

**CASE**  
CONSTRUCTION

# F-SERIES WHEEL LOADERS

1021F | 1121F

**SCR**  
TECHNOLOGY



# FASTER, FUEL EFFICIENT

## Be ready for the best:

- Advanced Engine Technology
- Cooled Heavy duty axles
- Open Differentials with 100% locking on the front
- Low Maintenance Cooling Design
- Optimized front loader
- Premium Ergonomics



# F-SERIES WHEEL LOADERS

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TIER 4 INTERIM



# ADVANCED ENGINE TECHNOLOGY

## New generation engine:

The second generation common rail engine Cursor 9 delivers top performance in load response, max torque, power and fuel economy.

The combustion is optimized for maximum efficiency, at high temperatures using 100% fresh, cool air, as the air intake is separated from the exhaust.

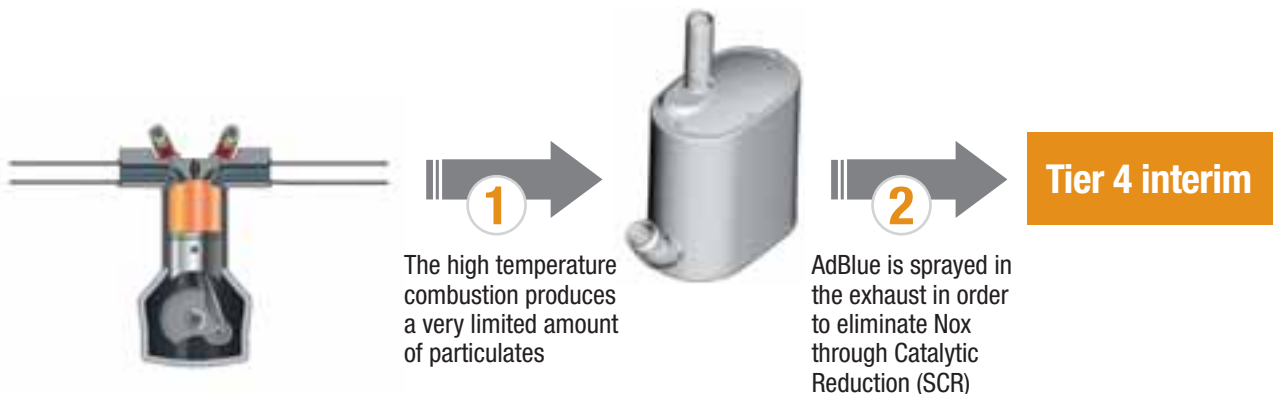
The turbocharged engine with an Air-to-Air intercooler relies on a 3-step injection technology to maximize responsiveness and fuel efficiency with reduced engine noise and vibrations.

4 working modes (max, economy, normal and auto) allow you to maximize productivity or fuel efficiency according to your needs.



## Premium Tier 4 technology: “SCR only”

Case's solution to meet Tier 4 interim emission standards follows two simple steps:



Case “SCR only” is an after-treatment solution that allows the engine to breathe only fresh air and do what it does best- generate power. We call it SCR only because it doesn't require the use of a particulate filter.

SCR naturally acts as anti-spark system because AdBlue, which is made of water and urea, is sprayed in the exhaust. In addition the temperature generated by SCR is very low compared to other tier 4 interim technologies resulting in further more reduced risk of fire ignition.

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The Cursor 9 engine coupled with SCR engine has proved to be a highly effective and reliable solution, as it has been applied on trucks since 2004 in Europe.

## More than 10% lower fuel consumption

The high combustion temperature result in optimum engine performance. The second generation common rail engine ensures better engine control at all rpm. The multiple injection technology delivers optimum combustion control.

