

L2706E

WHEELED LOADER



series

Net Peak Power: 248 kW
Operating Weight: 26 210 kg

BELL

L2706E WHEELED LOADER

ENGINE

Type	John Deere PowerTech™ Plus 6135H
Non-Road Emission Standards	Certified to EPA Tier 3 emissions
Cylinders	6
Valves Per Cylinder	4
Displacement	13.5 ℓ (823.6in ³)
Net Peak Power	248 kW (333 hp) @ 2,000 rpm
Net Peak Torque	1619 Nm (364 lbf.ft) @ 1,600 rpm
Fuel System	Mechanically actuated electronic unit injectors
Lubrication	Full-flow spin-on filter and integral cooler
Aspiration	Turbocharged, charge air cooled
Air Cleaner	Dual element dry type, restriction indicator in cab monitor for service
Fan Drive	Hydraulically driven, proportionally controlled, fan aft of coolers
Electrical System	24 volt with 80-amp alternator
Batteries	1,400 CCA (each)

Transmission

Type	Countershaft-type PowerShift™
Torque Converter	Single stage, dual phase with freewheeling stator
Shift Control	Electronically modulated, adaptive, load and speed dependent
Operator Interface	Joystick mounted F-N-R, kick-down button on Joystick
Shift Modes	Manual/auto (1st–4th or 2nd–4th); quick-shift button with two selectable modes: kick down or kick up/down; and three clutch cutoff settings adjustable on switch pad

Travel Speeds	Forward Maximum	Reverse Maximum
Gear 1	7.4 km/h (4.6 mph)	7.4 km/h (4.6 mph)
Gear 2	13.8 km/h (8.6 mph)	13.8 km/h (8.6 mph)
Gear 3	21.1 km/h (13.1 mph)	30.1 km/h (18.7 mph)
Gear 4	40.0 km/h (24.9 mph)	

Axles/Brakes

Final Drives	Heavy-duty inboard planetary
Differentials	Hydraulic locking front, conventional rear
Rear Axle Oscillation, Stop to Stop	26°
Brakes (conform to SAE J1472, ISO3450)	Hydraulically actuated, inboard, sun-gear mounted, oil cooled, self adjusting, single disc
Service Brakes	
Parking Brakes	Automatic spring applied, hydraulically released, oil cooled, multi-disc

Tyres

Standard Size	26.5R25 L3 Radial
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Refill Capacities

Fuel Tank (with ground-level fueling)	469 ℓ (103.2 UK gal)
Cooling System	47 ℓ (10.3 UK gal)
Engine Oil with Vertical Spin-On Filter	38 ℓ (8.4 UK gal)
Transmission Fluid with Vertical Filter	28 ℓ (6.2 UK gal)
Axle Oil (front and rear)	46 ℓ (10.1 UK gal)
Hydraulic Reservoir and Filters	159 ℓ (35.0 UK gal)
Park Brake Oil (wet disc)	0.7 ℓ (0.2 UK gal)

Hydraulic System/ Steering

Pump (loader and steering)	Two variable-displacement, load-sensing axial-piston pumps; closed-center system
Maximum Rated Flow @ 69 bar (1000 psi) and 2,250 rpm	513 ℓ/m (112.9 UK gal / m)
System Relief Pressure (loader and steering)	252 bar (3650 psi)
Loader Controls	Two-function valve; single- or dual-lever controls; control lever lockout feature; optional third- and fourth-function valve with auxiliary lever
Steering (conforms to SAE J1511)	
Type	Power, fully hydraulic
Articulation Angle	80° arc (40° each direction)
Hydraulic Cycle Times Standard Z-Bar Raise	5.7 sec

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Dump	1.3 sec
Lower (float down)	2.5 sec
Total	9.5 sec
Turning Radius (measured to centerline of outside tyre)	5.92 m (19' 5")

Dimensions with Pin-On Bucket

Standard Z-Bar Linkage, with Pin-On General-Purpose Bucket with Bolt-On Segments and Teeth		
A Height to Top of Cab and Canopy	3.50 m (11' 6")	
B Ground Clearance	462 mm (1' 6")	
C Length from Centerline to Front Axle	1.70 m (5' 7")	
D Wheelbase	3.46 m (11' 4")	
E Dump Clearance	• (see below)	
F Height to Hinge Pin, Fully Raised	4.48 m (14' 9")	
G Dump Reach	•• (see below)	
H Maximum Digging Depth	115 mm (4' 6")	
I Overall Length	••• (see below)	
J Maximum Rollback at Ground Level	46°	
K Maximum Rollback, Boom Fully Raised	52°	
L Maximum Bucket Angle, Fully Raised	44°	

