

Case Construction Equipment Backhoe Loader

		580ST	590ST	695ST
<b>ENGINE</b>				
		Conform to 97/68/CETIER 4 I standards 4 cylinders turbocharged and aftercooled 3.4 liter	Conform to 97/68/CETIER 4 I standards 4 cylinders turbocharged and aftercooled 3.4 liter	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 by FPT	CASE 434T/E by FPT	CASE 434T/E by FPT
Engine Rated Net Power (ISO14396/ECE R120)		72 kW (97 hp) @ 2200 rpm	82 kW (110 hp) @ 2200 rpm	82 kW (110 hp) @ 2200 rpm
Engine Max Net Power (ISO14396/ECE R120)		83 kW (112 hp) @ 2000 rpm	89 kW (120 hp) @ 1900 rpm	89 kW (120 hp) @ 1900 rpm
Maximum torque (according ISO 14963)		453 Nm @ 1400 rpm	460 Nm @ 1400 rpm	460 Nm @ 1400 rpm
<b>TRANSMISSIONS</b>				
<b>Powershuttle</b>				
Forward speeds	Km/h	6 - 10 - 21 - 40	6 - 10 - 21 - 40	-
Reverse speeds	Km/h	7 - 12 - 25 - 40	7 - 12 - 25 - 40	-
<b>POWERSHIFT</b>				
Forward speeds	Km/h	6 - 10 - 22 - 39	6 - 10 - 22 - 39	6 - 10 - 22 - 39
Reverse speeds	Km/h	07 - 12 - 26	07 - 12 - 26	07 - 12 - 26
<b>HYDRAULICS</b>				
Type of pump		Gear or Variable displacement pump	Variable Displacement	Variable Displacement
Maximum flow		156 or 6 to 165 l/min @ 2200 rpm	6 to 165 l/min @ 2200 rpm	6 to 165 l/min @ 2200 rpm
Maximum pressure level	bars	205	205	205
<b>BATTERY</b>				
		12 Volts / 95 Ah, 900A (SAE)	12 Volts / 95 Ah, 900A (SAE)	12 Volts / 95 Ah, 900A (SAE)
<b>TURNING RADIUS</b>				
2 wheel steer mode, 4 wd engaged, without brakes	mm	External tire 4300 Bucket edge 5600	External tire 4300 Bucket edge 5600	External tire 7830 Bucket edge 8550
<b>AXLES, TIRES &amp; BRAKE</b>				
Brake		Power braking: brake with friction area of 2.472 cm <sup>2</sup>	Power braking: brake with friction area of 2.472 cm <sup>2</sup>	Power braking: brake with friction area of 2.472 cm <sup>2</sup>
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	18" front with 26" or 28" rear or 20" front with 30" rear	26" front with 26" rear 28" front with 28" rear
Front axle: oscillation of +/- 11°		Standard	Standard	Standard
Rear axle		Differential lock	Differential lock	Limited-slip differential (front and rear)
<b>CAPACITIES</b>				
Fuel tank	l	156	156	132
Cooling system	l	24	24	24
Hydraulic oil	l	155	155	135

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Gear box oil: Power Shuttle / Powershift	l	18.5 / 20.8	18.5 / 20.8	20.8
Front axle: 4 WD	l	8.6	8.6	10.5
Final Drives (Front / Rear)	l	1 (front)	1 (front)	1.3 +1.3
Rear axle	l	15.5	17	11
<b>EMISSIONS</b>				
CO2 emission	g/kWh	890	890	890
NOx emission	g/kWh	3.03	3.03	3.03
HC emission	g/kWh	0.1	0.1	0.1
CO emission	g/kWh	0.05	0.05	0.05
PM emission	g/kWh	0.01	0.01	0.01
NOx + HCNM emission	g/kWh	4.5	3.7	3.7
<b>NOISE</b>				
Internal	dB(A)	77	77	77
External	dB(A)	102	103	103
<b>VIBRATION LEVELS</b>				
	m/s <sup>2</sup>	Upper limbs 2.5 m/s <sup>2</sup> Abdomen 0.5 m/s <sup>2</sup>	Upper limbs 2.5 m/s <sup>2</sup> Abdomen 0.5 m/s <sup>2</sup>	Upper limbs 2.5 m/s <sup>2</sup> Abdomen 0.5 m/s <sup>2</sup>

