

Pro-series

CanePro | LogPro



Right tool for the job

Pro-series machines are purpose-built zone-loading tools focused on high-volume, low-cost-per-tonne logistics. With working load limits of 1 750 kg, the Pro-series offers unmatched turnaround times coupled with class-leading efficiency and safety.

Developed as a cost-effective zone-loading solution for sugarcane and timber operations, the Pro-series features an electric-over-hydraulic drive concept with efficiency at its core, adding to operator ergonomics and technological advancement.

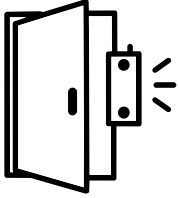
The innovative chassis design creates a low centre of gravity as the operator alternates between loading and manoeuvring. As with all Bell machines, the Pro-series is fitted with components supplied by the world's leading OEM suppliers to provide users with a high-quality product that delivers unrivalled value to operations, where cost-per-tonne is the number one priority.

Unlock the full potential of your harvesting operations with the Bell Pro-series. Engineered for superior performance, unmatched reliability, and exceptional operator comfort, the Bell Pro-series is designed to meet the demands of the grower. Let us explore the remarkable features and benefits of the Bell Pro-series that will revolutionise your harvesting experience.

				
	POWER / TORQUE	GROUND WEIGHT	GRAPPLE SIZE	WORKING LOAD LIMIT
CanePro	63 kW / 320 Nm	8 000 kg	0,7 m ²	1 750 kg
LogPro	63 kW / 320 Nm	7 500 kg	0,5 m ²	1 750 kg

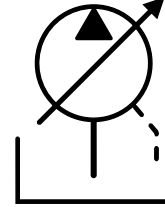


Complete loading solution



Door safety switch

As a standard safety feature, a proximity switch inhibits machine movement when the cabin door is open.



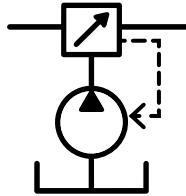
Axial piston pump

A variable displacement pump supplies the exact flow required in any given scenario, ensuring peak efficiency of the hydraulic system.



Stability

Pre-balanced for heavy lifting and manoeuvrability.



Load sensing system

The hydraulic system only demands pump flow when a function is used.



Engine protection parameters

Safety parameters are set to protect the engine and hydraulic components.

Powerful performance

The Bell Pro-series, powered by the JCB Diesel Max 444 T2 NA engine, delivers an impressive 63 kW (84 hp) of power at 2 200 rpm, ensuring a power-packed performance for timber and sugarcane loading operations.

- With peak torque of 320 Nm at 1 200 rpm, the 4.4 litre, four-cylinder, direct injection mechanical engine powering the Bell Pro-series delivers reliable and efficient operation while providing the necessary strength for demanding loading tasks.

- The JCB Diesel Max 444 T2 NA engine features a dry element filtration system with a secondary safety element and an onboard electronic engine protection system. This ensures optimal engine performance and protection during trailer loading while the 150-litre fuel tank capacity keeps productivity high throughout the day.



Versatile handling

The overhead boom of the Bell Pro-series has dual lifting cylinders and internal hose routing for efficient and reliable handling.

- On the Canepro, the MC700 grapple (0,7 m²), featuring replaceable tine tips, guarantees maximum production. The design incorporates a wearing part into the grab which can be replaced quickly, easily and at a low cost.
- On the LogPro, the 0,5 m² MT500LB grapple coupled with the Indexator GV12SA provides long-lasting build quality. Designed and manufactured in-house, the grapple conforms to our motto of strong and reliable.



Each wheel is independently controlled using the drive pedals, including the castoring rear wheel, which allows the operator to rotate the machine on the spot. This provides exceptional manoeuvrability in the confined space between the stockpile and trailer, eliminating the need for three-point turns. Pedal steering frees up the operator's hands so they can keep one hand on the joystick at all times. The result is greater machine efficiency and faster loading times.

