

Cane Loaders

I 125A 3 cylinder I 125A 4 cylinder I 125A 4 cylinder (Regulated)
I 220A 4 cylinder



BELL



Bell Cane Loaders

Bell Cane Loaders represent the first production machine produced by Bell and are a symbol of our proud heritage in the Sugar industry.

Since its inception in 1964, the Bell Cane Loader has been used with great success in many industries throughout the world. Found in the field, on transloading zones and at the sugar mill, it is in the world sugar market where it has truly found its place as a low cost per ton sugar cane handling solution. Our products range from the lighter, more agile 125A through to the heavier 220A zone loading machines.

The unique combination of foot pedal control for travel and direction and hand operated controls for the boom and grab make the Bell Cane Loader a highly efficient tool for loading cane.

Available in both 3 cylinder and 4 cylinder engine configurations, the 125A Cane Loader is used extensively for loading directly into trailers in field to a lesser extent for zone loading, where the larger capacity 220A comes into its own.

These lightweight, agile machines have very low ground pressures and are ideal for in-field operations.

The 125A Cane Loader is able to load to a maximum height of 5 440 mm, thereby allowing the machine to easily load any trailer or transport vehicle. The grab can safely carry up to 600 kg per bite. The machine's typical fuel consumption for the 3 cylinder is 4-5 litres per hour, the 4 cylinder is 5-6 litres per hour, make these an extremely cost effective selection to loading sugar cane.

Loading rates are dependant on field conditions and carry distances. Loading Rates vary from 20 tons per hour to 40 tons per hour with the lighter cane loader, but can be as 50 tons per hour with the 220A Cane Loader in ideal conditions.

The 4 cylinder 220A is a larger, heavier unit with slightly higher lifting capacity which makes it ideal for zone loading.

Shorter carry distances, flatter slopes and increased lifting capacity increase the loading rates of these machines on the zone, but the agility of the 125 makes it more suitable in field.

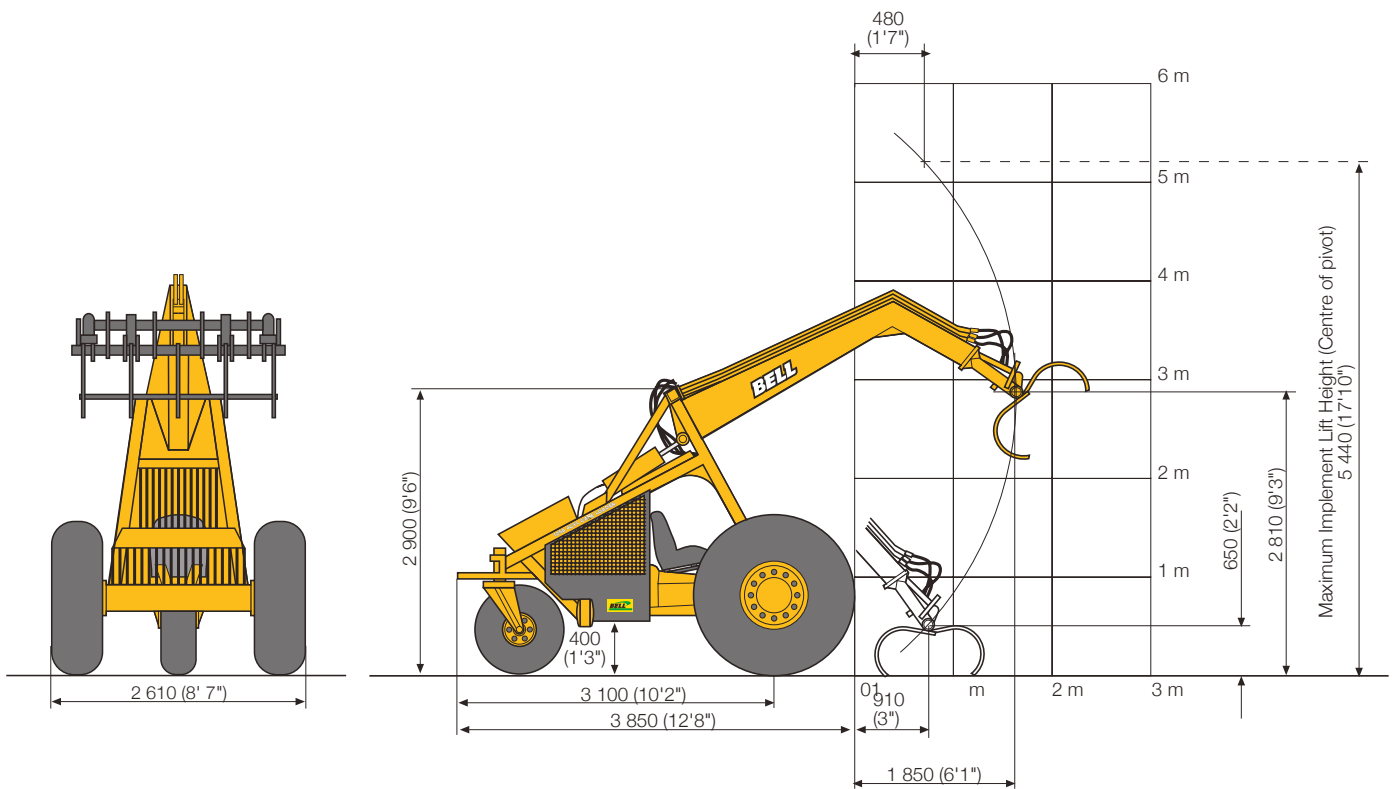
Like all Bell machines, the tri wheeled crop handler is designed to meet the rigours of harsh applications such as sugar cane loading head on.

