

**CASE**  
CONSTRUCTION

## WHEEL LOADER

621E | 721E | 821E







## THE WHEEL LOADERS WITH THE BEST COST-BENEFIT

Material handling requires more and more machines with excellent traction, great power, high lifting capacity, quiet operation and low fuel consumption.

CASE went further and designed the E Series Loaders, which have exclusive features of comfort, ease of operation and maintenance, robustness and performance, fully integrated components, which give a new meaning to the word productivity.

## MORE COMFORT, EFFICIENCY AND PRODUCTIVITY

ROPS / FOPS certified E Series Wheel Loader cabs were designed with the necessary ergonomics to facilitate operator comfort and productivity. Spacious, they provide visibility throughout the work site.

Engines, with two power curves (621E) and three power curves (721E and 821E), allow you to select the best option according to the need of your application. With Tier 3 emission certification and electronic management, the engines have the perfect optimization between high power and fuel economy.

CASE designed the E Series Wheel Loaders with best-in-class maintainability. This means that they provide easier and faster daily maintenance tasks and greater availability to produce. Designed to meet any challenge, they have great stability, superior traction, breakout / pushing power, lifting capacity and quiet operation.

Its technological innovations make them the most productive on the market. Its load sensing hydraulic system allows superior breakout and lifting capacity.

The CASE-exclusive midmount cooling module makes these wheel loaders fuel efficient and reliable for years to come, even in the dustiest environments.





# POWER, CONTROL, AGILITY GET IT ALL

## HYDRAULIC SYSTEM

### AN INTELLIGENT SYSTEM TO INCREASE PRODUCTIVITY

The Load Sensing Hydraulic System provides ideal power and flow for all hydraulic functions as needed. The result is quick responses for all movements.

This system allows the machine to "sense" when higher flow and pressure is required and automatically make adjustments, providing greater fuel economy, lower costs, and higher productivity.

### Z-BAR 621E AND 821E, Z-BAR AND PARALLEL (XT) 721E

The E Series wheel loaders come in traditional Z-bar linkage configuration, with greater breakout force and tipping load, providing high production, fast cycles, optimized operating loads and great visibility to the bucket.

For more accurate material handling, the CASE 721E XT wheel loaders with higher dump height and bucket hinge pin height, have a true parallel lift throughout the complete cycle, so you can concentrate on moving materials rather than making adjustments to level the load.

## COMPACT SIZE WITH VERSATILITY

Maneuverability is maximized with a 40° articulation, 24° rear axle oscillation and 30° rear departure angle (621E), 32° (721E), 33° (821E). This means that it has a small turning radius and that the rear axle oscillates in a way that allows a smooth ride. The departure angle eliminates interference when driving up into a pile of material or leaving a ditch.

## LIMITED-SLIP AXLES DELIVER MORE TRACTION, LESS WEAR

E Series wheel loaders deliver the superior traction needed to work efficiently in changing jobsite conditions. Unlike competitive models, limited-slip axles are standard.

These axles (front and rear) transfer power automatically from the wheel that is slipping to the wheel that is gripping. This reduces tire wear and maximizes tractive effort into the pile. This helps move more material per gallon of fuel and reduce tire replacement costs.





## POWERSHIFT TRANSMISSION

In addition to automatic or manual shifting options, you can customize a sequence of shifts to increase productivity and reduce operator fatigue.

Gear reduction (Downshift) is possible using the "kickdown" button located behind the machine's joystick. On reaching the first gear, the operating mode is changed to manual, returning to automatic only when reversing. This results in increased productivity and reduced wear on the service brakes.

In order to obtain excellent lifting capacity, the transmission decoupling (Declutch) is standard. Activate the brake pedal is all it takes to instantly transmit more power from the engine to the loader, and thus obtain faster lifting cycles with a full bucket.

## FILL YOUR BUCKET FASTER

The new CASE bucket increases productivity and provides longer wear. The bolt-on cutting edge was extended forward for rapid and easy penetration into the pile. The bottom floor plate of the bucket has been set on a five-degree angle for easy transition of material to the back curvature of the bucket. This allows for the material to mix easily, so you'll fill your bucket rapidly. By filling your bucket faster, you'll move more tons per hour. The skid plates are bolted on for easier repair and replacement. The hinge pins are raised up out of the dirt and debris for longer life.

