F-SERIES COMPACT WHEEL LOADERS 21F I 121F I 221F I 321F







EXPERTS FOR THE REAL WORLD SINCE 1842

HERITAGE A TRADITION OF INDUSTRY FIRSTS





EXPERTS FOR THE REAL WORLD SINCE 1842

- **1842** Case is founded.
- 1869 First Case portable steam engine - road construction is born.
- 1957 The first factory integrated loader/backhoe in the world: a Case industry first.
- **1958** The first Case 4-WD wheel loader, the W9.

- 1992 Case expands its wheel loader range with 21B,121B, 221B and 321B models.
- **1998** Ride control on loader backhoes and skid steer loaders: another Case first.
- 2001 The exclusive Cooling Cube in Case wheel loaders means clean engine, reliability and massive bucket payloads.
- 2005 The E-Series compliant with EU Stage IIIA / Tier 3 regulations and with High Travel Speed option is launched.
- 2014 Case launches Tier 4 Final / EU Stage IIIB compact wheel loaders.
- 2015 Case extends its European product line-up with the new grader range.

ENGINE PERFECT IN EVERY MISSION





LOW EMISSIONS

FPT, in-house advanced engine technology

Case equipment features the advanced in-house engine technology developed by sister company FPT Industrial that pioneered low emissions, high efficiency solutions for on- and off-road applications. With a broad portfolio of technologies and products, FPT brings to Case customers the competitive advantage of powertrain technologies that reliably delivers high performance with low operating costs – proven technologies from a global engine manufacturer that produces as many as 600,000 engines a year.

- 3.4 liter 4-cylinder Turbocharged Multiple Injection High Pressure Common Rail Engine with Waste Gate for optimum turbo pressure stability
- Tier 4 final / EU Stage IIIB compliant using Maintenance Free Technology:
- The DOC produces NO, by the oxidation of NO
- Particulate Matters (PM) are trapped in the PM-Catalyst. The reaction with NO₂ convert PM's into carbon dioxide (CO₂) and pure nitrogen (N) passively.



Model	21F	121F	221F	321F
Power	58 hp / 43	64 hp / 48 kW	74 hp / 55 kW	74 hp / 55 kW
Torque	245 N.m	261 N.m	316 N.m	316 N.m

F-SERIES COMPACT WHEEL LOADERS





OUTSTANDING STABILITY Oscillating rear axle

The combination of the articulated joint and the rear oscillating axle reduces maximum cab oscillation by 50% or more.



MILLIMETRIC CONTROL Inch and brake pedal

It progressively disengages the transmission during the decelerating phase and progressively engages the brakes.

PRODUCTIVITY AND PRECISION IN EVERY MISSION



HIGH PAYLOAD Handle heavier pallets







LOW CAB PROFILE

Take the shortest path

No waste of time with the reduced cab height:

- 21F and 121F: 2.46 m
- 221F: 2.63 m
- 321F: 2.68 m

You can always take the shortest path from point A to point B - in indoor jobs or when transporting on a truck.



SUPERIOR DUMP HEIGHT Centred and higher loading

The superior hinge pin height and the Case "banana" arms make it easy to load at the centre of the trailer without touching the edge with the arms.

MAIN REASONS TO CHOOSE THE F-SERIES



HIGH VERSATILITY

Easy asphalt planing, snow blowing, brooming, compacting and much more with:

- 1 or 2 auxiliary hydraulic circuit
- Creep speed: max flow at constant low speed
- High flow option on 221F and 321F
- The wide offering of Case attachments



COMFORTABLE AND SAFE CAB

- 10 air vents ensure perfect climate control in all seasons

BELLE

- Control all functions from the joystick



FAST ATTACHMENT CHANGE OVER

- Hydraulic coupler controlled from the all-in-one joystick
- Depressurized push-pull connectors



AUTO-RIDE CONTROL

Ride Control, activated only when needed, over 7 km/h prevents arm bouncing.



HIGH PAYLOAD

- From 1,9 t up to 2,5 t tipping load - Auto-Ride Control optimizes
- bucket retention

SHORT TURNING RADIUS

Makes your day-to-day job easier when working in tight spaces.



LOW CAB PROFILE

Easy transport on truck, quick access to the cab - 21F and 121F: 2.46 m - 221F: 2.63 m

- 321F: 2.68 m



CAB SAFETY

Keeps you protected in case the machine rolls over or a 227 kg object falls from 5 m high (ROPS and FOPS level II).

LOW EMISSIONS

- EU Stage IIIB / Tier 4 final compliant
- No particulate filter
- No fuel injectors in the exhaust



AST TRAVELLING

 Engage Turtle/Rabbit speed under load
 221F and 321F are available in High Travel Speed (HTS) version: 33 km/h



OUTSTANDING STABILITY

Oscillating rear axle
Easier levelling on rough terrains



EASY ACCESS Step in and out of the cab in a second.

