



# T-SERIES BACKHOE LOADERS

**580T | 580ST | 590ST | 695ST**



# CASE CONSTRUCTION KING



**695ST**

## CASE DNA SINCE 1957

Case has been an innovative construction equipment market leader since 1912.

In the Spring of 1957 Case introduced the Model 320, the world's first factory-built tractor loader backhoe (TLB). Since that time we have continuously developed and improved our loader/backhoe range, to meet the changing needs of our customers around the world.

- Case was the first manufacturer to develop an extending dipper, the patented Case Extendahoe
- Case was the first to offer Ride Control on a loader/backhoe
- Case was the first company to offer a Powershift transmission on a loader/backhoe

In 2005 Case produced its 500,000th loader/backhoe, and today we are well on the way to three quarters of a million. No other manufacturer comes close, a pedigree that guarantees strong residual values for your machine.



*Courtesy of MachineMarket*



**IMPROVING SINCE 1957**  
**580T | 580ST | 590ST | 695ST**



**590ST**

**580ST / 580T**

## **YOUR CONSTRUCTION KING:**

### **695ST**

A four equal-sized wheel machine powered by a 110 hp engine driving through a standard Powershift transmission. For the backhoe, customers can choose between pilot or mechanical control systems.

### **590ST**

The same features as the successful 695SR, with a choice of 20" or 18" front tires and two-wheel steer. The machine comes with a Powershuttle transmission as an option.

### **580ST/T**

This machine has the same features as the 590ST, but is powered by a 97 hp turbocharged and aftercooled engine. The 580ST has a common rail diesel engine while the 580T uses a direct injection engine.



# THE KING

## SAVE FUEL

Our new variable displacement pump hydraulic system reduces fuel consumption by 10%, a saving that represents about €1,200/year per machine.



## SITE SECURITY

- Engine canopy lock is situated in the cab to prevent vandalism.
- Anti-theft devices are available for all models.
- The hydraulic tank features a secure oil cap breather to prevent siphoning.
- Lockable battery box prevents theft from site.





# COST OF OWNERSHIP

## 580T | 580ST | 590ST | 695ST

### SAVE TIME

- Daily check and fill points are accessible from ground level, saving time.
- The braking system uses the machine's main hydraulic oil reservoir, so there is no requirement for a separate filler.
- The Case Electronic Service Tool ensures rapid common rail engine diagnostics, cutting downtime.
- Large capacity fuel tank ensures longer working hours between refills, increasing working hours on site.



### WORK FASTER!

Proven reliable Tier 3 compliant engines are available with a choice of 97 hp or 110 hp, 10% more than our main competitors. These fuel-efficient engines provide the power to get more work done.



# CASE CONSTRUCTION KING



## The DNA of the King

- Customers around the world have built their success on the power and performance of the Case backhoe.
- Overlapping boom cylinders provide lower transport height and a slimmer boom width for improved visibility
- The curved main boom ensures increased digging ability and easier loading over a truck
- Boom dipper and swing cylinders have standard hydraulic end stroke cushioning to improve precision, prolong component life and ensure smooth operation
- The hydraulic circuits are protected.



## Lower cost of ownership, more comfort

- The Case loader/backhoe offers a tailored working position to improve control and reduce your fatigue.
- Internal cab noise levels are just 77 dB, offering you an improved working environment.
- Fully adjustable control lever towers provide you a comfortable working position, whatever your size
- The return to idle button is positioned under your thumb.

## The safety of the King

- Pilot controls automatically deactivate when not in use for improved safety. They are immediately reactivated at the touch of a switch.
- The optional lifting hook is now available as part of a Handling Kit, that includes safety hose burst valves on the boom and dipper cylinders and an overload warning device.
- Stabilizer legs are equipped with safety valves.
- Multiple disc, oil-immersed service brakes on the rear axle, together with automatic front wheel drive engagement, ensure safe operation in all travel conditions.



