G-SERIES WHEEL LOADERS 1021G I 1121G STAGE IV





MOVING MOUNTAINS

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EXPERTS FOR THE REAL WORLD
SINCE 1842



EXPERTS FOR THE REAL WORLD

SINCE 1842

- 1842 CASE is founded.
- 1869 The first CASE portable steam engine road construction is born!
- 1958 The first CASE 4-WD wheel loader, the W9, is introduced.
- 1969 CASE begins skid steer loader production.
- 1998 Ride control on loader backhoes and skid steer loaders: another CASE first. From 1998 CASE Wheel Loaders run FPT engines, leaders in industrial engine technology.
- 2001 The exclusive mid-mounted Cooling Cube in CASE wheel loaders means clean engine, reliability and massive bucket payloads.

HERITAGE A TRADITION OF INDUSTRY FIRSTS



- 2011 CASE is the first in the industry to launch a 5-speed lock up transmission
- 2012 CASE completes its EU Stage IIIB wheel loader range: a further step forward in emissions reduction and once again the first in the industry.
- **2015** CASE wheel loaders achieve EU Stage IV emissions standards while further increasing fuel efficiency without a DPF
- 2017 New G series wheel loaders are launched
- 2019 CASE begins introducing Stage V models in Europe, still without traditional DPF. CASE shows, for the first time ever in the industry, the concept of a Compressed Natural Gas (CNG) wheel loader: ProjectTETRA.







HIGH EFFICIENCY

With no EGR or particulate filter

The engine was developed and manufactured by our award winning sister company FPT Industrial, which produces over 500,000 engines per year and powers world record winners.

The in-house design leverages advanced technologies developed for commercial vehicles and agriculture, and introduces specific tailored solutions for off-road applications.

The Cursor 9, with 6 in-line cylinders and an 8.7 litre displacement, is designed to deliver both fuel efficiency and reliability with plenty of power available.

- The air intake flow is increased by a turbocharger with air-to-air cooling.
- The multiple injection delivers best-in-class high torque performance at low rpms.
- No EGR valve is used: 100% fresh air is used for combustion, there is no DPF, and no extra cooling system is needed.

Our engine technology is so reliable that it is trusted by the French Sea Rescue service for their boats: what better guarantee could you wish for?



ENGINE KEEP IT SIMPLE





LOW EMISSIONS

Without particulate filter

With HI-eSCR after-treatment, FPT technology meets EU Stage IV emissions standards, a big step towards cleaner air. With this system, fewer components are involved, engine oil quality is not compromised and there is no need for a particulate filter (DPF) or additional cooling. This allows for a very compact engine compartment, resulting in excellent rear visibility. In addition, the maximum temperature reached by HI-eSCR is 500°C, 200°C below the maximum temperature of a particulate filter.









1996: EU Stage I

2011: EU Stage IIIB

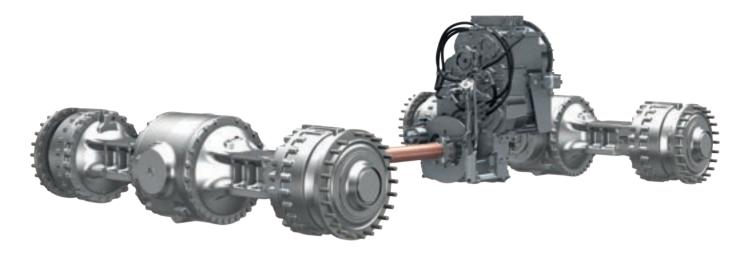
2015: EU Stage IV



It would take six months for a Stage IV wheel loader with Hi-eSCR technology to produce the particulate and NOx emissions that a Stage I wheel loader would produce in one day.

G-SERIES

WHEEL LOADERS





HIGH RELIABILITY

Heavy-duty axles

The heavy-duty axles are tougher, bigger and easier to service thanks to the 3-piece housing design. Wet multiple disc brakes, made of resistant sintered bronze, are located in each wheel hub. Our heavy-duty axles are engineered to support L5 or solid tyres for very abrasive environments.