- Unique characteristics
- High strength micro-alloyed steel
- Hydrostatically driven
- Simple to operate
- Simple and cost effective to maintain
- Optimum fuel-energy conversion
- Superb manoeuvrability

Specifications - I25A Cane Loader (3 cylinder)

<p>ENGINE</p> <p>Model Deutz F3L912</p> <p>Configuration 3 cylinder, in-line, air cooled with integrated blower fan</p> <p>Governed Power 33 kW</p> <p>Max Torque 163 Nm @ 1600 rpm</p> <p>Governed Full Power Engine Speed 2 150 rpm</p> <p>Aspiration Naturally aspirated</p> <p>Displacement 2 827 cc</p> <p>Fuel Filtration Two stage. Spin-on water separator primary, replaceable spin-on secondary</p>	<p>DRIVE MOTORS</p> <p>Type Axial piston, closed loop</p>	<p>HYDRAULIC TANK</p> <p>Type Integral with tubular frame</p>	<p>CABIN</p> <p>Type Integral with steel frame. No doors.</p>
<p>EXHAUST</p> <p>Type Engine manifold mounted mild steel silencer with short side-pointing tail pipe</p>	<p>TRANSMISSION CHARGE CIRCUIT</p> <p>Type Gear, Open centre</p>	<p>Oil Type Rando HDZ 68 hydraulic fluid</p> <p>Capacity 120 l (130 l for system)</p>	<p>Guarding HD windscreen guard. Rear engine bay doors</p>
<p>AIR CLEANER</p> <p>Type Dual (primary & safety) paper element cyclonic canister type with restriction visual indicator</p>	<p>WHEEL DRIVE SYSTEM</p> <p>Drive Motor Series #24</p>	<p>Breather Remote to filler cap, 3 Micron, 0,75 bar pressurised</p>	<p>Ventilation Open Cabin</p>
<p>Pre Cleaner Type Cyclonic dust bowl. Daily emptying requirement</p>	<p>DRIVE WHEELS</p> <p>Drive Tyre Type All Traction Field & Road - 8 ply with inner tube</p>	<p>Cleaning Cleaning via bolt on hydraulic filter housings</p>	<p>SAFETY/ERGONOMICS</p> <p>Seat Plate Lockable over-centre lock-down latches x2 to prevent accidental seat plate tip-up</p>
<p>FUEL INLET SYSTEM</p> <p>Water Separator Primary Filter- spin-on Engine mounted, 5 microns</p>	<p>Drive Tyre Size 18.4 x 26</p>	<p>IMPLEMENT HYD SYSTEM</p> <p>Boom Hydraulic Function Pump Type Gear, open centre, Transmission pump thru-drive</p>	<p>Seat Low profile padded seat with lap strap seat belt</p>
<p>Secondary Filter- spin-on Engine mounted, 5 microns</p>	<p>Drive Wheel Rim 16 x 26, 1 piece</p>	<p>Grapple/Rotator/Tele Hyd. functions Pump Type Gear, open centre, engine geartrain drive</p>	<p>WARNING/CUTOFF SYSTEMS</p> <p>Alternator, no charge light "D" terminal switch</p>