### Passes under 3.5 m bridge

We don't like to waste time and fuel and we know you don't either, that is why we reduced significantly transport height. The 580T and the 580ST measure less than 3.5 m in height, while the 590ST and the 695ST measure less than 3.7 m. For an even easier transport, hydraulic boom lock is a standard backhoe.

3.5 m



### Saves you time

Rapid hydraulic side shift (in option), in under 5 seconds.



Factory supplied hydraulic and mechanical quick coupler options.



### Is welcome on urban job sites

In residential areas everyone will appreciate that your Case machine has low noise levels, reduced exhaust emissions and a secure footprint.

- Tier 3 low emission engines
- Rubber pads on the stabilizer legs reduce surface damage
- Low noise levels (103 dB)
- Silenced Case CB90S hydraulic breaker specifically designed for backhoe installation

# CASE CONSTRUCTION KING



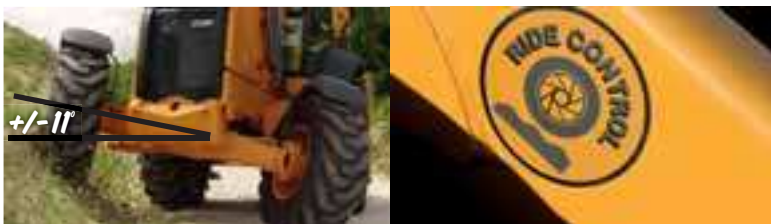
## Precise grading and optimal penetration

- Improved bucket penetration, thanks to the position of the side teeth at the edge of the blade.
- Powershift transmission offers greater tractive effort and improved bucket fill, thanks to the kick-down button.
- Easy grading, thanks to
  - float position on the control lever.
  - flat-bottomed bucket
  - precision tooth alignment with the bottom of the bucket.
- Automatic return-to-dig function and mechanical self-leveling feature reduce your effort and fatigue.



## Keeps the bucket full at 40 km/h

- Ride Control reduces loader arm bounce during travel, maintaining maximum material retention on all surfaces, for higher travel speeds and reduced journey times.
- The front axle offers +/- 11 degrees of oscillation, to maintain traction on the toughest terrain, improving bucket retention and maintaining productivity.
- Wide front tires available as an option for ultimate cross country travel.



## In the worst worksite conditions

- An engine pre-filter is available for dusty working conditions.
- 4 wheel drive and 100% locking differential fitted to the rear axle provide all-weather traction in the toughest site conditions.
- Optional 20" front tires provide maximum flotation.
- Equal-sized wheel 695ST remains highly maneuverable in all materials thanks to all-wheel steer.
- For night working the Case loader/backhoe comes with 10 working lights, including two on the sides, for maximum visibility.



## Loads and unloads easily

- Curved front loader arms improve truck loading while mechanical self-leveling assists the operator.
- Return-to-dig function significantly reduces your effort in repetitive loading operations.
- Excellent front loader visibility and mechanical self-leveling feature make pallet loading and unloading simple.



# LOADER

## 580T | 580ST | 590ST | 695ST



4.6  
TONS

### Moves 4.6 tons

- Reinforced loader arm features exceptional rigidity and strength.

### Is load sensitive

Load sensitive hydraulics mean that the hydraulic system only creates the pressure and flow that you demand, resulting in reduced fuel consumption, lower noise levels and longer component life. There is no requirement for a slow speed switch as hydraulic speed is controlled automatically.

### Allows for simultaneous movements

The hydraulic circuit with flow compensation, which is similar to the circuits found on loaders with tires, allows you to use all the functions at the same time. This guarantees short and smooth cycles and improved productivity.



