

ARTICULATED WHEEL LOADER

ENGINE

Model	Deutz F4M2011, Tier 2 certified
Туре	4-stroke
Cylinders	4
Bore/Stroke	3.70 in x 4.4 in (94 X 112 mm)
Displacement	190 in³ (3.11 L)
Fuel injection	Direct
Fuel	#2 Diesel
Fuel filter	Replaceable, full flow spin-on cartridge
Air filter	Dry type element warning restriction indicator
Radiator Core type	Staggered
Fan	
Style	Hydraulic driven puller
Lubrication/coolin	g oil pump
Style	Integral
Engine oil	
Pump	Deep sump plate cooler with pressurized under-piston nozzles
Pump operating	angle ratings
Side-to-side	Rated 35°
Fore and aft	Rated 35°
Oil filtration	Replaceable, full flow spin-on cartridge
Engine speeds (rp	m)
Rated speed, full Low idle High idle, no loa	900–950

59.0 (44.0 kW) @ 2400 rpm 57.0 (42.0 kW) @ 2400 rpm

140 lb·ft (190 N·m)

131 lb·ft (178 N·m)

6.00%

Horsepower - Rated

Peak torque @ 1700 rpm

Torque rise @ 2000 rpm

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

Gross

Gross

Net

Net

ELECTRICAL

Voltage	12 Volts, negative ground	
Alternator	55 amp	
Batteries	92 AHR, 750 CCA	

DRIVETRAIN

Transmission	Hydrostatic transmission	
Pump relief	6,743 psi (46 500 kPa)	
Pump flow	35.5 gpm (134.4 L/min)	
Differential w	Front limited slip w/45% transfer on front axles	
Front axle		
Differential ratio	2.91	
Planetary ratio	6.00	
Final axle ratio	17.45	
Planetaries	Outboard	
Service brakes		

Hydraulically actuated, dry disc

w/accumulator to front axle & joint shaft

Parking brake Mechanical

Travel speeds - mph (km/h) w/14.5 X 20 tires

Forward Reverse 0-3.7 (0-6) 0-3.7 (0-6) Low High 0-12.4 (0-20) 0-12.4 (0-20)

NOTE: Travel speeds at full engine throttle.

Optional HTS (High Travel Speed)

Forward Reverse 0-3.1 (0-5.0) 0-3.1 (0-5.0) Low High 0-10.0 (0-16.0) 0-10.0 (0-16.0) HTS engaged 0-21.7 (0-35) 0-21.7 (0-35)

NOTE: Travel speeds at full engine throttle.

HYDRAULICS

Pump (steering/ implement) Open-centered pressure/flow compensated Fixed gear type 17.7 gpm @ 2400 rpm @ 3916 psi (67 L/min @ 2400 rpm @ 27 000 kPa) Loader control valve

Open-center, 1 lever loader control w/forward/neutral/reverse switch, float detent

Loader auxiliary steering

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

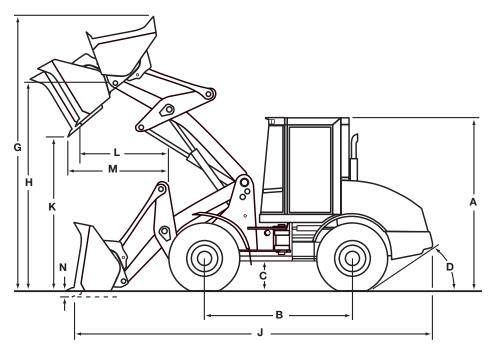
Main relief pressure 3,626 psi (25 000 kPa)

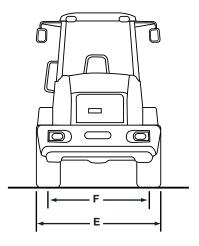
Filtration

15-micron, full flow replaceable cartridges on return line

CYLINDERS

Lift cylinder		
Bore diameter	3.5 in (90 mm)	
Rod diameter	2.0 in (50 mm)	
Stroke	28.4 in (721 mm)	
Dump cylinder		
Bore diameter	3.5 in (90 mm)	
Rod diameter	2.0 in (50 mm)	
Stroke	18.0 in (459 mm)	





DIMENSIONS

	Height to -		
A.	Top of ROPS cab		111.2 in (2824 mm)
В.	Wheelbase		88.6 in (2250 mm)
C.	Ground clearance under shaft		16.0 in (415 mm)
C.	Ground clearance under axles		13.0 in (330 mm)
D.	Angle of departure		35°
	Width –		
E.	Overall* w/o bucket		75.2 in (1909 mm)
F.	Centerline tread		60.1 in (1526 mm)
	Turning radius* – outside		156.0 in (3963 mm)
	Turning angle –		
	From center	41°	
	Total angle	82°	
	Rear axle oscillation, total		24°

NOTE: *Dimensions taken with 14.5 X 20 tires. Additional dimensions on pages 3 & 4.

