (377 mm)    |
| <b>D. Angle of Departure</b>                                       | 34°                    | 34°                  | 34°                  |
| <b>E. Operating Height, Fully Raised with Spillguard</b>           | 184.0 in (4 673 mm)    | 188.5 in (4 789 mm)  | 196.2 in (4 983 mm)  |
| <b>F. Hinge Pin Height</b>   | 142.1 in (3 608 mm)    | 147.5 in (3 745 mm)  | 157.0 in (3 988 mm)  |
| <b>G. Overall Length, Bucket on Ground</b>                         | 263.2 in (6 684 mm)    | 271.2 in (6 888 mm)  | 273.9 in (6 956 mm)  |
| <b>H. Dump Height @ 45° Dump Angle, Full Height</b>                | 106.8 in (2 714 mm)    | 102.1 in (2 592 mm)  | 123.7 in (3 142 mm)  |
| <b>I. Bucket Reach @ 45° Dump Angle, Full Height</b>               | 39.9 in (1 013 mm)     | 40.6 in (1 031 mm)   | 36.9 in (938 mm)     |
| <b>J. Bucket Reach @ 45° Dump Angle, 7 ft (2.13 m) Height</b>      | 56.9 in (1 444 mm)     | 55.0 in (1 398 mm)   | 67.5 in (1 715 mm)   |
| <b>K. Dig Depth</b>  | 2.8 in (70 mm)         | 9.9 in (252 mm)      | 3.9 in (100 mm)      |



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

<sup>1</sup>Specs using general purpose loader bucket with edge.

<sup>2</sup>Specs using ACS loader bucket with edge.

\*Specs with 2.1 yd<sup>3</sup> (1.61 m<sup>3</sup>) ACS bucket with edge and XT lift arm for ACS Pro Series 2000® size 30 HD coupler.



## POWERFUL PROTECTION

The 521F comes standard with the industry's first all-in-one heavy machine support program that's as powerful as the equipment it protects — CASE ProCare. ProCare includes:

- 3K** 3-yr./3,000-hr. Full-Machine Factory Warranty<sup>†</sup> STANDARD
-  3-yr./3,000-hr. Planned Maintenance STANDARD
-  3-yr. Advanced SiteWatch™ Subscription STANDARD

<sup>†</sup>See your dealer for the complete terms.

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CASE Construction Equipment is biodiesel-friendly.

NOTE: All engines meet current EPA emissions regulations. All specifications are stated in accordance with SAE Standards or Recommended Practices, where applicable.



Always read the Operator's Manual before operating equipment. Inspect equipment before using it, and be sure it is operating properly. Follow the product safety signs and use any safety features provided.