<p>ENGINE/TRANS. COUPLING</p> <p>Type Bell nylon gear coupling</p>	<p>Drive Wheel Inflation Pressure 1,5 bar</p>	<p>FUEL TANK</p> <p>Type Remote to frame, rear mounted</p>	<p>Blower Fan Belt-Breakage warning Mechanical auto cut-off</p>
<p>HYDROSTATIC TRANSMISSION</p> <p>Type Variable displacement closed loop manual control axial piston tandem pump. Closed Loop motor circuit with remote charge pump, filtered charge pressure with non-filtered direct-return to tank.</p>	<p>Unladen Ground Pressure Rear 0,44 bar</p>	<p>Capacity 76 l</p>	<p>Engine Oil Pressure Light Pressure sensor switch-on point: 0,25+ .1 bar</p>
<p>DRIVE PUMPS</p> <p>Type Axial piston, closed loop, manual control swash plate</p>	<p>TAIL WHEEL</p> <p>Tail Wheel Tyre Type High Flotation Implement, 10 Ply with inner tube</p>	<p>ELECTRICAL SYSTEM</p> <p>Voltage 12 V</p>	<p>OPERATING MASSES</p> <p>Unladen Front 3 045 kg Unladen Rear 1 220 kg Unladen Total 4 265 kg Shortest Wheelbase 2 458 kg Load distance ahead of front axle 2 600 mm Outstretched Tipping load 1 153 kg SWL - Payload 650 kg</p>
<p>Control Direct control, foot linkage</p>	<p>Tail Wheel Rim 13 x 15.5, 1 piece</p>	<p>Starter motor rating 2,7 kW</p>	
	<p>Tail Wheel Inflation Pressure 1,0 bar</p>	<p>Alternator rating 14V/55A</p>	
	<p>Unladen Ground Pressure Rear 0,68 bar</p>	<p>Battery Rating 100 Ah</p>	
	<p>BRAKES</p> <p>Service Brake Type Closed loop hydrostatic wheel retardation.</p>	<p>Fuse box Inside cabin- instrumentation box, on firewall and on battery positive terminal</p>	
	<p>Park Brake Type Spring applied, hydraulic release wet multi disc</p>	<p>Overload Protection Main line circuit breaker 300A at battery terminal, 60A on Firewall</p>	
	<p>ATTACHMENT</p> <p>Type Bell Series 36 Cane</p>	<p>Battery Isolator Switch Single pole type, accessible alongside seat</p>	
	<p>Capacity 0,36 m²</p>	<p>Ignition Solenoid 130A</p>	
	<p>BOOM/MAST</p> <p>Type Welded yoke crankboom</p>	<p>Lights Relay switching, 30 Amp circuit breaker</p>	
	<p>HYDRAULIC COOLER</p> <p>Type Frame/Tank</p>	<p>STEERING SYSTEM</p> <p>Type Front wheel hydraulic skid steer via foot operated treadle control system.</p>	
	<p>HYD./ENG COOLER SYSTEM</p> <p>Type Heat radiation to ambient via high surface area of frame structure</p>		