Metal face seals positioned between axle and hub are resistant to water and fine debris at low temperatures. The heavy-duty axles on 1021G and 1121G are also available with optional oil cooling.

The heavy-duty axles deliver added value resulting from:

- 20-30% lower tyre wear because of no slippage between the wheels.
- reduced fuel consumption because there is no friction in the differential.
- reduced downtime for maintenance because of fewer moving components with open differentials.





AXLES AND DIFFERENTIALS

WHEN EFFICIENCY MEETS PRODUCTIVITY





COST SAVINGS

100% auto-lock differential

With open differentials, no friction is applied to reduce wheel slip. As a result, there is less tyre wear and lower energy losses. With the 100% auto-lock, 100% of the available torque is transmitted to the wheels to provide maximum tractive effort.



Loading on soft ground

With limited slip differential:



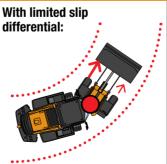
- 70% tractive effort transmitted to the wheels
- Automatic engagement

With 100% diff lock (optional):



- 100% tractive effort transmitted to the wheels
- Automatic or manual engagement

Taking a curve on solid ground



Automatic slip limited engagement

- Internal losses and wind up
- Increased tyre wear



No engagement (open diff)

- No energy loss
- Less tyre wear

G-SERIES

WHEEL LOADERS

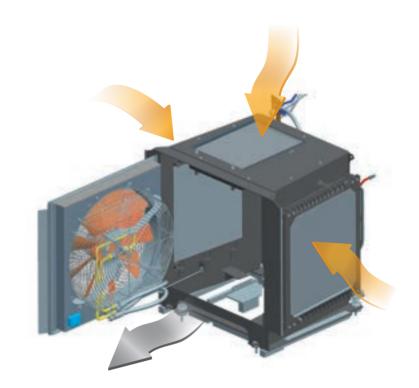


HIGH RELIABILITY

CASE cooling cube

The unique design of the CASE cooling cube, with five radiators mounted to form a cube instead of overlapping, ensures a constant flow of fresh and clean air from the sides and from the top to maintain constant fluid temperatures.

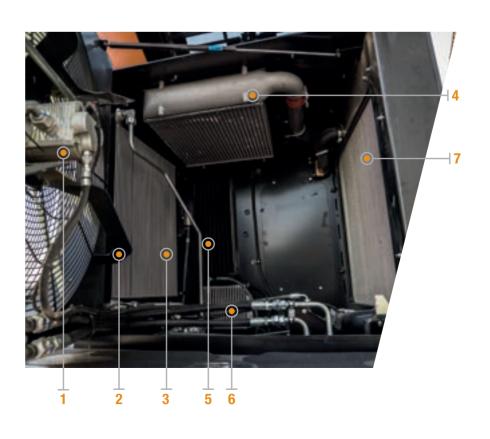
The cube structure provides easy access to radiators for a more effective cleaning and improved serviceability: additional cleaning can also be easily done manually, with separate access to each radiator.





CASE COOLING CUBE DETAILS

- 1. Variable speed reversible fan
- 2. Hydraulic oil cooler
- 3. Transmission oil cooler
- 4. Turbo air intercooler
- 5. A/C condensator
- 6. Diesel radiator
- 7. Engine radiator



CASE COOLING CUBE

ENGINE BREATHES DUST-FREE AIR



LESS MAINTENANCE

CASE cooling cube

- In dusty environments like sand pits or quarries the cleaning of the radiators can be very time consuming: this is not the case with the cooling cube.
- The constant temperature of the fluid maximises its cooling performance and protects the axles, resulting in greater reliability. This is further enhanced by the easy maintenance and longer service intervals.





HIGH RELIABILITY

Air filter dust ejector

All 1021G and 1121G wheel loaders are fitted with an air filter dust ejector: the low pressure in the exhaust is used as a vacuum cleaner to remove the dust stuck in the air intake filter. This system is designed to improve your machine performance in terms of reliability, especially in dusty environments.







