



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

NEW GENERATION ENGINE

The turbocharged FPT Industrial 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.





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.

HIGH PRODUCTIVITY DIFFERENTIAL AND AXLES



NEW HEAVY-DUTY AXLES

The new heavy-duty axles are tougher, bigger and easier to service with the 3-piece housing design. Wet multiple disc brakes made of resistant sinter bronze are located in each wheel hub.

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.





MORE PRODUCTIVITY

100% of available torque is transmitted to the wheels, delivering optimum pushing power.



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 are fewer moving components with open differentials. The result: better resale value.

LOW MAINTENANCE

COOLING DESIGN

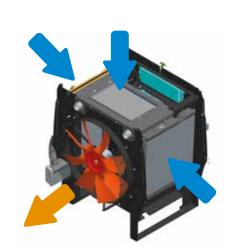


BETTER WEIGHT DISTRIBUTION WITH THE REAR MOUNTED ENGINE



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.

UPPER CLASS BUCKET PAYLOAD

Don't be surprised to notice our wheel loader has the same payload as a competitive model of the upper class of weight: this happens because the rear engine position allows to reduce significantly the amount of dead weight in the machine.

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

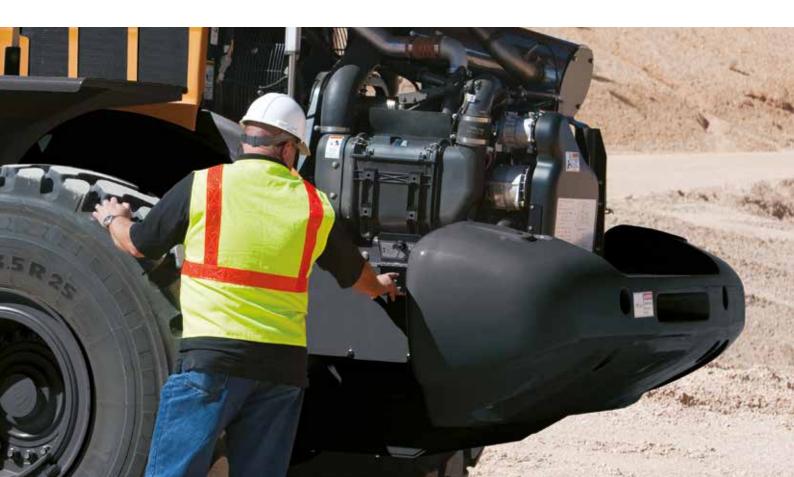


Grouped drains



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

921F

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 _____210 m³/h or 375 t/h 52 loading cycles/h with standard bucket 4.0 m³ or 7.2 ton

ENGINE TIER 2

compliant with Tier 2 (EU stage II regulations) FPT turbocharged engine F4HFA613D with:

- 100% fresh air combustion
- Air to Air intercooler
- 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 ______ 190kW / 255 hp @1800 rpm Maximum torque SAE J1349 ______ 1300 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

Adjustable transmission declutch

AXLES AND DIFFERENTIAL

Front and rear ZF Heavy Duty axles with 100% front auto-lock differential. (100% of available torque is always guaranteed on the front wheels)

Rear axle total oscillation ______ 24'

TYRES

Tyres 23. 5R25

BRAKES

Service brake	Maintenance free,
	self-adjusting wet 4-wheel disc brakes
Area	0.47 m ² /hub
Parking brake	Disc brake on transmission
	activated from the cab cluster
Area	82 cm ²

HYDRAULIC

Valves Rexroth	Rexroth Closed-center, Load sensing hydraulic system.		
Main valve with 3 sections			
Steering	The steering orbitrol is hydraulically		
actuated with priority valve			
Type of pump	Tandem Variable displacement pump		
(282 l/min @2000 rpm)			
Automatic hydraulic functions			
- Bucket Return-to-dig			
- Boom Return-to-travel			
- Auto.lift (to adjustableheight)			
Control type	Pilot control with single joystick or two levers		

CAPACITIES

Fuel tank	288 usable litres
Cooling system	30 litres
Engine oil	15 litres
Hydraulic oil	Tank: 110 litres, total system: 200 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

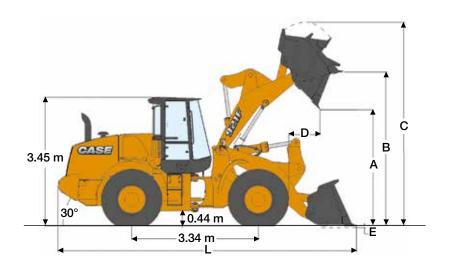
ELECTRICAL SYSTEM

24V. Batteries 2 x 12V.

