

WHEEL LOADER 921E-921EXR



ERGONOMIC OPERATOR STATION

Longer and wider isolation-mounted E series cab has full height glass for maximum visibility around the machine. The cab door and right hand window can be opened 180° for cross ventilation and numerous air diffusers provide heating and ventilation all around the cab. Fully adjustable seat and steering column and standard single lever loader control ensure optimum comfort for all operators. Ergonomically designed switchgear and central console provide clear information and ease of use.

Operator comfort. Maximise productivity.

ECONOMICAL POWERHOUSE

The 921E is powered by an electronically-controlled, Euro III compliant 11 litre engine offering multiple power curves to boost productivity and ensure optimum economy. Max, standard, economy and auto working modes fine tune the machine to the task, providing power for loading and digging with low fuel consumption for lighter stockpiling duties. Auto mode automatically adjusts engine power to move the maximum amount of material per litre of fuel. Power to perform. Low emissions and consumption.

EXCELLENT SERVICE ACCESS

All daily checks can be performed from ground level, with fluid sight gauges on all reservoirs. Electrically raised single piece canopy provides unrivalled access for service and maintenance. Revised cooling pack has separate access panel and swing-out air conditioning condenser for easy cleaning. Extended service intervals and ease of maintenance result in lower ownership costs and improved productivity.

Reduced downtime.

Cost effective operation.



ENHANCED VISIBILITY

Redesigned front wheel arches, increased glass area in the cab and a contoured single-piece engine cover provide excellent levels of visibility all around the working area, improving safety on site. Engine air pre-cleaner now placed in line with exhaust stack for maximum rear visibility. Full height glazing to the front and sides ensures a good view to the wheels and bucket corners. Safe operation. Increased production.

ESSENTIAL CONTROL

Ride Control reduces shock loading in the loader arm and bounce in the cab when travelling. Increases operating speed and reduces cycle times for load and carry operations. Auto mode automatically engages Ride Control at speeds over 5 km/h to maintain maximum load retention.

Faster operation. Total performance.

EXTRA BREAKOUT

Robust Z-bar loader linkage design and pressure-compensating hydraulics deliver superior breakout forces and lift capacity, boosting productivity and reducing cycle times. Single loader control lever incorporates forward/reverse and transmission downshift buttons, putting the controls at the operator's fingertips at all times.

Optimum output. Complete control.



AWARDED

- Potencia 2007 award, in the wheeled construction equipment category
- Diesel Progress magazine, in cooperation with ZF, honored Case with the First Excellence in Equipment Engineering award, in the wheel loader category for the 921E



The 921E is powered by a Tier III compliant 11 litre Cummins engine, offering a maximum output of 297 hp (221 kW) at 1800 rpm. Multiple power curves controlled by a working mode system offer a standard net power rating of 274 hp (204 kW) and an economy mode output of 229 hp (171 kW) at only 1400 rpm. Auto mode automatically adjusts the engine output to meet the needs of the machine in varied operating conditions. Electronic fuel injection with high injection pressures allows cleaner, more efficient burning, for increased output and reduced emissions and fuel consumption.



The 921E has an ergonomically designed cab that is far larger than on its predecessor. Pillarless top to bottom glazing to the front and both sides of the cab offers an excellent view of the bucket corners or attachment.

Redesigned front fenders ensure that the operator has a clear view of the front wheels, aiding manoeuvrability and making the machine easier to place accurately, boosting productivity. Powerful windscreen wipers keep the main window clear in all weathers and the new fenders prevent muck from the wheels being thrown onto the windows.

The 921E has a central control console that is easy to read and its compact dimensions ensure a clear view to the lift arms and bucket link, leading to safe operation in all site conditions.



At the rear of the engine air pre-cleaner and exhaust stack are positioned in line in the centre of the engine canopy to increase visibility over the back of the machine. The 921E has a contoured one-piece engine cover that drops away from the line of sight to give an excellent view behind the operator. Slim cab pillars provide high levels of visibility to the rear three-quarters of the 921E. This is essential for a wheeled loader operator in a stocking and loading operation, promoting safety in all operating conditions.