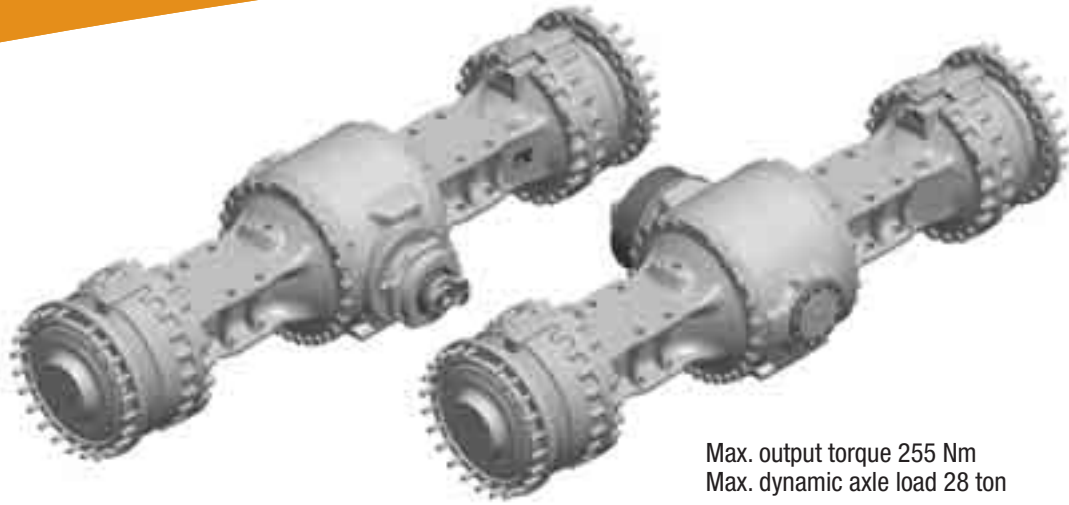
## Outstanding flat torque

The second generation common rail engine ensures better engine control at all rpm and the 100% fresh air input further improves engine output. The multiple injection technology ensures optimum combustion control, while the 1600 bar injection delivers best-in-class torque performance.

## Lower maintenance costs

The combustion chamber and high pressure injection are optimized to reduce oil dilution. The engine only breathes fresh air, so there is no oil contamination. It also has better fuel compatibility because there is no exhaust gas recirculation and it doesn't need a specific oil because with "SCR only" there is no Diesel Particulate Filter.

# HEAVY DUTY AXLES WITH HIGH TRACTION DIFFERENTIAL



Max. output torque 255 Nm  
Max. dynamic axle load 28 ton

## Cooled and Heavy-duty axles

The new heavy-duty axles are tougher, bigger and easier to service with the 3-piece housing design. Moreover the internal oil temperature is kept constant by the oil cooling, resulting in even more reliability.

## Open differentials front and rear

With open differentials, no friction is applied to reduce wheel slip, resulting in less wear and lower energy losses.

## Front differential with 100% Auto-lock

With 100% Auto-lock, 100% of the available torque goes to the wheel with adherence, a big step up from the 75% of a limited slip differential! There is no slippage between the wheels and no friction in the differential.

The Auto-lock is activated automatically when a front wheel is about to slip, or you can easily do it manually with your left foot.



For a reduced initial investment, the axles are also available with both open differentials without locking. In that configuration the front axle is heavy duty and the rear axle is standard.

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## More productivity

100% of available torque is transmitted to the wheels, delivering optimum pushing power. This means that up to 40% more pushing power is transmitted to the wheel than it would be with a limited slip differential.

## Greater return on investment

Tyre wear is reduced by 20-30% because there is no slippage between the wheels, fuel consumption is lower because there is no friction in the differential, less maintenance is needed because there is no internal friction with open differentials. The result: better resale value.

## Always reliable

The Heavy duty axles are designed to be used in very demanding conditions, with both solid or water-filled tyres, as preferred by different operators. Together with open differentials, they result in superior reliability in all applications.