GENERAL DIMENSIONS		580ST	590ST	695ST
		<p>4WD Front tires: 12,5/80 Rear tires: 18,4-26-R4 Ballast: Heavy for HED, light for STD dipper Loader bucket: 1m3 Backhoe bucket: 610 mm (24IN) NO HQC on TB53 dipper</p>	<p>4WD Front tires: 16/70 20 Rear tires: 16.9-30 Ballast: Heavy for HED, light for STD dipper Loader bucket: 1.15 m3 6x1 Bhoe bucket: 610 mm (24IN) NO HQC on TB53 dipper</p>	<p>4WD / 4 WS Front and rear tires: 16.9-28 Ballast: Heavy for HED, light for STD dipper Loader bucket: 1.15 m3 6x1 Bhoe bucket: 610 mm (24IN) NO HQC on TB53 dipper</p>
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		Tool carrier		Straight loader		Tool carrier		Tool carrier	
<b>LOADER</b>		<b>Std</b>	<b>4 in 1</b>	<b>Std</b>	<b>4 in 1</b>	<b>Std</b>	<b>4 in 1</b>	<b>Std</b>	<b>4 in 1</b>
Maximum dump height under bucket at 45°	mm	2685	2693	2752	2689	2685	2693	2750	2750
Maximum reach with bucket at 45°	mm	830	813	808	750	830	813	750	720
Maximum height pin	mm	3460	3458	3490	3490	3460	3458	3520	3520
Maximum bucket height	mm	4250	4405	4333	4467	4250	4405	4350	4460
Horizontal bucket digging depth	mm	120	125	120	120	120	125	85	90
Bucket angle (on ground)	°	43	43	36	36	43	43	45	45
Bucket angle (in the transport position)	°	46	46	45	45	46	46	46	46
Lift capacity (at bucket load centre of gravity)	kg	4830	4610	4970	4745	4830	4610	4770	4580
Maximum height lifting capacity	kg	3450	3195	3550	3290	3450	3195	3550	3075
Lift force (boom cylinders)	daN	4050	4070	3625	3645	4050	4070	7400	7400
Breakout force (bucket cylinders)	daN	6545	6650	6340	6440	6545	6650	5520	5500
		"CASE DNA" backhoe		"In-Line geometry" backhoe		"CASE DNA" backhoe		"CASE DNA" backhoe	
<b>BACKHOE</b>		<b>Ext.</b>	<b>Std/Retr.</b>	<b>Ext.</b>	<b>Std/Retr.</b>	<b>Ext.</b>	<b>Std/Retr.</b>	<b>Ext.</b>	<b>Std/Retr.</b>
Swinging angle	°	180	180	180	180	180	180	180	180
Maximum digging depth	mm	5435	4369	5441	4406	5887	4670	5810	4595
Maximum reach from swing centre	mm	6238	5229	6647	5697	6655	5497	6645	5185
Maximum reach at rear axle	mm	7563	6554	7979	7036	7960	6510	7960	6510
Maximum operating height	mm	6789	5875	6150	5546	7141	6111	7215	6192
Load height	mm	4834	3923	4467	3863	5196	4166	5271	4249
Central offset	mm	620	620	620	620	0.62	0.62	0.62	0.62
Lift capacity at max outreach	kg	1049	1393/1296	900	1195/1112	1097	1472/1369	1097	1472/1369
Breakout force (bucket)	daN	5323	5323	5520	5520	6111	6111	6111	6111
Breakout force (dipperstick)	daN	2441	3352	2870	4100	2488	3482	2488	3482
Bucket rotation	°	200/195	200/195	200	200	198/195 hyd. QC	198/195 hyd. QC	198/195 hyd. QC	198/195 hyd. QC
		Tool carrier		Straight loader					
<b>DIMENSIONS</b>		<b>CASE DNA</b>	<b>In-Line</b>	<b>CASE DNA</b>	<b>In-Line</b>				
Boom height (transport position)	mm	3495	3930	3495	3930	3682		3647	
Overall length - with standard bucket	mm	5790	5675	5790	5745	5560		5499	
Wheelbase	mm	2175	2175	2175	2175	2175		2200	
Cab height	mm	2950	2950	2950	2950	2950		2900	
Overall width - with standard bucket	mm	2430	2430	2430	2430	2430		2480	
Width outside tires	mm	2230	2230	2230	2230	2230		-	
Stabilizer leveling compensation angle	°	14	14	14	14	14		14	

