



CASE
CONSTRUCTION

V-SERIES BACKHOE LOADERS



580V | 580SV | 590SV | 695SV

ACROSS HISTORY



1842

CASE is founded.

1869

The first CASE portable steam engine - road construction is born!

1957

CASE produces the first ever factory integrated backhoe loader.

1959

CASE TLB 420 is the first diesel powered model.

1964

CASE is the first manufacturer to develop an extendable dipper, the patented CASE Extendahoe.

1999

CASE is the first company to offer a powershift transmission on a backhoe loader.

2000

CASE is the first company to offer a backhoe integrated quick coupler.

2001

CASE M series backhoe is listed in "Construction Equipment" magazine among the top 100 products.

2005

CASE produces its 500,000th backhoe.

2012

CASE achieves Tier 4 emissions standards while delivering best-in-class breakout force and lift capacity.

2016

CASE backhoe offering is enlarged introducing "In-Line cylinders" backhoe and "Straight-Loader arm" options.

2017

CASE introduces a Tier 4 final fully customizable backhoe.

2019

60th year milestone. Future in the making.

2020

CASE presents in North America the industry's first Fully Electric Backhoe Loader (model 580 EV).

2021

CASE introduces the new TLB V series with a brand-new cab, bringing operator comfort to the next level.

V-SERIES BACKHOE LOADERS

THE KING

CASE BACKHOE LOADERS

The original, ready for anything

Since introducing the first ever integrated backhoe loader in 1957, CASE has always been a front runner in the tractor loader backhoe industry.

We have built a strong heritage of industry firsts, on best-in-class performances and components, supremely reliable and well-proven technology, and productivity-boosting solutions.

- + We accepted no compromise on performances: the FPT engine delivers best-in-class power and torque density.
- + The FPT engine is designed to optimize fuel consumption during both production and travel and especially in backhoe digging applications

And we did not limit our efforts to power and performance:
with the V-Series we have taken operator comfort to the next level!

- + The new cab is more ergonomic
- + The new cab has a completely new interior and exterior style

Now it's time to enhance your operator experience with the NEW V-SERIES BACKHOE LOADERS.



MAIN REASONS TO CHOOSE THE V-SERIES



LOAD SENSING HYDRAULIC SYSTEM

The variable displacement pump combined with the Tier 3 engine reduces fuel consumption by up to 14%.



NEW CAB DESIGN

The cab has been redesigned around the operator to provide a comfortable work environment with ample storage space, and improved styling, fittings and finish.



SAFE AND EASY MAINTENANCE

- All the main check points are easily accessible from the ground.
- The front tilting engine hood and the perfect layout of the components enable fast routine maintenance operations.



FAST LOADING CYCLE

The return-to-dig mode guarantees precise automatic loader repositioning and easy-to-control loading operations.



COST SAVINGS

The FPT engine delivers high power and torque density, and dramatically reduces service time ensuring the lowest maintenance costs in the market.





PROTECTED BACKHOE OPERATION

The new backhoe represents the continuity of CASE DNA. The S'tyled boom provides higher reach and better digging depth.



"IN-LINE" BACKHOE GEOMETRY

Higher visibility thanks to the narrower frame, high stress resistance due to balanced effort distribution along the boom.



AUTO RIDE CONTROL

Auto Ride Control offers 3 settings to match different working conditions.



4-WHEEL STEERING MODE

The 695SV model shovel capacity along with 3 steering modes (Road, 4WS and Crab steer) provide exceptional on-site productivity. (Only for the model 695SV)

V-SERIES BACKHOE LOADERS

OPERATOR COMFORT TO THE NEXT LEVEL



NEW WIDER CAB

FEATURES

- + **NEW** Restyled interior and exterior
- + **NEW** Front and LH consoles design
- + **NEW** Superior roominess for the operator
- + **NEW** Noise level reduced
- + **NEW** layout of switches and controls
- + **NEW** Wider Pilot Control towers adjustability
- + **NEW** Best in class internal storage capacity: 4 times more than ST Series cab, including: 2 Lockable compartments, 2 Bottle/Cup holder, Cooling Box and 4 open trays
- + **NEW** Excellent 360° Visibility
- + King class seat: the super deluxe air suspension option offers premium features
- + Powerful Air Conditioning and fully openable windows

