

# **FASTER, FUEL EFFICIENT**

### A SAFE INVESTMENT FOR THE TOUGHEST JOBS

For the toughest jobs, reliability comes with a perfect control of the oil temperature in the axles.

- For soft soil where higher grip control and higher resistance are needed:
  - **Effective grip control** with the differential lock on the front axle. It can be activated automatically or manually controlled with the left foot.



### **LESS MAINTENANCE, LOWER COSTS**

- Lower costs because SCR uses fewer components:
   No particulate filter
   No extra fans for additional cooling
   No specific oil needed
- Longer maintenance intervals: because the engine oil is not contaminated with unfiltered air
- No break down: SCR offers the highest fuel compatibility

### **PREMIUM ENGINE TECHNOLOGY: SCR**

**SCR (Selective Catalytic Reduction)** is a well-proven reliable solution. Having been in use in Europe since 2004 on trucks, the AdBlue<sup>TM</sup> DEF is can easily be found almost anywhere.

- More productivity with 10% fuel savings because SCR allows optimized combustion temperature
- No loss of power and fuel because no extra cooling is needed
- Cost savings, as SCR engines can be used with "red" fuel



# **MORE COMFORT FOR MORE PRODUCTIVITY**



### **Access fit for a King**

Getting in the cab is easy; the wide steps and the handle make you feel safe, while the wide door provides unobstructed access.

## **Outstanding visibility**

You'll feel more confident and work faster with the great all round visibility.

The curved rear hood shape is very low because the **SCR technology** doesn't require additional fans for cooling.

# All controls at your fingertips

Greater focus on the job and less stress with fewer arm moves thanks to the ergonomic positioning of the control panel under your right hand.

### **Feel confident with ROPS**

All our wheel loaders' cab are reinforced and guarantee the operator protection against roll over (ROPS certified).

### **Great storage space**

The overhead radio placement and the storage make the Case cab even more convenient for you







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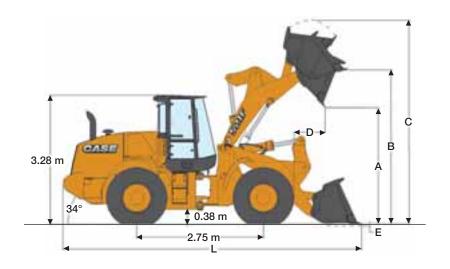


