



**CASE**  
CONSTRUCTION

# WHEEL LOADER

## W20F







# NEW VERSION, LOWER OPERATING COST AND GREATER EASE OF MAINTENANCE.

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**CASE** W20F wheel loader is the most recommended for the segment, which is the most disputed on the market. Designed to face the most severe working conditions, **CASE** W20F stands out for its robustness, great load capacity and ease of operation.

Its cabin is spacious. ROPS / FOPS certified, its design provides wide operator visibility, with air conditioning, heating, simple and smooth commands.

W20F is a set capable of meeting all your needs, that you cannot find in any other machine. In addition, it offers ease of maintenance and the best technical assistance on the market.

Simplicity and ease of operation increase productivity.



# POWER, CONTROL, AGILITY, GET IT ALL

## RELIABILITY AT ANY APPLICATION

CASE W20F is agile, powerful and robust. Therefore, it guarantees optimum productivity in the most severe working conditions. It has characteristics that provide excellent versatility and incomparable performance in any operation. The fertilizer version, designed for corrosive environments, has special paint, electrical components and circuits protected, a closed cabin with air conditioning and a bucket dimensioned for handling fertilizer (2.3 m³).

## ARTICULATED SYSTEM

The XT tool holder allows better visibility to the bucket and provides parallel lift (which keeps the material level during the loading and unloading process).

## EXCELLENT STABILITY

W20F rear axle oscillates to a maximum angle of 24 degrees, allowing the rear wheels to maintain contact with the ground in undulating terrain. This system enhances overall safety and load retention.

## ARTICULATION

At 40°, it allows maneuvers in shorter spaces. The articulation cylinders are located at the top of the chassis to avoid collisions with external components. The center pivot system allows the front and rear wheels to travel the same path.

## POWERSHIFT TRANSMISSION

The transmission is Powershift type and is mechanically operated. This system offers load neutralization (Declutch), which is activated through a button on the panel. When activated, just press the brake pedal to instantly transfer more power from the engine to the loader. This ensures faster lift cycles with a full bucket.

## AXLES

CASE W20F is equipped with axles for severe application. The front and rear HD axles have a slipping limiter (Limited Slip), which increases productivity, traction capacity and tire lifecycle. In addition, the equipment provides greater traction capacity in situations of low adherence.

## BRAKES

The oil bath disc braking system is actuated by a single pedal and by hydraulic activation. This system guarantees better control and braking efficiency. Each brake circuit is equipped with a nitrogen accumulator, which guarantees greater braking efficiency and safety, since it allows the operator to brake the machine after turning off the engine.





# EXTERNAL NOISE AND IMPROVEMENTS OF COOLING SYSTEM

## EGR TECHNOLOGY AND ADVANCED COOLING

W20F wheel loader is equipped with a 152 hp, FPT N67 Tier 3, mechanical, turbo engine, that offers high torque, high performance and reliability. This engine has no electronic components, which makes its design simpler and reduces maintenance costs.

As a result, the following benefits are obtained:

- Mechanical engine with simple design and without electronic components
- Noise reduction at idling speed and less external noise.
- Higher productivity (more torque), 13% more than the previous model (W20E)

EGR system lets the engine do what it does best – run at peak performance. This gives the faster throttle response operators want while also maintaining low exhaust temperatures and improving fuel economy compared to previous CASE W20 versions.

## COOLER MACHINES = GREATER EFFICIENCY

The cooling system design is cube-shaped. This ensures that all radiators have access to fresh, clean air. In addition, it eliminates the accumulation of debris and facilitates access for routine cleaning. The optional reversing fan minimizes even more the risk of clogging, decreasing the need for manual cleaning and increasing the cleaning interval for radiators.



### W20F COOLING BOX

The CASE cooling box is located at the rear of the machine. A hydraulically oriented fan offers excellent access to all radiators. Removable side panels provide ground-level access to engine components and routine maintenance.



# OPERATOR'S COMPARTMENT

## SIMPLICITY AND BETTER VISIBILITY

CASE W20F cab is spacious, simple and offers wide visibility in all directions. Mounted on the front chassis, it follows the movement of the machine, providing better visibility of the load and greater precision at work. Safety is guaranteed by the ROPS / FOPS structure, which protects the operator in the event of a rollover and objects falling over the cab.