# LOW MAINTENANCE COOLING DESIGN



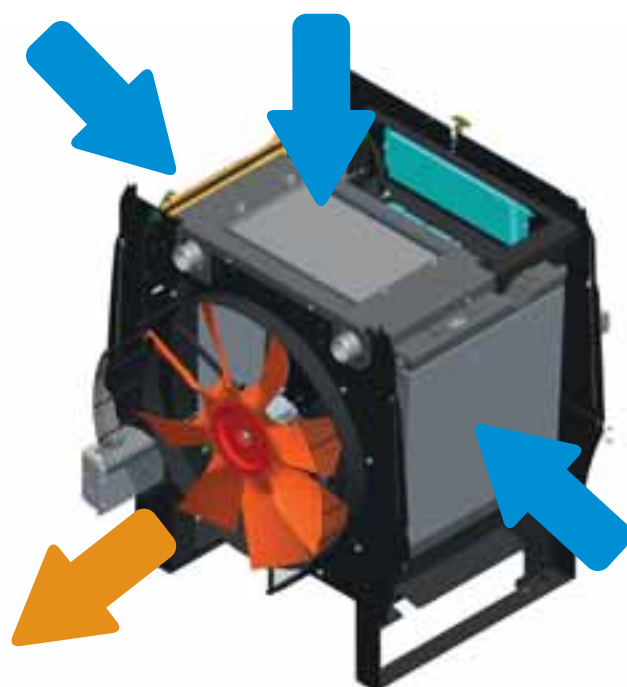
## The cooling cube

The unique design, with the five radiators mounted to form a cube instead of overlapping, ensures that each radiator receives fresh air and that clean air enters from the sides and the top, maintaining constant fluid temperatures. The high efficiency of the cooling system lengthens the life of the coolant to 1500 hours.



The standard reversible fan can be activated from the cab and is very effective thanks to the cooling cube

The low fan speed (just 1200 rpm), results in lower noise and vibration levels in the cab.





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In dusty environments like sand pits or quarries the cleaning of the radiators can be very time consuming: that is not the case with the cooling cube.

## Less frequent and easier cleaning

The radiators are easy to clean with the reversible fan, which is activated from the cab. The cube design of the cooling system results in more effective cleaning of the radiators, and additional cleaning can be easily done manually, with separate access to each radiator.

## Better cooling needs less maintenance

The efficient cube design also results in a longer life for the cooling fluid, which lasts 500 hours more, so that change intervals are 1500 hours.

## Increased reliability

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.

The better weight distribution means that a smaller counterweight or dead weight is needed, which reduces stress on the axles and the brakes.

# FRONT LOADER OPTIMIZED FOR MORE PRODUCTIVITY



## 18% more thrust with the new torque converter and axles

The new torque converter of the 1021F and 1121F is bigger, and transfers more power to the transmission. When the ground is slippery, the second gear is more appreciated than the too pushy first gear. With 18% increased thrust, loading in second gear is faster.

## Flat bottom bucket with 51° roll back angle

The new bucket flat bottom bucket shape has a shorter bottom in order to increase up to 244 kN the breakout force of the machine. The flat bottom makes grading jobs easier and it increases the retention of the material.

The new loader design with 51° roll back increases the bucket filling by about 10%. It also improves significantly the material retention in carry phases.

## Lifts the bucket to full height in 6 seconds with the new hydraulic pump

The new hydraulic pump provides more lifting force, so that the lifting of the arm is faster and the cycle time of the loader is shorter.

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## Increased bucket filling

Bucket is filled faster with the 18% increased thrust and greater breakout force that comes with the short bottom buckets.

## More bucket retention

Higher bucket filling and better bucket retention make your resources more effective!

## More productivity with faster cycles

Faster bucket lifting means faster cycles, which results in higher productivity when you need it.

**FASTER, FUEL EFFICIENT**



# F-SERIES WHEEL LOADERS

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# WELCOME ON BOARD

## Protected cab

Our reinforced cab guarantees protection against roll over (ROPS) and falling objects (FOPS)



## Low operator vibrations

Engine noise and vibrations are reduced by 3-step injection: pre-, main- and post-injection. To further increase the operator comfort the rear mounted engine is distant from the cab and standard the seat air suspended. Heated seat is optional.



## Outstanding all-round visibility

You'll feel more confident and work faster with the great all-round visibility provided by the very low shape of the curved rear hood and the ample glazed surfaces.



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## Great temperature control

17 air vents ensure your comfort and prevent the windshields from steaming up.



# PREMIUM ERGONOMICS



## Hydraulic functions that add to your comfort

To maximise your focus on the job and reduce your stress levels, you can activate the following functions from the ergonomically positioned control panel under your right hand:

- **Auto-shift** : ensures the machine always operates in the most suitable gear according to speed, kick down and engine braking
- **Reverse button on the joystick**: activates front, neutral or reverse
- **Return to dig** : brings back the bucket in the right position for loading again
- **Return to travel** : lowers the boom to carry position, which can be adjusted
- **Auto-lift** : lifts the boom to the max height you have set
- **Auto-Ride Control**: reduces loader arm bounce during travel, maintaining maximum material retention. It activates from 8 km/h
- **Auto-diff lock**: The 100% differential lock can be activated manually with your left foot or automatically for greater focus on the job
- **Auxiliary circuit lever**: For hydraulic attachments such as high tip bucket, you can order the optional auxiliary circuit controlled by a lever next to the joystick for your ease of use.



