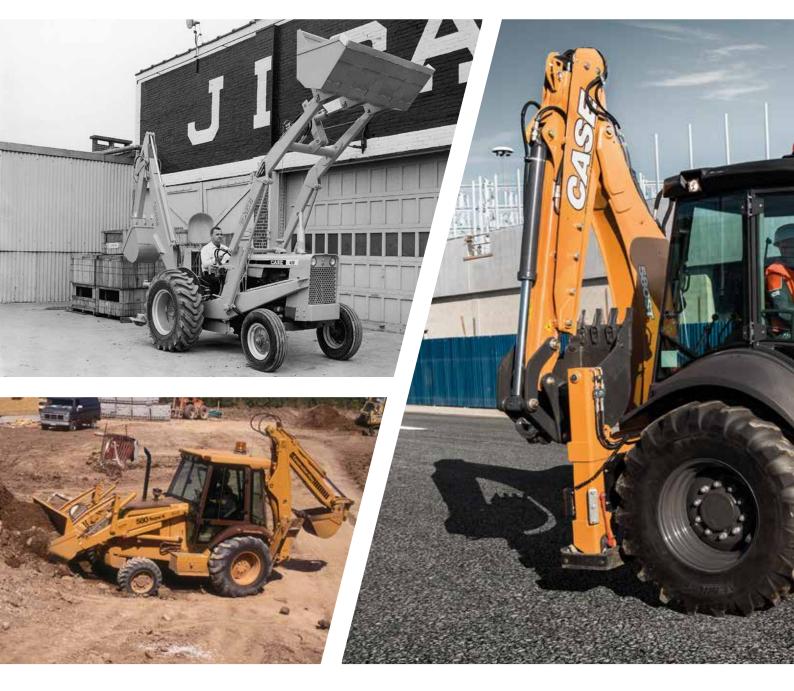
T-SERIES BACKHOE LOADERS 580ST | 590ST | 695ST





THE ORIGINAL, READY FOR ANYTHING

WWW.casece.com EXPERTS FOR THE REAL WORLD SINCE 1842



EXPERTS FOR THE REAL WORLD SINCE 1842

- **CASE** is founded.
- **CASE TLB 420** was the first diesel powered model.
- CASE is the first manufacturer to develop an extending dipper, the patented CASE Extendahoe.
- **CASE** begins skid steer loader production.
- CASE is the first to offer Ride Control on a loader/backhoe.
- CASE is the first company to offer a Powershift transmission on a loader/backhoe.
- **CASE** is the first company to offer a backhoe loader integrated quick coupler.

HERITAGE CASE DNA SINCE 1957



- **2001** CASE M series backhoe is listed in "Construction Equipment" magazine among the TOP 100 products.
- **2005** CASE produces its 500,000th loader/backhoe and is today well on the way to three quarters of a million.
- **2012** CASE achieves Tier 4 emissions standards while delivering best-in-class breakout force and lift capacity.
- **2015** CASE extends its european product line-up with the new grader range.
- **2016** CASE backhoe offering is enlarged introducing "In-Line" backhoe and "Straight-Loader" arm satisfying the different customer needs and preferences.
- **2017** CASE introduces a Tier 4 final fully customizable backhoe.



LOW EMISSIONS

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.

FPT Engine family

The 3.4 litre FPT engine featuring state-of-the-art technology delivers a big performance in a small package with the lowest maintenance cost in the market:

- The air intake system with centrifugal dust separator reduces the cleaning intervals.
- 16 valves allows perfect air intake management, higher turbolence and consequently optimal combustion.
- High turbulence piston and air intake manifold.
- High pressure multi-injection common rail for a perfect air-fuel mix and greater burning efficiency.
- Electronically controlled "waste-gate" valve for immediate engine reaction and shorter lag time before the turbo begins to spool and generate a boost.
- The integrated engine and after treatment system management always provide the highest power with the lowest fuel consumption, whatever the climate conditions or engine load.
- Viscous fan: no power is wasted with its low cooling demands.
- Fully HVO diesel compatible

The Auto/Engine Shut down electronic function surveys, the most critical engine and transmission working parameters, it switches off the engine automatically if the specific parameter is below a pre-defined and safe threshold:

- engine oil pressure
- engine coolant temperature
- transmission oil temperature

The system can be deactivated if required by the driver. This solution toghether with SITE WATCH telematics helps to prevend any major failure, drammaticaly reducing costs for extraordinary maintenance.



