F-SERIES WHEEL LOADERS 621F/721F/821F





FASTER, FUEL EFFICIENT

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EXPERTS FOR THE REAL WORLD
SINCE 1842

FAST, PRODUCTIVE, FUEL EFFICIENT

BE READY FOR THE BEST:

- Advanced Engine Technology
- High Efficiency Transmission
- High Productivity Differential and Axles
- Low Maintenance Cooling Design
- Premium Ergonomics





ADVANCED ENGINE TECHNOLOGY

EFFICIENT TRANSMISSION





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.





LOW MAINTENANCE COOLING DESIGN

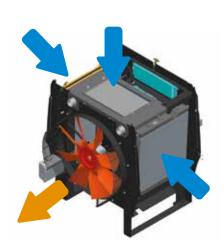


BETTER WEIGHT DISTRIBUTION WITH THE REAR MOUNTED ENGINE



MID-MOUNT COOLING SYSTEM

This 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 mid-mount cooling system. The engine is mounted at the rear of the machine, therefore minimizes the need for an additional counterweight. This, together with the lower fan speed (just 1200 rpm), results in lower noise and vibration levels in the cab.



DESIGNED FOR DUSTY ENVIRONMENT

The cooling system is mounted behind the cab, far from the rear of the machine and from the ground - away from the dust.





LESS MAINTENANCE

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. 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.

PREMIUM ERGONOMICS





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.

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





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 postinjection. To further increase the operator comfort the rear mounted engine is distant from the cab and an air suspension seat is standard.



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.





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.



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

FAST AND EASY

MAINTENANCE

ONE-PIECE ELECTRIC HOOD

The positioning of the engine at the rear and 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.



The layout of the components under the hood is optimized and results in easier maintenance.



GROUND LEVEL MAINTENANCE DESIGN

Don't be surprised if you don't see any safety handrails around the hood or steps behind the rear wheels, all service points 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.

Both pumps and engine distributions rely on one belt only for faster maintenance.



Hood opening and battery on/off switches. In case of flat battery, hood opening can be done externally with remote jump start