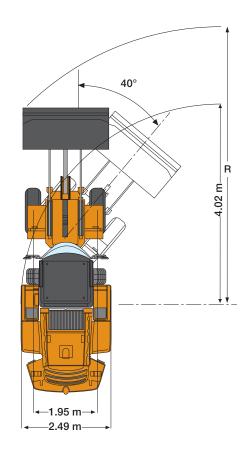


## **THE DNA OF YOUR 521F**

#### **Productivity** (50 meter distance cycle) **Hydraulics** Considering density at 1.8 t/m<sup>3</sup> and 100% fill factor Valves \_\_\_\_\_ Rexroth Closed-center, Load sensing hydraulic system. 52 cycles/hour including 5 minute break \_\_\_\_\_ 52 loading cycles/h Main valve with 3 sections with 2.1 m³ bucket\_\_\_\_\_ 110 m³/h or 180 t/h of material Steering \_\_\_\_\_The steering orbitrol hydraulically is actuated with priority valve Engine Type of pump \_\_\_ Variable displacement pump (134 l/min @250 bar) Make \_\_\_\_\_\_ FPT engine F4HFE413J compliant with Automatic hydraulic functions Number of cylinders 4 cylinders - 4.5 liters - common rail Max power SAE J1995 106kW / 142 hp @1800 rpm Maximum torque SAE J1349 608 Nm @1600 rpm Nox emission - Bucket Return-to-dia - Boom Return-to-travel - Auto.lift (to adjustableheight) Control type\_\_\_\_\_ Pilot control with single joystick or two levers Nox emission\_\_\_\_\_\_2.88 g/kWh **Capacities** HC emission \_\_\_\_\_\_ 0.08 g/kWh Fuel tank \_\_\_\_\_\_ 189 usable liters CO emission \_\_\_\_\_ 2.64 g/kWh PM emission 0.013 g/kWh AdBlue tank\_\_\_\_\_\_41.3 usable liters Cooling system \_\_\_\_\_22 liters **Transmission** Engine oil Hydraulic oil \_\_\_\_\_ Tank: 57 liters, total system: 114 liters Transmission oil \_\_\_\_\_ 19 liters All-wheel drive with planetary axles Kick-down function 4-speed torque converter Cab 4-speed auto Powershift ZF type 4WG130, switchable to manual For you safety the cab complies to: protection against falling objects (FOPS)\_\_\_\_\_ISO EN3449 forward speeds: 6-11-22-36 Km/h reverse speeds: 6.4-12-23 Km/h protection against roll over (ROPS) \_\_\_\_\_ISO EN13510 Adjustable transmission declutch **Noise and vibration** Axles and differential Interior noise \_\_\_\_\_\_ 72 dB(A) according to ISO6595/6396/3744 Exterior noise \_\_\_\_\_\_ 72 dB(A) at 15 meters as per SAE J88 SEP80 - for outstanding traction with 50% longer maintenance intervals and 30% less tire wear: 105 dB(A) according to ISO6595/6396/3744 100% auto-lock differential on front axle and open rear axles Switchable reverse gear alarm Vibrations \_\_\_\_\_ air-cushioned seat MSG 95A/732 Front and rear ZF heavy duty axles with open differential type MT-L3065-II - for limited investment and good traction: Electrical 29% Limited slip differential on front and rear axles 24 V. Batteries 2 x 12V. front and rear axle ZF type MT-L3065-II Alternator \_\_\_\_\_ 70 A Tires Tires \_\_\_\_\_\_ 17.5R25 Brakes Service brake Maintenance free, self-adjusting wet 4-wheel disc brakes 0.31 m²/hub Parking brake \_\_\_\_\_Disc brake on transmission activated from the cab cluster Area \_\_\_\_\_\_ 58 cm<sup>2</sup>

# **521F Specifications**





			<b>Z-bar</b>					Long	XT			
	521F		2.1 m³ bucket		1.7 m³ bucket with quick coupler		1.9 m³ bucket		1.7 m³ bucket with quick coupler		1.7 m³ bucket with quick coupler	
		Bucket with bolt on :	edge	teeth + segment	edge	teeth	edge	teeth	edge	teeth	edge	teeth
	Bucket volume (heaped)	$\mathbf{m}^3$	2.07	2.07	1.70	1.70	1.88	1.84	1.70	1.70	1.70	1.70
	Bucket Payload	kg	3478	3475	3535	3584	2977	2975	2947	2994	3249	3296
	Maximum material density	ton/m³	1.7	1.7	2.1	2.1	1.6	1.6	1.7	1.8	1.9	1.9
	Bucket outside width	m	2.49	2.54	2.44	2.44	2.49	2.54	2.44	2.44	2.44	2.44
	Bucket weight	kg	857	877	1137	1065	821	842	1137	1065	1117	1045
	Tipping load - straight	kg	8150	8145	8317	8415	7011	7010	6985	7080	7634	7728
	Tipping load - Articulated at 40°	kg	6957	6949	7069	7167	5955	5950	5894	5989	6497	6591
	Breakout force	kg	7591	7781	7104	6959	8094	8366	7077	6933	8288	8124
	Lift capacity from ground	kg	8889	8979	10620	10700	8830	8827	8689	8773	10236	10365
Α-	Dump height at 45° at full height	m	2.62	2.55	2.58	2.56	3.04	2.97	2.96	2.94	2.5	2.49
В-	Hinge pin height	m	3.61	3.61	3.61	3.61	3.99	3.99	3.99	3.99	3.75	3.75
C -	Overall height	m	4.75	4.75	4.77	4.77	5.06	5.06	5.14	5.14	4.94	4.94
D -	Bucket reach at full height	m	1.12	1.19	1.18	1.22	1.05	1.12	1.16	1.19	1.23	1.27
Е-	Dig depth	cm	8	8	7	5	11	11	10	9	19	18
L-	Overall length with bucket on the ground	m	6.83	6.94	6.90	6.92	7.11	7.21	7.24	7.27	7.05	7.07
R -	Turning radius to front corner of the bucket	m	5.5	5.6	5.5	5.5	5.7	5.7	5.6	5.7	5.5	5.6
	Bucket rollback in carry position	0	43	43	48	48	44	44	50	50	52	52
	Dump angle at full height	0	55	55	50	50	51	51	46	46	62	62
	Machine operating weight	kg	10448	10468	10728	10656	10582	10602	10897	10825	11189	11117