## Joystick steering

Long days of repetitive cycles go faster with joystick steering (optional) because your sitting position is better. The steering wheel is maintained for a better handling. You will appreciate it during transfers on uneven terrains, on a descending slope and in case of emergency



## Levers or joystick loader control

Depending on your habits you may prefer the optional 2-lever control to the standard joystick control. The optional 3rd lever controls the attachment auxiliary circuit. It can also be retrofitted as a kit.



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TIER 4 INTERIM



# FAST AND EASY MAINTENANCE



## One-piece electric hood

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

## Ground level maintenance design

All service points and radiators are easily accessible at ground level. You can do a fast visual check of the hydraulic and transmission oil levels. The three drains are grouped together on the left side, below the hood and battery switches, so that fluids are easy and quick to replace.

## Less maintenance, more uptime

You can maximise the working time with these wheel loaders, with the long service intervals of 1500 hours for the transmission oil and filter, the axle oil and filter, and the coolant.

The positioning of the cooling system behind the cab means that it needs less cleaning, and the cooling cube design enables you to clean very efficiently with the reversible fan as well as manually.

## Greater Safety

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

SCR runs at about half of the temperature of other tier 4 interim solutions, reducing fire risk.

# F-SERIES WHEEL LOADERS

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TIER 4 INTERIM



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



*Grouped drains*



*Fuel filter and engine oil service points are easily accessible from the left side while the other filters are behind the right stairs*

# THE DNA OF YOUR 1021F

## Productivity (50-meter distance cycle)

Considering: density: 1,8 t/m<sup>3</sup>, fill factor: 100%, 52 cycles/hour and each hour includes a 5-minute break \_\_\_\_\_ 230 m<sup>3</sup>/h or 410 t/h  
52 loading cycles/h with standard bucket 4.4 m<sup>3</sup> or 7.9 ton

## Engine Tier 4 interim

Compliant with Tier 4 interim (EU stage IIIB regulations)

FPT turbocharged engine F2CFE614C with:

- 100% fresh air combustion
- Air to Air intercooler
- Second generation common rail (1.600 bar)
- Multiple injections similar to multi-jet automotive technology

to achieve best in class load response, max torque and power with the minimum fuel consumption.

6 cylinders - 8,7 liters - common rail

Max power (SAE J1995 / ISO 14396) \_ 239 kW / 320 hp @1800 rpm

Maximum torque (SAE J1349) \_\_\_\_\_ 1479 Nm @1200 rpm

Nox emission \_\_\_\_\_ 1.232 g/kWh

HC emission \_\_\_\_\_ 0.009 g/kWh

CO emission \_\_\_\_\_ 0.222 g/kWh

PM emission \_\_\_\_\_ 0.009 g/kWh

## Transmission

All-wheel drive with planetary axles

Kick-down function

### 4-speed torque converter

4-speed auto Powershift switchable to manual shifting

forward speeds \_\_\_\_\_ 7-13-19-38 Km/h

reverse speeds \_\_\_\_\_ 7-13-27 Km/h

Adjustable transmission declutch

## Axles and differential

For outstanding traction with 50% longer maintenance intervals and 30% less tire wear

Front auto-lock differential \_\_\_\_\_ 100% of available torque is always guaranteed on the wheel(s) with traction

Cooled ZF Heavy Duty axles with both Open Differentials

Front \_\_\_\_\_ Heavy Duty axle + (ZF type MT-L3115-II)

Rear \_\_\_\_\_ standard axle (ZF type MT-L3105-II)

Cooled ZF Heavy Duty axles

Front \_\_\_\_\_ Heavy Duty axle + (ZF type MT-L3105-II)

Rear \_\_\_\_\_ standard axle (ZF type MT-L3105-II)

Rear axle total oscillation \_\_\_\_\_ 24°

## Tyres

Tyres \_\_\_\_\_ 26.5R25

## Brakes

Service brake \_\_\_\_\_ Maintenance free, self-adjusting wet 4-wheel disc brakes