## RIDE CONTROL: RETAIN MORE MATERIAL

Optional Ride Control™ provides greater material retention while reducing shock loads both to the operator and the machine, even over rough terrain. The loader arms work as shock absorbers to cushion the bucket and maintain a full load. Ride Control offers the operator a smoother ride and enables higher speeds with increased productivity and less material loss. It can also be programmed to automatically engage any time.







## ENGINE

### FLEXIBILITY FOR THE BEST RELATION BETWEEN POWER AND PRODUCTIVITY

E Series Wheel Loaders engines are fully electronic and have the Common Rail injection system, which provides clean and efficient combustion. Tier 3 certification offers low emission of pollutants.

#### TWO OR THREE POWER CURVES AND TWO OR FOUR WORK MODES: THE BEST PRODUCTIVITY

With more power curves, the engine allows the operator to adapt power to fuel economy, according to the type of application. They are: Maximum Power, Standard Power and Economic Power for the 4 working modes: Maximum, Standard, Economic and Automatic (721E and 821E). And Standard Power and Economic Power for 2 working modes: Standard and Economic (621E).

For high-production activities such as operations that require high breakout force and maximum power to the wheels, you can choose to use maximum power at all times (721E and 821E). For operations such as working in a pipe yard, handling pallets or moving light material, economy mode will complete the task with the greatest fuel efficiency (621E, 721E and 821E).

When the balance between high productivity and low fuel consumption is expected, the standard power mode is used as normal working conditions with the average engine power. In auto mode, the electronically controlled engine automatically adjusts between power curves to move the maximum amount of material per gallon of fuel.

#### EXCLUSIVE COOLING MODULE (COOLING BOX)

The cube-shaped cooling module supplies clean, ambient air to all coolers, increasing cooling efficiency and extending components life.

With no stacked coolers, the mid-mount cooling module prevents debris from plugging between coolers.

The location of the cooling system, behind the cab, made it possible to install the engine behind the rear axle, providing better balance, stability and weight transfer.

#### REVERSING FAN: CLEANING OPERATION WITHOUT STOPPING

In work environments with high levels of dust or air debris, the reversing fan (optional) is a time-saving solution for cleaning the cooling module. By using a switch in the cab, the operator can quickly invert the fan and remove dust and debris from the cooling module, saving time and improving productivity.

This means that the machine can keep working while it is cleaning the cooling module.



#### COOLING BOX

The cooling cube module positions all of the machine's coolers in a cube design and positions them behind the cab. The mid-mounted design also allows the engine to be positioned farther to rear of the machine for added counterweight. A lower engine also allows CASE to provide a rear sloped hood for best-in-class rear visibility.



# OPERATOR'S COMPARTMENT

## COMFORTABLE CAB WITH BETTER VISIBILITY

The operator who works comfortably is a productive operator. For this reason, CASE has incorporated the best items into its E Series cabs for comfort and productivity.

The large glass area allows the operator to have better visibility throughout the construction site.

The line of sight in the rear was improved thanks to the increased hood tilt.

The adjustable suspension seat, larger legroom and cabin height, intelligent layout controls and an on-board diagnostics system provide complete control of operations to the operator.

### EASY ACCESS TO EVERYTHING

- |                 |                    |                     |
|-----------------|--------------------|---------------------|
| 1 ROPS/FOPS Cab | 4 Thermal box      | 7 Comfortable seats |
| 2 Joystick      | 5 Air conditioning | 8 Trip computer     |
| 3 Visibility    | 6 Steering column  | 9 Ergonomics        |



# MAINTENANCE AT GROUND LEVEL

Serviceability is reflected in time and money saving

Easy maintenance lowers operating costs and increases resale value, in addition to encouraging these services to be carried out periodically, correctly and on time, also increasing the machine useful life.

The E Series Loaders have the easiest maintenance in the segment. The electrically powered rear hood (721E and 821E) provides easy, ground-line access to the engine and all daily maintenance checkpoints. Fluid sight gauges are positioned at eye level. Three remote drains for coolant, engine and hydraulic oil provide convenient access for fast, environmentally friendly fluid changes.

Keeping the loader ready to produce requires less effort and you can get back to work faster. The only tool needed for daily maintenance checks on the E Series Wheel Loaders is a cloth to wipe the oil off the dipstick.

