

1121**G**

Z-BAR/XR WHEEL LOADER
TIER 4 FINAL CERTIFIED



ENGINE		
Make		FPT
Model	F2	2CFE614F
Emissions Cert	fication T	ier 4 Final
Emissions Tech	nology	SCR/DOC
Type	4-stroke, turb and air-to-	0
Cylinders	6-cylin	der in-line
Bore/Stroke		1 x 5.31 in x 135 mm)
Displacement	531	in ³ (8.7 L)
Fuel	#2 Diesel, #1 and # permitted for cold tem	
Fuel injection	Direct injection -	electronic
Fuel filter	Re _l full flow spin-or	olaceable, cartridge
Fuel pump	Bos	ch CP 3.3
Gradeability: Side-to-side Fore and aft		35° 35°
Air filter	2-elemen w/ warning restriction	t dry type indicator
Rear-mount cooling module:		

Gradeability:	
Side-to-side	35°
Fore and aft	35°
Air filter	2-element dry type
w/ warni	ing restriction indicator
Rear-mount cooling modu	ıle:
	Rear-mount air/water
Fan - hydraulic driven:	
Style	9 blade puller
Diameter	36 in (914 mm)
Water pump	Integral
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:	
Maximum Power Mode:	
Peak gross @ 1800 R	PM 347 hp (259 kW)
Net rated @ 2100 RPN	M 284 hp (212 kW)
Peak net @ 1800 RPM	1 320 hp (239 kW)
Standard Power Mode:	
Peak gross @ 1700 R	PM 322 hp (240 kW)
Net rated @ 2100 RPN	M 262 hp (195 kW)
Peak net @ 1700 RPM	1 300 hp (223 kW)

279 hp (208 kW)

218 hp (163 kW)

266 hp (199 kW)

Economy Power Mode:

Peak gross @ 1400 RPM Net rated @ 1800 RPM

Peak net @ 1400 RPM

T	orc	que -	peak:	

Maximum Power Mode:

Standard Power Mode:

Economy Power Mode:

Torque rise:

Maximum power range 50%

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	2.51:1

Differential:

Auto locking Front Differential Open Differential Rear

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

Special application axles – standard: Front axle equipped w/ locking differential

Rear axle equipped w/ open differential

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 (0.738 m²) Rear hub – each 1,144 in² (0.738 m²)

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	4.3 (6.9)	4.3 (6.9)
2nd	7.2 (11.6)	7.2 (11.6)
3rd	11.0 (17.7)	15.8 (25.5)
4th	23.2 (37.4)	_

NOTE: Travel speeds at full engine throttle $\,$ w/ 26.5 x 25 L3 Radial tires.

ELECTRICAL

Voltage	24 Volts, negative ground
Alternator	120 amp
Batteries (2)	12-volt

OPERATOR ENVIRONMENT

ROPS cab AC w/ heat; Key start; Articulated power steering w/ tilt column; Fully adjustable, suspension seat; Foot throttle; Single lever loader control w/ fully adjustable wrist rest, 2 cup holders; 2 interior rear view mirrors; 2-inch (51 mm) retractable seat belt; Multiple storage trays; Single brake pedal; F/N/R shuttle switch; External rearview mirrors; Pressurized air filtering; Anti-glare window strip; Front and Rear Defroster; Side window, partial/fully open; 2 Dome lights; Wipers, rear and intermittent front; Windshield washers, front and rear; Rubber floor mat; Horn.

Dispays/Gauges:

Digital:

Transmission oil temperature; Engine coolant temperature; Fuel level; DEF level.

LCD screen:

Hour meter; Time; FNR indication; Trip computer; Metric/english; Differential lock*; Engine speed; Automatic trans indication; DeClutch indication; Fuel consumption; Engine diagnostics; Error reporting; Travel speed; Current gear selection; Engine mode indication; Multiple languages; Transmission diagnostics.

Audible/Visual alarms:

Warning lights:

Four-way flashers; High beam lights; Grid heater*; Low brake pressure; Parking brake.

