

# Skogger

EXTRACT | ACCUMULATE | SORT | STACK | LOAD | FELL



**BELL**

# The forester's friend

Our unique cross between a skidder and a logger, the Bell Skogger is the ultimate timber extraction machine that combines power, versatility, and efficiency to streamline every stage of the timber extraction process.

With its advanced features and robust construction, the Bell Skogger is designed to handle the toughest logging operations with ease.

Developed to be a flexible and cost-effective timber handling solution for mechanised timber operations, the four-wheel drive (4WD) Skogger design concept has versatility at its core. While developed with primarily an extraction application in mind, the boom and grapple configuration lends itself perfectly to the accumulation of timber infield for extraction, sorting, stacking, and loading timber. There is also an option to install a felling kit, which utilises a felling head where tree size, terrain, or underfoot conditions necessitate a heavier 4WD carrier.

To promote exceptional performance the Skogger utilises a simple and efficient hydrostatic-mechanical drivetrain with good ground clearance and a low centre of gravity. Its comfortable and ergonomic rubber-mounted operator cab is air-conditioned and boasts a 180° swivelling operator seat and excellent all-around visibility.

As with all Bell machines, the Skogger 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 timber operations where cost-per-tonne is the number one priority.



## Optional winch

The winch is a powerful tool that improves the Skogger's capabilities in rough terrain. It can easily retrieve logs from difficult locations, handle heavy loads, and navigate dense forests and steep slopes. Integrated into the Skogger, the winch streamlines logging operations to make them more efficient, safe, and effective in harsh environments.

The Skogger can reduce its environmental impact by using the winch to access logs from remote or sensitive areas thereby contributing to the preservation of natural habitats and ecosystems while ensuring sustainable logging practices.

# Complete logging solution

# Powerful performance

## Extract

As a versatile and cost-effective extraction timber handler, the Skogger can transport logs from the forest to designated landing areas in a timely and efficient manner. Its powerful engine and advanced traction control enable the Skogger to navigate difficult terrains and ensure smooth, trouble-free timber extraction operations.



## Accumulate

The Bell Skogger can help loggers save time and effort thanks to its ability to gather and accumulate logs quickly, thereby accelerating timber accumulation operations. In addition, the Skogger can handle and accumulate timber of varying sizes and shapes, which ensures efficient operations and maximises productivity.



## Sort

Organising and categorising logs based on quality, size and intended use is simple and effective with the Skogger and promotes optimal resource management and higher profitability.



## Stack

Powerful hydraulics and precise controls enable the Bell Skogger to stack logs quickly and easily, with precision and efficiency, to help customers increase productivity.



## Load

The boom and grapple configuration makes it's easy to load logs of different sizes, even in challenging terrain, while the Skogger's powerful hydraulics and precise controls enable the efficient loading of logs for higher productivity.



## Fell

The Skogger, with its excellent manoeuvrability and stability, fitted with the MT50FH dangle felling head, packed with enough power to efficiently handle even the largest trees, is the perfect solution for felling and extracting timber in difficult terrain.

The Bell Skogger, powered by the JCB Diesel Max 444 T2 Turbo engine, delivers an impressive 74kW of power at 2 200rpm, ensuring a power-packed performance for timber extraction operations.

- With its peak torque of 425Nm at 1 300rpm, the Bell Skogger's 4.4 litre, four-cylinder, direct injection mechanical engine guarantees reliable and efficient operation while providing the necessary strength for demanding logging tasks.
- The JCB Diesel Max 444 T2 Turbo 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 timber extraction while the Skogger's 150-litre fuel tank capacity keeps productivity high throughout the day.



# Versatile handling

The Bell Skogger's overhead boom is equipped with dual lifting cylinders and internal hose routing to ensure efficient and reliable timber handling.

- With the Indexator GV12SA rotator and Matriarch MT500LB grapple (0.5m<sup>2</sup>), featuring the innovative RE-GRIP feature, the Bell Skogger is effective in maximising productivity for logging companies.



## Durable axles and tyres for superior performance

The Bell Skogger's rigid front axle and oscillating rear axle make it a master of uneven terrains, effortlessly conquering challenging landscapes during timber extraction operations.

With a rear axle oscillation travel of 30 degrees, stop to stop, the Skogger has exceptional manoeuvrability, allowing operators to navigate tight spaces and difficult terrain with ease.