Alternator _______ 65A

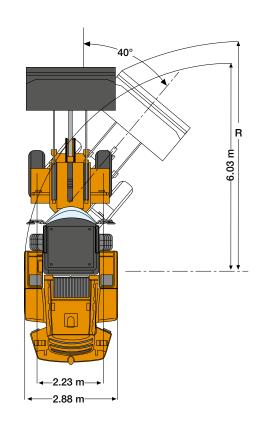
SPECIFICATIONS

GENERAL DIMENSIONS





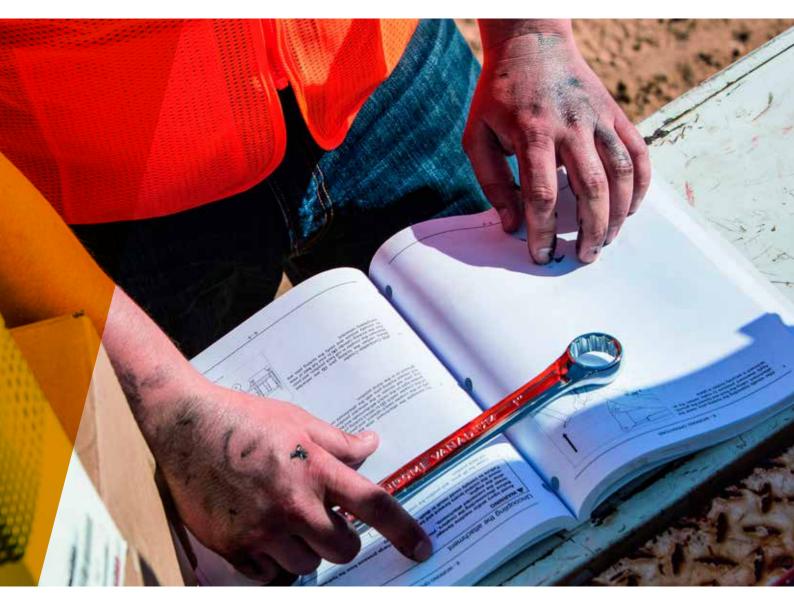
Raising time (loaded)	6.2 sec
Dump time (loaded)	1.4 sec
Lowering time (empty, power down)	3.8 sec
Lowering time (empty, float down)	3.1 sec



				Z-BAR
921F				3.6 m ³
Buck	et with bolt on:		edge	teeth
	Bucket volume (heaped)	m³	3.63	3.51
	Bucket Payload	kg	7123	7233
	Maximum material density	ton/m³	2.0	2.1
	Bucket outside width	m	3.03	3.03
	Bucket weight	kg	1783	1715
	Tipping load - straight	kg	16579	16820
	Tipping load - Articulated at 40°	kg	14245	14465
	Breakout force	kg	17034	18203
	Lift capacity from ground	kg	21148	21739
A -	Dump height at 45° at full height	m	2.9	2.81
В-	Hinge pin height	m	4.12	4.12
C -	Overall height	m	5.58	5.58
D -	Bucket reach at full height	m	1.19	1.30
E -	Dig depth	cm	8	8
L-	Overall length with bucket on the ground	m	7.98	8.12
	Overall length without bucket	m	6.78	6.78
R-	Turning radius to front corner of the bucket	m	13.34	13.42
	Bucket rollback in carry position	0	44	44
	Dump angle at full height	0	47	51
	Machine operating weight	kg	19857	19789

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





PARTS AND SERVICE

Wide network of customer support across the world.

No matter where you work, we're here to support and protect your investment and exceed your expectations. You can count on CASE and your CASE dealer for full-service solutions-productive equipment, expert advice, flexible financing, genuine CASE parts and fast service. We're here to provide you with the ultimate ownership experience. To locate a CASE dealer or learn more about CASE equipment or customer service, go to www.casece.com

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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