Caution warnings:

Parking brake; Coolant temperature; Hydraulic oil temperature; Transmission oil temperature; Air filter; Transmission filter; Hydraulic filter; Alternator; Low fuel.

Critical warnings:

Engine oil pressure; Brake pressure; Steering pressure – w/ aux. steering*; Coolant temperature; Hydraulic oil temperature; Transmission oil temperature.

Backup alarm

Maintenance reminders:

Cab air filter; Engine oil filter; Fuel pre-filter; DEF tank vent filter; SCR supply filter; Hydraulic oil and filter; Engine air filter; Engine coolant drive belt; Cab recirculation filter; Engine breather filter; Transmission breather; Front and rear axle fluid; SCR supply module filter.

NOTE: *If equipped w/ option.

OPERATING WEIGHT

Z-Bar

Unit equipped w/ ROPS cab w/ heater and A/C; Standard counterweight; 26.5-R25 L3 Radial Tires; 6.25 yd³ (4.8 m³) GP pin-on w/ bolt on edge; Full fuel; 165 lb (75 kg) operator: 61,650 lb (27 964 kg)

XR

Unit equipped w/ ROPS cab w/ heater and A/C; Standard counterweight; 26.5-R25 L3 Radial Tires; 6.25 yd³ (4.8 m³) HD pin-on w/ bolt on edge; Full fuel; 165 lb (75 kg) operator:
63,443 lb (28 777 kg)

HYDRAULICS

Main pumps – steering/implement: Closed center pressure/flow compensated

Tandem variable displacement – load-sensing Max rated flow x2: 50.2 gpm @ 2000 RPM (190 L/min @ 2000 RPM)

Loader control valve:

Closed-center, sectional 2, 3 or 4-function w/ control for lift, tilt and auxiliary hydraulics

Loader auxiliary steering:

Hydraulic orbital center-pivot articulating w/ on-demand oil flow

High pressure standby:

Implement 3,650 psi (25 165 kPa) Steering 3,495 psi (24 097 kPa)

Filtration:

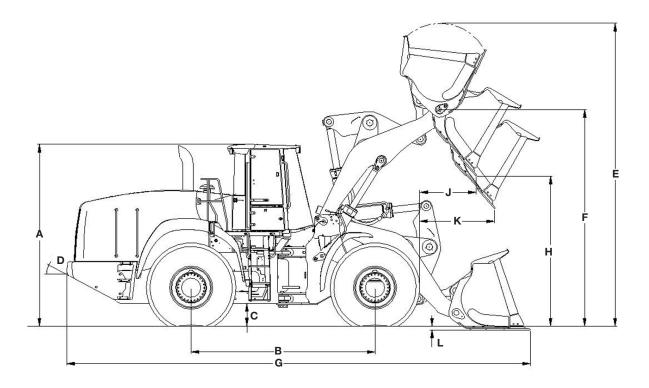
Filtered vent w/ relief on hydraulic reservoir, maintains 3-5 psi on reservoir, 10-micron, return filter furnishes only clean oil to all components of the system

SERVICE CAPACITIES	
Fuel tank	125 gal (473.0 L)
DEF tank – Diesel Exhaust Fl Usable capacity Total	luid: 16 gal (61.0 L) 24 gal (90.8 L)
Hydraulic system: Reservoir Total	35 gal (134.0 L) 66 gal (250.0 L)
Transmission: Service w/ filter	12 gal (45.4 L)
Front and rear axle: Front axle Rear axle	68 qt (64.0 L) 68 qt (64.0 L)
Engine oil w/ filter	30 qt (28.5 L)
Cooling system	15 gal (56.8 L)

OTHER SPECIFICATION	IS	
Lift cylinder: Bore diameter Rod diameter Stroke	7.00 in (177.8 mm) 4.50 in (114.3 mm) 34.48 in (875.8 mm)	
Dump cylinder: Bore diameter Rod diameter Stroke	8.00 in (203.2 mm) 5.00 in (127.0 mm) 27.35 in (694.7 mm)	
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 6.5 sec Dump w/ rated bucket load 1.4 sec Float down 2.8 sec		
Sound level in Cab (LpA)	69 dB(A)	
Exterior sound level (LwA) 104 dB(A)		
NOTE: Sound level data tested in accordance		

NOTE: Sound level data tested in accordance with ISO6395, 6396, 3744.