ENGINE A POWERFUL HEART



Compact HI-eSCR



SAFE AND EASY MAINTENANCE

Compact engine, optimized layout

- 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 extraordinary maintenance costs due to cracks in the radiators.
- The externally installed SCR eases the access to the after-treatment components, while ensuring a wider space under the bonnet to be used for routeen maintenance.









PROTECTED BACKHOE OPERATION

The King's DNA

Customers around the world have built their success on the power and performance of the CASE backhoe.

- The exclusive outer extendahoe is part of the CASE DNA: all the components in contact with the soil are protected against impact and material accumulation.
- The gripper teeth provide perfect material retention especially when working on pipe placement.
- The curved main boom provides greater digging ability and makes it easier to load a truck.
- Pilot controls automatically deactivate when not in use for improved safety. They are immediately reactivated at the touch of a switch.



LOW PROFILE FOR EASY TRANSPORT

A compact machine for big jobs

We don't like to wasting time and fuel, and we know you don't either, so we reduced significantly transport height with the overlapping cylinder geometry. The 580ST measures less than 3.5 m in height, while the 590ST and the 695ST measure less than 3.7 m.



TIME SAVING

Do it from the cab!

- The patented integrated hydraulic quick coupler enables the operator to change over the backhoe attachments from the cab, with a simple switch.
- The hydraulic side shift allows easy and quick backhoe replacement in all working conditions.

BACKHOE TAILORED MADE SOLUTIONS





FLEXIBLE BUCKET CHOICE

CASE Universal Coupler

The new Universal coupler allows to install on Backhoe boom, not only traditional CASE buckets, but also the most common buckets of the main backhoe manufacturers. This solution allows the customer to have multiple choices and to fit buckets alredy present on his yard. The universal coupler is optional for in-line geometry backhoe design.





"IN-LINE" BACKHOE GEOMETRY

No Stress power

CASE has enriched the offering introducing a new backhoe design with "In-Line" cylinder geometry and inner extendahoe. The new solution allows the customer to choose the better technology for his own needs. A different solution to lead the market with top performances, comparable with well known CASE DNA characteristics. The aligned cylinders ensure perfect visibility across the boom and reduce the structure bending distributing the stress. This is the typical solution adopted on large excavators where productivity and reliability are a must. The new technology will flank the well known and more backhoe oriented CASE DNA boom with overlapping cylinders and outer extendahoe.





AUTO RIDE CONTROL

Safe productivity

- Auto Ride Control reduces loader arm bouncing 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. 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 simple.

LOADER: STRAIGHT TO PERFORMANCE





ABOVE ANY LIMIT

Top loading reach, lowest maintenance costs

For the professionals requiring very high tipping height or for those working mainly with the backhoe, the Straight Loader Arm is the preferred solution. The arm design makes the loader structure less complex minimizing the greasing points and providing higher visibility on the front of the machine. The straight and long arms have the loader pin point 8 cm higher than standard bent arms without affecting the breakout and loading performance which are aligned with the more "traditional" solution.

The anti-tipping function keeps the bucket on the correct position while lifting the load, consequently there is no risk of material spillage.



The new Smart-fit teeth are now available for the front and backhoe heavy-duty buckets.

These teeth contribute to the backhoe loader's improved performance: they penetrate deeper and stay sharp longer, resulting in more productivity that lasts over time and lower service costs. They are also remarkably quick to change: it is just a matter of minutes and the machine is back at work. The result: more productivity, longer life, lower costs.

MAIN REASONS TO CHOOSE THE T-SERIES



LOW PROFILE FOR EASY TRANSPORT

- The design with overlapping cylinders reduces the overall boom transport height to 3.5 m for 580ST and 3.7 m for 590ST and 695ST.



"IN-LINE" BACKHOE GEOMETRY

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



FLEXIBLE BUCKET CHOICE

- Economic backhoe interchangeability keeping best/in/class digging performances.



TIME SAVING

- The patented integrated hydraulic quick coupler allows changing over the backhoe attachments from the cab with a simple switch.
- The hydraulic side shift enables easy and quick backhoe replacement in all work conditions.



PROTECTED BACKHOE OPERATION

- The outer extendahoe is the perfect solution for tough working conditions: the sliding part never touches the soil preserving its efficiency.
- The gripper teeth are the right tool for excellent material retention.



ABOVE ANY LIMIT

- Straight loader arm The CASE loader ensure highest loading capacity in the market combined with best-in-class tipping height.



