

580SV / 590SV / 695SV

BACKHOE LOADERS

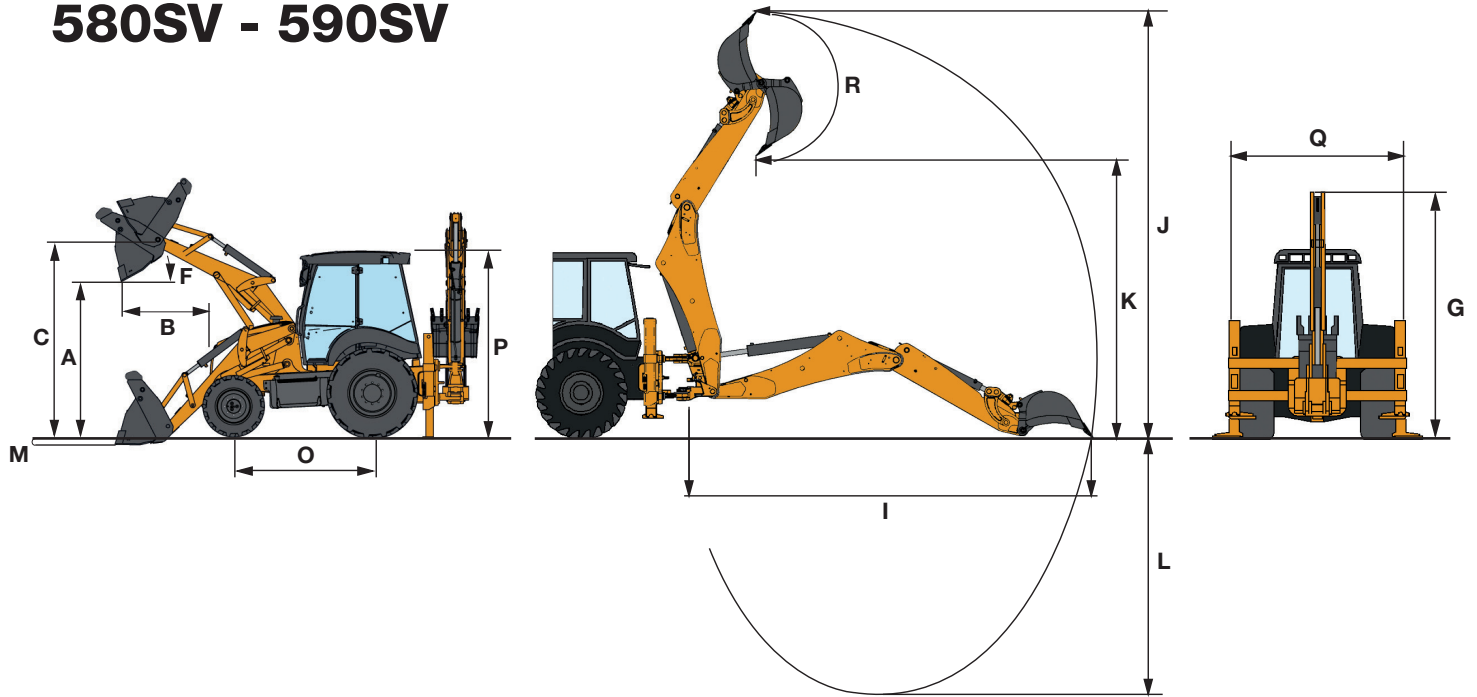
SV-Series



SPECIFICATIONS	580SV		590SV		695SV
ENGINE					
Make and Model	FPT F5C - F5MGL413B		FPT F5C - F5MGL413A		
Injection system	High Pressure Common Rail				
Emissions level	Stage V				
# of cylinders	4				
Bore / Stroke	102 mm x 110 mm				
Displacement / Compression ratio	3.6 ltr / 17 to 1				
Engine rated Power (ISO 14396)	72 KW (97 hp) @ 2200 rpm		82 KW (110 hp) @ 2200 rpm		
Max Net Power	84 KW (112 hp) @2000 rpm		89 KW (119 hp) @1900 rpm		
Maximum torque (ISO 14396)	453 Nm @ 1400 rpm		460 Nm @ 1400 rpm		
Engine speeds	2200 rpm (rated speed at full load) / 900-1000 rpm (low speed at no load)				
TRANSMISSION					
	4WD				4WD - 4WS
Type	Powershuttle	Powershift	Powershuttle	Powershift	Powershift
Model	Carraro TLB1 PB 4WD	Carraro TLB2 MPB 4WD	Carraro TLB1 PB 4WD	Carraro TLB2 MPB 4WD	Carraro TLB2 4WS MPB
Forward travel speeds	6 - 10 - 21 - 40 (kph)				7 - 11 - 24 - 40 (kph)
Reverse travel speeds	7 - 12 - 26 - 47 (kph)				8 - 13 - 29 (kph)
FRONT AXLE					
Model	4WD Heavy duty				4WD with limited slip differential
Oscillation	+/- 11°				+/- 8°
REAR AXLE					
Model	Carraro 28.44FR with Differential lock		Carraro 28.50 with Differential lock		Carraro 26.43 with limited slip differential
BRAKES					
Service brakes	Hydraulic foot operated, 2 disc per side				Hydraulic foot operated, 3 disc per side
Parking brakes	Mechanically actuated				
TIRES					
Front	18"	20"	18"	20"	28"
Rear	26" or 28"	30"	26" or 28"	30"	28"
STEERING					
Type	Power Steering				
System pressure / Displacement	180 bar / 160 cc				
Turning radius 4WD (external radius)	With 18" tires: 4300 mm with brakes off 3600 mm with brakes on				With 28" tires: 8180 mm in 2WS mode with brakes off; 6820 mm in 2WS mode with brakes on; 4810 mm in 4WS mode with brakes off
HYDRAULIC SYSTEM					
Type	Load sensing closed center with twin gear pump	Load sensing closed center with variable volume pump	Load sensing closed center with variable volume pump		Load sensing closed center with variable volume pump
Flow (@ 2200 rpm)	156 l/min	6 to 165 l/min	6 to 165 l/min		6 to 165 l/min