### EASY ACCESS TO EVERYTHING

- |                                   |   |
|-----------------------------------|---|
| 10 Quick opening hood             | 13 Access to all filters                    |
| 11 Remote drains                  | 14 Access to engine and hydraulic oil level |
| 12 Cooling box with reversing fan | 15 Ground level grease points               |





# SPECIFICATIONS

## AND DIMENSIONS

SPECIFICATIONS	621E Bucket of 2,1 m³ (2,75 yd³) straight blade with teeth	721E (Z-Bar) Bucket of 2,5 m³ (3,25 yd³) straight blade with teeth and segments	821E (Z-Bar) Bucket of 3,2 m³ (4,25 yd³) with teeth
Engine	CASE/FPT F4HE96849*J101	CASE/FPT F4HE9684F*J111	CASE/FPT F4HE9684E*J109
Emissions Certification	Tier 3	Tier 3	Tier 3
Displacement – l (cm³)	6,7 (6.700)	6,7 (6.700)	6,7 (6.700)
Cylinders	6	6	6
Gross Horsepower hp (kW)	137 (102) a 2.000 rpm	195 (145) a 2.000 rpm	227 (169) a 2.000 rpm
Gross Torque / Standard Nm (kgf.m)	613 (62,5) a 1.400 rpm	862 (87,9) a 1.400 rpm	1.002 (102,2) a 1.400 rpm
Transmission - Speeds F/R	4/3	4/3	4/3
Operating Weight - kg (lb)	11.945 (26334)	14.195 (31294)	17.100 (37699)
Breakout force - kg (lb)	11.841 (26105)	15.369 (33883)	14.504 (31976)
Tipping Load - Articulated at 40° - kg (lb)	8.953 (19738)	10.704 kg (23598)	12.290 kg (27095)
Bucket Capacity - Struck (SAE) - m³ (yd³)	1,77 (2,32)	2,11 (2,76)	2,71 (3,54)
Bucket Capacity - Heaped - m³ (yd³)	2,1 (2,75)	2,49 (3,25)	3,25 (4,25)
Max. Material Density ISO - kg/m³ (lb/yd³)	2.145 (3.615)	2.135 (3598)	1.939 (3267)

DIMENSIONS	621E 20,5 x 25 16PR L3 tires and bucket of 2,1 m³ (2,75 yd³) straight blade with teeth	721E (Z-Bar) 20,5 x 25 16PR L3 tires and bucket of 2,5 m³ (3,25 yd³) straight blade with teeth and segments	821E (Z-Bar) 23,5 x 25 16PR L3 tires and bucket of 3,2 m³ (4,25 yd³) with teeth
Height to Top of ROPS Cab	3.303 (10' 10")	3.385 (11' 1")	3.450 (11' 4")
Height to hinge pin totally raised - mm (ft in)	3.829 (12' 7")	3.980 (13' 0,7")	4.123 (13' 6")
Unloading height fully raised, dump at 45° - mm (ft in)	2.754 (9' 0.4")	2.831 (9' 3")	2.897 (9' 6")
Operating height - mm (ft in)	4.965 (16' 3")	5.229 (17' 2")	5.496 (18' 0.4")
Bucket reach fully raised, dump at 45° - mm (ft in)	1.073 (3' 6")	1.235 (4' 0,6")	1.210 (3' 11")
Wheelbase - mm (ft in)	2.900 (9' 6")	3.253 (10' 8")	3.340 (10' 11.5")
Overall length - mm (ft in)	7.325 (24' 0.4")	7.799 (25' 7")	7.993 (26' 3")
Ground clearance - mm (ft in)	450 (1' 6")	365 (1' 2")	416 (1' 4")
Overall width - Exclusive of buckets - mm (ft in)	2.447 (8' 0,3")	2.562 (8' 5")	2.890 (9' 6")
Rear departure angle - grados	30°	32°	33°





# SUPPORT COMES STANDARD.

CASE Care is a unique program covering a range of services, from preventive and corrective maintenance of your machine to fleet management via satellite. The program offers free online training to operators for the entire CASE line. Case understands the importance of greater availability of your equipment and offers SystemGard®, the fluid monitoring program for your equipment. Visit [www.casece.com/latam/en-la/](http://www.casece.com/latam/en-la/) to learn about the different services that CASE Care offers for your machine.



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