Dimensions



LOWEST COST per ton solutions

LOW fuel consumption

LOW maintenance

DESIGNED for field loading operations

**Where agility and a light
foot print are REQUIREMENTS**

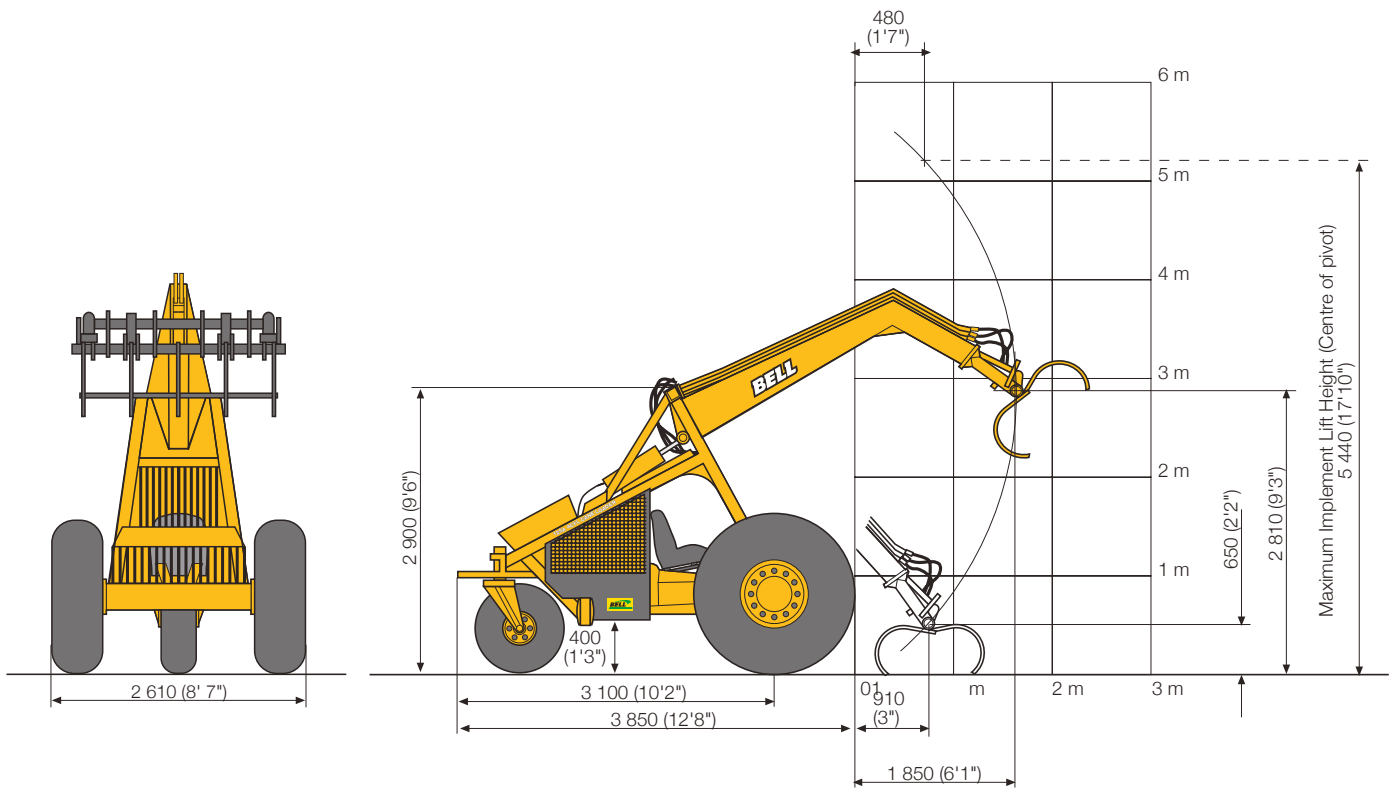
Specifications - I25A Cane Loader (4 cylinder)