Hydrostatics/ tyres

- The spring-applied, hydraulically release park brake will hold the machine unless the operator door is completely closed.
- The hydrostatic drive system uses variable-displacement axial-piston pumps to supply the two-speed drive motors. With a top speed of 15 km/h, the machine is well suited to low-speed loading and operating and travelling to site.
- Equipped with standard 23.1 - 26 tyres, the Bell Pro-series provides reliable traction for enhanced performance.
- The Bell Pro-series can be narrowed to a width of 2 960 mm, making it compact and manoeuvrable.

Electrical system

- The electrical system of the Bell Pro-series includes a single 12-volt battery and a 14-volt 95-amp alternator. With LED worklights, a reverse alarm, and a hooter, you can work with confidence and safety in all conditions.

Smooth operator

- The Bell Pro-series is equipped with a variable-displacement axial-piston pump and a load-sensing hydraulic system. The single control valve with integrated flow sharing provides optimal hydraulic performance. The onboard electronic protection system and CANbus-driven operator controls, provide low-effort precision control and enhanced safety.
- The hydraulic system delivers a high flow rate of 100 l/min @ 1 800 rpm, ensuring efficient and responsive hydraulic operations during timber and sugarcane loading. With a system pressure of 250 bar and an ample 100-litre hydraulic tank capacity, the Pro-series guarantees smooth and reliable hydraulic performance.
- The Bell Pro-series focuses on operator comfort and productivity with its rubber-mounted, glazed, and air-conditioned operator cab providing a comfortable working environment even in challenging conditions. The ergonomic operator controls, including the multi-function joystick, make operating the Pro-series precise and effortless, enhancing productivity and reducing operator fatigue. The large window and foot window of the Pro-series improves visibility, allowing operators to navigate loading operations with ease. The fully-adjustable operator seat, along with the four-point safety harness, ensures operator comfort and safety. The ROPS/FOPS/OPS compliant operator cab on the LogPro & ROPS on the CanePro further enhances safety and convenience for the operator while complying with industry safety requirements.

Camera screen

The standard-fit Brigade camera system gives the operator a clear view behind the machine, while the boom-mounted camera provides a comprehensive view of the load inside the trailer or train. This ensures safety when manoeuvring and helps optimise load packing. The screen can display either camera view individually or both views in split-screen mode.

LCD display

The multi-function interactive touchscreen shows real-time monitoring and diagnostics of all system parameters to support peak performance. For safe operation and optimal performance, the LCD also displays the machine's longitudinal and lateral angles, as well as its pitch.

Joystick

Pro-series joysticks blend ergonomics, ruggedness, functionality, and flexibility to provide the perfect tool for precise and effortless control, supporting productivity and reducing operator fatigue.

Air conditioner

The standard HVAC unit offers cooling, heating and fan settings, with three fan speeds and adjustable temperature control, making the air conditioner a crucial component in operator ergonomics and comfort.



ENGINE

JCB Diesel Max 444 T2 NA
Power: 63 kW (84 hp) @ 2 200 rpm
Peak torque: 320 Nm (236 lb-ft) @ 1 200 rpm
4.4 litre, 4-cylinder, direct injection
Mechanical engine: Equipped with a dry element filtration system with secondary safety element
Onboard electronic engine protection system
Fuel tank capacity: 150 litres

DRIVE SYSTEM

Hydrostatic drive system: variable-displacement axial-piston pump
Two wheel drive
Two-speed drive motors
Maximum speed: 15 km/h (9.4 mph)

AXLES AND TYRES

Rigid front axle
Single rear castoring wheel
Steering by differential drive: operator pedal controlled
Tyre size - front: 23.1 - 26
Tyre size - rear: 500/50 - 17

BRAKES

Hydrostatic dynamic braking system
Spring-applied hydraulically released park brake

GRAPPLE AND ROTATOR

Free hanging timber grapple: Bell MT500LB (0.5 m²)
Rotator: Indexator heavy-duty GV12SA

HYDRAULIC SYSTEM

Variable-displacement axial-piston pump
Load-sensing hydraulic system
Single control valve with integrated flow sharing
Onboard electronic hydraulic system protection system
CANbus operator controls: low effort precision control
Hydraulic tank capacity: 100 litres