LOW EMISSIONS

- The 3.4-litre FPT engine with high power and torque density dramatically reduces emissions ensuring the lowest maintenance costs in the market.



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.

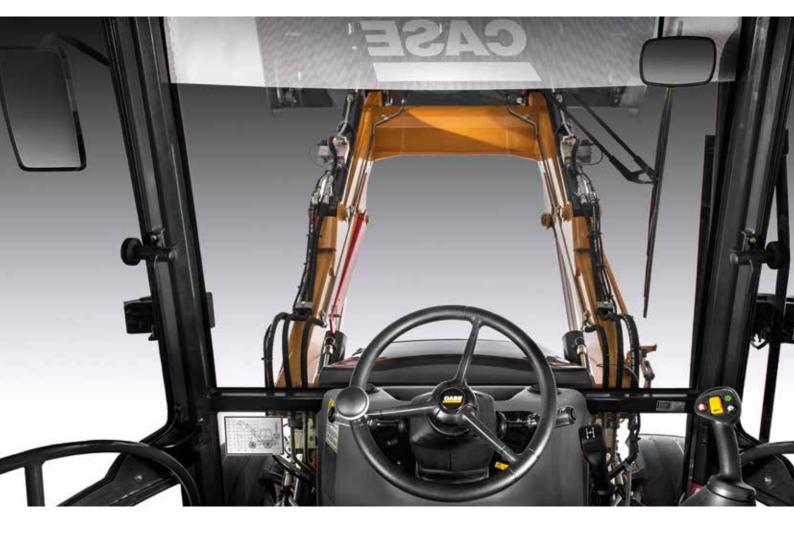
COMFORTABLE AND SAFE CAB

- Excellent visibility for all operations with loader or
- backhoe.
- Fully openable front and rear windscreens for excellent cab ventilation.
- New LED lights
- New heated sea



AUTO RIDE CONTROL - Auto Ride Control offers 3 settings to match different working conditions.

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





COMFORTABLE AND SAFE CAB

Get settled on your seat

- Personalised working position: pilot control columns and wrist rests are fully adjustable to suit your size.
- The sound of silence: the cab sits on insulating mountings, reducing vibration and noise levels to 77 dB(A)
- Excellent visibility equals greater safety: the rear screen is fully tiltable to provide an unobstructed view of 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.

The new heated seat helps warming up in the coldest conditions.

- 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 comfortable 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.
- For night working the CASE backhoe loader comes with 10 LED or halogen working lights, including two on each side, for maximum visibility.

New LED option provides 4 times more light intensity. Your work in dark conditions will be as bright as ever!

12

CAB AND SEAT A CAB FIT FOR A KING



Customized driving

Thanks to electronics the driver can set backhoe driving reaction on 3 different levels.

Through the board computer:

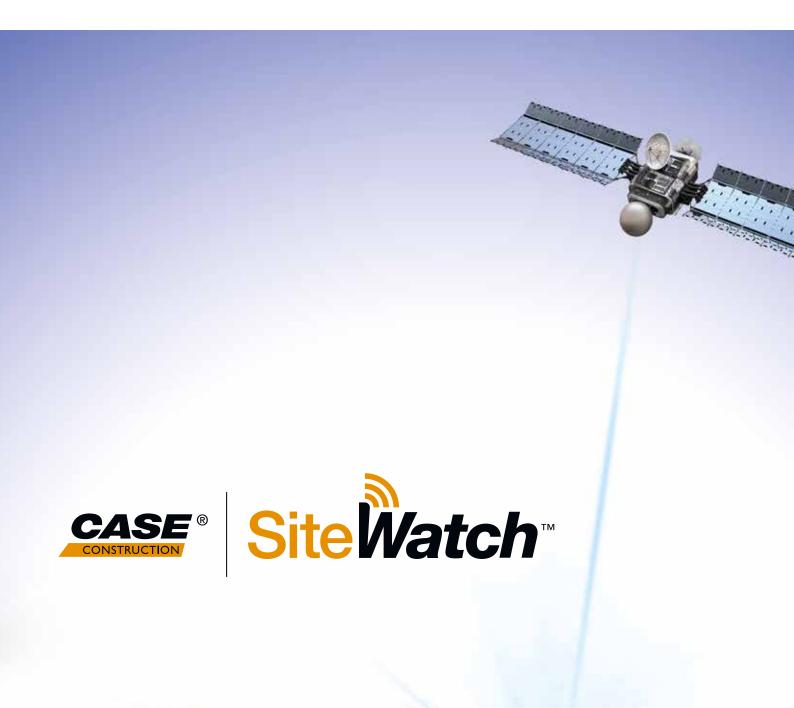
- ride control
- throttle
- F/N/R shift
- engine minimum and maximum rpm
- auto engine shut down

can be easely set matching specific customer needs or preferences.