A rear windscreen wiper is standard, ensuring that the view to the rear of the machine stays clear whatever the weather.





The ergonomically designed Case wheel loader can be specified with Ride Control, a system that allows the lift arms to float when the machine is moving. This reduces shock loadings on the operator and the machine, reducing fatigue and prolonging component life. Ride Control allows the operator to drive at higher speeds during load and carry operations, offering excellent load retention of material, for maximum productivity.

The system has three operating modes, fully on, off, to allow full hydraulic power during loading and digging operations, and an automatic setting, that engages Ride Control when the machine accelerates above $5~\rm km/h$.



The 921E uses a torque sensing autoshift transmission, offering manual or fully automatic control. Both axles incorporate limited slip differentials for maximum traction when digging and loading. Axles feature optional oil coolers with continuous flow and filtration. Disc brakes are oil cooled for maximum retardation and reduced heat build-up, prolonging brake component life and reducing operating costs.

The machine's low effort servo lever incorporates a quick shuttle switch for rapid directional changes while working.



A large, single-piece electric engine canopy offers unparalleled service access to the engine and cooling pack. All daily checks can be carried out from ground level, thanks to sight gauges on all fluid reservoirs.

A hydraulically driven fan, with swing out fan guard, offers a reversing function to blow dust and debris from the cooling pack. Thanks to a swing out air conditioning condenser all coolers can be easily accessed for cleaning and visual checks. Centrally located greasing points provide easy access and bucket pin seals prevent debris infiltration, prolonging component life. The Case 921E is fully compatible with the Case EST electronic service tool, providing rapid diagnostics and fault checking to minimise downtime. All electronics are centrally located within the cab to ensure that they remain clean and out of harm's way.







SPECIFICATIONS

ENGINE

M 110	O : OOM 44 T: III :: (*)
	Cummins QSM 11, Tier III certified
Туре	6 cyl, turbocharged and air-to-air cooled
Bore/Stroke	125 X 147 mm
Displacement	10.8
Fuel injection	Electronic
Fuel filter	Replaceable, full flow spin-on cartridge
Fuel cooler	
Air filterD	ry type element w/warning restriction indicator
Pump operati	ng angle ratings
Side-to-side _	Rated 45°
Fore and aft.	Rated 45°
Oil filtration_	Replaceable, full flow spin-on cartridge
Engine speeds	s - Rated speed, full load2100 rpm
Horsepower -	
Max Power	
Gross	320 hp (239 kW) @ 1800 rpm
Net	
Standard Pow	
Gross	297 hp (221 kW) @ 1800 rpm
Net	
Economy Pow	
Gross	
Net	
	==================================

NOTE: Gross horsepower and torque per SAE J1995. Net horsepower and torque per SAE J1349.

Torque - Peak Max Power Gross _____ 1478 Nm@ 1000 rpm Net_ _1446 Nm@ 1000 rpm Standard Power Gross _____ 1373 Nm@ 900 rpm ____1349 Nm@ 900 rpm Net Economy Power __1373 Nm@ 1000 rpm Gross ____ Net_ _____1349 Nm@ 1000 rpm Torque rise Standard power_

DRIVETRAIN

Transmission

4F/3R Proportional w/Electronic Control

Module torque sensing autoshift/manual shift and modulation ____Limited slip on front and rear axles Differential ___ Rear axle oscillation

Service brakes

Hydraulically actuated, maintenance-free, multiple wet disc to all four wheels with accumulator for each axle.

Parking brakes

Spring-applied hydraulic release disc on transmission output shaft Travel speeds - km/h with 26.5R25XHA Tires

	Forward	Reverse
1st	8.0	8.0
2nd	13.2	14.1
3rd	25.8	25.8
4th	37.4	NA

NOTE: Travel speeds at full engine throttle.

ELECTRICAL

Voltage	24 Volts, negative ground
Alternator	95 amp
Batteries _	(2) CCA 900 - 12V 750 Amp

HYDRAULICS

Pump (steering/implement)	
Closed centered pressure/flo	w compensated
Variable displacement	324.2 l/min @ 2000 rpm
·	@ 24 821 kPa

Implement pump Closed centered pressure/flow compensated Filtration

10-micron, full flow replaceable cartridges on return line, condition indicator light for filter.