NEW CAB

THE ULTIMATE COMFORT





Front visibility

• The one-piece design windshield provides an unobstructed panoramic view.

Rear Visibility

• Multiple rear view convex mirrors, a rear view display, the slim engine hood and rear grid defroster ensure optimum rear visibility.

Night Visibility

• LED lighting is so effective that you won't see any difference between night and day work.

OPERATOR PROTECTION

Noise and vibration

- The new active suspension premium seat features electronic auto-weight adjustment, a dynamic dampening system and a low frequency shock absorption system. Combined with the suspended cab mount this reduces the noise and vibrations the operator is subjected to.
- . Noise in the cab is not only low (69 dB): it also sounds great.

Cab air

• Primary and recirculation filtration efficiency now reaches 99% of particles with improved dust capacity and longer replacement intervals. When working in particularly tough conditions, additional active carbon filters can be fitted.

Cab access

Access is easier and safer thanks to the optimised handrails and the pull-type handle.

O . .

OPERATING COMFORT

Seat and controls

- The seat mounted armrest gives more accurate control and comfort. It features 3rd/4th function proportional control integrated in the joystick, as well as the option of replacing the joystick with two or three (for the 3rd function) fingertip levers.
- New joystick steering: the operator handles two equally sized joysticks, just like on an excavator, which reduces fatigue. It features speed proportional sensitivity and slow/medium/fast settings.
- The suspended seat includes seat heaters which warm it up in the cold winter mornings.

User interface

- The premium control interface with 8" color display offers intuitive navigation through the machine's information and settings.
- The hands free calling kit features an integrated microphone connected to the radio via Bluetooth.

Life on board

- The CASE electrically powered cool box keeps your lunch fresh all day long.
- Multiple storage areas enable you to store documents, beverages and personal objects conveniently.

MAINTENANCE

HAS NEVER BEEN SO EASY AND FAST



SAFE AND EASY MAINTENANCE

Ground level serviceability

One-piece electric hood

The easy-to-open electric hood provide fast access to the service points. Jumper cables are available as standard for jump starting the engine if the battery is low.

Easy daily checks

You can do a fast visual check of the fluids from ground level.

Greater safety

All the main service points and filters are easily accessible at ground level, so you can carry out your daily maintenance safely and efficiently.



Fuel filter and engine oil service points are easily accessible from both sides while the others filters are behind the right stairs



The air filter is easy to remove and the dust is aspirated and ejected in the exhaust



Remote jump start



OPTIMISED FRONT LOADER DESIGN AND PRODUCTIVITY





MORE PRODUCTIVITY

Linkage and bucket design

- The combined action of the higher engine power, the linkage design and the short bottom bucket provides in a massive 244 kN breakout force in the pile
- The new loader design with high roll back increases the bucket capacity by about 10%. It also significantly improves material retention in carry phases.
- The superior dump angle allows for easy bucket shaking even with sticky material.

The bucket fills faster with the greater thrust and breakout force. The greater bucket capacity and better material retention mean a more effective use of your resources!

MAIN REASONS

TO CHOOSE THE G-SERIES



OPERATOR PROTECTION

- Viscous cab suspension
- Pressurized cab with high efficiency filtration
- Low noise (69 dB) and vibration



BEST-IN-CLASS VISIBILITY

 One-piece design windshield, highefficiency lighting, convex rear mirrors and rear view camera provide optimum visibility 24 hours a day



FAST CYCLES

- Best-in-class breakout force
- Simultaneous lift and tilt at constant lift speed
- Faster bucket lifting allows for faster truck loading







TELEMATICS

ANTICIPATION AND CONTROL



THE SCIENCE BIT

The CASE SiteWatch telematics system uses a high-tech control unit mounted on each machine to collate information from that machine and from GPS satellites. This data is then sent wirelessly through the mobile communication networks to the CASE Telematics Web Portal.