THE SCIENCE BIT

The Case SiteWatch telematics system uses a high-tech control unit mounted on each machine to collate information from that machine and from GPS satellites. This data is then sent wirelessly through the mobile communication networks to the Case Telematics Web Portal.

SiteWatch: centralised fleet control benefits at your fingertips

Measure your true asset availability and optimise it

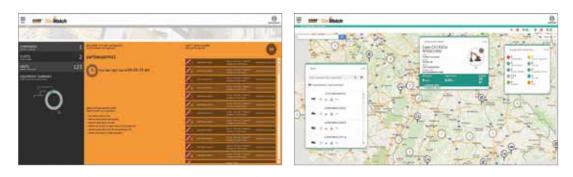
- Eliminate the "phantom fleet": SiteWatch allows to identify spare units or under loaded machines on each site.
- Able to reallocate units where they are more needed.
- Maintenance planning is easier since the actual machine hours are available and alerts will be sent when a service is due.
- Extend the benefits of SiteWatch to the rest of your fleet: SiteWatch can be installed on the units of other brands as well.

Challenge your Total Cost of Ownership!

- Being able to compare the fuel usage of different machine types will allow you choose the right equipment.
- Save on transport costs with planned and grouped service intervention.
- Peace of mind, optimised uptime and lower repair costs: with preventive maintenance you can be alerted if the engine needs to be serviced and avoid a disruptive breakdown.
- Be able to compare your asset Return On Investment on different sites.
- Your equipment is used only during working hours. You can receive alerts when is in use during the weekend or at night.

🔊 More Safety, Lower Insurance Premium

- Keep thieves away: dissuade them from attacking your asset because it is geo-localised. SiteWatch is hidden so that thieves can't find it quickly.
- Geo-fence your assets. You can define a virtual fence and receive an email when a machine exits that perimeter.
- Recover your asset if it is taken away, thanks to the continuous asset's tracking.