BENEFITS

- Greater operator comfort and improved ergonomics
- Superior cab accessibility
- Excellent knee and feet clearance when rotating the seat from loader to backhoe position
- A quiet place to work!
- Easy reachability in both loader and backhoe position
- Better ergonomics
- A place to store every item and to keep your lunch and drinks always fresh
- More productivity and safety on the job site and in the street
- Height, lumbar and armrests full adjustability, and heating
- Excellent cab ventilation



CAB FEATURES FOR A MORE PLEASANT AND SAFE WORKING DAY AND DRIVE

FEATURES	BENEFITS
+ NEW Bluetooth radio option	Located on right hand pillar, easy reachability in any position
+ NEW Speedometer option	Located on front console, more safety when driving
+ NEW 2 speed wiper	Better visibility when driving in rainy/snowy conditions
+ NEW F-N-R switch on loader handle	Easy transmission direction change in loading applications
+ NEW Roller switch on pilot joysticks	Quick and precise dipper extension
+ NEW Cell-phone holder	Located on right hand pillar, easy reachability in any position
+ NEW 12V and USB ports	Conveniently located on the right-hand console
+ NEW Anti-Theft system	Peace of mind





MAIN FEATURES

COST SAVINGS

FPT Multijet Engine

The FPT engine delivers a big performance in a small package with the lowest maintenance cost in the market:

- The air intake system with centrifugal pre-filter reduces the cleaning intervals
- High turbulence piston and air intake manifold
- High pressure multi-injection common rail for a perfect air-fuel mix and greater burning efficiency
- Mechanical Injection Pump for 580V ensures high power combined with an easy to maintain and serve injection system
- Viscous fan: no power is wasted with its low cooling demands



FPT: a leader in engine technologies.

- Fiat invented the «Common Rail» technology in the 80s
- Fiat Power Train produces over 600.000 industrial engines per year
- Our engines are used not only in earthmoving equipment but also in trucks, agricultural equipment, marine and military applications.

SAFE AND EASY MAINTENANCE

One side engine serviceability

- Oil and filter check points are easily accessible on the left side of the bonnet. The front opening provides the operator with a full view of the engine components.
- The anti bumping frame surrounding the radiators prevents damage if the machine hits an obstacle at speeds up to 5 km/h, reducing unforeseen maintenance costs due to cracks in the radiators.
- All fuses and relays are comfortably located in the cab for easy and fast maintenance operations.



4-WHEEL STEERING MODE

Always available, never defined

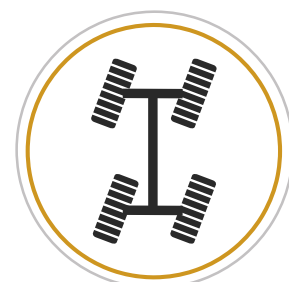
The CASE 695SV allows the operator to select 3 different steering modes: 2-wheel steering – road steer for standard operations and 4-wheel steering for agile and fast operations, and crab steer for restricted areas. This ensures great versatility and outstanding maneuverability. It's easy and safe to change the steering mode. The CASE 695SV is equipped with 4 equal size wheels to guarantee better weight distribution and more traction.



ROAD MODE



WHEEL STEER



CRAB STEER

BACKHOE

TAILORED MADE SOLUTION

PROTECTED BACKHOE OPERATION

The King's DNA

- Exclusive outer extendahoe: all components in contact with the soil are protected against impact and material accumulation
- The curved main boom provides greater digging ability and makes it easier to load a truck
- Low profile for easy transport
- Gripper teeth for excellent material retention
- Swing Dampening for precise backhoe operations and improved operator comfort.



LOAD SENSING HYDRAULIC SYSTEM

Modulated power

The load sensing hydraulics provide just the right amount of oil for each task, even when the engine is running at low rpm. This results in fuel savings of up to 14% compared to traditional gear pumps. CASE is the only Backhoe loader manufacturer offering closed hydraulic centre whatever the choice of pump. Closed hydraulics enable simultaneous movements independent from work load and functions delivering constant power, better operator controllability and fast cycles.