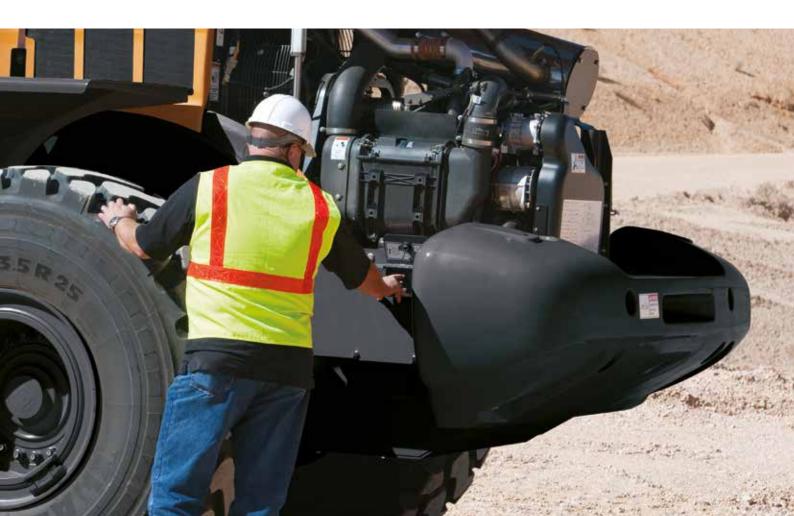


Grouped drains

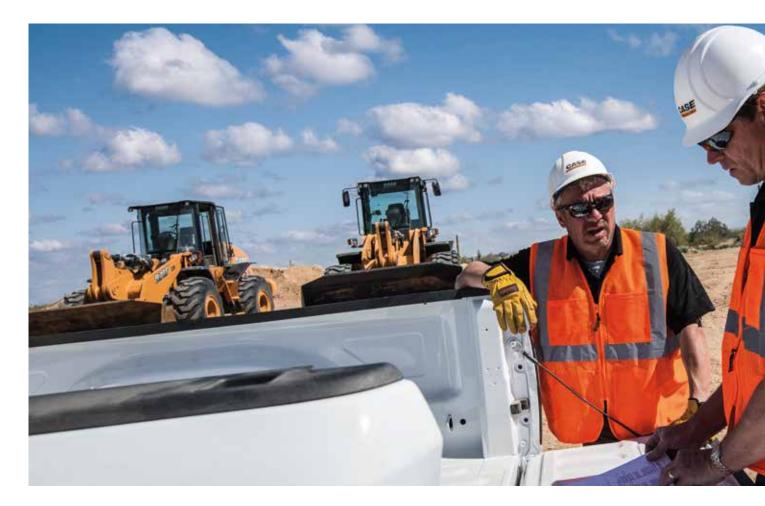


GREATER SAFETY

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







THE CASE DEALER: YOUR PROFESSIONAL PARTNER

Your success starts with world-class Case machinery and attachments.

Your Case dealer will help you work smarter and faster by selecting equipment that delivers performance and operator comfort.

Your dealer has the knowledge and experience necessary to help you choose the right attachments so you can...

- Work faster and extend equipment life.
- Increase machine utilization.
- Increase your capabilities.

Let your Case dealer service your machine on the jobsite.

You'll be back on the job faster.

Advantages include...

- Responsive job site service to keep your equipment running.
- Increase machine uptime.
- Certified service staff and improved parts availability.



PARTS

When you're looking for superior parts options to maximize the performance and lower the operating costs of your Case machinery, turn to CNH Industrial Genuine Parts to keep you equipped for success.

CNH Industrial Genuine Parts fit better, install faster and last longer and in an industry where "high impact" and "heavy lifting" are the norm, the smallest mechanical differences can lead to big problems.

CNH Industrial Genuine Parts from Case are manufactured from superior materials and specifically designed for Case construction equipment to continually and reliably withstand the punishment of everyday construction. So steer clear of mechanical problems and future breakdowns, by choosing CNH Industrial Genuine Parts from Case. They're the only parts that are field-tested and proven to keep your Case equipment performing its best.

SERVICE. RELY ON CASE TO DELIVER FOR YOU

Your commitment to your operation is evident every day, but that doesn't minimize the enormous pressure you face to reduce operating costs and improve productivity. So when you're on the job, make sure you have top-notch service and support of Case behind you every step of the way.

With our factory trained technicians, you can ensure that top-notch service professionals are working on your maintenance needs, so you can focus on your business and the big job challenges ahead, not on the tasks of servicing your equipment.

With your Case Service, you get more than mere oil changes. A Case Service ensures your Case equipment receives a thorough service that meets all requirements of its service schedules and properly maintains it for the day-in, day-out punishment of construction work.

Don't give another thought to time-consuming maintenance tasks. Simply rest easy and make certain that your service needs are taken care of by a Case factory trained technician.



When the unexpected occurs, you need to know your equipment is protected.

At Case Construction we understand the importance of your machinery being in good working order when it counts.

ProCover is designed to help keep your equipment working well beyond the manufacturer's base warranty period while taking away the concerns of the cost and inconvenience of mechanical failure.

WHAT ARE THE ADVANTAGES OF PROCOVER?

PEACE OF MIND

Provides protection beyond the Manufacturer's Base Warranty Period.

FLEXIBLE OPTIONS

Plans can be customised to meet individual needs.

DEPENDABLE SERVICE

Eligible repairs completed by an authorised Case Construction Dealership and their trained service technician's using genuine OEM parts & lubricants.

TRANSFERABLE PROTECTION

New Equipment Plans may be transferred to a new owner at no charge

COVERAGE

STANDARD

PROTECTION PLAN 3 Years / 5000 Hours

Additional years/hours can be purchased. Please contact your local Case Construction dealer for further information.



STANDARD PROCOVER PLUS PROTECTION PLAN

CONSTRUCTION EQUIPMENT MASTER PARTS SCHEDULE

This plan provides coverage for the components listed below when a failure occurs due to a defect in material or workmanship, and may provide coverage for additional components not listed when the damage is caused by or resulting from a covered failure of a listed component.