<p>ENGINE</p> <p>Model Deutz F4L912</p> <p>Configuration 4 cylinder, in-line, air cooled with integrated blower fan</p> <p>Governed Power 46 kW</p> <p>Max Torque 230 Nm @ 1500 rpm</p> <p>Governed Full Power Engine Speed 2 000 rpm</p> <p>Aspiration Naturally aspirated</p> <p>Displacement 3 770 cc</p> <p>Fuel Filtration Two stage. Spin-on water separator primary, replaceable spin-on secondary</p>	<p>DRIVE MOTORS</p> <p>Type Axial piston, closed loop</p> <p>TRANSMISSION CHARGE CIRCUIT</p> <p>Type Gear, Open centre</p> <p>WHEEL DRIVE SYSTEM</p> <p>Drive Motor Series #27</p>	<p>HYDRAULIC TANK</p> <p>Type Integral with tubular frame</p> <p>Oil Type Rando HDZ 68 hydraulic fluid</p> <p>Capacity 140 l (150 l for system)</p> <p>Breather Remote to filler cap, 3 Micron, 0,75 bar pressurised</p> <p>Cleaning Cleaning via bolt on hydraulic filter housings</p>	<p>CABIN</p> <p>Type Integral with steel frame. No doors.</p> <p>Guarding HD windscreen guard. Rear engine bay doors</p> <p>Ventilation Open Cabin</p> <p>SAFETY/ERGONOMICS</p> <p>Seat Plate Lockable over-centre lock-down latches x2 to prevent accidental seat plate tip-up</p> <p>Seat Low profile padded seat with lap strap seat belt</p> <p>Rearview Mirrors Frame mounted rear view mirrors with HD steel housings</p>														
<p>EXHAUST</p> <p>Type Rubber frame mounted stainless steel vertical silencer with short stack pipe outlet.</p> <p>Cooling fin hot air outlet Open sided gridded engine covers</p>	<p>DRIVE WHEELS</p> <p>Drive Tyre Type All Traction Field & Road - 8 ply with inner tube</p> <p>Drive Tyre Size 18.4 x 30</p> <p>Drive Wheel Rim 15 x 30, 1 piece</p> <p>Drive Wheel Inflation Pressure 1,5 bar</p> <p>Unladen Ground Pressure Rear 0,41 bar</p>	<p>IMPLEMENT HYD SYSTEM</p> <p>Boom Hydraulic Function Pump Type Gear, open centre, Transmission pomp thru-drive</p> <p>Grapple/Rotator/Tele Hyd. functions Pump Type Gear, open centre, engine geartrain drive</p>	<p>WARNING/CUTOFF SYSTEMS</p> <p>Alternator, no charge light "D" terminal switch</p> <p>Blower Fan Belt-Breakage warning Mechanical auto cut-off</p> <p>Engine Oil Pressure Light Pressure sensor switch-on point: 0,25+ .1 bar</p>														
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Specifications (Regulated) - I25A Cane Loader (4 cylinder)