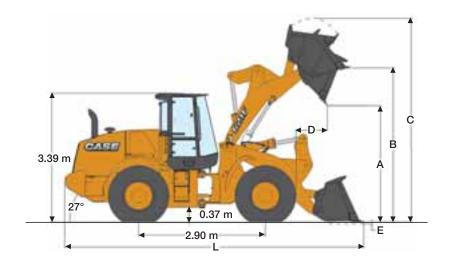
# **HE DNA OF YOUR 621F**

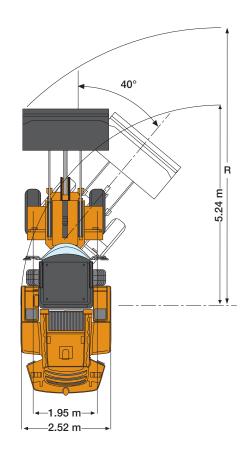
#### **Productivity** (50 meter distance cycle) **Hydraulics** Considering density at 1.8 t/m³ and 100% fill factor Valves \_\_\_\_\_ Rexroth Closed-center, Load sensing hydraulic system. 52 cycles/hour including 5 minute break \_\_\_\_\_ 52 loading cycles/h Main valve with 3 sections with 2.4 m³ bucket\_\_\_\_\_ 125 m³/h or 227 t/h of material Steering \_\_\_\_\_The steering orbitrol hydraulically is actuated with priority valve priority valve Type of pump \_\_\_\_\_ Tandem Variable displacement pump Engine Make \_\_\_\_\_\_FPT engine F4HFE613Z compliant with (171 l/min @250 bar) Number of cylinders 6 cylinders - 6.7 liters - common rail Max power SAE J1995 128 kW / 172 hp @1800 rpm Maximum torque SAE J1349 730 Nm @1600 rpm Nox emission Automatic hydraulic functions - Bucket Return-to-dig - Boom Return-to-travel - Auto.lift (to adjustableheight) Control type\_\_\_\_\_ Pilot control with single joystick or two levers Nox emission\_\_\_\_\_\_ 3.01 g/kWh HC emission \_\_\_\_\_\_ 0.03 g/kWh **Capacities** CO emission \_\_\_\_\_ 0.42 g/kWh Fuel tank 248 usable liters AdBlue tank 41.3 usable liters Cooling system 26.8 liters PM emission 0.009 g/kWh **Transmission** Engine oil \_\_\_\_\_\_\_ 13 liters Hydraulic oil \_\_\_\_\_\_ Tank: 91 liters, total system: 148 liters Transmission oil \_\_\_\_\_\_ 27 liters All-wheel drive with planetary axles 4-speed auto Powershift ZF type 02G07135, switchable to manual Adjustable transmission declutch Cab forward speeds: 7-13-24-39 Km/h For you safety the cab complies to: reverse speeds: 7-14-25 Km/h protection against falling objects (FOPS)\_\_\_\_\_ISO EN3449 Kick-down function protection against roll over (ROPS) \_\_\_\_\_ISO EN13510 Air flow \_\_\_\_\_ 8.5 m<sup>3</sup> / min spread through 17 air vents Axles and differential - for outstanding traction with 50% longer maintenance Noise and vibration intervals and 30% less tire wear: Driving noise in dB (A) 82 to SAE J88 @ 15 meters 100% auto-lock differential on front axle and open rear axles Interior noise \_\_\_\_\_\_ 71 dB(A) as per ISO 6595/6396/3744 Exterior noise \_\_\_\_\_ 72 dB(A) at 15 meters as per SAE J88 SEP80 Front and rear ZF heavy duty axles with open differential and 100% front lock 105dB (A) according to ISO 6595/6396/3744 Type MT-L3075-II - dynamic load: 12.700kg Switchable reverse gear alarm - for limited investment and good traction: Vibrations \_\_\_\_\_ air-cushioned seat MSG 95A/732 29% Limited slip differential on front and rear axles average 1.4 m/s 2 as per ISO/TR 25398:2006 Front heavy duty axle type MT-L3075-II - dynamic load: 12.700kg Rear oscillating axle ZF type MT-3065-II rear - dynamic load **Electrical** 10.700kg 24V. Batteries 2 x 12V. **Tires** Alternator \_\_\_\_\_ 20.5R25 Tires Brakes Service brake Maintenance free, self-adjusting wet 4-wheel disc brakes

