



CASE
CONSTRUCTION

V-SERIES BACKHOE LOADERS



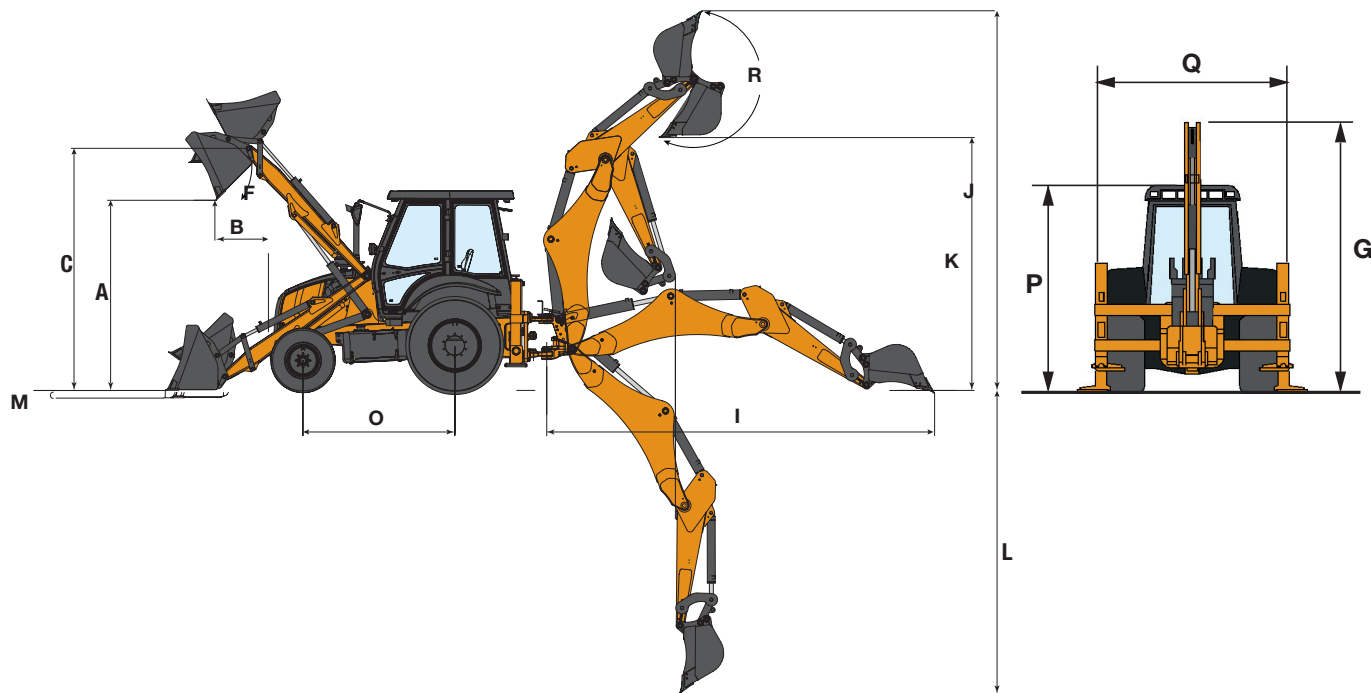
580V | 580SV | 590SV | 695SV

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

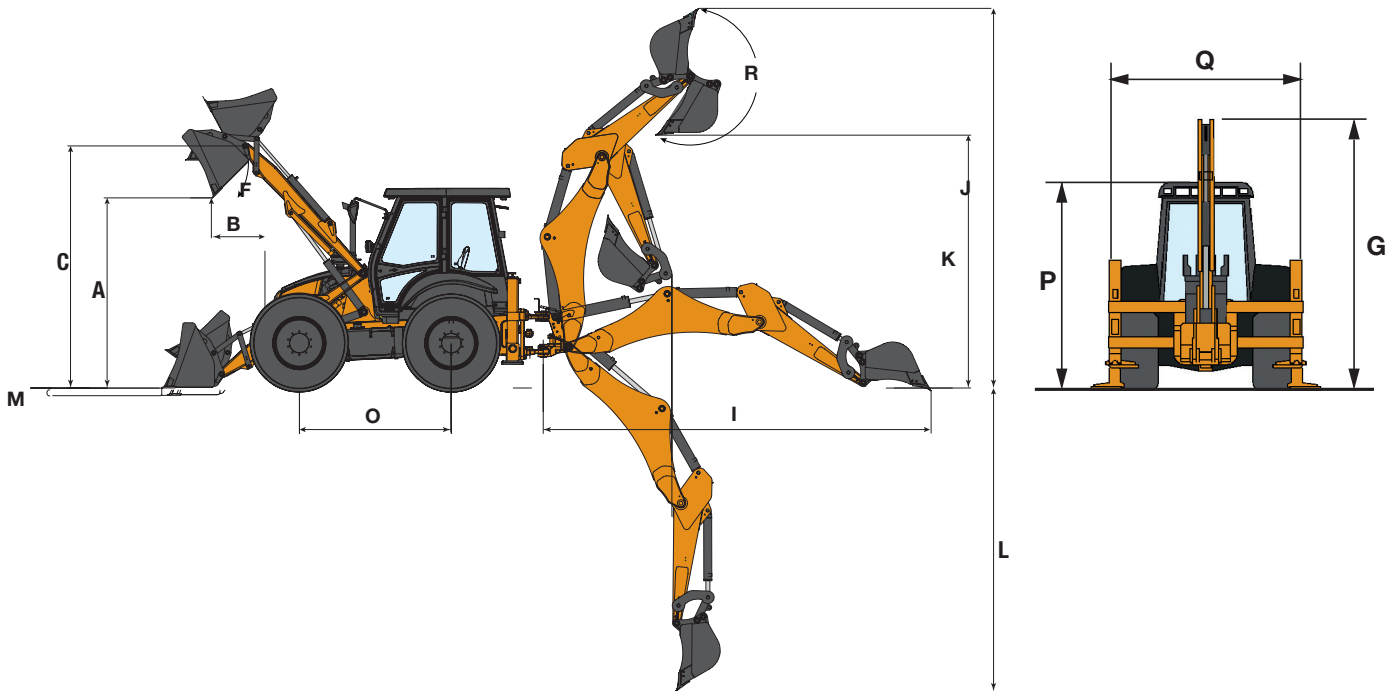
			BACKHOE SIZE 14 ft				BACKHOE SIZE 15 ft*			
			CASE DNA		IN-LINE CYLINDER		CASE DNA		IN-LINE CYLINDER	
BACKHOE			STD DIPPER	EXT. DIPPER	STD DIPPER	EXT. DIPPER	STD DIPPER	EXT. DIPPER	STD DIPPER	EXT. DIPPER
	Swinging angle	°	180							
I	Maximum reach from swing center	mm	5661	6671	5579	6313	5929	7085	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	2619
B	Dump Reach at full height	mm	799	587
C	Maximum height pin	mm	3478	
F	Dump angle	°	56	
M	Below ground level digging depth	mm	93	127
	Maximum lifting capacity @ ground level	kg	4770	4580
	Maximum lifting capacity @ max height	kg	3380	3075
	Loader breakout force	daN	3554	3536
	Bucket breakout force	daN	5411	5497

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
------------------------	----	-------------

Operating weight is subject to machine configuration and attachment options