PREMIER COMPONENTS COVERED

Pulleys

Radiator

Thermostats

Timing Gears
Turbocharger And Gasket

Water Piping Water Pumps

Rocker Arm Assembly

Valve Cover And Gasket

Selective Catalytic Reduction System

Transmission Pump

Travel Control Valve

Undercarriage Tensioners

UNDERCARRIAGE EXCLUSIONS:

Turntable Bearing

Travel & Swing Sections (only) Of Main Control Valve

Undercarriage Roller And Idler Seals And Bearings

Sprocket, Tracks, Pads, Bolts, Chains, Or Any Failure

Due To Wear, Or Breakage Caused By Wear

ENGINE AND ALL INTERNAL LUBRICATED COMPONENTS WITHIN	TRANSMISSIONS/AXLES/HYDROSTATICS	ELECTRICAL	HYDRAULICS
Accessory Gears	Axle Housing	Alternator	Accumulator And Related Relief Valve
Air Intake Hose	Axle Shaft	Gauges	Brake Accumulator
Camshaft	Clutch Discs (Wet Only)	Horn	Brake Pressure Sensor
Camshaft Bearings	Clutch Plates (Wet Only)	Indicators	Brake Pump, Brake Valve
Camshaft Drive Gear	Control Rods	Instruments	Differential Lock Valve
Catalytic Converter	Counter Shaft Clutch	Electronic Joysticks	Fan Pumps And Motors
Charge Air Cooler	Differential Housing	Electric Motors	Hydraulic Cylinders
Cold Start Enrichment Systems	Differential Pinion Gear / Ring Gear	Factory Installed Telematics	Hydraulic Hoses and Piping
Connecting Rods & Bearings	Drive Axle Hub	Sensors	Hydraulic Motors
Crankshaft Bearings & Gear	Drive Shaft Support Bearing	Solenoid Valves	Hydraulic Oil Coolers
Crankshaft Including Front And Rear Crankshaft Seals	Drive Shaft with Universal Joints	Starter And Starter Solenoid	Hydraulic Pumps
Cylinder Heads/ Head Gaskets	Electronic Transmission Controller and Valve	Switches	Hydraulic Reservoir
Cylinder Liners	Enclosed Oil Immersed Chains and Sprockets	Traction Control System	Hydraulic Valves
Diesel Exhaust Fluid Tank and Dispensing System	External Oil Lines	Voltage Regulator	Internal O-Rings and Bonded Washers
Diesel Particulate Filter	Filler Tubes (Transmission)	Wiring Harnesses	Pilot Control
EGR System Manifold	Final Drive Pinion	Wiring Harnesses Exclusions	Pressure Reducing Valves
Electronic Engine Control Module	Final Drive Planetary Gears	Rubbing, Chafing, Loose Or Corroded Connections	Unloading Valves
Engine Block	Front Wheel Drive Sensors	FACTORY INSTALLED HEATAND AIR CONDITIONING	STRUCTURAL
Engine Mounts And Supports	Hydraulic Drive / Travel Motor	Accumulator	Backhoe Booms
Engine Oil Cooler	Hydraulic Drive Pump	Clutch	Backhoe/Excavator Dipper Sticks
Engine Speed Controls, Linkages, and Cables	Hydraulic Transmission-Control Valve	Compressor	C Frame
Exhaust Manifold and Muffler	Hydrostatic Motor	Condenser	Car Body
Fan And Fan Drive	Hydrostatic Transmission Charge Pump	Dryer	Chassis
Filter Mount	Hydrostatic Transmission Pump	Evaporator	Circle Frame
Flywheel, Ring Gear	Hydrostatic/Hydraulic Pump Drives	Expansion Valve	Engine Frame
Front And Rear Engine Covers And Seals	Internal Lubricated Clutch Housings	Heater Core	Equipment Frame
Front Damper	Internal Transmission Control Linkage	Hoses	Excavator Booms
Fuel Lines	Internal Wet Service Brakes	Pulley	Falling Object Protection Structure (FOPS)
Fuel Tank	MFWD Axle/Differential Assembly including Driveshaft and U Joint	Seals & Gaskets	Forklift Masts
Fuel Transfer Pump & Gasket	Planetary Gear Carrier	Temperature Control Programmers and Valves	Inner and Outer Dipper Arms of the Extendable Boom (Backhoe Loader)
Injection Pump	Pneumatic Valves	OPERATOR AREA	Main Frame
Injectors	Rotary Hydraulic Manifold	Covers and Panels	Rollover Protection Structure (ROPS)
Intake and Exhaust Manifold And Gaskets	Splitter Drive/Drop Box	Exterior/Interior Door/Panel Latches, Hinges & Struts	Swing Frame
Oil Filler Tube	Steering Clutches (Wet)	Exterior/Interior Moldings	Swing Tower Castings (Backhoe Loader)
Oil Lines	Swing Motor And Swing Gear Box	Knobs for Switches and Handles	Track Frame
Oil Pan And Gasket	Torque Converter	Mirrors	Wheel Loader/Skid steer Loader Arms
Oil Pump	Torque Converter Pump	Seat Frame & Suspension	
Pistons & Rings	Transfer Drive		
Pre-Cleaner/Air Cleaner Housing	Transmission Case		
Pressure/Temperature Sensors & Sending Units	Transmission Gears, Bearings, & Shafts		