CYCLE TIME

Raise w/rated bucket load	6.2 sec
Dump w/rated bucket load	3.6 sec
Lower "empty"	
Power down	3.0 sec
Float down	1.2 sec

SERVICE CAPACITIES

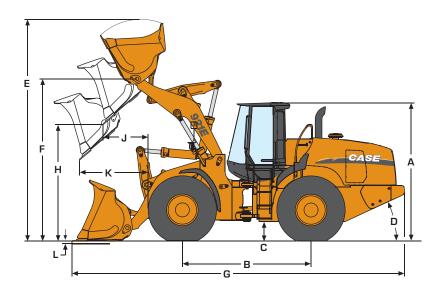
CEITTICE CALACITIES	
Fuel tank	394 I
Hydraulic system	
Total	242 I
Reservoir	130 I
Transmission	
Service with filter	39.7 l
Front and rear axle	
Front axle	47.3 l
Rear axle	47.3 l
Engine oil with filter	36.9 l
Cooling system	56.8 I

OPERATING WEIGHTS

Unit equipped with ROPS	S cab with heater and A/C ,
counterweight, 26.5R25XH	A Tires, 4.6 m ³ bucket, full fuel,
79 kg operator	23 042 kg



GENERAL DIMENSIONS 921E



DIMENSIONS

A Height to top of ROPS cab mm	3700
B Wheelbase mm	3400
C Ground clearance mm	489
Angle of departure	34°
Width	
- overall* w/o bucket mm	3000
- centerline tread mm	2225
Turning radius* - outside mm	6870
Turning angle	
- from center	40°
- total angle	80°
Rear axle oscillation (total)	24°

NOTE: *Dimensions taken with 26.5-25XHAT tires.

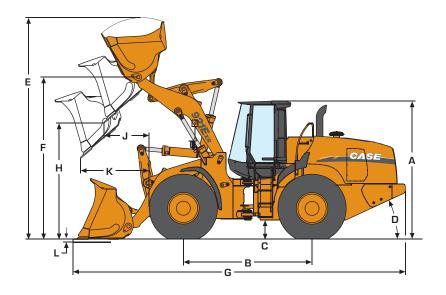
PERFORMANCE DATA 921E Z-Bar*		4.0 m ³ Bucket w/Bolt-on Edge	4.0 m ³ Bucket w/Teeth & segments	4.60 m ³ Bucket w/Bolt-on Edge	4.60 m ³ Bucket w/Teeth & segments
SAE bucket capacity - heaped	m³	4.06	3.97	4.62	4.51
Bucket width - outside	mm	3021	3047	3071	2198
Bucket weight	kg	2146	2270	2270	2399
E Operating height - fully raised w/spillguard	mm	5833	5833	5893	5893
F Hinge pin height - fully raised	mm	4278	4278	4278	4278
G Overall lenght - bucket level on ground	mm	8756	8896	8815	8955
Dump angle - fully raised		55°	55°	55°	55°
H Dump height - fully raised, 45° dump	mm	3110	3012	3067	2969
J Bucket reach - fully raised, 45° dump	mm	1264	1341	1286	1363
K Bucket reach - 2.13m height, 45° dump	mm	1900	1935	1904	1937
Operating load - SAE	kg	8436	8379	8325	8261
Maximum material density - SAE	t/m³	2.08	2.11	1.80	1.83
Tipping load - SAE					
- straight	kg	19604	19500	19368	19249
- 40° turn	kg	16871	16758	16649	16522
Breakout force w/ tilt cylinder	kg	20773	18819	19910	18075
Maximum rollback					
- Ground		41°	41°	41°	41°
- Carry position		43°	43°	43°	43°
- @ Maximum reach		67°	67°	67°	67°
- @ full height		63°	63°	63°	63°
L Dig depth	mm	102	127	121	146
Maximum grading angle w/ bucket - back dragging		62°	62°	62°	62°
Loader clearance circle (to front corner of bucket)	mm	13570	13682	13653	13857
Unit Operating mass	kg	22918	23042	23042	23171

NOTE: Performance data unit equipped with 26.5 - 25XHAT tires, ROPS cab w/heater and A/C, standard counterweight, standard batteries, wide front and rear fenders, full fuel and 79 kg operator. Specifications per SAE J732, J1234, J695, J742, and J818.