Area \_\_\_\_\_ 0.74 m<sup>2</sup>/hub (HD axle) or 0.54 m<sup>2</sup>/hub (std axle)

Parking brake \_\_\_\_\_ Disc brake on transmission activated from the cab cluster

Area \_\_\_\_\_ 82 cm<sup>2</sup>

## Hydraulic

Valves \_\_\_\_\_ Rexroth Closed-center, load sensing hydraulic system

Main valve with 3 sections

Steering \_\_\_\_\_ The steering orbitrol hydraulically is actuated with priority valve

Type of pump \_\_\_\_\_ Tandem Variable displacement pump (352 l/min @2000 rpm)

Automatic hydraulic functions

- Bucket Return-to-dig
- Boom Return-to-travel
- Auto.lift (to adjustable height)

Control type \_\_\_\_\_ Pilot control with single joystick or two levers

## Capacities

Fuel tank \_\_\_\_\_ 459 usable liters

AdBlue tank \_\_\_\_\_ 65 usable liters

Cooling system \_\_\_\_\_ 57 liters

Engine oil \_\_\_\_\_ 26 liters

Hydraulic oil \_\_\_\_\_ Tank: 134 litres, total system: 250 liters

Axles (including cooling circuit) \_\_\_\_\_ 68 liters

Transmission oil \_\_\_\_\_ 45 liters

## Cab and controls

For you safety the cab complies to:

protection against falling objects (FOPS) \_\_\_\_\_ ISO EN3449

protection against roll over (ROPS) \_\_\_\_\_ ISO EN13510

## Noise and vibration

Sound pressure level at operator's station \_\_\_\_\_ Lpa = 70.7 dB (A) in compliance with standard ISO 6396:2008

Guaranteed Sound power level \_\_\_\_\_ Lwa = 108 dB (A) according to European Directive 2000/14/EC

Switchable reverse gear alarm

Vibrations \_\_\_\_\_ air-cushioned seat MSG 95A/732

Operator 's seat meets the criteria of ISO 7096:2000 representing vertical vibration input under severe but typical operating conditions.

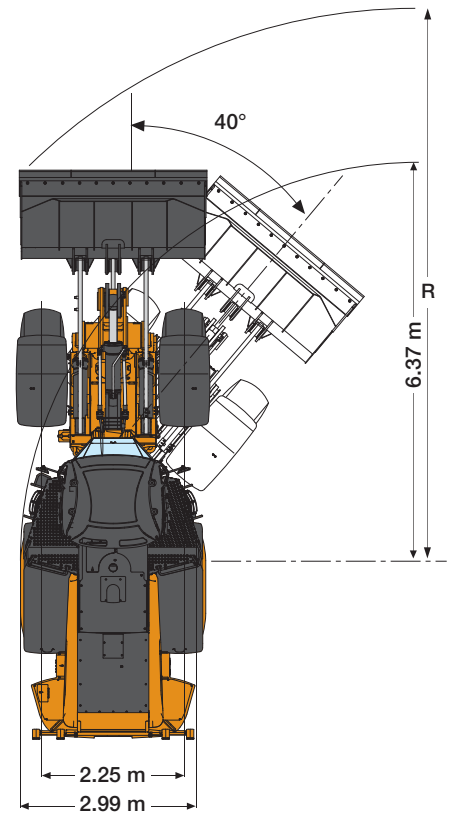
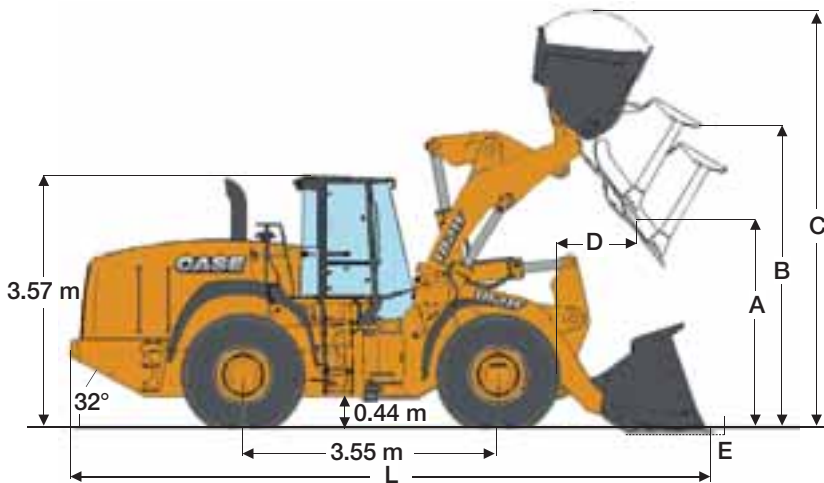
As a result the vibrations transmitted by the machine to the operator body does not exceed 0.5 m/s<sup>2</sup>