A single control joystick for all the loader's functions:

- Raise/lower the loader
- Bucket tilt
- Proportional control of the closing and opening of the 4-in-1 bucket or other hydraulic accessories
- Floating bucket position
- Differential lock (except on the 695ST, which is fitted with a limited-slip differential)
- Transmission switch
- Automatic return to dig position

## A single control joystick for simultaneous movements

# CONSTRUCTION KING





# WELCOME TO THE CAB

## 580T | 580ST | 590ST | 695ST

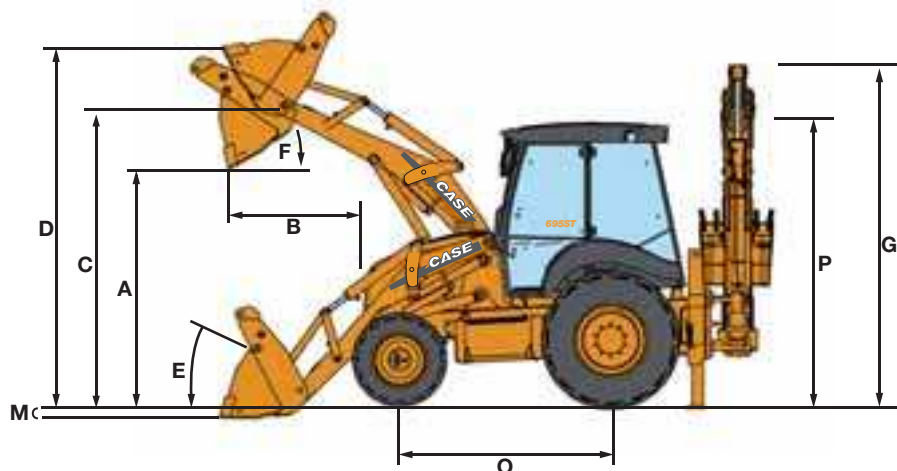


- **Tailored working position:** Pilot control columns and wrist rests are fully adjustable to suit your size.
- **The sound of silence:** The cab is secured on insulating mountings, reducing vibration and noise levels for you. Interior 77 dB(A)/ Exterior 103 dB(A)
- **Excellent visibility equals improved safety:** The rear screen is fully tiltable to provide an unobstructed view to the digging area. The stowed rear screen also provides rain protection in the open position.
- **King Class Seat:** You can set the height and the suspension of the seat pneumatically. Lumbar adjustment and fully adjustable armrests ensure a comfortable position throughout the working day.
- **Enhanced cab ventilation:** All four cab windows can be opened partially or fully, to provide maximum ventilation in the cab.
- **Plenty of storage space:** A new overhead radio position and document storage box, combined with a lockable storage compartment make the Case cab your convenient office.
- **Access to the King:** Wide steps and sturdy grab handles make it easy to get in and out of the cab. Large door apertures without obstacles make access to the seat equally easy.

# T-SERIES BACKHOE LOADERS

## 580T | 580ST | 590ST | 695ST

### General dimensions



LOADER	Bucket	580T		580 ST
		Straight	Tool carrier	Tool carrier
A	Maximum dump height under bucket at 45°	2780 mm	2685 mm	2685 mm
B	Maximum reach with bucket at 45°	785 mm	830 mm	830 mm
C	Maximum height pin	3500 mm	3460 mm	3460 mm
D	Maximum bucket height	4405 mm	4250 mm	4250 mm
M	Horizontal bucket digging depth	75 mm	120 mm	120 mm
E	Bucket angle (on ground)	43°	43°	43°
F	Bucket angle (in the transport position)	46°	46°	46°
	Lift capacity (at bucket load centre of gravity)	4970 kg	4830 kg	4830 kg
	Maximum height lifting capacity	3550 kg	3450 kg	3450 kg
	Lift force (boom cylinders)	3625 daN	4050 daN	4050 daN
	Breakout force (bucket cylinders)	6340 daN	6545 daN	6545 daN

BACKHOE	Bucket	580T		580 ST
		Extended	Std/Retracted	Extended
	Swinging angle	180°	180°	180°
L	Maximum digging depth	5435 mm	4369 mm	5435 mm
I	Maximum reach from swing centre	6238 mm	5229 mm	6238 mm
	Maximum reach at rear axle	7563 mm	6554 mm	7563 mm
J	Maximum operating height	6789 mm	5875 mm	6789 mm
K	Load height	4834 mm	3923 mm	4834 mm
	Central offset	0.62 m	0.62 m	0.62 m
	Lift capacity at max outreach	1049 kg	1393/1296 kg	1049 kg
	Breakout force (bucket)	5323 daN	5323 daN	5323 daN
	Breakout force (dipperstick)	2441 daN	3352 daN	2441 daN
R	Bucket rotation	200°/195° hyd. QC	200°/195° hyd. QC	200°/195° hyd. QC