## EASY ACCESS TO EVERYTHING

- |                              |                             |              |
|------------------------------|-----------------------------|--------------|
| 1 ROPS/FOPS Cab              | 4 Panel                     | 7 Air filter |
| 2 Parking brake              | 5 Air conditioning          |              |
| 3 Single lever or two levers | 6 Battery disconnect switch |              |



# MAINTENANCE MADE EASY

CASE W20F has a new design that facilitates access to the engine compartment through 2 articulated doors and without the need to remove it. This reduces maintenance time by up to 4 times, compared to previous versions. As a standard item, it offers the new cooling box; as an option, the new reversible fan.

- 4 times longer radiator cleaning interval
- Better access and efficiency. All radiators receive fresh air
- Increased cooling capacity, which increases component lifecycle and improves performance
- Maintenance times 4 times shorter
- Easiest maintenance of category
- High liquidity and resale value

## EASY ACCESS TO EVERYTHING

- |                 |   |
|-----------------|---|
| 8 Access door   | 11 Counterweight  |
| 9 Battery boxes | 12 Standard buckets (1.91 m³)<br>Fertilizer version (2.30 m³) |
| 10 Diesel tank  |   |





# SPECIFICATIONS

## AND DIMENSIONS

SPECIFICATIONS W20F	Bucket 1,7 m³ (2,25 yd³) XT Lift Arm Pin-On with Teeth	Bucket 1,91 m³ (2,5 yd³) XT Lift Arm Pin-On with Teeth	Bucket 2,3 m³ (3,0 yd³) XT Lift Arm Pin-On with Teeth
Engine	FPT F4GE9684T*J601	FPT F4GE9684T*J601	FPT F4GE9684T*J601
Emissions Certification	Tier 3	Tier 3	Tier 3
Displacement – l (cm³)	6,7 (6.700)	6,7 (6.700)	6,7 (6.700)
Cylinders	6	6	6
Gross Horsepower – hp (kW)	152 (113)	152 (113)	152 (113)
Gross Torque – Nm (kgf.m)	556 (56.7)	556 (56.7)	556 (56.7)
Transmission - Speeds F/R	4/4	4 / 4	4 / 4
Operating Weight – kg (lb)	9.959 (21,956)	10.050 (22,156)	10.133 (22,339)
Operating Load – kg (lb)	3.008 (6,632)	3.054 (6,733)	2.992 (6,596)
Breakout force – kg (lb)	8.064 (17,778)	8.126 (17,914)	7.309 (16,113)
Tipping Load - Articulated at 40°	6.016 (13,263)	6.108 (13,465)	5.984 (13,192)
Bucket Capacity - Struck (SAE) - m³ (yd³)	1,42 (1.85)	1,60 (2.09)	1,90 (2.48)
Bucket Capacity - Heaped - m³ (yd³)	1,72 (2.25)	1,91 (2.5)	2,30 (3.0)
Max. Material Density ISO – kg/m³ (lb/yd³)	1.749 (2,948)	1.599 (2,695)	1.301 (2,192)
DIMENSIONS W20F	Bucket 1,7 m³ (2,25 yd³) XT Lift Arm Pin-On with Teeth	Bucket 1,91 m³ (2,5 yd³) XT Lift Arm Pin-On with Teeth	Bucket 2,3 m³ (3,0 yd³) XT Lift Arm Pin-On with Teeth
Height to Top of ROPS Cab – mm (ft in)	3.204 (10' 6")	3.204 (10' 6")	3.204 (10' 6")
Height to hinge pin totally raised – mm (ft in)	3.561 (11' 8")	3.561 (11' 8")	3.561 (11' 8")
Dump Height at max. dump Angle - Full height – mm (ft in)	2.384 (7' 9")	2.392 (7' 10")	2.314 (7' 7")
Operating height – mm (ft in)	4.676 (15' 4")	4.795 (15' 8")	4.879 (16')
Bucket reach at max. dump angle - Full height – mm (ft in)	994 (3' 3")	988 (3' 2")	1.045 (3' 5")
Wheelbase – mm (ft in)	2.743 (8' 11")	2.743 (8' 11")	2.743 (8' 11")
Overall length – mm (ft in)	6.938 (22' 9")	6.928 (22' 8")	7.025 (23')
Ground clearance – mm (ft in)	439 (1' 5")	439 (1' 5")	439 (1' 5")
Overall width - Exclusive of buckets – mm (ft in)	2.360 (7' 8")	2.360 (7' 8")	2.360 (7' 8")
Rear departure angle	30°	30°	30°





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