ELECTRICAL SYSTEM

Single battery: 12 volt
Alternator: 14 volt 95 amp
LED worklights, reverse alarm & hooter

OPERATOR STATION

Good visibility around the machine from the operator position

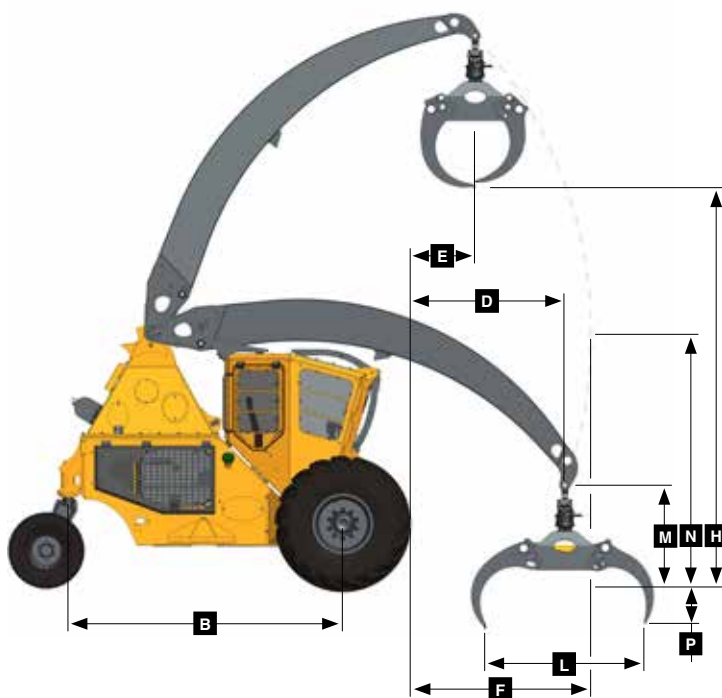
Rubber-mounted operator cab
Polycarbonate glazed and HVAC air-conditioned operator cab
Ergonomic operator controls: single joystick primary control
Instrumentation: LCD display for all systems parameters monitoring and diagnostics
Fully adjustable operator seat with four-point safety harness
ROPS/FOPS/OPS compliant operator cab

WEIGHTS AND DIMENSIONS

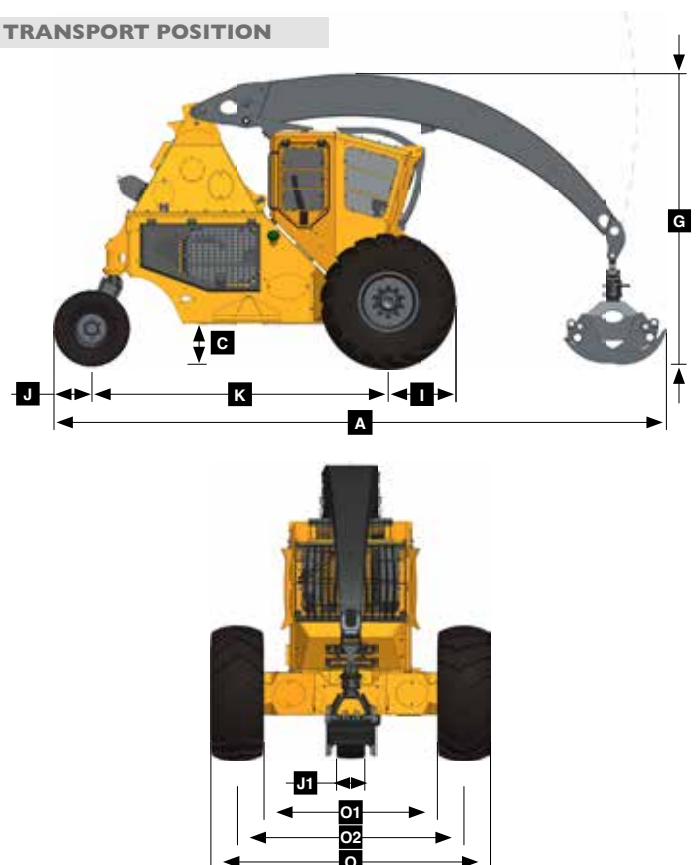
Overall width: 3 210 mm (2 960 mm turned in)
Max lift height (measured under grab): 4 577 mm
Safe lifting load: 1 750 kg
Operating weight: 8 135 kg