F-SERIES WHEEL LOADERS

621F

PRODUCTIVITY (50 meter distance cycle)

Considering density at 1,8 t/m³ and 1 52 cycles/hour including 5 minute br with 2.4 m³ bucket	00% fill factor eak 52 loading cycles/h 125 m³/h or 225 t/h of material
ENGINE	
Make	FPT engine F4HE9687H compliant with
Normalia and and in dama	EPA Tier3 or EU Stage 3A regulations
Number of cylinders	6 cylinders -6.7 liters - common rail
•	128 kW / 172 hp @1800 rpm
Maximum torque SAE J1995	730 Nm @1600 rpm
TRANSMISSION	
All-wheel drive with planetary ayles	

All-wheel drive with planetary axles
4-speed auto Powershift ZF type 4WG160, switchable to manual shifting
Adjustable transmission declutch
forward speeds: 7-13-24-39 Km/h
reverse speeds: 7-14-25 Km/h
Kick-down function

Axles and differential 29% Limited slip differential on front and rear axles Front and rear axle ZF type MT

TIRES

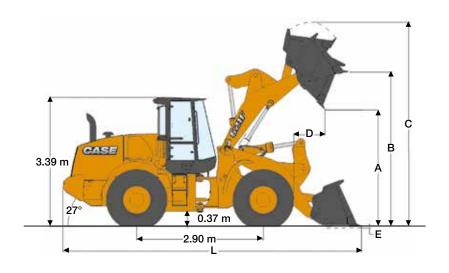
Tires 20.5R25

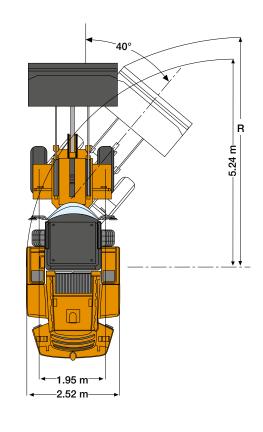
HYDRAULICS

ValvesRexrot	h Closed-center, Load sensing hydraulic system.
Main valve with 3 sections	
	ne steering orbitrol hydraulically is actuated with priority valve
Type of pump	Tandem Variable displacement pump
A to control of the Port of the	(171 l/min @250 bar)
Automatic hydraulic function	\$
- Bucket Return-to-dig	
- Boom Return-to-travel	T /
- Auto.lift (to adjustableheigh	
	Pilot control with single joystick or two levers
CAPACITIES	
	248 usable litres
Cooling system	26.8 litres
Engine oil	13 litres
Hydraulic oil	Tank: 91 litres, total system: 148 litres
Iransmission oil	27 litres
CAB	
Cab complies to:	
Protection against falling obj	ects (FOPS) ISO EN3449
Protection against roll over (F	ROPS) ISO EN13510
Air flow	8.5 m ³ / min spread through 17 air vents
NOISE AND VI	BRATION
Driving noise in dB (A) 82 to	SAE J88 @ 15 meters
Interior noise	71 dB(A) as per ISO 6595/6396/3744
Exterior noise	71 dB(A) as per ISO 6595/6396/3744 72 dB(A) at 15 meters as per SAE J88 SEP80
	103 dB (A) according to ISO 6595/6396/3744
Reverse gear alarm	
Vibrations	air-cushioned seat MSG 95A/732
	average 1,4 m/s 2 as per ISO/TR 25398:2006
ELECTRICAL	
24V. Batteries 2 x 12V.	•