Equipped with standard 23.1 - 26 (16 ply) tyres, the Bell Skogger provides reliable traction. For enhanced performance and even greater traction, an optional 18.4 - 30 (16 ply) tyres configuration is available for the toughest logging environments.



# Precise control

With frame articulation of 86 degrees, stop to stop, the Bell Skogger exhibits outstanding manoeuvrability, effortlessly navigating through tight spaces during timber extraction operations.

- The operator joystick ensures precise steering control for smooth and efficient operation that enhances the overall productivity and ease of use for the operator.
- The Skogger's hydrostatic braking system, coupled with wheel-mounted dry-disc calipers on the front axle and an inboard driveline mounted disc brake, provides reliable and responsive braking performance, ensuring safety during logging operations. The spring-applied, hydraulic release dry disk brake serves as a dependable park brake, with the additional Hill Assist feature enhancing safety on inclines.

## Effortless manoeuvrability with hydrostatic drive system

The Bell Skogger's hydrostatic drive system, equipped with a variable displacement, axial piston pump, provides seamless and efficient operation, allowing smooth navigation through diverse terrains.

With high and low range options and a maximum speed of 20km/h (12.5mph), the Bell Skogger effortlessly manoeuvres through challenging landscapes, ensuring timely and efficient timber extraction.

The Skogger's four-wheel drive system guarantees optimal traction, while the heavy-duty outboard planetary limited slip differential lock provides stability and control for safe and reliable operation even in rugged logging environments.

# Smooth operator

The Skogger's hydraulic system delivers a high flow rate of 100l/min @ 1 800rpm, ensuring efficient and responsive hydraulic operations during timber extraction.

With a system pressure of 250 bar and an ample 80 liter hydraulic tank capacity, the Skogger guarantees smooth and reliable hydraulic performance, providing the necessary power and control throughout a wide range of logging activities.