GENERAL DIMENSIONS 921EXR



DIMENSIONS

A Height to top of ROPS cab mm	3700
B Wheelbase mm	3400
C Ground clearance mm	489
Angle of departure	34°
Width	
- overall* w/o bucket mm	3000
- centerline tread mm	2225
Turning radius* - outside mm	6870
Turning angle	
- from center	40°
- total angle	80°
Rear axle oscillation (total)	24°

NOTE: *Dimensions taken with 26.5-25XHAT tires.

	Pin	on
PERFORMANCE DATA 921E/XR	4.0 m ³ Bucket w/Bolt-on Edge	4.0 m ³ Bucket w/Teeth
SAE bucket capacity - heaped m ³	4.04	4.04
Bucket width - outside mm	3020	3057
Bucket weight kg	2147	2262
E Operating height - overall mm	6424	6424
F Hinge pin height - fully raised mm	4871	4870
G Overall lenght - bucket level on ground mm	9242	9467
Dump angle - full height	49°	49°
H Dump height - full height, 45° dump mm	3703	3552
J Bucket reach - full height, 45° dump mm	1237	1394
K Bucket reach - 2.13 m height, 45° dump mm	2334	2435
Operating load - ISO kg	6615	6539
Maximum material density - ISO kg/m ²	1638	1619
Tipping load - ISO		
- straight kg	15574	15422
- 40° turn kg	13230	13078
Breakout force w/ tilt cylinder kg	20814	17745
Maximum rollback		
- Ground	40°	41°
- Carry position	45°	45°
- @ Maximum reach	65°	65°
- @ full height	66°	66°
L Dig depth mm	103	117
Maximum grading angle w/ bucket - back dragging	62°	62°
Loader clearance circle (to front corner of bucket) mm	14103	14294
Unit Operating mass kg	23810	23926

		GP Pin on	
PERFORMANCE DATA 921E/XR		3.82 m ³ Bucket w/Bolt-on Edge	3.82 m ³ Bucket w/Teeth
SAE bucket capacity - heaped	m³	4.01	3.82
Bucket width - outside	mm	3048	3106
Bucket weight	kg	1965	1966
E Operating height - overall	mm	6444	6444
F Hinge pin height - fully raised	mm	4871	4871
G Overall lenght - bucket level on ground	mm	9248	9398
Dump angle - full height		49°	49°
H Dump height - full height, 45° dump	mm	3712	3612
J Bucket reach - full height, 45° dump	mm	1280	1386
K Bucket reach - 2.13 m height, 45° dump	mm	2380	2450
Operating load - ISO	kg	6688	6705
Maximum material density - ISO	kg/m ³	1666	1754
Tipping load - ISO			
- straight	kg	15715	15748
- 40° turn	kg	13376	13409
Breakout force w/ tilt cylinder	kg	20537	22302
Maximum rollback			
- Ground		40°	40°
- Carry position		45°	45°
- @ Maximum reach		65°	65°
- @ full height		66°	66°
L Dig depth	mm	68	76
Maximum grading angle w/ bucket - back dragging		62°	62°
Loader clearance circle (to front corner of bucket)	mm	14123	14278
Unit Operating mass	kg	23628	23629

PERFORMANCE DATA 921E/XR	4.6 m ³ Bucket w/Bolt-on Edge	4.6 m ³ Bucket w/Teeth
SAE bucket capacity - heaped m ²	4.62	4.51
Bucket width - outside mr	n 3071	3198
Bucket weight kg	2270	2399
E Operating height - overall mr	n 6485	6485
F Hinge pin height - fully raised mr	1 4870	4870
G Overall lenght - bucket level on ground mr	n 9299	9436
Dump angle - full height	49°	49°
H Dump height - full height, 45° dump mr	n 3659	3561
J Bucket reach - full height, 45° dump mr	1260	1336
K Bucket reach - 2.13 m height, 45° dump mr	n 2341	2380
Operating load - ISO kg	6496	6429
Maximum material density - ISO kg/1	n³ 1406	1426
Tipping load - ISO		
- straight kg	15316	15189
- 40° turn kg	12992	12858
Breakout force w/ tilt cylinder kg	19997	18169
Maximum rollback		
- Ground	41°	41°
- Carry position	45°	45°
- @ Maximum reach	65°	65°
- @ full height	66°	66°
L Dig depth mr	122	148
Maximum grading angle w/ bucket - back dragging	62°	62°
Loader clearance circle (to front corner of bucket) mr	14191	14403
Unit Operating mass kg	23934	24062