SPECIFICATIONS

GENERAL DIMENSIONS





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

			Z-bar	XT Buckets
	621F		2.14 m3	1.9 m3 w/QC
	Bucket with bolt on :		edge	edge general purpose
	Bucket volume (heaped)	m3	2,05	1,9
	Bucket Payload	kg	4436	3747
	Maximum material density	ton/m3	1954	2
	Bucket outside width	mm	2602	2605
	Bucket weight	kg	902	1265
	Tipping load - straight	kg	107	8590
	Tipping load - Articulated at 40°	kg	8872	7493
	Breakout force	kg	11533	10339
	Lift capacity from ground	kg	11224	13633
Α-	Dump height at 45° at full height	mm	2847	2737
В-	Hinge pin height	mm	3831	3958
C -	Overall height	mm	4956	5353
D -	Bucket reach at 45° full height	mm	969	1304
E -	Dig depth	mm	80	64
L-	Overall length with bucket on the ground	mm	7315	7679
R -	Turning radius to front corner of the bucket	mm	5.75	5.9
	Bucket rollback in carry position	0	23	58
	Dump angle at full height	0	55	55
	Machine operating weight	kg	12116	12562

F-SERIES

WHEEL LOADERS

721F

PRODUCTIVITY (50-meter distance cycle)

Considering: density: 1,8 t/m³, fill factor: 100%, 52 cycles/hour and each hour includes a 5-minute break ______140 m³/h or 280 t/h 52 loading cycles/h with standard bucket 2.7 m³ or 5.4 ton

ENGINE TIER 3

Compliant with Tier 3 (EU stage 3a)

FPT turbocharged engine F4HE9684F*J with:

- 100% fresh air combustion
- Air to Air intercooler
- 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 -6,7 liters

Max power SAE J1995 ______ 145 kW / 195 hp @2000 rpm Maximum torque SAE J1349 ______ 862 Nm @1400 rpm

TRANSMISSION

All-wheel drive with planetary axles

Kick-down function

4-speed torque converter

4-speed auto Powershift switchable to manual shifting

ZF, switchable to manual shifting

forward speeds ________ 8-13-25-37 Km/h
reverse speeds _______ 8-13-26 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 guaranted on the wheel(s) with traction

Front and rear ZF Heavy Duty axles (options) with Open Differential Excellent traction:

Limited slip differential front and rear _____ when one wheel slips 73% of the available axle torque is guaranted on the other wheel

Front ______Heavy Duty axle +(ZF type MT-L3085-II)

Rear ______standard axle (ZF type MT-L3075-II)

Rear axle total oscillation ______ 24

TYRES

Tyres______20,5R25

BRAKES

Service brake ____Maintenance free, self-adjusting wet 4-wheel disc brakes
Area ______0.39 m²/hub
Parking brake ____Disc brake on transmission activated from the cab cluster
Area ______82 cm²

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
(206 l/min @2000 rpm)

Automatic hydraulic functions

- Bucket Return-to-dia
- Boom Return-to-travel
- Auto.lift (to adjustableheight)

Control type _____ Pilot control with single joystick or two levers

CAPACITIES

Fuel tank	246 usable litres
Cooling system	28 litres
Engine oil	15 litres
Hydraulic oil	Tank: 91 litres, total system: 180 litres
Transmission oil	34 litres

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

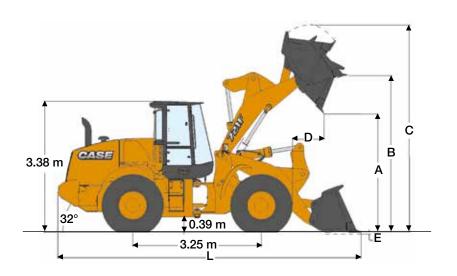
ELECTRICAL SYSTEM

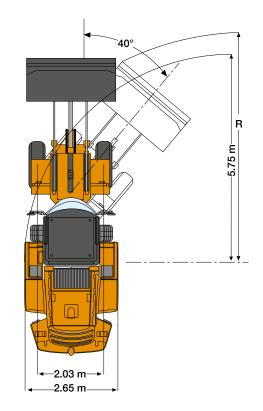
24V. Batteries 2 x 12V.