DIMENSIONS		580T	580 ST
G	Boom height (transport position)	3455 mm	3455 mm
	Overall length - with standard bucket	5560 mm	5560 mm
O	Wheelbase	2175 mm	2175 mm
P	Cab height	2950 mm	2950 mm
Q	Overall width - with standard bucket	2430 mm	2430 mm
	Width outside tires	2230 mm	2230 mm
S	Stabilizer leveling compensation angle	14°	14°





# BUILT TO LAST



## Maintenance friendly

- Single piece tilting engine canopy offers excellent top and side access for safe and easy maintenance.
- Hydraulic and steering pressure control points are conveniently located between the cab and the fuel tank for easy checking.
- Common rail engines are compatible with the Case Electronic Service Tool (EST), making fault diagnosis easier and reducing possible downtime.
- All Case TLBs are equipped with a strong 4.5 liter turbocharged engine that complies with Tier 3 emissions legislation.





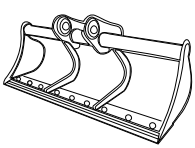


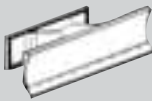

# T-SERIES BACKHOE LOADERS

## 580T | 580ST | 590ST | 695ST

### Specifications

	580T	580 ST	590 ST	695 ST
<b>Engine</b>	Conform to 97/68/CE Tier 3 standards for reduced pollution - 4 cylinders Turbocharged 4,5 liter			
Injection system	Direct Mechanical	High pressure Common Rail	High pressure Common Rail	High pressure Common Rail
Make	CNH 445TA/ML5	CNH 445TA\EEA	CNH 445TA\EGH	CNH 445TA\EGH
Power (according to ISO 14396)	72 kW / 97 hp	72 kW / 97 hp	82 kW / 110 hp	82 kW / 110 hp
Maximum torque (according to EC/97/68)	400 Nm @ 1400 1/min	453 Nm @ 1400 1/min	516 Nm @ 1400 1/min	516 Nm @ 1400 1/min
<b>Transmission</b>				
Powershuttle				
Forward speeds	6-10-21-40 Km/h	6-10-21-40 Km/h	6-10-21-40 Km/h	-
Reverse speeds	7-12-25-47 Km/h	7-12-25-47 Km/h	7-12-25-47 Km/h	-
Powershift				
Forward speeds	-	6 - 10 - 22 - 39 Km/h	6 - 10 - 22 - 39 Km/h	6 - 10 - 22 - 39 Km/h
Reverse speeds	-	7 - 12 - 26 Km/h	7 - 12 - 26 Km/h	7 - 12 - 26 Km/h
<b>Hydraulics</b>				
Type of pump and flow	Variable Displ. 6 to 165 l/min @ 2200 rpm Twin Gear Pump 151 l/min @ 2200 rpm	Variable Displ. 6 to 165 l/min @ 2200 rpm Twin Gear Pump 151 l/min @ 2200 rpm	Variable Displacement 6 to 156 l/min @ 2200 rpm	Variable Displacement 6 to 156 l/min @ 2200 rpm
Maximum pressure level	205 bars	205 bars	205 bars	205 bars
<b>Battery</b>	12 Volts / 12V 95Ah, 900A (SAE) / 120 A			
<b>Operating weight</b>				
In sideshift version, with the standard tooth loader bucket, 610 mm rear bucket, full fuel tank and 75 kg operator				
4 WD, standard dipper/Ext.	7950 Kg	7950 Kg	8020 Kg	8740 Kg
4 WD, extendible dipper/Ext	8050 Kg	8050 Kg	8120 Kg	8840 Kg
<b>Turning radius</b>				
Front tires 12.5/80-18, wheel not braked, 4WD engaged	4300 mm at ext. edge of front tires 5600 mm at bucket corner			
<b>Axles, tires &amp; brake</b>				
Brake	Power braking: brake with friction area of 2,472 cm <sup>2</sup>			
Tires	Tires must be multi-purpose, or Industrial for hard terrain, or Agricultural for loose terrain.			
- Front tires	18" front with 26" or 28" rear	18" front with 26" or 28" rear	18" front with 26" or 28" rear	26" front with 26"
- Rear tires	or 20" front with 30" rear	or 20" front with 30" rear	or 20" front with 30" rear	24" front with 24"
Front axle: oscillation of +/- 11°	differential lock	differential lock	differential lock	Limited-slip differential
<b>Capacities</b>				
Fuel tank	145 l			
Cooling system	24 l			
Hydraulic oil	126 l	140 l	140 l	140 l
Gear box oil:				
Power Shuttle 4 WD	20,8 l	20.8 l	20.8 l	20.8 l
PowerShift:				
Front axle 4WD Differential	6,5 l	6,5 l	6,5 l	6,5 l
Output stage	0,7 l+0,7 l	0.8 l+0,8 l	0.8 l+0,8 l	0.8 l+0,8 l
Rear axle 4WD Total	21,2 l	21,2 l	21,2 l	21,2 l
<b>Emissions (g/kWh)</b>				
CO2 emission	773	790	744	744
NOx emission	4,1	4,4	3,6	3,6
HC emission	0,1	0,1	0,1	0,1
CO emission	1,8	1,8	0,9	0,9
PM emission	0,26	0,25	0,13	0,13
NOx + HCNM emission	4,2	4,5	3,7	3,7
<b>Noise</b>				
Internal dB(A)	77			
External dB(A)	102	102	103	103
<b>Vibration levels</b>	Upper limbs 2.5 m/s <sup>2</sup> Abdomen 0.5 m/s <sup>2</sup>			