“IN-LINE” BACKHOE GEOMETRY

No Stress power

- Great visibility thanks to the narrower frame
- High stress resistance thanks to the balanced effort distribution along the boom
- Swing Dampening for precise backhoe operations and improved operator comfort

LOADER

STRAIGHT TO PERFORMANCE

AUTO RIDE CONTROL

Safe productivity

- Auto Ride Control reduces loader arm bounce during travel, maintaining maximum material retention on all surfaces, for higher travel speeds and reduced journey times. The system offers a choice of 3 settings to match customer preferences or different soil conditions.
- The front axle offers +/-11 degrees of oscillation, to maintain traction on the toughest terrain, improve bucket retention and maintain high productivity.
- Different tyre designs (from industrial to agricultural) and technologies (radial or bias) are available to meet the different requirements for traction or resistance to impact and stress.

FAST LOADING CYCLE

The job has never been so easy!

Curved front loader arms improve truck loading while mechanical self-levelling assists the operator. The return-to-dig function significantly reduces operator effort on repetitive loading operations and speeds up the whole cycle. Excellent front loader visibility and the mechanical self-levelling feature make loading and unloading pallets really quick and simple.

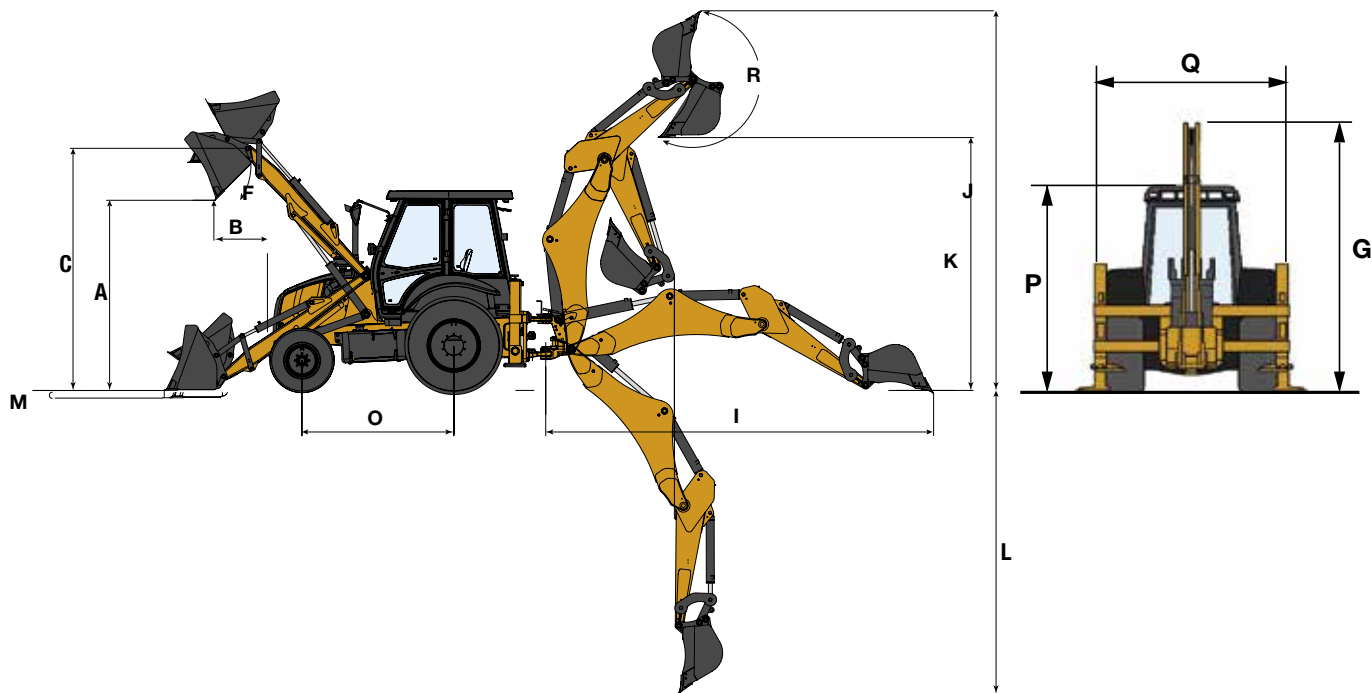


SPECIFICATIONS

	580V	580SV	590SV	695SV			
ENGINE							
Make and Model	FPT NEF - F4GE9484C	FPT NEF - F4HE0484G	FPT NEF - F4HE9484C				
Injection system	Direct Mechanical	High Pressure Common Rail					
Emissions level	Tier 3						
# of cylinders	4						
Bore / Stroke	104 mm x 132 mm						
Displacement / Compression ratio	4.5 ltr / 17.5 to 1						
Engine Power (ISO 14396) @2200 rpm	72 KW (97 hp)		82 KW (110 hp)				
Maximum torque (ISO 14396)	420 Nm @ 1250 rpm	453 Nm @ 1400 rpm	516 Nm @ 1400 rpm				
Engine speeds	2200 rpm (rated speed at full load) / 950-1000 rpm (low speed at no load)						
TRANSMISSION							
Type	Powershuttle 2WD - 4WD	Powershuttle 4WD	Powershift 4WD	Powershuttle 4WD	Powershift 4WD	Powershift 4WD - 4WS	
Model	Carraro TLB1 MPB 2WD - 4WD	Carraro TLB1 MPB 4WD	Carraro TLB2 MPB 4WD	Carraro TLB1 MPB 4WD	Carraro TLB2 MPB 4WD	Carraro TLB2 MPB 4WS	
Forward travel speeds (kph)	6 - 10 - 21 - 40					6 - 10 - 22 - 39	