## Electrical system

24V Batteries 2 x 12V

Alternator \_\_\_\_\_ 65A

# 1021F Specifications



## LOADER SPEED

Raising time (loaded)	6.2 sec
Dump time (loaded)	1.3 sec
Lowering time (empty, power down)	2.8 sec
Lowering time (empty, float down)	2.6 sec

1021F	Bucket with bolt on:	Z-BAR				Long Reach			
		4.4 m <sup>3</sup> bucket		4.2 m <sup>3</sup> bucket		4.4 m <sup>3</sup> bucket		4.2 m <sup>3</sup> bucket	
		edge	teeth	edge	teeth	edge	teeth	edge	teeth
Bucket volume (heaped)	m <sup>3</sup>	4.40	4.23	4.20	4.06	4.40	4.23	4.20	4.06
Bucket Payload (SAE)	ton	7.9	8.0	7.9	8.0	6.6	6.8	6.7	6.8
Maximum material density (SAE)	ton/m <sup>3</sup>	1.8	1.9	1.9	2.0	1.5	1.6	1.6	1.7
Bucket outside width	m	2.98	2.98	3.20	3.20	2.98	2.98	3.20	3.20
Bucket weight	kg	2480	2321	2286	2268	2480	2321	2286	2268
Tipping load - straight (SAE)	kg	18857	19219	19046	19193	15943	16267	16178	16298
Tipping load - Articulated at 40° (SAE)	kg	15682	16018	15876	16002	13229	13530	13454	13556
Breakout force	kg	19092	20963	20456	21922	19282	21170	17362	17401
Lift capacity from ground	kg	23000	23479	23413	23659	18497	18888	12616	12612
A - Dump height at 45° at full height	m	3.02	2.92	3.08	2.96	3.6	3.5	3.66	3.54
B - Hinge pin height	m	4.24	4.24	4.24	4.24	4.82	4.82	4.83	4.83
C - Overall height	m	5.94	5.94	5.80	5.80	6.52	6.52	6.38	6.38
D - Bucket reach at full height	m	1.33	1.45	1.27	1.4	1.34	1.46	1.28	1.41
E - Dig depth	cm	13	13	13	13	13	13	13	13
L - Overall length with bucket on the ground	m	8.98	9.13	8.89	9.07	9.50	9.65	9.41	9.59
Overall length without bucket	m	6.91	6.91	6.91	6.91	7.37	7.37	7.37	7.37
R - Turning radius to front corner of the bucket	m	7.0	7.1	7.1	7.1	7.3	7.3	7.3	7.4
Bucket rollback in carry position	°	49°	49°	49°	49°	48°	48°	48°	48°
Dump angle at full height	°	53°	53°	53°	53°	50°	50°	50°	50°
Machine operating weight	kg	24593	24434	24399	24381	25882	25723	25688	25670

# THE DNA OF YOUR 1121F

## Productivity (50-meter distance cycle)

Considering: density: 1,8 t/m<sup>3</sup>, fill factor: 100%, 52 cycles/hour and each hour includes a 5-minute break \_\_\_\_\_ 260 m<sup>3</sup>/h or 460 t/h  
52 loading cycles/h with standard bucket 5.0 m<sup>3</sup> or 8.8 ton

## Engine Tier 4 interim

Compliant with Tier 4 interim (EU stage IIIB regulations)

FPT turbocharged engine F2CFE614B with:

- 100% fresh air combustion
- Air to Air intercooler
- Second generation common rail (1.600 bar)
- Multiple injections similar to multi-jet automotive technology to achieve best in class load response, max torque and power with the minimum fuel consumption.