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<p>ENGINE/TRANS. COUPLING</p> <p>Type Bell nylon gear coupling</p>	<p>DRIVE TYRE SIZE 18.4 x 30</p>	<p>IMPLEMENT HYD SYSTEM</p> <p>Boom Hydraulic Function Pump Type Gear, open centre, Transmission pump thru-drive</p>	<p>REGULATED SPECIFICATIONS</p> <p>Options</p> <ul style="list-style-type: none"> • Reverse Alarm • Mirrors and Guards • Inclinator • Exhaust guard • Dual counter weights • Groundlevel greasing for all points • Lockable engine bay • Hose burst protection on boom cylinder supply 														
<p>HYDROSTATIC TRANSMISSION</p> <p>Type Variable displacement closed loop manual control axial piston tandem pump. Closed Loop motor circuit with remote charge pump, filtered charge pressure with non-filtered direct-return to tank.</p>	<p>DRIVE WHEEL RIM 15 x 30, 1 piece</p>	<p>Grapple/Rotator/Tele Hyd. functions Pump Type Gear, open centre, engine geartrain drive</p>	<p>SWL 500 kg</p> <p>Noise Level 93 dB @ operator seat</p>														
<p>DRIVE PUMPS</p> <p>Type Axial piston, closed loop, manual control swash plate</p> <p>Control Direct control, foot linkage</p>	<p>DRIVE WHEEL INFLATION PRESSURE 1,5 bar</p>	<p>FUEL TANK</p> <p>Type Remote to frame, rear mounted</p>	<p>WARNING/CUTOFF SYSTEMS</p> <p>Alternator, no charge light "D" terminal switch</p>														
	<p>UNLADEN GROUND PRESSURE REAR 0,41 bar</p>	<p>VOLTAGE 12 V</p>	<p>Blower Fan Belt-Breakage warning Mechanical auto cut-off</p>														
	<p>TAIL WHEEL</p> <p>Tail Wheel Tyre Type High Flotation Implement, 10 Ply with inner tube</p>	<p>STARTER MOTOR RATING 2,7 kW</p>	<p>Engine Oil Pressure Light Pressure sensor switch-on point: 0,25+ .1 bar</p>														
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	<p>BRAKES</p> <p>Service Brake Type Closed loop hydrostatic wheel retardation.</p>	<p>BATTERY ISOLATOR SWITCH Single pole type, accessible alongside seat</p>															
	<p>Park Brake Type Spring applied, hydraulic release wet multi disc</p>	<p>IGNITION SOLENOID 130A</p>															
	<p>ATTACHMENT</p> <p>Type Bell Series 36 Cane</p>	<p>LIGHTS Relay switching, 30 Amp circuit breaker</p>															
	<p>BOOM/MAST</p> <p>Type Welded yoke crankboom</p>	<p>STEERING SYSTEM</p> <p>Type Front wheel hydraulic skid steer via foot operated treadle control system.</p>															
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Dimensions



LOWEST COST per ton solutions

LOW fuel consumption

LOW maintenance

DESIGNED for field loading operations

**Where agility and a light
foot print are REQUIREMENTS**

Specifications - 220A Cane Loader

ENGINE

Model
Deutz F4L912

Configuration
4 cylinder, in-line, air cooled with integrated blower fan

Governed Power
46 kW

Max Torque
230 Nm @ 1500 rpm

Governed Full Power Engine Speed
2 150 rpm

Aspiration
Naturally aspirated

Displacement
3 770 cc

Fuel Filtration
Two stage. Spin-on water separator primary, replaceable spin-on secondary

EXHAUST

Type
Rubber frame mounted stainless steel vertical silencer with short stack pipe outlet.

Cooling fin hot air outlet
Open sided gridded engine covers

AIR CLEANER

Type
Dual (primary & safety) paper element cyclonic canister type with restriction visual indicator.

Pre Cleaner Type
Cyclonic dust bowl. Daily emptying requirement.

FUEL INLET SYSTEM

Water Separator Primary Filter- spin-on
Engine mounted, 5 microns

Secondary Filter- spin-on
Engine mounted, 5 microns

ENGINE/TRANS. COUPLING

Type
Bell nylon gear coupling

HYDROSTATIC TRANSMISSION

Type
Variable displacement closed loop manual control axial piston tandem pump. Closed Loop motor circuit with remote charge pump, filtered charge pressure with non-filtered direct-return to tank.

