1221F

ARTICULATED WHEEL LOADER TIER 4 INTERIM CERTIFIED

ENGINE

Model	Cummins QSX 11.9
Emissions Certif	ication Tier 4 Interim
Туре	4-stroke, turbocharged and air-to-air cooled
Cylinders	6-cylinder in-line
Bore/Stroke	5.12 x 5.91 in (130 x 150 mm)
Displacement	726 in³ (11.9 L)
Fuel	DF1 and DF2, ULSD – Ultra Low Sulfur Diesel
Fuel injection	Direct injection – electronic
Fuel filter	Replaceable, full flow spin-on cartridge
Fuel pump	Cummins HP
Gradeability: Side-to-side Fore and aft	45° 45°
Air filter	2-element dry-type w/ warning restriction indicator

Mid-mount cooling module:

Mid-mount	air/	wate

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ran -	nvar	aulic	driven:

Style	9 blade puller
Diameter	34.5 in (876 mm)
Water pump	Integral

Engine oil pump operating angle ratings:

Engine oil pump operating angle ratings:			
Side-to-side	35°		
Fore and aft	35°		
Oil filtration	Replaceable,		
	full flow spin-on cartridge		
Engine speeds	RPM		
Rated - full load	2100		

Horsepower:

Peak gross @ 1800 RPM 370 hp (276 kW) Rated:

Gross @ 2000 RPM 355 hp (265 kW) Net @ 2200 RPM 351 hp (262 kW)

Torque:

Peak @ 1400 RPM: 1,250 lb·ft (1 695 N·m)

Torque rise:

Maximum power range 409

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

DRIVETRAIN

Transmission:

4F/3R Proportional w/ Electronic Control Module torque sensing autoshift/manual shift and modulation

Gears	Helical cut
Torque converter stall ratio:	
Torque converter	2.51:1

Differential:

Limited slip w/ 30% transfer on front and rear axles

Rear axle oscillation	26° total
Front and rear axles:	
Differential ratio	4.25
Planetary ratio	6.35
Final axle ratio	27.00
Planetaries	Outboard

Service brakes:

Hydraulically actuated, maintenance-free, multiple wet disc w/ accumulator to all four wheels

Brake surface area:

Front hub - each	1,144 in² (0.74 m²
Rear hub - each	1,144 in ² (0.74 m ²

Parking brakes:

Spring-applied hydraulic release disc on transmission output shaft neutralizes power flow to wheels when engaged

Travel speeds – 4-speed transmission:

	Forward	Reverse
	mph (kph)	mph (kph)
1st	3.8 (6.1)	3.8 (6.1)
2nd	7.1 (11.4)	7.1 (11.4)
3rd	11.1 (17.9)	15.4 (24.8)
4th	22.4 (36.0)	_

Travel speeds – 5-speed transmission:

	Forward mph (kph)	Reverse mph (kph)
1st	3.8 (6.1)	3.8 (6.1)
2nd	7.3 (11.8)	7.3 (11.8)
3rd	11.4 (18.3)	16.5 (26.6)
4th	16.5 (26.6)	_
5th	25.5 (41.0)	_

NOTE: Travel speeds at full engine throttle $\,$ w/ 29.5 x 25.0 XHA tires.

ELECTRICAL

Voltage	24 Volts, negative ground
Alternator	80 amp
Batteries (2)	12-volt

OPERATOR ENVIRONMENT

ROPS cab w/ A/C, heat; Key start; Articulated power steering w/ tilt column; Fully adjustable, heated, cloth-covered air-suspension seat; Foot throttle; Single lever 2-spool loader control w/ wrist rest; Cup holder; 2 Interior rearview mirrors; Rear view camera; 2 in (51 mm) retractable seat belt; Storage tray; Single brake pedal; F/N/R shuttle switch; External, heated rearview mirrors; Pressurized air filtering; Anti-glare window strip; Cab air-conditioning w/ heater; Defroster; Side window, partial/fully open; Roll screen for rear window; Dome light; Wipers, rear and intermittent front: Windshield washers, front and rear; Rubber floor mat; Sunscreen; 12V Power outlet; Horn; AM/FM/MP3 radio; DC converter.