SiteWatch: centralised fleet control benefits at your fingertips

Measure your true asset availability and optimise it

- Eliminate the "phantom fleet": SiteWatch allows to identify spare units or under loaded machines on each site.
- Become able to reallocate units where they are more needed.
- Forward maintenance planning is easier since the actualised working hours are always available.
- Extend the benefits of SiteWatch to the rest of your fleet: SiteWatch can be installed on the units of other brands as well.

Challenge your Total Cost of Ownership!

- Being able to compare the fuel usage of different machine types will allow you choose the right equipment.
- Save on transport costs with planned and grouped maintenance tasks.
- Peace of mind, optimised uptime and lower repair costs: with preventive maintenance you can for example be alerted if the engine needs to be serviced and avoid a disruptive breakdown.
- Be able to compare your asset Return on Investment on different sites.
- Your equipment is used only during working hours. You can set up alerts so that you know if it is in use during the weekend or at night.
- Integrate with the programmed maintenance package, so that you can be sure every machine is at the right place at the right time.

More safety, lower insurance premium

- Keep thieves away: dissuade them from attacking your asset because it is geo-localised. SiteWatch is hidden so that thieves can't find it quickly.
- Your fleet is used only where you decide. You can define a virtual fence and receive an email when a machine exits that perimeter.