DRIVE PUMPS

Type
Axial piston, closed loop, manual control swash plate

Control
Direct control, foot linkage

DRIVE MOTORS

Type
Axial piston, closed loop

TRANSMISSION CHARGE CIRCUIT

Type
Gear, Open centre

WHEEL DRIVE SYSTEM

Drive Motor Series
#27

DRIVE WHEELS

Drive Tyre Type
All Traction Field & Road - 8 ply with inner tube

Drive Tyre Size
18.4 x 30

Drive Wheel Rim
15 x 30, 1 piece

Drive Wheel Inflation Pressure
1,5 bar

Unladen Ground Pressure Rear
0,43 bar

TAIL WHEEL

Tail Wheel Tyre Type
High Flotation Implement, 10 Ply with inner tube

Tail Wheel Tyre Size
400 x 15.5

Tail Wheel Rim
13 x 15.5, 1 piece

Tail Wheel Inflation Pressure
1,0 bar

Unladen Ground Pressure Rear
0,95 bar

BRAKES

Service Brake Type
Closed loop hydrostatic wheel retardation.

Park Brake Type
Spring applied, hydraulic release wet multi disc

ATTACHMENT

Type
Bell Series 42 Cane

Capacity
0,42 m²

BOOM/MAST

Type
Bolted yoke crankboom

HYDRAULIC COOLER

Type
Frame

HYD./ENG COOLER SYSTEM

Type
Heat radiation to ambient via high surface area of frame structure

HYDRAULIC TANK

Type
Integral with tubular frame

Oil Type
Rando HDZ 68 hydraulic fluid

Capacity
140 l (150 l for system)

Breather
Remote to filler cap, 3 Micron, 0,75 bar pressurised

Cleaning
Cleaning via bolt on hydraulic filter housings

IMPLEMENT HYD SYSTEM

Boom Hydraulic Function Pump Type
Gear, open centre, Transmission pump thru-drive

Grapple/Rotator/Tele Hyd. functions Pump Type
Gear, open centre, engine geartrain drive

FUEL TANK

Type
Remote to frame, rear mounted

Capacity
76 l

ELECTRICAL SYSTEM

Voltage
12 V

Starter motor rating
2,7 kW

Alternator rating
14V/55A

Battery Rating
100 Ah

Fuse box
Inside cabin- instrumentation box

Overload Protection
Main line circuit breaker
300A at battery terminal, 60A on Firewall

Battery Isolator Switch
Single pole type, accessible alongside seat

Ignition Solenoid
130A

Lights
Relay switching, 30 Amp circuit breaker

STEERING SYSTEM

Type
Front wheel hydraulic skid steer via foot operated treadle control system.

CABIN

Type
Integral with steel frame. No doors.

Guarding
HD windscreen guard. Rear engine bay doors

Ventilation
Open Cabin

SAFETY/ERGONOMICS

Seat Plate
Lockable over-centre lock-down latches x2 to prevent accidental seat plate tip-up

