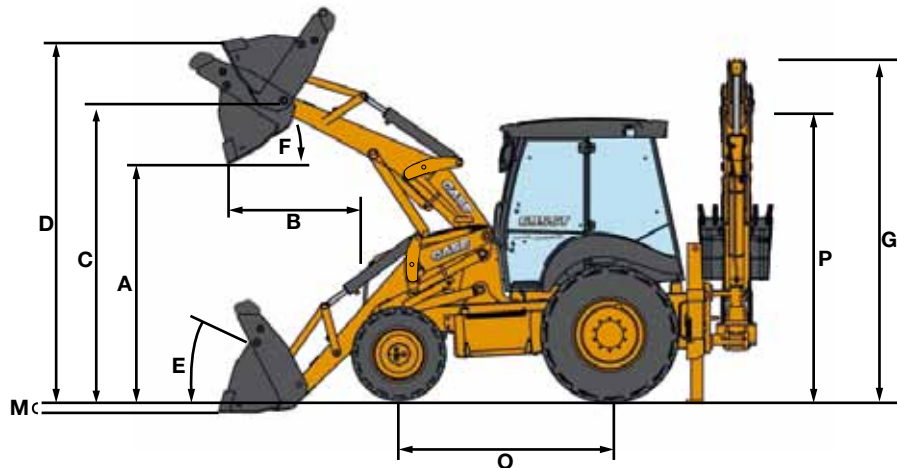




# TIER 4 T-SERIES BACKHOE LOADERS

580ST | 590ST | 695ST

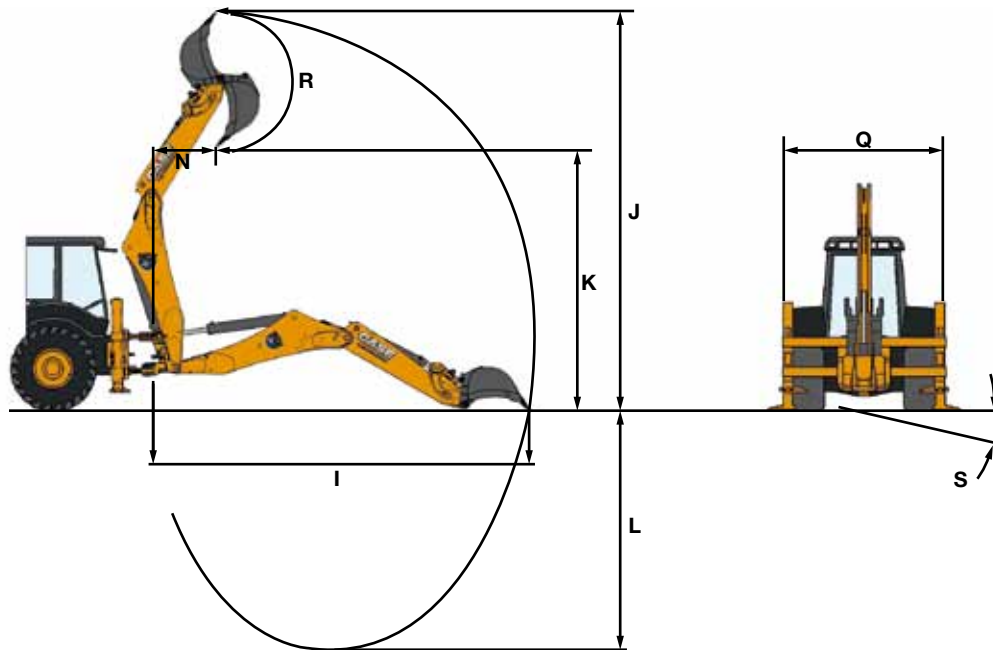
## General dimensions



LOADER	Bucket	580 ST	
		4-IN-1 / 6-IN-1	Std
A	Maximum dump height under bucket at 45°	2693 mm	2685 mm
B	Maximum reach with bucket at 45°	813 mm	830 mm
C	Maximum height pin	3458 mm	3460 mm
D	Maximum bucket height	4405 mm	4250 mm
M	Horizontal bucket digging depth	125 mm	120 mm
E	Bucket angle (on ground)	43°	43°
F	Bucket angle (in the transport position)	46°	46°
	Lift capacity (at bucket load centre of gravity)	4610 kg	4830 kg
	Maximum height lifting capacity	3195 kg	3450 kg
	Lift force (boom cylinders)	4070 daN	4050 daN
	Breakout force (bucket cylinders)	6650 daN	6545 daN