Displays/Gauges:

Speedometer; Engine coolant temperature; Fuel level; Transmission oil temperature; Hydraulic oil temperature; Battery voltmeter.

Audible/Visual alarms:

Warning lights:

Clutch cut-off; High beam; Turn signal.

Caution alarm:

Parking brake; Coolant temperature; Hydraulic oil temperature; Transmission error; Air filter clogging; Alternator voltage; Fuel level.

Critical alarm:

Engine oil pressure; Brake oil pressure; Hydraulic oil temperature; Service brake oil pressure.

Backup alarm

NOTE: *If equipped w/ option.

OPERATING WEIGHT

Z-Bar

Unit equipped w/ ROPS cab w/ heater and A/C; Standard counterweight; 29.5 x 25.0 XHA tires; 6.8 yd³ (5.2 m³) GP Pin-on w/ bolt on edge; Full fuel; 175 lb (79 kg) operator:
66.425 lb (30 130 kg)

XR

Unit equipped w/ ROPS cab w/ heater and A/C, standard counterweight; 29.5 x 25.0 XHA tires; 7.1 yd³ (5.4 m³) GP Pin-on w/ bolt on edge; Full fuel; 175 lb (79 kg) operator:

68,564 lb (31 100 kg)

HYDRAULICS

Hydraulic system:

Load sensing hydraulic system,
electro-hydraulic controls
Piston pump @ 2000 RPM:

111 gpm (420 L/min)
Relief setting 3,983 psi (280 kg/cm²)
Steering system:
Full hydraulic power steering, flow amplified,
load sensing
Pilot pump @ 2000 RPM:

58.1 gpm @ 2,990 psi (220 L/min @ 20 615 kPa)

Loader control valve:

3-Function valve w/ single or three-lever controls – w/ auxiliary lever

SERVICE CAPACITIES

Fuel tank	113.6 gal (430 L)
Hydraulic system:	
Reservoir	62.0 gal (234 L)
Total	90.9 gal (344 L)
Transmission: Service w/ filter	11.4 gal (43 L)
Front and rear axle w/o coolers	:
Front axle	15.3 gal (58 L)
Rear axle	15.3 gal (58 L)
Engine oil w/ filter	11.4 gal (43 L)
Cooling system	17.7 gal (67 L)

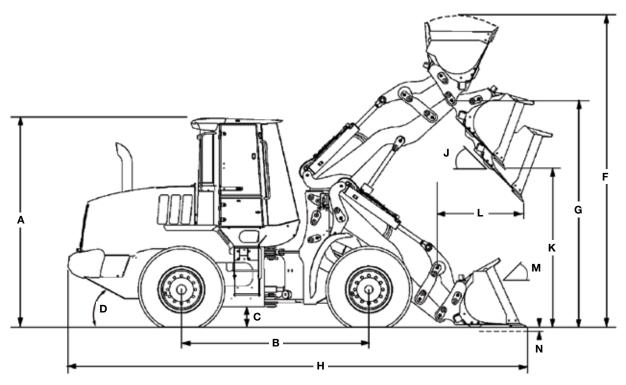
OTHER SPECIFICATIONS

Lift cylinder:	
Bore diameter	7.1 in (180 mm)
Rod diameter	4.1 in (105 mm)
Stroke	34.0 in (863 mm)
Dump cylinder:	
Bore diameter	5.5 in (140 mm)
Rod diameter	3.1 in (80 mm)
Stroke	22.8 in (580 mm)
Loador:	

Loader:

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.

Cycle time:	
Raise w/ rated bucket load	6.1 sec
Dump w/ rated bucket load	1.4 sec
Power down	4.8 sec
Float down	4.1 sec



Line drawings are for illustrative purpose only and may not be exact representation of unit.