6 cylinders - 8,7 liters - common rail

Max power (SAE J1995 / ISO 14396) \_ 259kW / 347 hp @1800 rpm

Maximum torque (SAE J1349) \_\_\_\_\_ 1604 Nm @1100 rpm

Nox emission \_\_\_\_\_ 1.232 g/kWh

HC emission \_\_\_\_\_ 0.009 g/kWh

CO emission \_\_\_\_\_ 0.222 g/kWh

PM emission \_\_\_\_\_ 0.009 g/kWh

## Transmission

All-wheel drive with planetary axles

Kick-down function

### 4-speed torque converter

4-speed auto Powershift switchable to manual shifting

forward speeds \_\_\_\_\_ 7-12-18-38 Km/h

reverse speeds \_\_\_\_\_ 7-13-26 Km/h

Adjustable transmission declutch

## Axles and differential

For outstanding traction with 50% longer maintenance intervals and 30% less tire wear

Front auto-lock differential \_\_\_\_\_ 100% of available torque is always guaranteed on the wheel(s) with traction

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Type \_\_\_\_\_ Heavy Duty axle + (ZF type MT-L3115-II)

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Rear axle total oscillation \_\_\_\_\_ 24°

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## Brakes

Service brake \_\_\_\_\_ Maintenance free, self-adjusting wet 4-wheel disc brakes

Area \_\_\_\_\_ 0.74 m<sup>2</sup>/hub

Parking brake \_\_\_\_\_ Disc brake on transmission activated from the cab cluster

Area \_\_\_\_\_ 82 cm<sup>2</sup>

## Hydraulic

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Main valve with 3 sections

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Hydraulic oil \_\_\_\_\_ Tank: 134 litres, total system: 250 liters

Axles (including cooling circuit) \_\_\_\_\_ 68 liters

Transmission oil \_\_\_\_\_ 45 liters

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For you safety the cab complies to:

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protection against roll over (ROPS) \_\_\_\_\_ ISO EN13510

## Noise and vibration

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Vibrations \_\_\_\_\_ air-cushioned seat MSG 95A/732

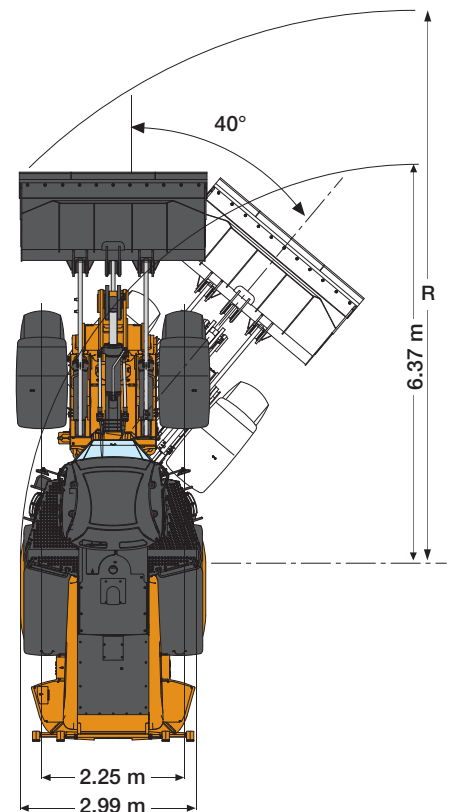
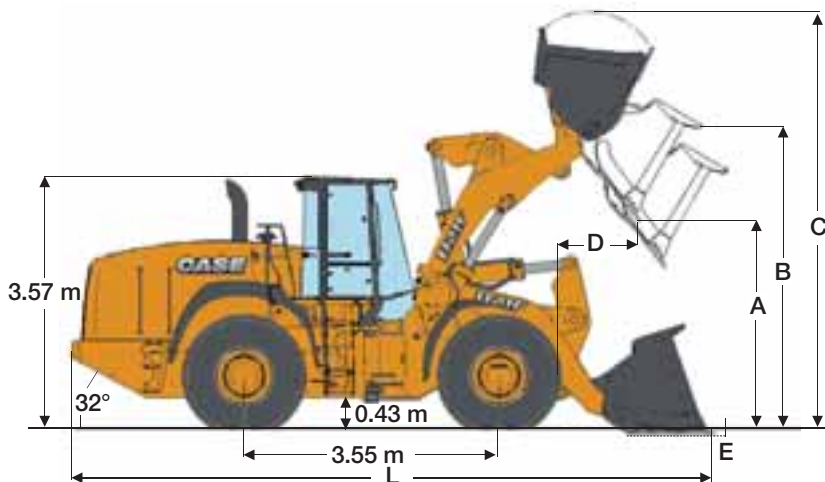
Operator 's seat meets the criteria of ISO 7096:2000 representing vertical vibration input under severe but typical operating conditions. As a result the vibrations transmitted by the machine to the operator body does not exceed 0.5 m/s<sup>2</sup>