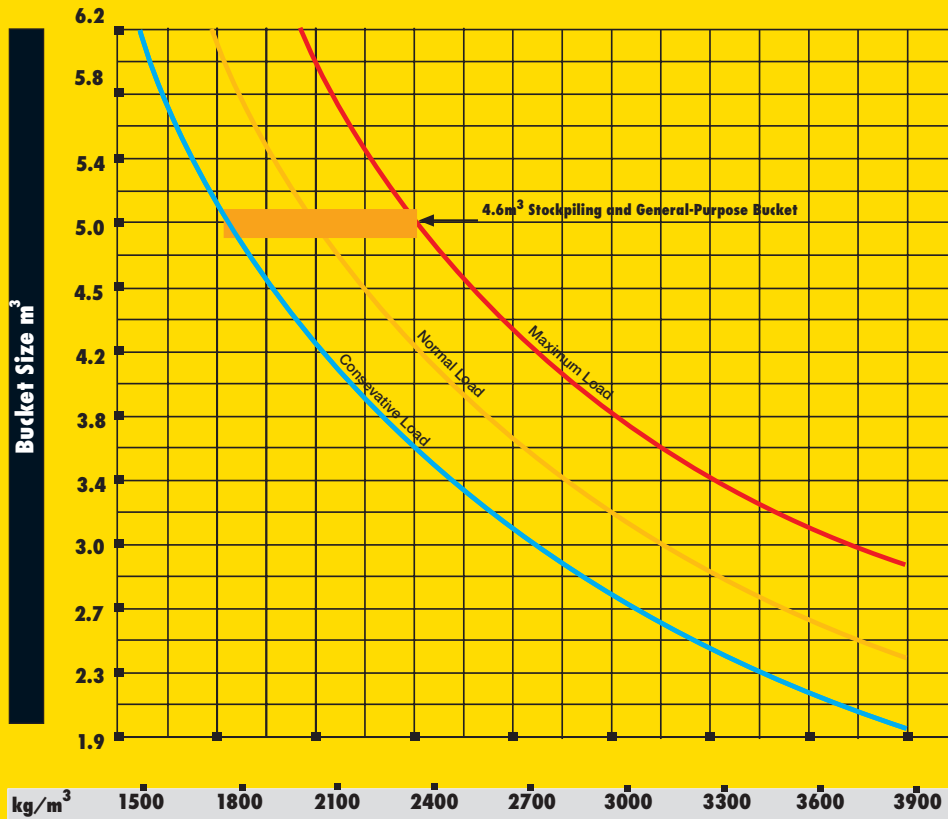
Standard Z-Bar Pin-On Type Bucket Information

Standard Z-Bar Linkage, with Pin-On General-Purpose Bucket with Bolt-On Segments and Teeth		<p>Reach, 45° Dump, 2.13 m (7' 0") clearance 2.05 m (6' 9")</p> <p>•• Reach, 45° Dump, Full Height 1.28 m (4' 2")</p> <p>• Dump Clearance, 45°, Full Height 3.19 m (10' 6")</p> <p>••• Overall Length, Bucket on Ground 9.26 m (30' 5")</p> <p>Loader Clearance Circle, Bucket Carry Position 14.26 m (47' 11")</p> <p>Operating Weight 26 210 kg (57783 lb)</p>
Bucket Type/Size		
Capacity, Heaped	4.6 m ³ (6.0 yd ³)	
Capacity, Struck	4.0 m ³ (5.2 yd ³)	
Bucket Weight	2788 kg (6148 lb)	
Bucket Width	3.27 m (10' 9")	
Breakout Force	18 905 kg (41678 lb)	
Tipping Load, Straight	20 508 kg (45213 lb)	
Tipping Load, 35° Full Turn	18 251 kg (40236 lb)	
Tipping Load, 40° Full Turn	17 588 kg (38775 lb)	
Safe Operating Load	7753 kg (17095 lb)	

ATTACHMENT OPTIONS

Bucket Options		Blade/Lip	Teeth	Cutting Edge
Size	Type			
4.7 m ³ (6.1 yd ³)	GP	Straight	Bolt-on 2 strap, male adaptors	Segments
4.7 m ³ (6.1 yd ³)	GP	Straight	None	4 Piece Bolt-on
2.8 m ³ (3.7 yd ³)	High Density	Straight	Bolt-on 2 strap, male adaptors	Segments
2.8 m ³ (3.7 yd ³)	High Density	Straight	None	4 Piece Bolt-on
3.0 m ³ (3.9 yd ³)	High Density	Spade	None	Weld-On Half Arrows
4.0 m ³ (5.2 yd ³)	Rock	Spade	Bolt-on 2 strap, male adaptors	Segments
4.0 m ³ (5.2 yd ³)	Rock	Spade	None	Weld-On Half Arrows
6.8 m ³ (8.9 yd ³)	Coal	Straight	None	4 Piece Bolt-on
Cane Grabs		Cane Grab		
Log Grabs		Large Log Diameter Log Grab Sorting Grapple Millyard Grapple		

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* This guide, representing bucket sizes not necessarily manufactured by Bell Equipment, will help you in selecting proper bucket size for material density, loader configuration, and operating conditions. Optimum bucket size is determined after adding or subtraction all tipping load changes due to optional equipment. The "conservative load" line on this guide is recommended when operating in conditions such as soft ground and unlevel surfaces. The "maximum load" condition on this guide is sometimes utilized when operating on firm ground and level surfaces.

MATERIAL (Loose weight)	kg/m ³	MATERIAL (Loose weight)	kg/m ³
Caliche	1250	Gravel, wet 1/2" (13 to 50 mm)	2020
Cinders	590	Gypsum, crushed	1600
Clay and gravel, dry	1420	Limestone, broken or crushed	1540
Clay and gravel, wet	1540	Magnetite, iron ore	2790
Clay, dry	1480	Phosphate rock	1280
Clay, natural bed	1660	Pyrite, iron ore	2580
Clay, wet	1660	Sand and gravel, dry	1720
Coal, anthracite, broken	1100	Sand and gravel, wet	2020
Coal, bituminous, broken	830	Sand, dry	1420
Earth, dry, packed	1510	Sand, wet	1840
Earth, loam	1250	Sandstone, broken	1510
Earth, wet, excavated	1600	Shale	1250
Granite, broken or large crushed	1660	Slag, broken	1750
Gravel, dry	1510	Stone, crushed	1600
Gravel, dry 1/2" (13 to 50 mm)	1690	Topsoil	950
Gravel, pit run (graveled sand)	1930		

BELL EQUIPMENT UK LTD
 Graycar Business Park, Barton Turns, Barton-Under-Needwood,
 Burton-on-Trent, Staffs, DE13 8EN
 Tel: +44 (0)1283 712862 • Fax: +44 (0)1283 712687
 E-mail: general@uk.bellequipment.com • www.bellequipment.com

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