

F SERIES WHEEL LOADERS

521F TIER 2



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.
- **No overheating** because the differential lock does not slip
- Higher resistance with heavy duty front and rear axles.
 For a limited investment, standard axles with limited slip differential are also available and proven to be reliable.
- For even more reliability, we have invented the COOLING BOX that keeps constant the cooling fluids temperature.



EASIER MAINTENANCE, LOWER COSTS

- A single piece electronically-operated engine hood lifts clear of the engine for service and maintenance
- There are remote fluids drain taps for the engine oil, coolant and hydraulic oil.

PREMIUM ENGINE TECHNOLOGY

This electronically-controlled 4.7 liter engines offers the operator a choice of four power and torque ratings, MAX, STANDARD, ECONOMY or AUTOMATIC mode. This boosts productivity and reduce fuel consumption.



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, reducing the risk of accidents and improving safety on side.

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



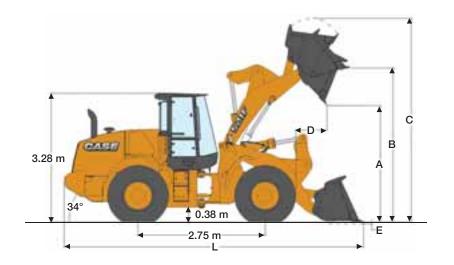


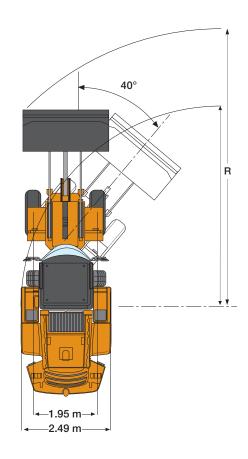


THE DNA OF YOUR 521F

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 2.1 m³ bucket 110 m³/h or 198 t/h of material	SteeringThe steering orbitrol hydraulically is actuated with priority valve
Engine	Type of pump Variable displacement pump (134 l/min @250 bar)
Make FPT engine F4HFA413A compliant with	Automatic hydraulic functions
EPA Tier2 or EU Stage II regulations 4 cylinders - 4,7 liters - common rail	- Bucket Return-to-dig
Number of cylinders 4 cylinders - 4,7 liters - common rail	 Boom Return-to-travel Autolift (adjustable height)
Max power SAE J1995 106kW / 142 hp @1800 rpm Maximum torque SAE J995 608 Nm @1600 rpm	Control type Pilot control with single joystick or two levers
waxiinaini torque SAL 3993 600 Mili @ 1000 Ipini	
Transmission	Capacities
All-wheel drive with planetary axles	Fuel tank 189 usable liters
(ick-down function	Cooling system22 liters
4-speed torque converter	Engine oil 12 liters Hydraulic oil Tank: 57 liters, total system: 114 liters
4-speed auto Powershift ZF type 4WG130, switchable to manual shifting	Transmission oil19 liters
forward speeds: 6-11-22-36 Km/h	
everse speeds: 6.4-12-23 Km/h	Cab
Adjustable transmission declutch	Cab complies to:
Axles and differential	protection against falling objects (FOPS)ISO EN3449
	protection against roll over (ROPS)ISO EN13510 Air flow 8.5 m³ / min spread through 17 air vents
for outstanding traction with 50% longer maintenance ntervals and 30% less tire wear:	
100% auto-lock differential on front axle and open rear axles	Noise and vibration
Front and rear ZF heavy duty axles with open differential	Interior noise 72 dB(A) according to ISO6595/6396/3744
ype MT-L3065-II	Exterior noise 72 dB(A) at 15 meters as per SAE J88 SEP80
· for limited investment and good traction: 29% Limited slip differential on front and rear axles	103 dB(A) according to IS06595/6396/3744 Reverse gear alarm
ront and rear axle ZF type MT-L3065-II	Vibrations air-cushioned seat MSG 95A/732
••	
Tires	Electrical
Tires 17,5R25	24 V. Batteries 2 x 12V.
Brakes	Alternator 70 A
Service brake Maintenance free, self-adjusting wet 4-wheel disc brakes	
Area 0.31 m²/hub	
Parking brakeDisc brake on transmission activated from the	
cab cluster	
Λ rea 58 cm 2	

521F Specifications





LOADER SPEED:

Raising time (loaded)	5.4 sec
Dump time (loaded)	1.2 sec
Lowering time (empty, power down)	3.9 sec
Lowering time (empty, float down)	3.9 sec

		Z-bar				Long Reach				TC	
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)	m³	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
A - 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
B - 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
E - 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		43°	43°	48°	48°	44°	44°	50°	50°	52°	52°
Dump angle at full height		55°	55°	50°	50°	51°	51°	46°	46°	62°	62°
Machine operating weight	kg	10448	10468	10728	10656	10582	10602	10897	10825	11189	11117

Note: bucket specification can slightly differ according to plant source. More bucket choice is available, please contact your local dealer.



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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 $\,\,$