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

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



LOADER	Bucket	590 ST		695 ST	
		4-IN-1 / 6-IN-1	Std	4-IN-1 / 6-IN-1	Std
A	Maximum dump height under bucket at 45°	2693 mm	2685 mm	2750 mm	2750 mm
B	Maximum reach with bucket at 45°	813 mm	830 mm	720 mm	750 mm
C	Maximum height pin	3458 mm	3460 mm	3520 mm	3520 mm
D	Maximum bucket height	4405 mm	4250 mm	4460 mm	4350 mm
M	Horizontal bucket digging depth	125 mm	120 mm	90 mm	85 mm
E	Bucket angle (on ground)	43°	43°	45°	45°
F	Bucket angle (in the transport position)	46°	46°	46°	46°
	Lift capacity (at bucket load centre of gravity)	4610 kg	4830 kg	4580 kg	4770 kg
	Maximum height lifting capacity	3195 kg	3450 kg	3075 kg	3550 kg
	Lift force (boom cylinders)	4070 daN	4050 daN	7400 daN	7400 daN
	Breakout force (bucket cylinders)	6650 daN	6545 daN	5500 daN	5520 daN

BACKHOE	Bucket	590 ST		695 ST	
		Extended	Std/Retracted	Extended	Std/Retracted
	Swinging angle	180°	180°	180°	180°
L	Maximum digging depth	5887 mm	4670 mm	5810 mm	4595 mm
I	Maximum reach from swing centre	6655 mm	5497 mm	6645 mm	5185 mm
	Maximum reach at rear axle	7960 mm	6510 mm	7960 mm	6510 mm
J	Maximum operating height	7141 mm	6111 mm	7215 mm	6192 mm
K	Load height	5196 mm	4166 mm	5271 mm	4249 mm
	Central offset	0.62 m	0.62 m	0.62 m	0.62 m
	Lift capacity at max outreach	1097 kg	1472/1369 kg	1097 kg	1472/1369 kg
	Breakout force (bucket)	6111 daN	6111 daN	6111 daN	6111 daN
	Breakout force (dipperstick)	2488 daN	3482 daN	2488 daN	3482 daN
R	Bucket rotation	198°/195° hyd. QC	198°/195° hyd. QC	198°/195° hyd. QC	198°/195° hyd. QC

#### DIMENSIONS

G	Boom height (transport position)	3682 mm	3647 mm
	Overall length - with standard bucket	5560 mm	5499 mm
O	Wheelbase	2175 mm	2200 mm
P	Cab height	2950 mm	2900 mm
Q	Overall width - with standard bucket	2430 mm	2480 mm
	Width outside tires	2230 mm	-
S	Stabilizer leveling compensation angle	14°	14°



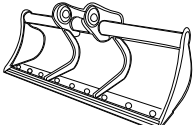


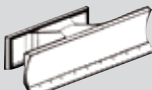

# TIER 4 T-SERIES BACKHOE LOADERS

580ST | 590ST | 695ST

## Specifications

	580 ST	590 ST	695 ST
<b>Engine</b>			
	Conform to 97/68/CETIER 4 I standards 4 cylinders turbocharged and aftercooled 3,4 liter		
Injection system	High pressure Common Rail	High pressure Common Rail	High pressure Common Rail
Make	CASE 434T/E	CASE 434T/E	CASE 434T/E
Power (according to ISO 14396)	72 kW / 97 hp	82 kW / 110 hp	82 kW / 110 hp
Maximum torque (according ISO 14963)	453 Nm @ 1400 1/min	460 Nm @ 1400 1/min	460 Nm @ 1400 1/min
<b>Transmission</b>			
Powershuttle			
Forward speeds	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	-
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	Variable Displacement	Variable Displacement	Variable Displacement
Maximum flow	6 to 156 l/min @ 2200 1/min	6 to 165 l/min @ 2200 1/min	6 to 165 l/min @ 2200 1/min
Maximum pressure level	205 bars	205 bars	205 bars
<b>Battery</b>		12 Volts / 95 Ah, 900A (SAE)	
<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	8020 Kg	8740 Kg
4 WD, extendible dipper/Ext	8050 Kg	8120 Kg	8840 Kg
<b>Turning radius</b>			
Front tires 12.5/80-18, wheel not braked, 4WD engaged	5300 mm at ext. edge of front tires 6400 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.		
	18" front with 26" or 28" rear or 20" front with 30" rear differential lock	18" front with 26" or 28" rear or 20" front with 30" rear differential lock	26" front with 26" 28" front with 28" Limited-slip differential
Front axle: oscillation of +/- 11°			
<b>Capacities</b>			
Fuel tank	145 l		
Cooling system	24 l		
Hydraulic oil	140 l	140 l	140 l
Gear box oil:			
Power Shuttle 4 WD	20.8 l	20.8 l	20.8 l
PowerShift:			
Front axle 4WD Differential	6,5 l	6,5 l	6,5 l
Final drives	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
<b>Emissions (g/kWh)</b>			
CO2 emission	890	890	890
NOx emission	3.03	3.03	3.03
HC emission	0.1	0.1	0.1
CO emission	0.05	0.05	0.05
PM emission	0.01	0.01	0.01
NOx + HCNM emission	4.5	3.7	3.7
<b>Noise</b>			
Internal dB(A)	77		
External dB(A)	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	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.						

Conforms to directive 98/37/CE



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