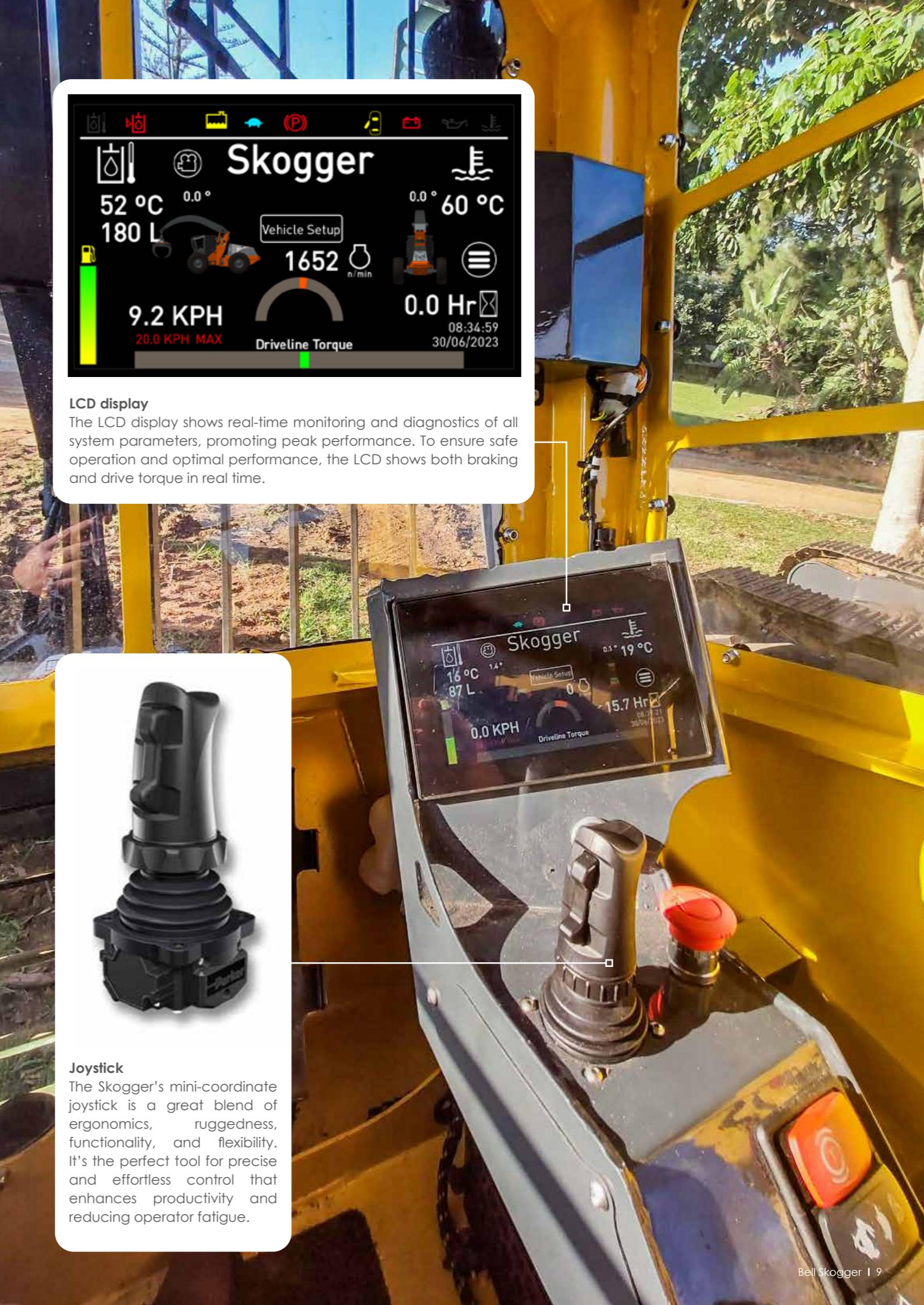
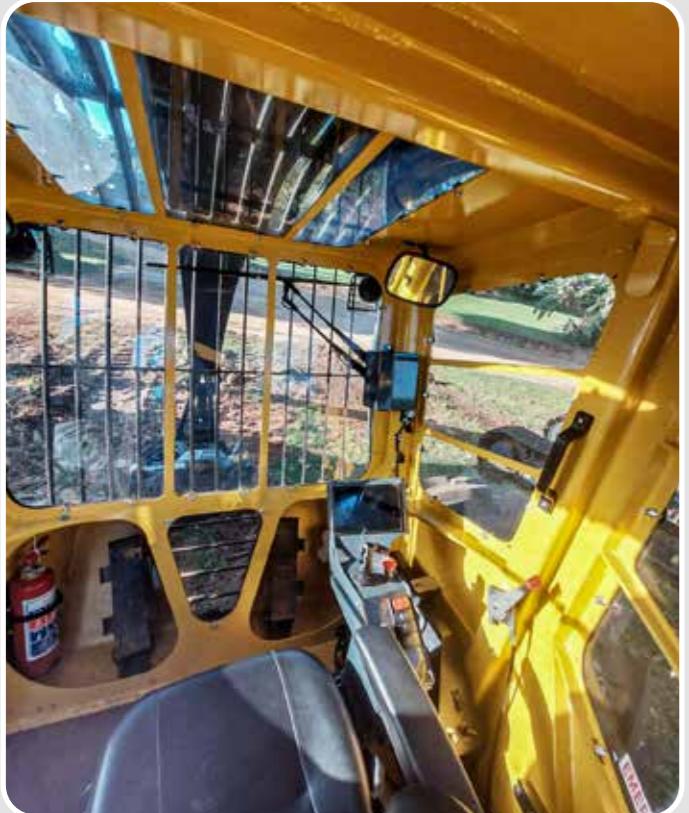
## Operator-focused design for comfort and productivity

The Bell Skogger 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 mini-coordinate joystick, make operating the Skogger precise and effortless, enhancing productivity and reducing operator fatigue.

The 180° swivel seat of the Skogger improves visibility and manoeuvrability, allowing operators to navigate logging operations with ease. A reverse camera is available as an option to improve visibility when reversing.

The ROPS/FOPS/OPS compliant operator cab further enhance safety and convenience for the operator.



LCD display

The LCD display shows real-time monitoring and diagnostics of all system parameters, promoting peak performance. To ensure safe operation and optimal performance, the LCD shows both braking and drive torque in real time.



Joystick

The Skogger's mini-coordinate joystick is a great blend of ergonomics, ruggedness, functionality, and flexibility. It's the perfect tool for precise and effortless control that enhances productivity and reducing operator fatigue.