ATTACHMENTS GREAT ADAPTABILITY



HIGH VERSATILITY

Ready for every attachment







FAST ATTACHMENT CHANGE OVER

Plug and unplug your attachment in a few seconds

With the depressurized push-pull connectors you will never need hand tools to swap your attachments

Front electrical socket

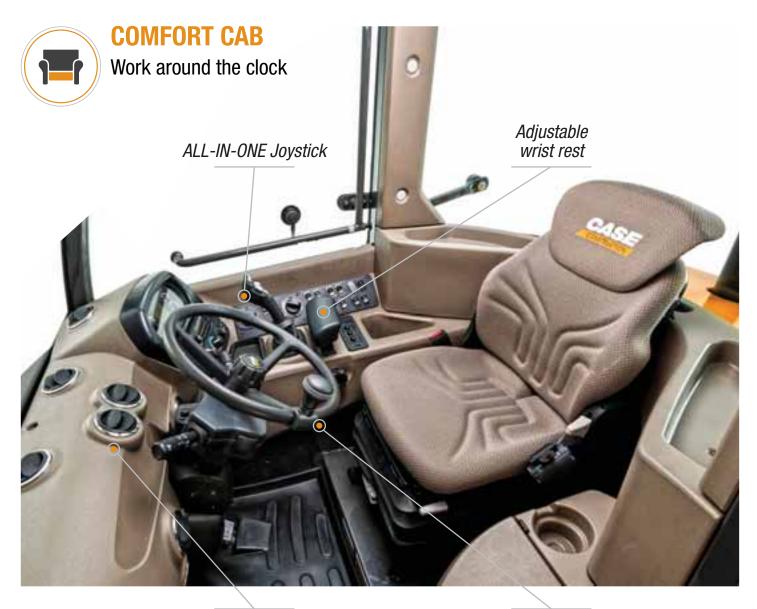
For multi-functioning or special attachments

Standard flow or high flow

- Standard Flow (Max pressure: 230 bar):
- 21F-121F: 67 lpm @ 2500 rpm
- 221F-321F: 85 lpm @ 2500 rpm
- The High Flow package is available on 221F-321F:
- 130 lpm @ 2500 rpm

High Flow option always comes as part of a package including Creep Speed, Front electrical socket and Return Depressurized Drain.

COMFORT AND SAFETY IN ALL WORK CONDITIONS



10 air vents

Tilting adjustment of the steering wheel



CAB SAFETY

Cab structure: ROPS and FOPS level 2 come as standard

Designed to protect the operator in case the machine rolls over or a 227 kg rock falls from 5 meters height on the roof. EAS Easy

EASY ACCESS Easy entrance

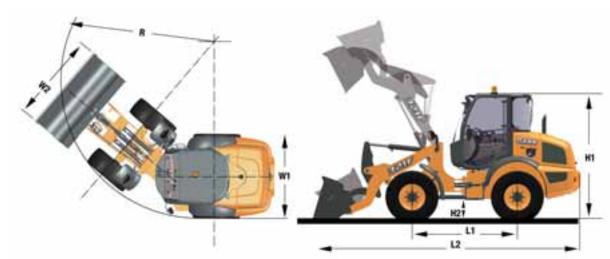
With low cab floor and wide steps.

If you want even more

The Deluxe Option includes an additional storage compartment under you left hand, storage spaces around the seat and height adjustment of the steering wheel.

F-SERIES COMPACT WHEEL LOADERS

GENERAL DIMENSIONS



	21F	121F	221F	321F
H1	2.46 m	2.46 m	2.63 m	2.68 m
H2	45 cm	45 cm	44 cm	49 cm
W1	1.74 m	1.74 m	1.80 m	1.86 m
W2	1.90 m	2.05 m	2.05 m	2.10 m
L1	2.08 m	2.08 m	2.22 m	2.23 m
R	3.72 m	3.72 m	3.99 m	3.99 m

TRANSMISSION

Hydrostatic 4-wheel Drive Transmission	Travel speed
is proportional to the pressure on the throttle.	
Speed with standard tyres	
Operating speed range	0–5 km/h
Travel speed range	0–20 km/h
Optional High Travel Speed	33 km/h
(upon request on 221F and 321F)	

"Inch & Brake" Pedal

Power transfer from the transmission to the bucket hydraulics at constant rpm. Optimum speed control at low speed. **Optional Creep Speed** (upon request on 221F and 321F): Set and adjust travel speed in the 1-5 km/h range, adjust engine rpm for hand-free asphalt planing, snow blowing, brooming.

DIFFERENTIAL CHOICE

Limited slip front & rear (all models) or Front & rear open diff (21F & 121F) or open with 100% lock on front and rear differentials (221F & 321F)

TYRES

Standard	
21F/121F	12.5-18
221F	12.5-20
321F	14.5-20
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More special tyres upon request

BRAKES

Standard brakes	disc brake.
Located in hubs for 221F/321F, cen	tre mounted for 21F/121F
Parking brakes	disc brake on transmission shaft

STEERING

Fully hydraulic center pivot steering. Front and rear wheels follow the same track. Steering angle of 40° to each side. Emergency steering function.