0.39 m<sup>2</sup>/hub

Parking brake Disc brake on transmission activated from the 

# **621F Specifications**





### **LOADER SPEED:**

Raising time (loaded)	6.3 sec			
Dump time (loaded)	1.2 sec			
Lowering time (empty, power down)	4.4 sec			
Lowering time (empty, float down)	4.4 sec			

		<b>Z-bar</b>				Long Reach				XT	
621F		2.4 m³ bucket		2.0 m³ bucket with quick coupler		2.2 m³ bucket		2.0 m³ bucket with quick coupler		2.0 m³ bucket with quick coupler	
		edge	teeth	edge	teeth	edge	teeth	edge	teeth	edge	teeth
Bucket volume (heaped)	$\mathbf{m}^3$	2.38	2.36	2.00	2.00	2.18	2.14	2.00	2.00	2.00	2.00
Bucket Payload	kg	4371	4367	4519	4570	3707	3704	3708	3757	4092	4157
Maximum material density	ton/m³	1.84	1.85	2.26	2.29	1.70	1.73	1.85	1.88	2.05	2.08
Bucket outside width	m	2.49	2.54	2.49	2.49	2.49	2.54	2.49	2.49	2.49	2.49
Bucket weight	kg	941	968	1242	1168	890	916	1242	1168	1242	1168
Tipping load - straight	kg	9964	9962	10325	10426	8488	8485	8527	8624	9360	9489
Tipping load - Articulated at 40°	kg	8741	8735	9038	9139	7414	7407	7416	7514	8185	8314
Breakout force	kg	9819	10097	9472	9272	11233	11591	9503	9310	10595	10395
Lift capacity from ground	kg	9857	9956	13068	13175	11411	11410	11348	11436	14642	14851
A - Dump height at 45° at full height	m	2.75	2.68	2.71	2.69	3.24	3.17	3.19	3.18	2.65	2.63
B - Hinge pin height	m	3.83	3.83	3.83	3.83	4.24	4.24	4.24	4.24	3.96	3.96
C - Overall height	m	5.04	5.04	5.05	5.05	5.45	5.45	5.46	5.46	5.23	5.23
D - Bucket reach at full height	m	1.08	1.16	1.12	1.16	1.01	1.01	1.22	1.25	1.23	1.26
E - Dig depth	cm	9	9	9	8	9	9	10	9	18	17
L - Overall length with bucket on the ground	m	7.47	7.57	7.53	7.56	7.75	7.86	7.93	7.97	7.78	7.81
Overall length without bucket	m	6.28	6.28	6.28	6.28	6.69	6.69	6.69	6.69	6.20	6.20
R - Turning radius to front corner of the bucket	m	5.7	5.8	5.7	5.7	5.9	6.0	5.9	5.9	5.8	5.8
Bucket rollback in carry position	0	44	44	49	49	46	46	51	51	58	58
Dump angle at full height	0	51	51	46	46	46	46	41	41	55	55
Machine operating weight	kg	12191	12218	12492	12418	12336	12362	12688	12614	12569	12459



Worldwide Case Construction Equipment Contact Information

### **EUROPE:**

via Plava, 80 10135 TORINO - ITALIA

### AFRICA/MIDDLE EAST/CIS:

Riva Paradiso 14 6902 Paradiso - SWITZERLAND

### NORTH AMERICA/MEXICO:

700 State Street

Racine, WI 53404 U.S.A.

### LATIN AMERICA:

Av. General David Sarnoff 2237 32210 - 900 Contagem - MG Belo Horizonte BRAZIL

### **ASIA PACIFIC:**

Unit 1 - 1 Foundation Place - Prospect New South Wales - 2148 AUSTRALIA

No. 29, Industrial Premises, No. 376. De Bao Road, Waigaoqiao Ftz, Pudong, SHANGHAI, 200131, P.R.C.

## **CASE Construction Equipment** CNH UK Ltd

Unit 4, Hayfield Lane Business Park, Field Lane, Auckley, Doncaster,

Tel. 00800-2273-7373 Fax +44 1302 802829





The call is free from a land line. Check in advance with your Mobile Operator if you will be charged.

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 reserves the right to modify machine specifications without incurring any obligation relating to such changes.

Conforms to directive 98/37/CE