Alternator ______ 65A

SPECIFICATIONS

GENERAL DIMENSIONS





LOADER SPEED

Raising time (loaded)	5.2 sec
Dump time (loaded)	1.2 sec
Lowering time (empty, power down)	2.5 sec
Lowering time (empty, float down)	2.4 sec

			Z-BAR BUCKETS					XT BUCKETS (PARALLEL LIFT)	
721F			2.7 m³		2.4 m ³ w/QC		2.4 m ³ w/QC		
Buck	et with bolt on:		edge	teeth	edge	teeth	edge	teeth	
	Bucket volume (heaped)	m³	2.7	2.7	2.4	2.4	2.4	2.4	
	Bucket Payload	kg	5440	5369	5299	5325	4924	4946	
	Maximum material density	ton/m³	2.0	2.0	2.2	2.2	2.1	2.1	
	Bucket outside width	m	2.73	2.73	2.47	2.47	2.47	2.47	
	Bucket weight	kg	1237	1344	1656	1619	1627	1590	
	Tipping load - straight	kg	12435	12292	11356	11405	11280	11326	
	Tipping load - Articulated at 40°	kg	10881	10738	10599	10649	9847	9893	
	Breakout force	kg	14236	12885	12185	11284	12016	11193	
	Lift capacity from ground	kg	13607	13480	13419	13462	13096	13111	
Α	Dump height at 45° at full height	m	2.93	2.86	2.82	2.74	2.77	2.69	
В	Hinge pin height	m	3.98	3.98	3.98	3.98	4.16	4.16	
C	Overall height	m	5.52	5.52	5.51	5.51	5.67	5.66	
D	Bucket reach at full height	m	1.13	1.21	1.28	1.36	1.27	1.36	
Е	Dig depth	cm	7.4	7.4	6.2	6.7	21	21.3	
	Overall length without bucket	m	6.53	6.53	6.53	6.53	6.52	6.52	
L	Overall length with bucket on the ground	m	7.65	7.76	7.83	7.95	8.12	8.24	
R	Turning radius to front corner of the bucket	m	6.3	6.4	6.3	6.3	6.2	6.3	
	Bucket rollback in carry position	0	43	43	38	38	58	58	
	Dump angle at full height	0	55	55	61	61	54	54	
	Machine operating weight	kg	14225	14532	14844	14807	14915	14878	

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

F-SERIES

HEEL LOADERS

PRODUCTIVITY (50-meter distance cycle)

Considering: density: 1,8 t/m³, fill factor: 100%, 52 cycles/hour and each hour includes a 5-minute break ___ 52 loading cycles/h with standard bucket 3.4 m³ or 6.2 ton

ENGINE TIER 3

Compliant with Tier 3 (EU stage 3a)

FPT turbocharged engine F4HE9684E*J with:

- 100% fresh air combustion
- Air to Air intercooler
- 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 -6,7 liters

Max power SAE J1995 ______ 172kW / 230 hp @1800 rpm Maximum torque SAE J1349 ______ 1184 Nm @1300 rpm

TRANSMISSION

All-wheel drive with planetary axles

kick-down function

4-speed torque converter

4-speed auto Powershift switchable to manual shifting

ZF , switchable to manual shifting forward speeds __ _ 7-12-23-37 Km/h reverse speeds 7-13-25 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 guaranted on the wheel(s) with traction

Front and rear ZF Heavy Duty axles with Open Differential

Excellent traction:

Limited slip differential front and rear when one wheel slips 73% of the available axle torque is guaranted on the other wheel

Front _____ Heavy Duty axle +(ZF type MT-L3095-II) ____standard axle (ZF type MT-L3085-II) Rear

Rear axle total oscillation ______ 24°

TYRES

BRAKES

Service brake	Maintenance free, self-adjusting	wet 4-wheel disc brakes
Area		0.39 m²/hub
Parking brake	_Disc brake on transmission activ	ated from the cab cluster
Area		82 cm ²