ELECTRICAL SYSTEM

Voltage	12 V
Battery	95 A.h
Alternator	120 A.h

CAPACITIES

87
71
161
57 I
91
121

HYDRAULICS

Gear pump for loading and steering hydraulics Priority valve favouring steering hydraulics 3rd or 4th functions are proportionally controlled by the All-in-one Joystick with , Flow memory button as standard. **Standard Flow**

21F-121F _______67 lpm @ 2500 rpm 221F-321F _______85 lpm @ 2500 rpm High Flow package available upon request on 221F-321F ______130 lpm @ 2500 rpm

NOISE AND VIBRATIONS

External - Guaranteed acoustic power-level I	_WA (1)101 dB
Cab interior - Sound Pressure Level (2)	21F - 121F:71 dB
	221F - 321F:72 dB
Hand- / arm- / body -vibration (3)	< 2.5 / 0.5 m/s ²
(1) According to 2000/14/EG & appendixes.	
(2) According to ISO 6396.	
(3) According to ISO 8041	

EMISSIONS

Nox + HC	 _ 4.5 g/kW/h
CO	0.10 g/kW/h
PM	 0.02 g/kW/h

SPECIFICATIONS

EASY PALLET LOADING

Linkage: Mechanical self-levelling on XT and Z-bar

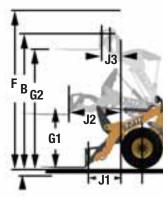


Z-bar is the most versatile linkage type. It offers more breakout force thanks to the 2 lifting cylinders and a higher dump height.



XT is the best linkage for pallet handling. Visibility on the pallet is the best with one lifting cylinder only and payload is optimum

SPECIFICATIONS WI



TH FORKS	21	IF	12	21 F	221F	321F	
	Z-BAR	ХТ	Z-BAR	ХТ	Z-BAR	Z-BAR	
Tipping load straight	2.8 t	3.0 t	3.0 t	3.2 t	3.1 t	3.6 t	
Tipping load at full turn (40°)	2.4 t	2.6 t	2.6 t	2.8 t	2.7 t	3.0 t	
Payload @80%*	1.9 t	2.1 t	2.1 t	2.2 t	2.2 t	2.5 t	
F Max overall height	3.48 m	3.63 m	3.53 m	3.65 m	3.63 m	3.73 m	
B Hinge pin height	3.14 m	3.11 m	3.18 m	3.13 m	3.29 m	3.40 m	
G2 Max fork height	2.90 m	2.96 m	2.95 m	2.97 m	3.08 m	3.19 m	
G1 Forks height @ max reach	1.27 m	1.34 m	1.27 m	1.34 m	1.34 m	1.39 m	
J1 Reach @ ground level	0.94 m	0.77 m	1.01 m	0.80 m	0.99 m	0.99 cm	
J2 Max Reach	1.35 m	1.26 m	1.41 m	1.27 m	1.43 m	1.43 cm	
J3 Reach @ max height	0.59 m	0.46 m	0.63 m	0.47 m	0.61 m	0.61 m	
Operating weight with forks	5020 kg	4910 kg	5310 kg	5090 kg	5559 kg	6060 kg	

* on even ground, according to ISO 8313 and EN 474-3

SPECIFICATIONS WITH BUCKET 21F 121F 221F **Z-BAR** XT **Z-BAR** XT **Z-BAR Bucket Volume (SAE)** 0.7-1.0 m³ 0.9 -1.1 m³ **1.0 - 1.2 m³ Tipping load straight** 3.9 t 3.8 t 4.1 t 4.1 t 4.2 t Tipping load at full turn (40°) 3.2 t 3.3 t 3.3 t 3.5 t 3.6 t Payload @50% 1.6 t 1.6 t 1.7 t 1.8 t 1.8 t **Breakout Force** 5925 daN 4024 daN 5375 daN 3849 daN 6269 daN L2 Length with bucket 5.28 m 5.23 m 5.39 m 5.33 m 5.62 m Max bucket height 3.94 m 3.18 m 4.09 m 3.29 m Α 3.14 m Hinge pin height 3.11 m 3.18 m 3.29 m В 3.14 m 3.13 m C Dump height @45° 2.49 m 2.34 m 2.52 m 2.35 m 2.60 m D 12 cm 14 cm 10 cm **Dig Depth** 7.3 cm 13 cm Е **Reach at full height** 77 cm 71 cm 83 cm 74 cm 85 cm 5015 kg **Operating weight (std. bucket)** 5115 kg 5423 kg 5208 kg 5694 kg **Operating weight (4-in-1 bucket)** 5304 kg 5507 kg 5414 kg 5742 kg 6034 kg

321F

Z-BAR

1.1 - 1.2 m³

4.6 t

3.7 t

1.9 t

6194 daN

5.68 m

3.40 m

3.40 m

2.69 m

8.4 cm

85 cm

6195 kg

6535 kg

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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.

Conforms to directive 2006/42/EC



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