STANDARD EQUIPMENT & OPTIONS

STANDARD QUIPMENT

- ROPS cab w/heat
- Key start
- Articulated power steering w/tilt column
- Fully adjustable, suspension seat
- Foot throttle
- Single lever 2-spool loader control w/wrist rest
- Cup holder
- Coat hook
- (1) Interior rearview mirror
- 2 in (51 mm) retractable seat belt
- Storage tray behind seat Cooled lunch box
- Single brake pedal
- F/N/R shuttle switch
- External rear view mirrors
- Lock box
- Pressurized air filtering
- Anti-glare window strip
- Defroster
- Side window, partial/fully open
- Dome light Wipers, rear and intermittent front
- Windshield washers, front and rear
- Rubber floor mat
- Sunscreen

- Cummins QSM 11
- Tier III certified
- Selectable work modes
- Max power
- Auto power
- Standard power

Economy power

- Turbocharger
- Charge air cooling
- Integral engine oil cooling
- Fuel filter w/water trap Dual element air cleaner
- 95 amp alternator
- (2) 900 CCA 12-volt batteries
- Liquid-cooled radiator
- Non spark-arresting muffler
- Unit injector

- Z-bar loader linkage Single control for lift and tilt
- Positive hold float.
- Automatic return-to-dig
- Automatic height control
- Automatic return-to-travel
- Brake pedal transmission disconnect
- Bucket position indicator on bucket

- Drivetrain

 4-wheel drive
- Axle coolers
- 4F/3R Selectable autoshift/manual shift transmission
- Electronic Control Module -Programmable, computer controlled proportional shifting with
- programmable gear selection Onboard diagnostics Single lever electronic shift control
- F/N/R switch in loader control handle
- Óownshift button
- Torque converter Outboard planetary axles
- Limited-slip differentials
- Transmission oil cooler

- Brake pedal transmission disconnect
- Hydraulic wet disc brakes
- Spring-applied hydraulic release parking brake
- . Limp-Home Mode
- Lubed-for-life drive shaft

- Single lever 2-spool loader control valve
- Low-effort steering
- Hydraulic driven fan
- Diagnostic quick couplers

- Electric hood lift
- Front and rear fenders
- Lights:
 - (2) Front driving headlights (high/ Ìow beam)
 - (2) Front flood
 - (2) Stop/tail lights (2) Rear flood
- Front and rear turn signal/flash
- Drawbar hitch
- Articulation locking bar
- Lift arm locking bar
- Lift and tie-down points front/rear
- Backup alarm
- RH steps and platform

OPTIONS

Operator compartment

- Cab air-conditioning w/heater
- Radio-ready (12 or 24-volt)
- Cab convenience package
- Rotating beacon

- Cold weather package
- Heavy-duty batteries

Loader

- Hydraulic attachment coupler
- Attachment auxiliary hydraulics
- Buckets

Hydraulics

- Auxiliary hydraulics
- Ride Control
- Secondary steering
- 3 or 4-spool loader valves with 2 or 3-lever loader control
- Hydraulic temperature controlled reversing fan

- 26.5 x 25 L3 Bias
- 26.5 R 25 L2 Radial
- 26.5 R 25 L3 Radial

Standard and optional equipment shown can vary by country.

Worldwide Case Construction Equipment Contact Information

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ASIA PACIFIC:

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No. 29, Industrial Premises, No. 376. De Bao Road, Waigaoqiao Ftz, Pudong, SHANGHAI, 200131, P.R.C.



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 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



Conforms to directive 98/37/CE

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