PERFORMANCE DATA

	1.0 yd3 GP (0.9 m3)	1.05 yd³ GP (0.8 m³
121E Versa-Boom	Bucket w/Bolt-on Edge	Bucket w/Bolt-on Edge
SAE bucket capacity – struck	0.85 yd³ (0.65 m³)	0.85 yd³ (0.65 m³
Heaped	1.18 yd³ (0.90 m³)	1.05 yd³ (0.80 m³
Bucket width - outside	80.7 in (2050 mm)	80.7 in (2050 mm
Bucket weight	919 lb (417 kg)	875 lb (397 kg
G. Operating height – fully raised w/spillguard	168.7 in (4285 mm)	166.8 in (4237 mm
Hinge pin height – fully raised	130.0 in (3302 mm)	130.0 in (3302 mm
. Overall length - bucket level on ground	216.0 in (5485 mm)	214.0 in (5435 mm
Dump angle – fully raised	44°	44
C. Dump height – fully raised, 45° dump	100.3 in (2549 mm)	101.7 in (2584 mm
. Bucket reach – fully raised, 45° dump	32.4 in (823 mm)	31.0 in (787 mm
M. Bucket reach - 7 ft 0 in (2.13 m) height, 45° dump	45.7 in (1160 mm)	45.2 in (1148 mm
I. Dig depth	2.4 in (60 mm)	2.3 in (60 mm
Operating load – ISO	3,397 lb (1541 kg)	3,408 lb (1546 kg
Maximum material density – ISO	2,886 lb/yd³ (1713 kg/m³)	3,257 lb/yd³ (1932 kg/m²
Tipping load – ISO		
Straight	7.673 lb (3480 kg)	7,691 lb (3489 kg
Straight w/optional counterweight	8,235 lb (3735 kg)	8,253 lb (3744 kg
40° turn	6,795 lb (3082 kg)	6,815 lb (3091 kg
40° turn w/optional counterweight	7,270 lb (3297 kg)	7,209 lb (3306 kg
Lift capacity –		
Full height	5,988 lb (2716 kg)	6,034 lb (2737 kg
Maximum reach	8,240 lb (3738 kg)	8,283 lb (3757 kg
Ground	12,134 lb (5504 kg)	12,173 lb (5522 kg
Breakout force w/tilt cylinder	9,337 lb (4235 kg)	10,024 lb (4547 kg
Maximum rollback –		
Ground	46°	46°
Carry position	51°	51°
@ Maximum reach	53°	53°
@ Full height	54°	54°
Maximum grading angle w/bucket – back dragging	106°	105
Loader clearance circle	352.1 in (8945 mm)	351.1 in (8918 mm

INSTRUMENTATION

Electronic Information Center
Displays/Gauges –

Fuel level Hourmeter Engine oil

Indicator lights -

Hydraulic oil temperature

Alternator

Work lights*

Brake pressure

Parking brake

Air conditioning*

Air filter restriction

Travel direction F/R

Speed range selected

High beam lights

Turn signal indicator

Engine oil temperature

Engine oil pressure

Preheating indicator lamp

Audible alarms -

Caution alarm

Critical alarm

Backup alarm

Horn

NOTE: *If equipped with option.

OPERATOR ENVIRONMENT

Cab w/heat
Key start
Articulated power steering w/tilt column
Fully adjustable, cloth suspension seat
Foot throttle
Single lever electronic speed shift control, F/N/R switch in loader control handle
Cup holder
Retractable seat belt
Storage tray
Sun screen – front
Defroster
Opening side window – 180°
Dome light
Wipers rear & front
12-volt auxiliary power
External rearview mirrors
R.H. steps
Coat hook
Loader control lockout

LOADER

Versa-Boom loader linkage	
Single control for lift and tilt	
Positive hold float	
Hydraulic skid steer compatible attachment coupler	

CYCLE TIME

Raise w/rated bucket load	6.0 sec	
Dump w/rated bucket load		
Versa-Boom	1.0 sec	
Lower (empty)		
Float down	3.0 sec	

SERVICE CAPACITIES

Fuel tank	26.4 gal (100 L)
Hydraulic system	
Total	17.7 gal (67 L)
Reservoir	10.5 gal (40 L)
Front and rear axle	
Total axle (each)	2.4 gal (9.3 L)
Engine oil w/filter	2.6 gal (10.0 L)

OPERATING WEIGHTS

Versa-Boom

Unit equipped with ROPS cab with heater, standard counterweight, 14.5 X 20 Dunlop tires, front and rear fenders, 1.05 yd³ (0.8 m³) general purpose loader bucket w/edge, full fuel, 165 lb (75 kg) operator 10,849 lb (4921 kg)

With optional counterweight 11,268 lb (5066 kg)

STANDARD EQUIPMENT

OPERATOR'S ENVIRONMENT

See page 4

ENGINE

Deutz F4M2011

Fuel filter w/water trap

Dual element air cleaner

55 amp alternator

(1) 750 CCA 12-volt battery

Liquid-cooled radiator

LOADER

See page 4

OPTIONAL EQUIPMENT

OPERATOR'S COMPARTMENT

Rotating beacon

Limited slip option, rear axle

Air conditioning

High Travel Speed (HTS)

0-21 MPH (0-35 km/hr)

Radio ready antenna and speakers

Hinged window

Open ROPS

OTHER

(2) Rear flood lights

Tool box

DRIVETRAIN

4-wheel drive

Hydrostatic transmission

Single lever electronic speed shift control, F/N/R switch in loader control handle

Outboard planetary axles

Limited slip differential, front axle

Transmission oil cooler

Hydraulic dry disc brakes

Mechanical parking brake

HYDRAULICS

3-spool loader control valve

(8) Diagnostic quick couplers

Auxiliary hydraulics

LOADER

Buckets (see page 3)

General Purpose

4-IN-1

Forks

Ride control

OTHER

Front and rear fenders

Lights -

- (2) Front flood lights
- (2) Front driving headlights (high/low beam)
- (2) Stop/tail lights and backup light

Front and rear turn signal/flash

Drawbar pin

Articulation locking pin

Tie-down points - front/rear

Backup alarm

Wired for radio

Bucket position indicator

TIRES

365/80 R20 STP9

COUNTERWEIGHT

320 lb (145 kg)

Mounts on rear chassis

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

NOTE: All engines meet current EPA emissions requirements.

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

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