Pressure	205 bar		205 bar		205 bar
SERVICE CAPACITIES					
Engine oil	8 l		8 l		8 l
Transmission oil	20.8 l		20.8 l		20.8 l
Rear axle oil	21.2 l		21.2 l		13.6 l
Hydraulic oil	142 l		142 l		142 l
Fuel tank	131 l		131 l		131 l
DEF tank	13.2 l		13.2 l		13.2 l
Coolant	24 l		24 l		24 l
ELECTRICAL SYSTEM					
Voltage	12 V		12 V		12 V
Battery	Single: 95 Ah 900 A or Double: 60 Ah, 600 A (each)				
Alternator	120 A		120 A		120 A
CAB					
Certification	ROPS / FOPS		ROPS / FOPS		ROPS / FOPS
Air Conditioning	Optional		Optional		Optional
Storage compartments capacity	45 l including: 2 lockable, cooling box				
Speedometer	Optional		Optional		Optional
Bluetooth radio	Optional		Optional		Optional
NOISE					
Internal (cab)	74 dB(A)		74 dB(A)		74 dB(A)
External	102 dB(A)		103 dB(A)		103 dB(A)

DIMENSIONS AND SPECIFICATIONS

580SV - 590SV



GENERAL DIMENSIONS		580SV - 590SV				580SV				
LOADER (4WD configuration)		TOOL CARRIER LOADER ARM				STRAIGHT LOADER ARM				
		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	°	46		45					
M	Below ground level digging depth	mm	166	170	105	157				
	Maximum lifting capacity @ ground level	kg	5670		4731					
	Maximum lifting capacity @ max height	kg	3934		3553					
	Loader breakout force	daN	4910		3804					
	Bucket breakout force	daN	6338		5985					
BACKHOE			CASE DNA BACKHOE		IN-LINE CYLINDER BACKHOE		CASE DNA BACKHOE		IN-LINE CYLINDER BACKHOE	
			Std Dipper	Extendable Dipper	Std Dipper	Extendable Dipper	Std Dipper	Extendable Dipper	Std Dipper	Extendable Dipper
	Backhoe size	ft	14 (580SV)		14 (580SV)		15 (590SV)		15 (580SV, 590SV)	
	Swinging angle	°	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	°	198		203 (max amp hole)		198		203 (max amp hole)	
	Bucket breakout force	daN	5326		5971 (max force hole)		6114		5971 (max force hole)	
	Dipper breakout force	daN	3240	2375	3767	2592	3362	2420	3358	2389
OVERALL DIMENSIONS			CASE DNA BACKHOE				IN-LINE CYLINDER BACKHOE			
G	Boom height (transport position)	mm	3560				3880			
O	Wheel base	mm					2175			
P	Cab height	mm					2950			
Q	Overall width with standard loader bucket	mm					2430			
	Minimum ground clearance	mm					348			