Reverse travel speeds (kph)	7 - 12 - 26 - 47	7 - 12 - 26 - 47*			7 - 12 - 26 - N/A		
FRONT AXLE							
Model	2WD / 4WD Heavy duty	4WD Heavy duty			4WD with limited slip differential		
Oscillation	+/- 11°				+/- 8°		
REAR AXLE							
Model	Carraro 28.44FR with Differential lock		Carraro 28.50FR with Differential lock		Carraro 26.43FR with Differential lock		
BRAKES							
Service brakes	Hydraulic foot operated, 2 discs per side				Hydraulic foot operated, 3 discs per side		
Parking brakes	Mechanically actuated wet brake pack on transmission output shaft						
STEERING							
Type	Hydraulic Power Steering						
System pressure / Displacement	180 bar / 160 cc						
Turning radius 4WD (external radius) with 18" tires	4300 mm - brakes off 3600 mm - brakes on				8180 mm in 2WS mode - brakes off 6820 mm in 2WS mode - brakes on 4810 mm in 4WS mode - brakes off		
TIRES							
Front	16" (2WD) - 18" or 20" (4WD)	18" or 20"			24" or 28"		
Rear	26" or 28" (4WD)	26" or 28" or 30"			24" or 28"		
HYDRAULIC SYSTEM							
Type	Load sensing, closed center hydraulic system with twin gear pump	Load sensing, closed center hydraulic system with twin gear pump	Load sensing, closed center hydraulic system with variable displacement pump	Load sensing, closed center hydraulic system with twin gear pump	Load sensing, closed center hydraulic system with variable displacement pump	Load sensing, closed center hydraulic system with twin gear pump	Load sensing, closed center hydraulic system with variable displacement pump
Flow (@ 2200 rpm)	156 l/min	156 l/min	15 to 165 l/min	167 l/min	15 to 165 l/min	167 l/min	15 to 165 l/min
Pressure	205 bar						
SERVICE CAPACITIES							
Engine oil	13.6 l						
Transmission oil 2WD/4WD	18.5/20.8 l	20.8 l					
Front axle 4WD oil	9.6 l					11.8 l	
Rear axle oil	16.3 l	17.8 l			12.3 l		
Hydraulic oil	132 l						
Fuel tank	132 l						
Coolant	24 l						
ELECTRICAL SYSTEM							
Voltage	12 V						
Battery	Single: 95 Ah 900 A or Double: 60 Ah, 600 A (each)						
Alternator	120 A						
CAB							
Certification	ROPS / FOPS						
Air Conditioning	Optional						
Storage compartments capacity	45 l including: 2 lockable, cooling box						
Speedometer	Optional						
Bluetooth radio	Optional						
NOISE							
Internal (cab)	77 dB(A)						
External	102 dB(A)			103 dB(A)			