Dimensions

OPERATING POSITION



TRANSPORT POSITION



MACHINE DIMENSIONS

A	Length - transport position, grab closed	7 030 mm	J1	Tailwheel tyre width	324 mm
B	Front axle to tailwheel centre	3 150 mm	K	Front axle centre to tailwheel centre	3 400 mm
C	Ground clearance	480 mm	L	Grab open MT500LB	1 828 mm
D	Reach-grab @ min level	1 765 mm	M	Grab height MT500LB	1 168 mm
E	Reach, boom up	738 mm	N	Height @ max reach	2 900 mm
F	Max reach	2 071 mm	O	Width over tyres	3 200 mm
G	Height - transport with grab closed	3 335 mm	O1	Inside tyre width	2 000 mm
H	Load over height	4 584 mm	O2	Track width	2 600 mm
I	Front tyre radius	779 mm	P	Below ground reach	418 mm
J	Tailwheel free radius	470 mm			

ENGINE

JCB Diesel Max 444 T2 NA
Power: 63 kW (84 hp) @ 2 200 rpm
Peak torque: 320 Nm (236 lb-ft) @ 1 200 rpm
4.4 litre, 4-cylinder, direct injection
Mechanical engine: equipped with a dry element filtration system with secondary safety element
Onboard electronic engine protection system
Fuel tank capacity: 150 litres

DRIVE SYSTEM

Hydrostatic drive system: variable-displacement axial-piston pump
Two wheel drive
Two-speed drive motors
Maximum speed: 15 km/h (9.4 mph)

AXLES AND TYRES

Rigid front axle
Single rear castoring wheel
Steering by differential drive: operator pedal controlled
Tyre size - front: 23.1 - 26
Tyre size - rear: 500/50 - 17

BRAKES

Hydrostatic dynamic braking system
Spring-applied hydraulically released park brake

CANE GRAPPLE

Bell MC700 (0.7 m²)
Tilt function with replaceable tines and tine tips

HYDRAULIC SYSTEM

Variable-displacement axial-piston pump
Load-sensing hydraulic system
Single control valve with integrated flow sharing
Onboard electronic hydraulic system protection system
CANbus operator controls: low effort precision control
Hydraulic tank capacity: 100 litres

ELECTRICAL SYSTEM

Single battery: 12 volt
Alternator: 14 volt 95 amp
LED worklights, reverse alarm & hooter

OPERATOR STATION

Good visibility around the machine from the operator position

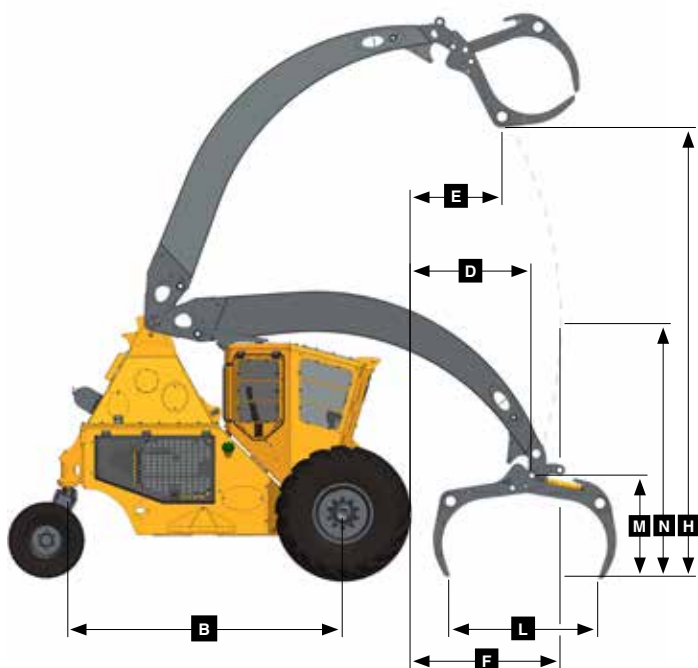
Rubber-mounted operator cab
Polycarbonate glazed and HVAC air-conditioned operator cab
Ergonomic operator controls: single joystick primary control
Instrumentation: LCD display for all systems parameters monitoring and diagnostics
Fully adjustable operator seat with four-point safety harness
ROPS compliant operator cab