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

DIMENSIONS	
A. Height to top of ROPS cab	140.8 in (3 576 mm)
Height to drawbar	44.8 in (1 137 mm)
B. Wheelbase	139.8 in (3 550 mm)
C. Ground clearance	17.2 in (437 mm)
D. Angle of departure, rear	23°
Width:	
Overall* without bucket	117.2 in (2 978 mm)
Centerline tread	90.6 in (2 300 mm)
Turning radius* – outside	250.6 in (6 366 mm)
Turning angle:	
From center	40°
Total angle	80°
Rear axle oscillation – total	26°
NOTE: *Dimensions taken with 00 F DOE L2 Dedict Time Additional dimensions on pages 4 th	- control of

NOTE: *Dimensions taken with 26.5-R25 L3 Radial Tires. Additional dimensions on pages 4 through 5.

WEIGHT ADJUSTMENTS			
		Tipping Load	Tipping Load
	Weight	Adjustment	Adjustment
Select Options	Adjustment	Straight: Deflected*	40° Turn: Deflected*
26.5 x 25 L5 Radial Tires	+1,500 lb (+680 kg)	+1,323 lb (+600 kg)	+1,226 lb (+556 kg)

NOTE: Unit equipped with Z-Bar loader arms, 6.25 yd³ (4.8 m³) pin on bucket w/ bolt-on edge, 26.5-R25 L3 Radial Tires, ROPS cab with heater and A/C, full counterweight, front and rear fenders, full fuel and 165 lb (75 kg) operator. Adjust select options from rated weight.

*Tipping loads: ISO 14397-1 Deflected Tires.

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PERFORMANCE SPECS			
1121G Z-Bar*	5.25 yd³ (4.0 m³) Bucket with Bolt-on Edge - Pin On	5.1 yd³ (3.9 m³) Bucket with Teeth - Pin On	6.25 yd³ (4.8 m³) Bucket with Bolt-on Edge - Pin On
Operating weight	61,288 lb (27 800 kg)	61,284 lb (27 798 kg)	61,650 lb (27 964 kg)
E. Operating height – fully raised with spillguard	235.8 in (5 988 mm)	235.8 in (5 988 mm)	242.0 in (6 147 mm)
F. Hinge pin height – fully raised	175.2 in (4 450 mm)	175.2 in (4 450 mm)	175.2 in (4 449 mm)
G. Overall length – bucket level on ground	355.1 in (9 020 mm)	362.3 in (9 202 mm)	361.1 in (9 172 mm)
Dump angle – fully raised	50°	50°	50°
H. Dump height – fully raised, 45° dump	130.2 in (3 306 mm)	125.5 in (3 188 mm)	126.3 in (3 209 mm)
J. Bucket reach – fully raised, 45° dump	45.5 in (1 156 mm)	50.8 in (1 290 mm)	50.1 in (1 273 mm)
K. Bucket reach - 7 ft 0 in (2.13 m) height, 45° dump	77.5 in (1 967 mm)	80.8 in (2 051 mm)	80.4 in (2 043 mm)
L. Dig depth	4.4 in (111 mm)	4.6 in (116 mm)	4.4 in (111 mm)
Operating load – ISO Deflected Tires	19,470 lb (8 832 kg)	19,594 lb (8 888 kg)	19,227 lb (8 721 kg)
Maximum material density – ISO Deflected Tires	3,709 lb/yd³ (2 201 kg/m³)	3,842 lb/yd³ (2 280 kg/m³)	3,076 lb/yd3 (1 825 kg/m3)
Tipping load – ISO Deflected Tires:			
Straight	49,094 lb (22 269 kg)	49,413 lb (22 413 kg)	48,670 lb (22 076 kg)
40° turn	38,940 lb (17 663 kg)	39,191 lb (17 777 kg)	38,454 lb (17 443 kg)
Lift capacity:			
Full height	33,076 lb (15 003 kg)	33,024 lb (14 979 kg)	32,710 lb (14 837 kg)
Ground	58,279 lb (26 435 kg)	58,807 lb (26 674 kg)	56,904 lb (25 811 kg)
Breakout force with tilt cylinder	56,245 lb (25 512 kg)	60,336 lb (27 368 kg)	49,934 lb (22 650 kg)
Loader clearance circle	561.1 in (14 253 mm)	566.2 in (14 381 mm)	564.4 in (14 337 mm)