*only for Powershuttle

V-SERIES BACKHOE LOADERS



			580V - 580SV - 590SV		580V - 580SV	
			TOOL CARRIER LOADER ARM		STRAIGHT LOADER ARM*	
LOADER (4WD CONFIGURATION)			STD BUCKET	4X1 BUCKET	STD BUCKET	4X1 BUCKET
A	Maximum dump height under bucket at 45°	mm	2606	2665	2711	2733
B	Dump Reach at full height	mm	844	771	815	757
C	Maximum height pin	mm	3461		3498	
F	Dump angle	°	43		40	
M	Below ground level digging depth	mm	166	139	105	158
	Maximum lifting capacity @ ground level	kg	5670		4970	4745
	Maximum lifting capacity @ max height	kg	3678		3553	3290
	Loader breakout force	daN	3015		3625	
	Bucket breakout force	daN	4062	4076	6340	6220

* Straight Loader Arm not available for 590SV

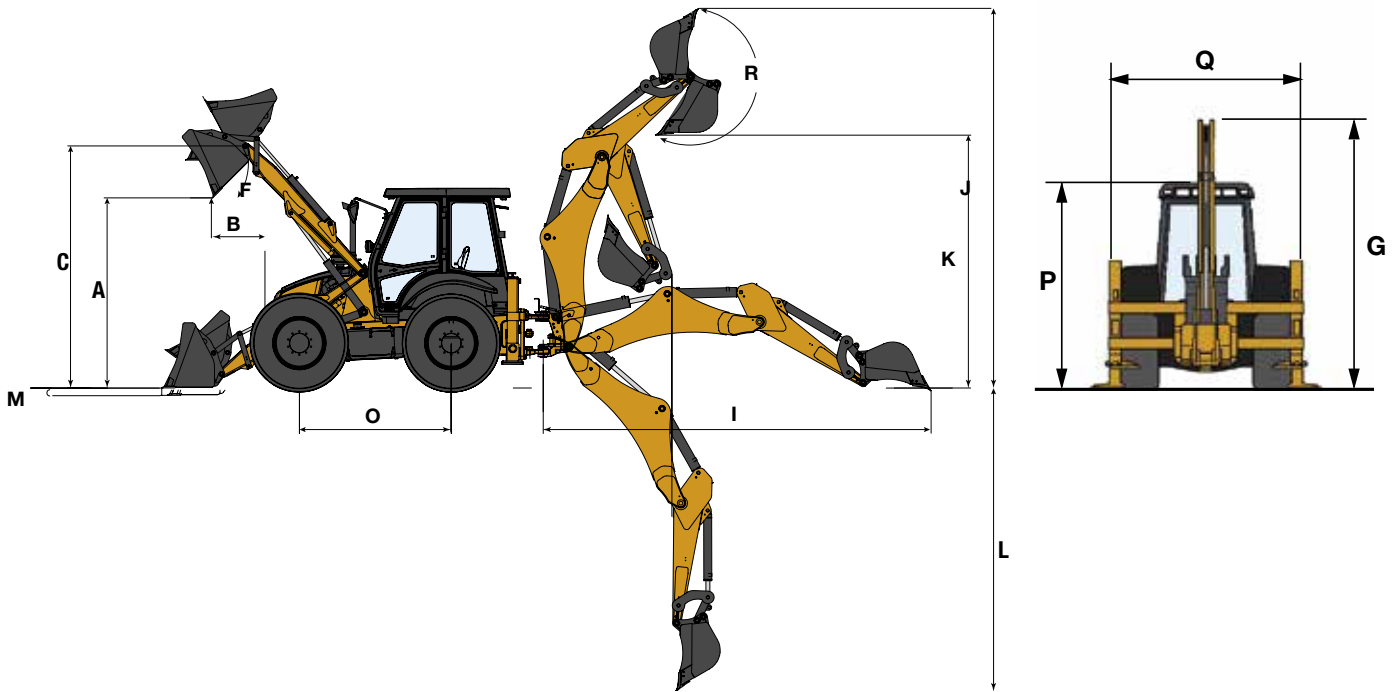
			BACKHOE SIZE 14 ft				BACKHOE SIZE 15 ft*			
			CASE DNA		IN-LINE CYLINDER		CASE DNA		IN-LINE CYLINDER	
BACKHOE			STD DIPPER	EXT. DIPPER	STD DIPPER	EXT. DIPPER	STD DIPPER	EXT. DIPPER	STD DIPPER	EXT. DIPPER
	Swinging angle	°	180							
I	Maximum reach from swing center	mm	5661	6671	5579	6313	5929	7085	5831	6965
J	Maximum operating height	mm	5802	6713	5425	6173	6043	7069	5616	6348
K	Maximum loading height	mm	3859	4752	3658	4424	4098	5124	3867	4601
L	Maximum digging depth	mm	4448	5514	4385	5627	4750	5965	4666	5881
R	Bucket rotation	°	198		203		198		203	
	Bucket breakout force	daN	5326		4745		6114		4745	
	Dipper breakout force	daN	3240	2375	3767	2592	3362	2420	3358	2389
OVERALL DIMENSIONS										
G	Boom height (transport position)	mm	3476	3621	3800	3882	3561	3723	3800	3882
O	Wheel base	mm	2183							
P	Cab height	mm	2859							
Q	Overall width with std loader bucket	mm	2347		2340		2476		2394	
	Minimum ground clearance	mm	337							