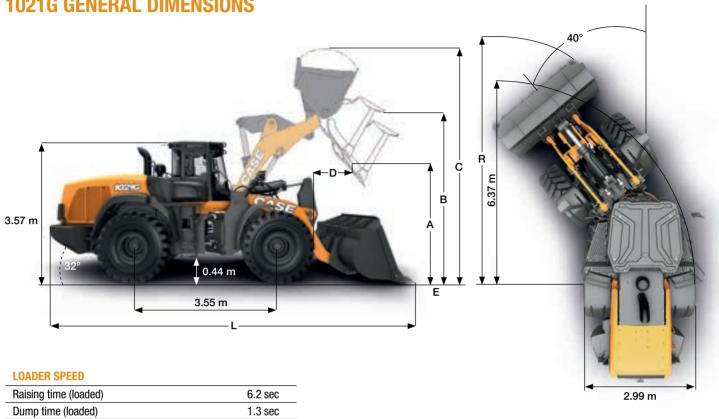
SPECIFICATIONS

ENGINE	1021G	1121G	HYDRAULICS	1021G	1121G	
FPT engine	Curso	r 9	Valves	Rexroth Clos	sed-center,	
	/linders6			Load sensing	g hydraulic system.	
Displacement (I)	8.7				vith 3 sections.	
Air intake	Turbochargei	with air-to-air	Steering	The steering orbitrol		
		GR valve is used:	•		is actuated with	
	Only fresh air			priority valve		
		and no extra cooling	Automatic functions	Bucket Retu		
	system is ne				n-to-travel, Boom	
Injection		l Multiple Injection.		Auto-lift.		
After Treatment System			Control type			
Emission level		th EU Stage IV		or two/three		
Max. power (kW/hp)		259 / 347	Type of pump		able displacement	
(@ rpm)		1800		pump.	abio diopiacomoni	
(ISO 14396)	1000	1000	(I/min)		376	
Max. torque (Nm)	1479	1604	(@ rpm)		2000	
(@ rpm)		1604	(@ ipin)	2000	1 2000	
(ISO 14396)	1100	1100	ALIVII IADVIIVDDAIII I	CIDCIII	T	
(130 14330)			AUXILIARY HYDRAULIO	, GIRGUI	П	
TDANCMICCION			Max flow (I/min)	240	240	
TRANSMISSION			Max pressure (bar)	249/255	249/255	
4-Speed Powershift				2 10/200	12 10/200	
4x3 transmission with auto-shift syst	em and Intelligent C	lutch Cut Off (ICCO).	SERVICE CAPACITIES			
Forward 1 (km/h)		7	SERVICE CAPACITIES	1	1	
Forward 2 (km/h)	/	12	Fuel tank (I)	459	459	
Forward 3 (km/h)	10	18	AdBlue tank (I)	65	65	
Forward 4 (km/h)	38	38	Cooling system (I)	57	57	
Reverse 1 (km/h)	30	7	Engine oil (I)	26	26	
Reverse 2 (km/h)		13	Hydraulic oil tank (I)	134	134	
Reverse 3 (km/h)			Total hydraulic system oil (I)	250	250	
110 V0130 0 (KI11/11)	27	26	Front and Rear Axles (I)		68	
AVI EC AND DIEEED	CNITIAI		Transmission oil (I)	45	45	
AXLES AND DIFFER	CIVIIAL		(/		'	
Rear axle total oscillation	24°		CAB PROTECTION			
Heavy-duty ZF axles		ferentials and				
, ,		10% lock system	Protection against falling objects (FOPS) ISO EN3449			
		differential. Also	Protection against roll over (ROPS)	ISO EN13510		
	available witl	n oil cooler. 100%				
	tractive effor	t always, no wheel	NOISE AND VIBRATION			
	slip, less tire					
	1,		In the cab - LpA (dB)	69	69	
TYRES			(ISO 6595/6396/3744)			
TINES			Outside - LwA (dB)	105	104	
Tyres	26.5R25	26.5R25	(SAE J88 SEP80)	·	,	
			Vibrations		seat meets the	
BRAKES				criteria of IS	0 7096:2000. The	
					ansmitted do not	
Service brake	Maintenance	free, self-adjusting		exceed 0.5	m/s²	
	wet 4-wheel					
Brake disc area (m²/hub)		0.74				
Parking brake		ative brake all	ELECTRICAL SYSTEM			
	four wheels a	are automatically	LLLUTHIUAL STOTLIN			
		n the engine is	24V. Batteries 2 x 12V.			
	stopped.		Alternator (A)	120	120	
Parking disc brake area (cm²)	82	82			•	
	•	•				

1021G GENERAL DIMENSIONS

Lowering time (empty, power down)

Lowering time (empty, float down)