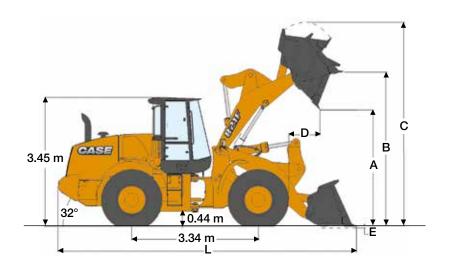
HYDKAULI	G
Valves	Rexroth Closed-center, Load sensing hydraulic system Main valve with 3 sections
Steering	Main vaive with 3 sections The steering orbitrol hydraulically is actuated with priority valve
Type of pump	Tandem Variable displacement pump (240 l/min @2000 rpm
Automatic hydraulic fu - Bucket Return-to-diq - Boom Return-to-trav - Auto.lift (to adjustabl Control type	nctions I el
CAPACITIE	S
	288 usable litres 30 litres
Fngine oil	15 litres
Hydraulic oil	15 litres Tank: 91 litres, total system: 180 litres
Transmission oil	34 litres
CAB AND	CONTROLS
For you safety the cab	
protection against rai	ing objects (FOPS) ISO EN3449 over (ROPS) ISO EN13510
	VIBRATION
Interior noise	82 to SAE J88 @ 15 meters
Exterior noise	72 LpA as per ISO6395/6396/3744 71 dB(A) at 15 meters as per SAE J88 SEP80
	103 LwA according to ISO6395/6396/3744
Switchable reverse ge	· ·
	air-cushioned seat MSG 95A/732
	average 1 4m/s2 as per ISO/TR 25398:2006

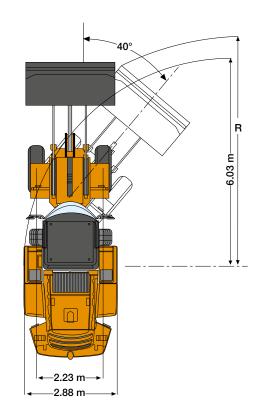
ELECTRICAL SYSTEM

24V. Batteries 2 x 12V. Alternator _____ 65A

SPECIFICATIONS

GENERAL DIMENSIONS





LOADER SPEED

Raising time (loaded)	6.2 sec
Dump time (loaded)	1.2 sec
Lowering time (empty, power down)	2.9 sec
Lowering time (empty, float down)	2.5 sec

					Z-BAR B	UCKETS		
821F			3.4	m³	3.2	m³	2.8	m³
Buck	et with bolt on:		edge	teeth	edge	teeth	edge	teeth
	Bucket volume (heaped)	m³	3.42	3.24	3.20	3.10	2.8	2.5
	Bucket Payload	kg	6146	6268	6184	6295	6274	6478
	Maximum material density	ton/m³	1.80	1.94	1.93	2.03	2.24	2.59
	Bucket outside width	m	2.95	2.95	2.94	2.94	2.95	2.94
	Bucket weight	kg	1550	1460	1520	1430	1366	1276
	Tipping load - straight	kg	14203	14465	14284	14523	14465	14917
	Tipping load - Articulated at 40°	kg	12293	12536	12367	12590	12547	12955
	Breakout force	kg	15076	16133	15473	16676	17751	19180
	Lift capacity from ground	kg	17976	18137	18055	18201	18263	18559
Α	Dump height at 45° at full height	m	2.94	2.86	2.96	2.88	3.06	2.99
В	Hinge pin height	m	4.12	4.12	4.12	4.12	4.12	4.12
C	Overall height	m	5.49	5.49	5.45	5.45	5.29	5.29
D	Bucket reach at full height	m	1.17	1.13	1.15	1.27	1.02	1.14
Е	Dig depth	cm	7	5	7	5	7	5
L	Overall length with bucket on the ground	m	7.94	8.06	7.90	8.03	7.74	7.86
	Overall length without bucket	m	6.78	6.78	6.78	6.78	6.78	6.78
R	Turning radius to front corner of the bucket	m	6.6	6.7	6.6	6.6	6.6	6.6
	Bucket rollback in carry position	0	44	44	44	44	44	44
	Dump angle at full height	0	55	55	55	55	55	55
	Machine operating weight	kg	17694	17604	17664	17574	17510	17420

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





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NOTE: CASE provides specific outfits for various countries and many optional fittings (OPT). The illustrations on this or other leaflets may relate to standard or optional fittings. please consult your CASE dealer for any information in this regard and any possible updating on components. CNH Industrial reserves the right to modify machine specifications without incurring any obligation relating to such changes.

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