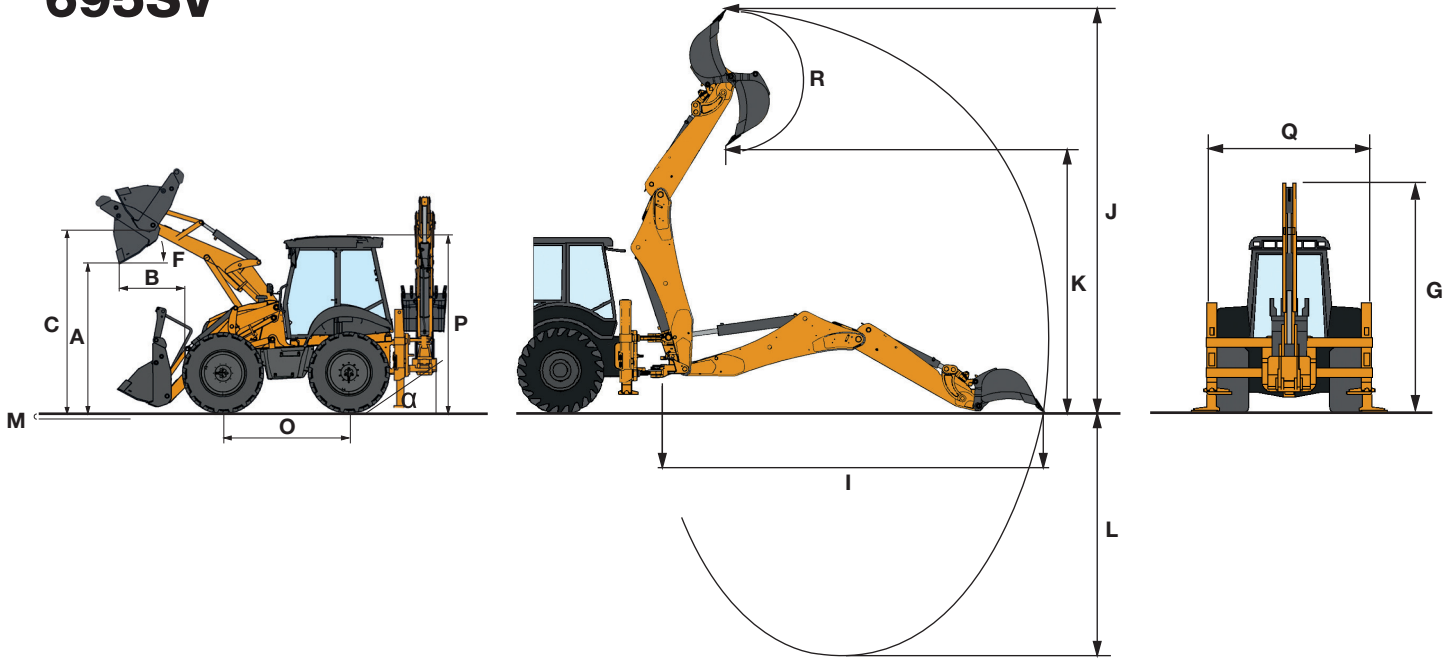
WEIGHTS		580SV - 590SV			
Maximum operating weight	kg	9580			

OPTIONAL BUCKETS					
LOADER	Capacity (SAE ltr)	CASE DNA BACKHOE		IN-LINE-CYLINDER BACKHOE	
		Capacity (SAE ltr)		Capacity (SAE ltr)	
Standard	1000 / 1200	300 mm backhoe trenching	80	300 mm backhoe trenching*	80
4 x 1	1000 / 1150	400 mm backhoe trenching*	110	457 mm backhoe trenching*	140
6 x 1	1000 / 1150	450 mm backhoe trenching*	120	610 mm backhoe trenching*	180
		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		

* Standard and Heavy Duty versions

DIMENSIONS AND SPECIFICATIONS

695SV



GENERAL DIMENSIONS		695SV			
		TOOL CARRIER LOADER ARM			
LOADER (values valid also for Loader Only version)		Std bucket		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	3531		3531
F	Dump angle	°		46	
M	Below ground level digging depth	mm	93		97
	Maximum lifting capacity @ ground level	kg		5350	
	Maximum lifting capacity @ max height	kg	3934		3572
	Loader breakout force	daN		4350	
	Bucket breakout force	daN		5240	
		CASE DNA BACKHOE		IN-LINE CYLINDER BACKHOE	
BACKHOE		Std Dipper	Extendable Dipper	Std Dipper	Extendable Dipper
	Backhoe size	ft	15		15
	Swinging angle	°		180	
I	Maximum reach from swing center	mm	5961	7111	5862
J	Maximum operating height	mm	6043	7069	5616
K	Maximum loading height	mm	4098	5124	3867
L	Maximum digging depth	mm	4750	5965	4666
R	Bucket rotation	°	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 BACKHOE		IN-LINE CYLINDER BACKHOE	
G	Boom height (transport position)	mm	3692		4013
O	Wheel base	mm	2220		2220
P	Cab height	mm	3060		3060
Q	Overall width with standard loader bucket	mm	2480		2480
α	Ramp angle	°	34		34

WEIGHTS		695SV	
Maximum operating weight	kg	9970	

OPTIONAL BUCKETS					
LOADER	Capacity (SAE ltr)	CASE DNA BACKHOE	Capacity (SAE ltr)	IN-LINE-CYLINDER BACKHOE	Capacity (SAE ltr)
Standard	1200	300 mm backhoe trenching	80	300 mm backhoe trenching*	80
4 x 1	1150 / 1200	400 mm backhoe trenching*	110	457 mm backhoe trenching*	140
6 x 1	1150 / 1200	450 mm backhoe trenching*	120	610 mm backhoe trenching*	180
		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		

* Standard and Heavy Duty versions

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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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