WEIGHTS AND DIMENSIONS

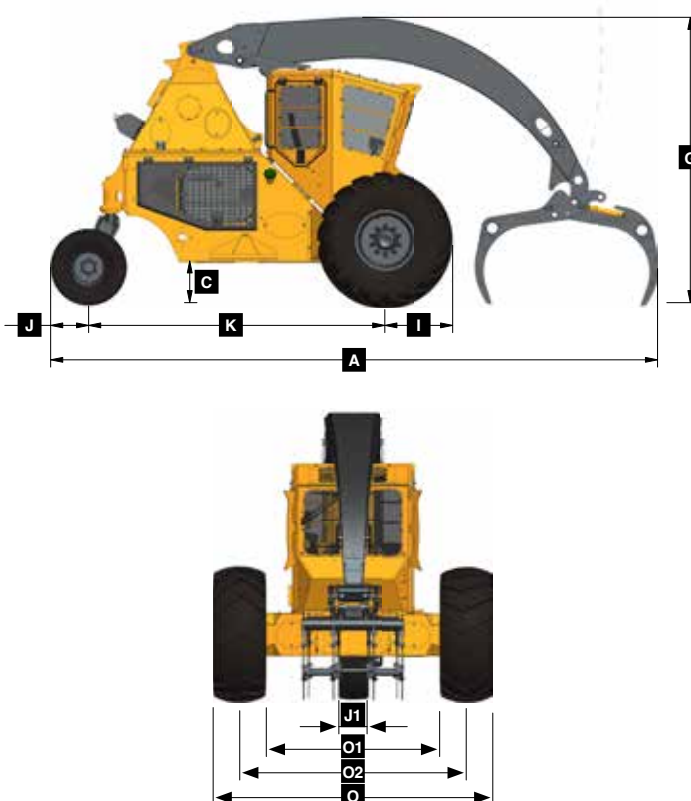
Overall width: 2 960 mm
Max lift height (measured under grab): 4 857 mm
Safe lifting load: 1 750 kg
Operating weight: 8 020 kg

Dimensions

OPERATING POSITION



TRANSPORT POSITION



MACHINE DIMENSIONS

A	Length – transport position, grab open	6 967 mm	J	Tailwheel free radius	436 mm
B	Front axle to tailwheel centre	3 150 mm	J1	Tailwheel width	324 mm
C	Ground clearance	480 mm	K	Front axle centre to tailwheel centre	3 400 mm
D	Reach-grab @ ground level	1 387 mm	L	Grab open MC700	1 710 mm
E	Reach, boom up	1 055 mm	M	Grab height MC700	1 161 mm
F	Max reach	1 721 mm	N	Height @ max reach	2 900 mm
G	Height – transport with grab open	3 275 mm	O	Width over tyres	3 210 mm
H	Load over height	5 151 mm	O1	Inside tyre width	1 990 mm
I	Front tyre radius	779 mm	O2	Track width	2 600 mm



Technical specifications and designs may vary according to options available from time to time. With our policy of continuous improvement we reserve the right to change details without prior notice. Photographs, diagrams & drawings featured in this brochure may include optional equipment.

BELL HEAD OFFICE - RICHARDS BAY

Tel: +27 (0) 35-907 9297

E-mail: connect@bellequipment.com

www.bellequipment.com



**Strong Reliable Machines
Strong Reliable Support**

BELL