# THE KING OF VERSATILITY

		Width	Capacity	Weight	Hydraulics	580T 580ST 590ST	695ST 590ST
<b>6 in 1 and 4-in-1 loader buckets</b> 	For lifting and handling pallets, the 6-in-1 bucket can be ordered initially or can be obtained by installing the fork pack on a 4-in-1 bucket.	2250 mm 2400 mm	1000 l 1200 l	300 Kg 380 Kg	Hydraulic line, double acting	X	X
<b>Standard buckets</b> 	Reinforced buckets for extreme wear resistance in all digging applications	300 mm 400 mm 450 mm 600 mm 760 mm 915 mm	96 l 100 l 150 l 220 l 290 l 360 l	130 Kg 140 Kg 158 Kg 187 Kg 214 Kg 240 Kg	none none none none none none	X X X X X X	X X X X X X
<b>Ditch cleaning buck.</b> 	Wide bucket for ditch cleaning and grading operations	1200 mm 1300 mm 1400 mm 1500 mm	192 l 209 l 226 l 243 l	127 Kg 145 Kg 153 Kg 160 Kg	none none none none	X X X X	X X X X
<b>V-type bucket</b> 	V-shaped bucket specially designed for digging ditches	1000 mm (up) 200 mm (down)	243 l 150 l	160 Kg 229 Kg	none	X	X
<b>Hammer</b> 	Hydraulic hammer for breaking of asphalt, concrete, hard or frozen ground. The CB90S hammer has a silencer system that is suited to urban applications.	<b>Model</b> CB65B CB90S	<b>Tool dia.</b> 63 mm 80 mm	<b>Weight</b> 310 kg 360 kg	<b>Hydraulics</b> hammer line single acting	X	X
<b>Snow blade</b> 	Specially designed for clearing snow in tough conditions. Hydraulically powered with 30° angle to the right or left - optional wheel kit	2640 mm			double-acting hydraulic line	X	X
<b>Augers</b> 	A complete range of augers from 150 to 1,050 mm diameter is available for each application: installation of telegraph poles, electricity pylons, signposts, pillars, tree and shrub planting. For more details consult your dealer.						



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Conforms to directive 98/37/CE