1121G XR	5.25 yd ³ (4.0 m ³) Bucket with Bolt-on Edge - Pin On	5.1 yd³ (3.9 m³) Bucket with Teeth - Pin On	6.25 yd ³ (4.8 m ³) Bucket with Bolt-on Edge - Pin On
Operating weight	63,082 lb (28 613 kg)	63,078 lb (28 611 kg)	63,443 lb (28 777 kg)
E. Operating height – fully raised with spillguard	252.2 in (6 406 mm)	252.2 in (6 406 mm)	258.4 in (6 564 mm)
F. Hinge pin height – fully raised	191.6 in (4 867 mm)	191.6 in (4 867 mm)	191.6 in (4 867 mm)
G. Overall length – bucket level on ground	371.2 in (9 428 mm)	378.3 in (9 609 mm)	377.2 in (9 580 mm)
Dump angle – fully raised	50°	50°	50°
H. Dump height – fully raised, 45° dump	146.6 in (3 724 mm)	141.9 in (3 606 mm)	142.8 in (3 626 mm)
J. Bucket reach – fully raised, 45° dump	47.2 in (1 199 mm)	52.5 in (1 333 mm)	51.8 in (1 315 mm)
K. Bucket reach - 7 ft 0 in (2.13 m) height, 45° dump	92.0 in (2 338 mm)	95.5 in (2 427 mm)	95.2 in (2 417 mm)
L. Dig depth	4.4 in (111 mm)	4.6 in (116 mm)	4.4 in (111 mm)
Operating load – ISO Deflected Tires	17,469 lb (7 924 kg)	17,574 lb (7 971 kg)	17,204 lb (7 804 kg)
Maximum material density – ISO Deflected Tires	3,327 lb/yd³ (1 974 kg/m³)	3,446 lb/yd³ (2 045 kg/m³)	2,753 lb/yd³ (1 633 kg/m³)
Tipping load – ISO Deflected Tires:			
Straight	43,233 lb (19 610 kg)	43,506 lb (19 734 kg)	42,640 lb (19 341 kg)
40° turn	34,938 lb (15 848 kg)	35,148 lb (15 943 kg)	34,408 lb (15 607 kg)
Lift capacity:			
Full height	31,599 lb (14 333 kg)	31,564 lb (14 317 kg)	31,251 lb (14 175 kg)
Ground	48,983 lb (22 218 kg)	49,384 lb (22 400 kg)	47,783 lb (21 674 kg)
Breakout force with tilt cylinder	56,776 lb (25 753 kg)	60,916 lb (27 631 kg)	50,409 lb (22 865 kg)
Loader clearance circle	577.2 in (14 660 mm)	582.7 in (14 801 mm)	580.9 in (14 756 mm)

1121G		Z-Bar/XR	Z-Bar/XR	Z-Bar/XR
Maximum rollback:	Ground	44°/42°	44°/42°	44°/42°
	Carry position	49°/48°	49°/48°	49°/48°
	@ Full height	65°/66°	65°/66°	65°/66°
Maximum grading angle with	n bucket - back dragging	60°/63°	60°/62°	60°/62°
SAE bucket capacity - struc	k	4.53 yd ³ (3.46 m ³)	4.33 yd³ (3.31 m³)	5.45 yd ³ (4.17 m ³)
Heaped		5.25 yd ³ (4.01 m ³)	5.10 yd³ (3.90 m³)	6.25 yd ³ (4.78 m ³)
Bucket width - outside		125.8 in (3 195 mm)	126.9 in (3 223 mm)	125.8 in (3 195 mm)
Bucket weight		4,580 lb (2 077 kg)	4,575 lb (2 075 kg)	4,941 lb (2 241 kg)