DIMENSIONS

A. Height to top of ROPS cab	152.2 in (3 865 mm)
Height to drawbar	46.7 in (1 185 mm)
B. Wheelbase	145.7 in (3 700 mm)
C. Ground clearance	19.5 in (495 mm)
D. Angle of departure	23°
Width:	
Overall* without bucket	126.8 in (3 220 mm)
Centerline tread	96.1 in (2 440 mm)
Turning radius* – outside	298.6 in (7 585 mm)
Turning angle:	
From center	40°
Total angle	80°
Rear axle oscillation, total	26°

NOTE: *Dimensions taken with 29.5 x 25.0 XHA tires. Additional dimensions on page 4.

WEIGHT ADJUSTMENTS

		Tipping Load	Tipping Load
	Weight	Adjustment	Adjustment
Select Options	Adjustment	Straight	40° Turn
26.5 x 25 L3 Goodyear	-284 lb (-129 kg)	-190 lb (-86 kg)	-556 lb (-252 kg)
26.5 x 25 L4 Goodyear	+880 lb (+399 kg)	+1,303 lb (+591 kg)	+1,107 lb (+502 kg)
26.5 x 25 L5 Goodyear	+1,307 lb (+593 kg)	+2,101 lb (+953 kg)	+2,105 lb (+955 kg)

NOTE: Unit equipped with Z-Bar loader arms, 7.1 yd³ (5.4 m³) general purpose pin on bucket, 29.5 x 25.0 XHA tires, ROPS cab with heater, counterweight, standard batteries, front and rear fenders, full fuel and 175 lb (79 kg) operator. Adjust select options from rated weight.

PERFORMANCE DATA

1221F Z-Bar	6.8 yd ³ (5.2 m ³) GP Pin On Bucket with Bolt-on Adapters and Pin On Teeth	7.1 yd³ (5.4 m³) GP Pin On Bucket with Bolt-on Edge
SAE bucket capacity – struck Heaped	5.8 yd³ (4.4 m³) 6.8 yd³ (5.2 m³)	6.0 yd³ (4.6 m³) 7.1 yd³ (5.4 m³)
Bucket width – outside	135.8 in (3 450 mm)	135.8 in (3 450 mm)
Bucket weight	5,699 lb (2 585 kg)	6,063 lb (2 750 kg)
F. Operating height – fully raised with spillguard	247.8 in (6 295 mm)	247.8 in (6 295 mm)
G. Hinge pin height – fully raised	179.5 in (4 560 mm)	179.5 in (4 560 mm)
H. Overall length – bucket level on ground	386.6 in (9 820 mm)	379.1 in (9 630 mm)
J. Dump angle – fully raised	47°	47°
K. Dump height – fully raised, 45° dump	123.8 in (3 145 mm)	129.9 in (3 300 mm)
L. Bucket reach – fully raised, 45° dump	63.0 in (1 600 mm)	56.3 in (1 430 mm)
Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump	87.8 in (2 230 mm)	84.6 in (2 150 mm)
Operating load – ISO	22,862 lb (10 370 kg)	22,972 lb (10 420 kg)
Maximum material density – ISO	3,531 lb/yd³ (2 095 kg/m³)	3,253 lb/yd³ (1 930 kg/m³)
Tipping load – ISO:		<u> </u>
Straight 40° turn	52,624 lb (23 870 kg) 45,724 lb (20 740 kg)	52,823 lb (23 960 kg) 45,944 lb (20 840 kg)
Lift capacity:	00 000 15 (4.4.000 15:)	20.740 % (40.000 %)
Full height Maximum reach	30,909 lb (14 020 kg) 50,662 lb (22 980 kg)	30,710 lb (13 930 kg) 50,376 lb (22 850 kg)
Ground	74,670 lb (33 870 kg)	73,767 lb (33 460 kg)
Breakout force with tilt cylinder	55,733 lb (25 280 kg)	52,360 lb (23 750 kg)
Maximum rollback:		
M. Ground	42°	42°
Carry position @ Maximum reach	48° 63°	48° 63°
@ Full height	63°	63°
N. Dig depth	2.6 in (65 mm)	4.1 in (105 mm)
Maximum grading angle with bucket – back dragging	59°	59°
Loader clearance circle with bucket	606.7 in (15 410 mm)	589.4 in (14 970 mm)
1221F XR	6.8 yd³ (5.2 m³) GP Pin On Bucket with Bolt-on Adapters and Pin On Teeth	7.1 yd³ (5.4 m³) GP Pin On Bucket with Bolt-on Edge
1221F XR F. Operating height – fully raised with spillguard		
	with Bolt-on Adapters and Pin On Teeth	Bucket with Bolt-on Edge
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 F. Operating height – fully raised with spillguard G. Hinge pin height – fully raised H. Overall length – bucket level on ground 	with Bolt-on Adapters and Pin On Teeth 262.6 in (6 670 mm) 194.3 in (4 935 mm) 403.5 in (10 250 mm)	Bucket with Bolt-on Edge 262.6 in (6 670 mm) 194.3 in (4 935 mm) 396.1 in (10 060 mm)
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NOTE: Performance data unit equipped with 29.5 x 25.0 XHA tires, ROPS cab with heater and air conditioner, standard counterweight, standard batteries, wide front and rear fenders, full fuel and 175 lb (79 kg) operator. Specifications per SAE J732, J1234, J695, J742, and J818.