## Electrical system

24V Batteries 2 x 12V

Alternator \_\_\_\_\_ 65A

# 1121F Specifications



## 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

1121F	Z-BAR								Long Reach					
	5.0 m <sup>3</sup> bucket		4.8 m <sup>3</sup> bucket		4.0 m <sup>3</sup> bucket		5.0m <sup>3</sup> bucket		4.8 m <sup>3</sup> bucket		4.0 m <sup>3</sup> bucket			
	Bucket with bolt on:	edge	teeth	edge	teeth	edge	teeth	edge	teeth	edge	teeth	edge	teeth	
Bucket volume (heaped)	m <sup>3</sup>	5.0	4.8	4.8	4.6	4.0	3.9	5.0	4.8	4.8	4.6	4.0	3.9	
Bucket Payload (SAE)	ton	8.7	8.9	8.9	8.9	9.0	9.0	7.6	7.8	7.8	7.8	7.9	7.9	
Maximum material density (SAE)	ton/m <sup>3</sup>	1.8	1.9	1.9	1.9	2.2	2.2	1.5	1.6	1.6	1.7	2.0	2.1	
Bucket outside width	m	3.18	3.18	3.20	3.20	3.20	3.20	3.18	3.18	3.20	3.20	3.20	3.20	
Bucket weight	kg	2643	2469	2414	2397	2239	2221	2643	2469	2414	2397	2239	2221	
Tipping load - straight (SAE)	kg	20735	21123	20949	21099	21150	21310	18100	18456	18319	18449	18596	18732	
Tipping load - Articulated at 40° (SAE)	kg	17495	18857	17713	17843	17923	18062	15286	15620	15506	15616	15765	15881	
Breakout force	kg	24269	24443	22661	24151	25542	27431	24508	24682	22883	24387	25790	27698	
Lift capacity from ground	kg	25502	25984	25732	25970	26363	26620	21368	21782	21598	21783	22150	22350	
A - Dump height at 45° at full height	m	3.09	3.09	3.20	3.09	3.30	3.18	3.51	3.51	3.62	3.5	3.72	3.60	
B - Hinge pin height	m	4.44	4.44	4.44	4.44	4.44	4.44	4.86	4.86	4.86	4.86	4.86	4.86	
C - Overall height	m	6.20	6.20	6.12	6.12	5.96	5.96	6.62	6.62	6.54	6.54	6.38	6.38	
D - Bucket reach at full height	m	1.4	1.4	1.27	1.41	1.16	1.30	1.45	1.45	1.32	1.45	1.20	1.34	
E - Dig depth	cm	12	12	12	12	12	12	12	12	12	12	12	12	
L - Overall length with bucket on the ground	m	9.83	9.83	9.12	9.30	8.97	9.14	9.70	9.70	9.53	9.71	9.37	9.55	
Overall length without bucket	m	7.70	7.70	7.70	7.70	7.70	7.70	8.24	8.24	8.24	8.24	8.24	8.24	
R - Turning radius to front corner of the bucket	m	7.2	7.2	7.2	7.2	7.1	7.2	7.4	7.4	7.4	7.4	7.3	7.4	
Bucket rollback in carry position	°	51°	51°	51°	51°	51°	51°	49°	49°	49°	49°	49°	49°	
Dump angle at full height	°	50°	50°	50°	50°	50°	50°	50°	50°	50°	50°	50°	50°	
Machine operating weight	kg	27253	27079	27024	27007	26849	26831	28017	27843	27788	27771	27613	27595	



**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.

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**ASIA PACIFIC:**

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

**CHINA:**

No. 29, Industrial Premises, No. 376.  
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**CASE Construction Equipment**

CNH UK Ltd  
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**CASE Customer Assistance**  
**00800-2273-7373**

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 2006/42/EC