* Backhoe size 15 ft not available for 590SV

		580V-580SV	590SV
Operating weight range	Kg	8010 - 9220	8080 - 9220

Operating weight is subject to machine configuration and attachment options

SPECIFICATIONS



695SV

TOOL CARRIER LOADER ARM

LOADER		STD BUCKET	4X1 BUCKET
A	Maximum dump height under bucket at 45°	mm	2708
B	Dump Reach at full height	mm	799
C	Maximum height pin	mm	3478
F	Dump angle	°	56
M	Below ground level digging depth	mm	93
	Maximum lifting capacity @ ground level	kg	4770
	Maximum lifting capacity @ max height	kg	3380
	Loader breakout force	daN	3554
	Bucket breakout force	daN	5411

BACKHOE SIZE 15 ft

BACKHOE		CASE DNA		IN-LINE CYLINDER		
		STD DIPPER	EXTENDABLE DIPPER	STD DIPPER	EXTENDABLE DIPPER	
	Swinging angle	°		180		
I	Maximum reach from swing center	mm	5929	7085	5831	6965
J	Maximum operating height	mm	6043	7069	5616	6348
K	Maximum loading height	mm	4098	5124	3867	4601
L	Maximum digging depth	mm	4750	5965	4666	5881
R	Bucket rotation	°		198		203
	Bucket breakout force	daN	6114		5971	
	Dipper breakout force	daN	3362	2420	3358	2389
OVERALL DIMENSIONS						
G	Boom height (transport position)	mm	3675	3837	3922	4013
O	Wheel base	mm	2200			
P	Cab height	mm	2964			
Q	Overall width with standard loader bucket	mm	2483		2452	
	Minimum ground clearance	mm	450			

695SV

Operating weight range	Kg	8800 - 9310
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Operating weight is subject to machine configuration and attachment options



CASE
CONSTRUCTION

SINCE 1842

BUILDING A STRONG CASE.

Since 1842, at CASE Construction Equipment we have lived by an unwavering commitment to build practical, intuitive solutions that deliver both efficiency and productivity.

We continually strive to make it easier for our customers to implement emerging technologies and new compliance mandates.

Today, our global scale combined with our local expertise enables us to keep customers' real-world challenges at the center of our product development.

The vast CASE dealers' network is always ready to support and protect your investment and exceed your expectations, while also providing you with the ultimate ownership experience.

Our goal is to build both stronger machines—and stronger communities. At the end of the day, we do what's right for our customers and our communities so that they can count on CASE.

CaseCE.com

NOTE: Standard and optional fittings can vary according to the demands and specific regulations of each country. The illustrations may include optional rather than standard fittings - consult your Case dealer. Furthermore, CNH Industrial reserves the right to modify machine specifications without incurring any obligation relating to such changes.

Conforms to directive 2006/42/EC