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PERFORMANCE SPECS	
1121G Z-Bar*	6.1 yd³ (4.7 m³) Bucket with Teeth - Pin On
Operating weight	61,646 lb (27 962 kg)
E. Operating height – fully raised with spillguard	242.0 in (6 147 mm)
F. Hinge pin height – fully raised	175.2 in (4 449 mm)
G. Overall length – bucket level on ground	368.3 in (9 354 mm)
Dump angle – fully raised	50°
H. Dump height – fully raised, 45° dump	121.7 in (3 090 mm)
J. Bucket reach - fully raised, 45° dump	55.4 in (1 406 mm)
K. Bucket reach - 7 ft 0 in (2.13 m) height, 45° dump	83.5 in (2 121 mm)
L. Dig depth	4.6 in (116 mm)
Operating load – ISO Deflected Tires	19,345 lb (8 775 kg)
Maximum material density – ISO Deflected Tires	3,171 lb/yd³ (1 882 kg/m³)
Tipping load – ISO Deflected Tires: Straight 40° turn	48,973 lb (22 214 kg) 38,691 lb (17 550 kg)
Lift capacity: Full height Ground	32,662 lb (14 815 kg) 57,397 lb (26 035 kg)
Breakout force with tilt cylinder	53,151 lb (24 109 kg)
Loader clearance circle	569.6 in (14 467 mm)

1121G XR	6.1 yd3 (4.7 m3) Bucket with Teeth - Pin On
Operating weight	63,439 lb (28 776 kg)
E. Operating height – fully raised with spillguard	258.4 in (6 564 mm)
F. Hinge pin height – fully raised	191.6 in (4 867 mm)
G. Overall length – bucket level on ground	384.3 in (9 761 mm)
Dump angle – fully raised	50°
H. Dump height – fully raised, 45° dump	138.1 in (3 508 mm)
J. Bucket reach – fully raised, 45° dump	57.1 in (1 449 mm)
K. Bucket reach - 7 ft 0 in (2.13 m) height, 45° dump	98.5 in (2 502 mm)
L. Dig depth	4.6 in (116 mm)
Operating load – ISO Deflected Tires	17,303 lb (7 848 kg)
Maximum material density – ISO Deflected Tires	2,837 lb/yd³ (1 683 kg/m³)
Tipping load – ISO Deflected Tires:	
Straight	42,899 lb (19 459 kg)
40° turn	34,606 lb (15 697 kg)
Lift capacity:	
Full height	31,218 lb (14 160 kg)
Ground	48,157 lb (21 844 kg)
Breakout force with tilt cylinder	53,667 lb (24 343 kg)
Loader clearance circle	586.6 in (14 900 mm)

1121G		Z-Bar/XR
Maximum rollback:	Ground	45°/42°
	Carry position	49°/48°
	@ Full height	65°/66°
Maximum grading angle with bucket – back dragging		60°/62°
SAE bucket capacity - stru-	ck	5.25 yd ³ (4.01 m ³)
Heaped		6.10 yd³ (4.66 m³)
Bucket width – outside		126.9 in (3 223 mm)
Bucket weight		4,937 lb (2 240 kg)
NOTE: *7 Par parformance d	ata abaum ur/ atandard acuntamusiaht	

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NOTE: *Z-Bar performance data shown w/ standard counterweight.

Performance data unit equipped with 26.5-R25 L3 Radial tires, ROPS cab w/ heater and A/C, standard counterweight, full fuel and 165 lb (75 kg) operator. Specifications per SAE J732, J1234, J695, J742, and J818.