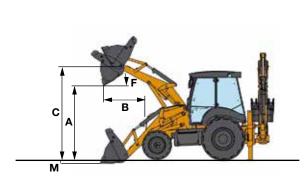


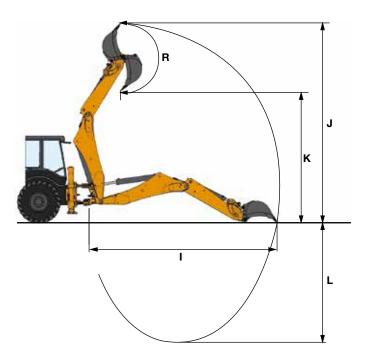
SPECIFICATIONS

ENGINE	580ST		59	OST	695ST						
Make and Model	FPT F5C - I	-5BFI 413B	FPT F5C - F5BFL413A								
Injection system	111100	High Pressure Common Rail									
Emissions level		Stage IV / Tier 4 Final									
# of cylinders	4										
Bore / Stroke		99 mm x 110 mm									
Displacement / Compression ratio		3.4 ltr / 17 to 1									
Engine rated Power (ISO 14396)	72 KW (97 hp	72 KW (97 hp) @ 2200 rpm 82 KW (110 hp) @ 2200 rpm									
Max Net Power	84 KW (112 h			89 KW (119 h)	<u>/ </u>						
Maximum torque (ISO 14396)	459 Nm @	, ,		467 Nm @	, ,						
Engine speeds		2200 rpm (ra	ated speed at full load) /	900-1000 rpm (low spee	ed at no load)						
TRANSMISSION	1	4V	· · · · ·	<u></u> r (r.	,	- 4WS					
Туре	Powershuttle	Powershift	Powershuttle	Powershift	Pow	ershift					
Model	Carraro TLB1 PB 4WD	Carraro TLB2 MPB 4WD	Carraro TLB1 PB 4WD	Carraro TLB2 MPB 4WD		ro TLB2 S MPB					
Forward travel speeds		6 - 10 - 21	- 40 (kph)	•	7 - 11 - 2	4 - 40 (kph)					
Reverse travel speeds		7 - 12 - 26	6 - 47 (kph)		8 - 13 -	· 29 (kph)					
FRONT AXLE											
Model		4WD He	avy duty		4WD with limite	ed slip differential					
Oscillation		+/-	11°		+/	′- 8°					
REAR AXLE											
Model		Carraro 28.44FR Carraro 28.50 with Differential lock with Differential lock				o 26.43 slip differential					
BRAKES											
Service brakes	Hydraulic foot operated, 2 disc per side Hydraulic foot operated, 3 disc per										
Parking brakes		Mechanically actuated									
TIRES											
Front	18"	20"	18"	20"	24"	28"					
Rear	26" or 28"	30"	26" or 28"	30"	24"	28"					
STEERING											
Туре	Power Steering										
System pressure / Displacement	180 bar / 160 cc										
Turning radius 4WD (external radius)	With 18" tires:With 28" tires:4300 mm with brakes off8180 mm in 2WS mode with brakes on3600 mm with brakes on6820 mm in 2WS mode with brakes on					node with brakes off node with brakes on					
HYDRAULIC SYSTEM	1										
Туре	Load sensing closed center with twin gear pump	Load sensing closed center with variable volume pump		d center with variable e pump		d center with variable e pump					
Flow (@ 2200 rpm)	156 l/min	6 to 165 l/min	6 to 16	65 l/min	6 to 10	65 l/min					
Pressure	205	bar	205	5 bar	205	5 bar					
SERVICE CAPACITIES											
Engine oil	8			3 I	{	8 I					
Transmission oil	20	.8	20.8 I		20.8						
Rear axle oil	21			.2		3.6 I					
Hydraulic oil	14		142 l		1421						
Fuel tank	13		131 I		131						
DEF tank		.2	13.2		13.2						
Coolant	24	11	24		24						
ELECTRICAL SYSTEM											
Voltage	12	2 V	12	2 V	1	2 V					
Battery	Single: 95 Ah 900 A or Double: 60 Ah, 600 A (each)										
Dallel y		0	120 A 120 A 120 A								
Alternator	12		12	20 A	12						
	12		12	20 A	12						
Alternator CAB Certification	12 ROPS	0 A		/ FOPS		/ FOPS					
Alternator CAB		0 A / FOPS	ROPS		ROPS						
Alternator CAB Certification Air Conditioning NOISE	ROPS Opti	0 A / FOPS onal	ROPS	/ FOPS	ROPS	/ FOPS					
Alternator CAB Certification Air Conditioning	ROPS	0 A / FOPS onal	ROPS Opt	/ FOPS	ROPS Opt	/ FOPS					

SPECIFICATIONS

GENERAL DIMENSIONS

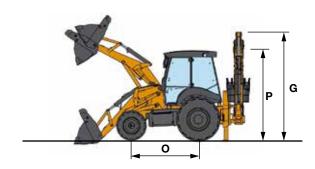


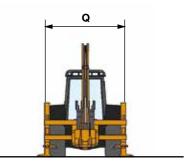


		580ST - 590ST				
		TOOL CARRIE	R LOADER ARM	STRAIGHT LOADER ARM		
OADER (4WD configuration)		Std bucket	4 x 1 bucket	Std bucket	4 x 1 bucket	
A Maximum dump height under bucket at 45°	mm	2606	2618	2711	2726	
B Dump Reach at full height	mm	844	825	815	785	
C Maximum height pin	mm	3460	3458	3490	3490	
F Dump angle	0	46		45		
M Below ground level digging depth	mm	166	170	105	157	
Maximum lifting capacity @ ground level	kg	56	5670		4731	
Maximum lifting capacity @ max height	kg	3934	3572	3553	3290	
Loader breakout force	daN	49	910	38	304	
Bucket breakout force	daN	63	338	59	85	

			E DNA ckhoe		cylinder khoe		E DNA khoe		e cylinder Skhoe
BACKHOE		Std Dipper	Extendable Dipper	Std Dipper	Extendable Dipper	Std Dipper	Extendable Dipper	Std Dipper	Extendable Dipper
Backhoe size	ft	14 (580ST)	14 (580ST)	15 (590ST)	15 (580	ST, 590ST)
Swinging angle	0	180							
I Maximum reach from swing center	mm	5695	6699	5612	6286	5967	7111	5862	6991
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	0	1	98	203 (ma	x amp hole)	1	98	203 (ma	k amp hole)
Bucket breakout force	daN	5	326	5971 (ma	x force hole)	6	114	5971 (ma	x force hole)
Dipper breakout force	daN	3240	2375	3767	2592	3362	2420	3358	2389