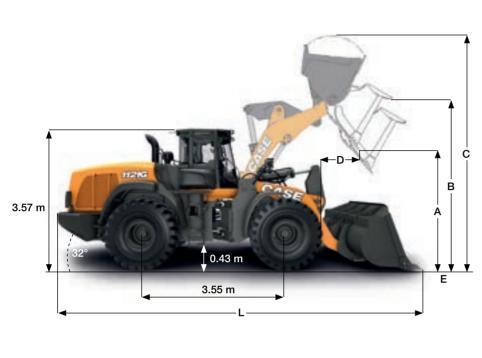
2.8 sec

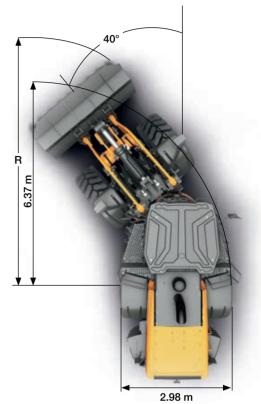
2.6 sec

				Z-BAR bucket				XR buckets	
	1021G		4.4 m³ Pin-on / flat bottom		4.2 m³ Pin-on / round bottom		4.2 m³ Pin-on / round bottom		
			edge	teeth + segments	edge	teeth + segments	edge	teeth + segments	
	Bucket volume (heaped)	m³	4.4	4.4	4.2	4.2	4.2	4.2	
	Bucket volume at 110% filling rate	m³	4.8	4.8	4.6	4.6	4.6	4.6	
	Bucket Payload	ton	9505	9445	9580	9520	7740	7680	
	Maximum material density	ton/m³	2.16	2.15	2.28	2.27	1.84	1.83	
	Bucket outside width	m	3.02	3.05	3.17	3.20	3.17	3.20	
	Bucket weight	kg	2320	2410	2140	2230	2140	2230	
	Tipping load - straight	kg	21890	21770	22040	21910	17970	17840	
	Tipping load - Articulated at 40°	kg	19010	18890	19160	19040	15480	15360	
	Breakout force	kg	19070	19430	20000	20400	20635	22090	
	Lift capacity from ground	kg	23170	23090	23500	23420	18960	19120	
A	Dump height at 45° at full height	m	2.94	2.84	3.06	2.96	3.66	3.54	
B	Hinge pin height	m	4.25	4.25	4.25	4.25	4.83	4.83	
C	Overall height	m	5.96	5.96	5.85	5.85	6.40	6.40	
D	Bucket reach at full height	m	1.22	1.29	1.29	1.36	1.28	1.41	
E	Dig depth	cm	12	15	12	15	13	13	
L	Overall length with bucket on the ground	m	9.03	9.17	8.97	9.11	9.43	9.57	
	Overall length without bucket	m	7.55	7.55	7.55	7.55	8.00	8.00	
R	Turning radius to front corner of the bucket	m	7.04	7.09	7.09	7.14	7.35	7.42	
	Bucket rollback in carry position	0	49°	49°	49°	49°	48°	48°	
	Dump angle at full height	0	48°	48°	53°	53°	50°	50°	
	Machine operating weight with XHA2 (L3) Tyres	kg	25760	25860	25590	25680	26630	26720	
	Machine operating weight with VSDL (L5) Tyres	kg	26964	27064	26794	26884	27834	27924	

SPECIFICATIONS

1121G GENERAL DIMENSIONS





LOADER SPEED

Raising time (loaded)	6.5 sec
Dump time (loaded)	1.4 sec
Lowering time (empty, power down)	2.8 sec
Lowering time (empty, float down)	2.6 sec

		Z-BAR bucket					XR bucket	
1121G		5.0 m³ Pin-on / flat bottom		4.8 m³ Pin-on / round bottom		4.8 m³ Pin-on / round bottom		
		edge	teeth + segments	edge	teeth + segments	edge	teeth + segments	
Bucket volume (heaped)	m³	5.0	5.0	4.8	4.8	4.8	4.8	
Bucket volume at 110% filling rate	m³	5.5	5.5	5.3	5.3	5.3	5.3	
Bucket Payload	ton	10210	10150	10285	10220	8710	8650	
Maximum material density	ton/m³	2.04	2.03	2.15	2.14	1.82	1.81	
Bucket outside width	m	3.18	3.20	3.17	3.20	3.17	3.20	
Bucket weight	kg	2450	2540	2250	2340	2250	2340	
Tipping load - straight	kg	23580	23460	23710	23590	20250	20130	
Tipping load - Articulated at 40°	kg	20420	20300	20570	20440	17420	17300	
Breakout force	kg	22330	22750	22210	22630	22210	22630	
Lift capacity from ground	kg	25600	25500	25740	25640	21580	21480	
A Dump height at 45° at full height	m	3.12	3.01	3.19	3.09	3.62	3.5	
B Hinge pin height	m	4.45	4.45	4.45	4.45	4.859	4.859	
C Overall height	m	6.23	6.23	6.15	6.15	6.537	6.537	
D Bucket reach at full height	m	1.17	1.24	1.29	1.37	1.32	1.45	
E Dig depth	cm	11	14	11	14	12	12	
L Overall length with bucket on the ground	m	9.19	9.32	9.20	9.33	9.75	9.88	
Overall length without bucket	m	7.70	7.70	7.70	7.70	8.24	8.24	
R Turning radius to front corner of the bucket	m	7.17	7.22	7.17	7.22	7.38	7.45	
Bucket rollback in carry position	0	49°	49°	49°	49°	48	48	
Dump angle at full height	0	45°	45°	50°	50°	50°	50°	
Machine operating weight with XHA2 (L3) Tyres	kg	28170	28260	27970	28060	28780	28870	
Machine operating weight with VSDL (L5) Tyres	kg	29374	29464	29174	29264	29984	30074	

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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.