STANDARD EQUIPMENT

OPERATOR ENVIRONMENT

See page 1

ENGINE

Cummins QSX 11.9

Tier 4 Interim Certified

Turbocharger

Charge air cooling

Automatic fan belt tensioner

Integral engine oil cooling

Fuel filter with water trap

Dual element air cleaner

Liquid-cooled radiator

Non spark-arresting muffler

Grid heater

Fuel heater

HYDRAULICS

3-spool joystick and auxiliary control lever

Low-effort steering

Hydraulic driven fan

Reversing fan

Temperature controlled

8 Diagnostic quick couplers

POWERTRAIN

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

Downshift button

Torque converter

Outboard planetary axles

Front locking differentials

Transmission oil cooler

Brake pedal transmission disconnect

Hydraulic wet disc brakes

Spring-applied hydraulic release parking brake

LOADER

See page 2

ELECTRICAL

70 amp alternator

(2) 1000 CCA 12-volt batteries

Lights:

2 front driving headlights - high/low beam

2 front flood

2 stop/tail lights

2 rear flood

Front and rear turn signal/flash

Backup alarm

OTHER

Front and rear fenders

Standard counterweight

Drawbar hitch

Articulation locking bar

Lift and tie-down points - front/rear

RH steps and platform

Heated side mirrors

DC converter - 24 Volt to 12 Volt

Radio/USB/CD player - Bluetooth hands-free

TELEMATICS

CASE SiteWatch™ Telematics - includes hardware. Use special instructions for the 3-yr Advanced data subscription activation and reimbursement

OPTIONAL EQUIPMENT

OPERATOR ENVIRONMENT

Fire extinguisher

Additional cab lights:

2 front

2 rear

Rotating beacon

Second brake pedal

Two pedal brake

ENGINE

Engine air pre-cleaner

POWERTRAIN

F/N/R switch in loader control joystick handle

5-speed transmission

HYDRAULICS

Ride Control

3-spool loader valve with 3-lever loader control

Joystick steering

Emergency steering system

LOADER

XR configuration

TIRES

29.5 X 25.0, 28PR L5 Bias

29.5 X 25.0, 22PR L3 Radial - Triangle

26.5 X 25.0, Bias Ply

OTHER

Tool box

Sound Shield noise suppression package

Wheel chocks

XTD counterweight on standard machine additional 1,210 lb (549 kg)



NOTE: All specifications are stated in accordance with SAE Standards or Recommended Practices, where applicable.

NOTE: All engines meet current EPA emissions requirements.

IMPORTANT: Case Construction Equipment Inc. reserves the right to change these specifications without notice and without incurring any obligation relating to such change. Case Construction Equipment Inc. does not warrant the safety or reliability of attachments from other manufacturers.

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Biodiese

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