Seat
Low profile padded seat with lap strap seat belt

WARNING/CUTOFF SYSTEMS

Alternator, no charge light "D" terminal switch

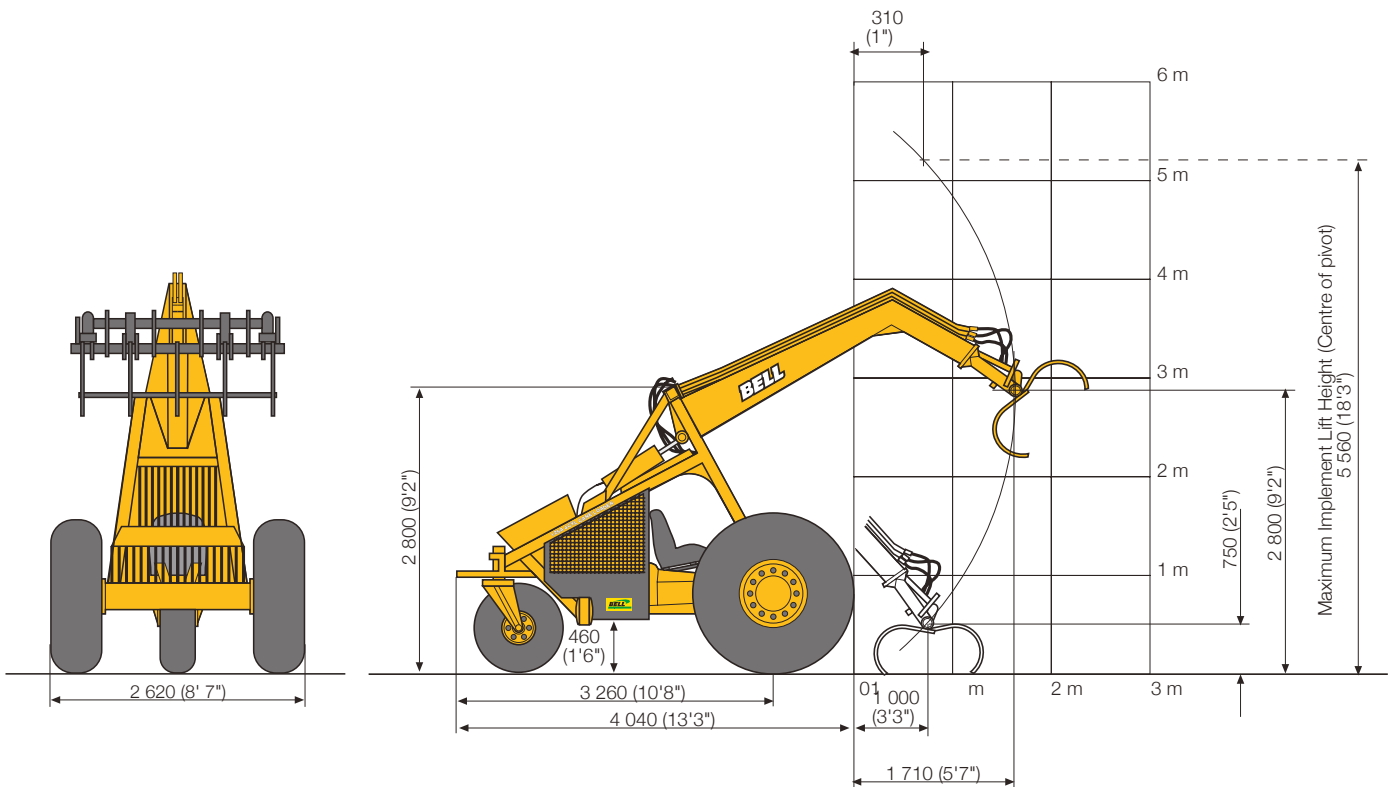
Blower Fan Belt-Breakage warning
Mechanical auto cut-off

Engine Oil Pressure Light
Pressure sensor switch-on point: 0,25+ .1 bar

OPERATING MASSES

Unladen Front	3 230 kg
Unladen Rear	1 700 kg
Unladen Total	4 930 kg
Shortest Wheelbase	2 458 kg
Load distance ahead of front axle	2 500 mm
Outstretched Tipping load	1 671 kg
SWL - Payload	950 kg

Dimensions



LOWEST COST per ton solutions

HIGH power

LOW maintenance

DESIGNED for zone loading, where **HIGH** power and capacity make for **HIGH** efficiency



Please note that all information supplied in this manual is intended to assist the customer in understanding the general applications of the Bell Equipment sugarcane handling range of machines.

Performance information is intended for estimating purposes only. Due to the many variables unique to individual operations such as weather, terrain, ground conditions, operator productivity, etc neither Bell Equipment Company nor its dealers warrant that the machines described will perform as estimated.

Due to Bell Equipment's policy of constant product improvement, specifications are subject to change without notice.

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**Strong Reliable Machines
Strong Reliable Support**

BELL