OPERATOR ENVIRONMENT

See page 1

ENGINE

Case/FPT F2CFE614F

Tier 4 Final Certified

Selective Catalytic Reduction (SCR) with

Diesel Oxidation Catalyst

Selectable work modes:

Maximum power

Auto power

Standard power

Economy power

Automatic shutdown - idle reduction device

Turbocharger

Charge air cooling

Automatic fan belt tensioner

Integral engine oil cooling

Fuel filter with water trap

Dual-element dry-type air cleaner

Hydraulic-driven cooling fan

Air-cooled radiator

Rear-mounted cooling module

Common rail electronic fuel injection

LOADER

See page 2 – Operating weight, Other specifications

DRIVETRAIN

4-wheel drive

4F/3R Selectable autoshift/manual shift transmission

Electronic Control Module – programmable, computer controlled proportional shifting with programmable gear selection

Onboard diagnostics

Heavy Duty Axles:

With auto locking differential on front axle, open differential on rear axle

Single lever electronic shift control

F/N/R switch in loader control handle

Downshift button

Torque converter

Outboard planetary axles

Transmission oil cooler

Brake pedal transmission disconnect

Hydraulic wet disc brakes

Spring-applied hydraulic release

parking brake

Limp-Home Mode

Greasable rear axle trunnion

HYDRAULICS

Electro-hydraulic (EH) joystick loader control

Low-effort steering

Hydraulic driven fan

8 Diagnostic quick couplers

Split flange hydraulic connections -

1 inch or greater

Hydraulic oil cooler

ELECTRICAL

120 amp alternator and voltage regulator

Battery isolator/electrical disconnect

(2) 1000 CCA 12-volt batteries

Electric starter

Lights:

Front and rear halogen flood lights

2 Front driving headlights - high/low beam

2 Front flood

2 Rear flood

2 LED stop and tail lights

Front and rear turn signal/flash

Key start/stop switch

Centrally located fuse box with all electrical

circuits protected

Backup alarm

Remote jump posts

OTHER

Electric hood lift

Front and rear fenders, partial coverage

Standard counterweight

Drawbar hitch

Articulation locking bar

Lift arm locking bar

Lift and tie-down points - front/rear

Backup alarm

3-piece rims

Grouped remote-mounted ecology drains:

Engine oil

Engine coolant

Hydraulic oil

TELEMATICS

CASE SiteWatch™ Telematics – includes hardware and a 3-yr Advanced data subscription

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OPTIONAL EQUIPMENT

OPERATOR ENVIRONMENT

Cloth-covered heated air-suspension seat Leather trimmed heated air seat with active suspension

Cloth mechanical suspension seat

3 in (76 mm) retractable seat belt

Sound Shield noise suppression package

Bluetooth radio, 12V AM/FM with

auxiliary input

Radio-ready - 12 or 24-volt with auxiliary power - 12-volt

Cab convenience package:

Rear sun shade, interior mirror, under the seat drawer, coat hook, 12V accessory port, and an ash tray

In cab powered cooler box

In cab accessory mount

LED rotating beacon

Joystick steering

Rear view camera

External rear view mirrors

External heated rear view mirrors

Front LED driving/headlights

LED front and rear work lights

Extra front-facing LED work lights

DRIVETRAIN

Special application axles with locking front differential and coolers

Axle oscillation stops

Cold weather package:

Engine block heater

Fuel heater

Hydraulic oil cooler bypass

Low temperature hydraulic oil

Grid heater

HYDRAULICS

Auxiliary hydraulics

Ride Control™

Secondary steering

3- or 4-spool loader valves with 2- or 3-lever loader control

LOADER

Extended reach XR

Attachment auxiliary hydraulics

Buckets - see pages 4 and 5

TIRES

26.5 x 25 L3 Bias

26.5-R25 L3 Radial

26.5 x 25 L5 Bias

26.5-R25 L5 Radial

ADVANCED ENGINE AIR FILTRATION

Variable speed hydraulic reversing fan Sy-Klone® ejector type pre-cleaner

OTHER

Special paint

Tool box

Fire extinguisher

Side guards for rear frame

License plate brackets, front and rear

12 mph (20 kph) maximum speed control

Wide full coverage fenders with right and left

hand steps

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