GENERAL DIMENSIONS





		580ST - 590ST			
OVERALL DIMENSIONS		CASE DNA backhoe	In-Line cylinder backhoe		
G Boom height (transport position)	mm	3560	3880		
0 Wheel base	mm	2	2175		
P Cab height	mm	2	2950		
Q Overall width with standard loader bucket	mm	2	2430		
Minimum ground clearence	mm		348		

 WEIGHTS
 580ST

 Total permissible mass
 kg
 9140

OPTIONAL BUCKETS Loader	Capacity (SAE Itr)
Standard	1000 / 1200
4 x 1	1000 / 1150
6 x 1	1000 / 1150

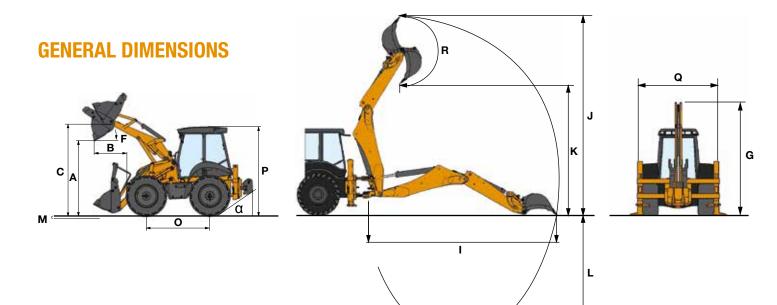
CASE DNA backhoe	Capacity (SAE Itr)
300 mm backhoe trenching	80
400 mm backhoe trenching*	110
450 mm backhoe trenching*	120
610 mm backhoe trenching*	180
760 mm backhoe trenching	260
900 mm backhoe trenching*	300
1500 mm Ditch Cleaning	280

In-line cylinder backhoe	Capacity (SAE Itr)
300 mm backhoe trenching	80
457 mm backhoe trenching	140
610 mm backhoe trenching	180
760 mm backhoe trenching	260
915 mm backhoe trenching	320

590ST

* Standard and Heavy Duty versions

SPECIFICATIONS



695ST **TOOL CARRIER LOADER ARM**

2480

34

695ST

LOADER*		Std bu	cket	4	4 x 1 bucket	
A Maximum dump height under bucket at 45°	mm	2708			2718	
B Dump Reach at full height	mm	799			782	
C Maximum height pin	mm	353	1		3531	
F Dump angle	0		46			
M Below ground level digging depth	mm	93			97	
Maximum lifting capacity @ ground level	kg		535	0		
Maximum lifting capacity @ max height	kg	393	4		3572	
Loader breakout force	daN		435	0		
Bucket breakout force	daN		524	0		
* Values valid also for Loader Only version		CASE DNA backhoe In-Line cylinder back			cylinder backhoe	
BACKHOE		Std Dipper	Extendable Dipper	Std Dipper	Extendable Dipper	
Backhoe size	ft	15	15		15	
Swinging angle	0	180				
I Maximum reach from swing center	mm	5961	7111	5862	6991	
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	0	198	}	203 (max amp hole)	
Bucket breakout force	daN	6114		5971 (max force hole)	
Dipper breakout force	daN	3362	2420	3358	2389	
OVERALL DIMENSIONS		CASE DNA backho	e In-Line cylind	er backhoe	695ST LOADER ONLY	
G Boom height (transport position)	mm	3692	401	4013 -		
0 Wheel base	mm	2220	222	0	2220	
P Cab height	mm	3060	306	0	3060	

WEIGHTS

α Ramp angle

Q Overall width with standard loader bucket

Total permissible mass		kg		9350	
OPTIONAL BUCKETS	Capacity (SAE ltr)	CASE DNA backhoe	Capacity (SAE Itr)	In-line cylinder backhoe	Capacity (SAE ltr)
Loader		300 mm backhoe trenching	80	300 mm backhoe trenching	80
Standard	1200	400 mm backhoe trenching*	110	457 mm backhoe trenching	140
4 x 1	1150 / 1200	450 mm backhoe trenching*	120	610 mm backhoe trenching	180
6 x 1	1150 / 1200	610 mm backhoe trenching*	180	760 mm backhoe trenching	260
		760 mm backhoe trenching	260	915 mm backhoe trenching	320
		900 mm backhoe trenching*	300		
		1500 mm Ditch Cleaning	280		
		* Ctandard and Llaguer Duty variana			

2480

34

* Standard and Heavy Duty versions

mm

0

2480

34

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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



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	1