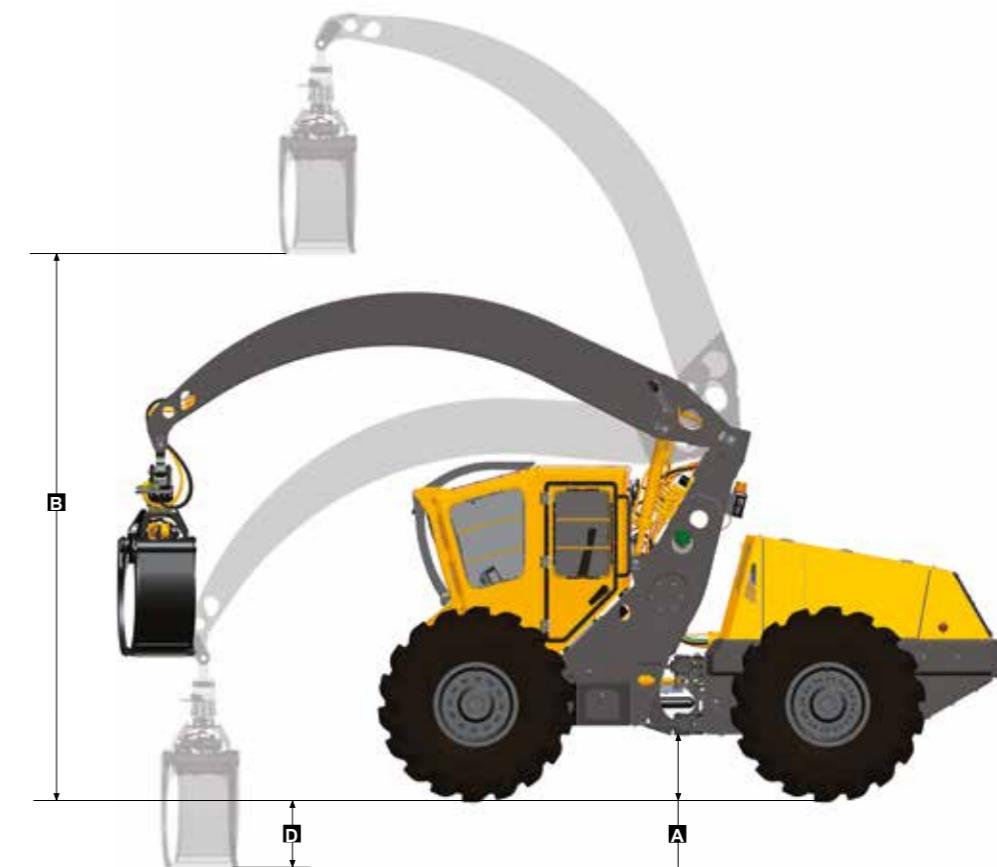
<b>ENGINE</b>	<b>AXLES AND TYRES</b>	<b>BOOM &amp; GRAPPLE</b>	<b>OPERATOR STATION</b>
<b>Manufacturer</b> JCB Diesel Max 444 T2 Turbo	<b>Final drives</b> Heavy-duty outboard planetary. Limited slip differential lock. Rigid front axle. Oscillating rear axle.	<b>Overhead boom with dual lifting cylinders and internal hose routing.</b>	Rubber mounted operator cab. Glazed and air-conditioned operator cab. Ergonomic operator controls - mini-coordinate joystick.
<b>Power</b> 74 kW @ 2 200 rpm	<b>Rotator</b> Indexator		
<b>Peak Torque</b> 425 Nm @ 1 300 rpm	<b>Rear axle oscillation travel</b> 30 degrees, stop to stop	<b>Standard</b> GV12SA	<b>Swivel Seat</b> 180 degrees
<b>Displacement</b> 4.4 litre, 4-cylinder, direct injection	<b>Tyre size</b> Standard: 23.1 - 26 (16 ply) Optional: 18.4 - 30 (16 ply)	<b>Grapple</b> MT500LB (0.5 m <sup>2</sup> ) Including RE-GRIP feature	<b>Instrumentation</b> LCD display for all systems parameters monitoring and diagnostics. Reverse camera. ROPS/FOPS/OPS compliant operator cab.
<b>Mechanical engine</b> Equipped with a dry element filtration system with secondary safety element. Onboard electronic engine protection system.	<b>STEERING</b> Frame articulation 86 degrees, stop to stop	<b>HYDRAULIC SYSTEM</b> Variable displacement, axial piston pump.	<b>TRANSPORT DIMENSIONS</b> Width: 3 034 mm Length: 6 930 mm Height: 3 252 mm
<b>Fuel Tank Capacity</b> 150 litres	<b>Steering control inputs</b> Operator joystick	<b>System Pressure</b> 250 bar	<b>OPTIONAL WINCH</b> Line pull Full drum: 3.3 tons Bare drum: 5.5 tons
<b>DRIVE SYSTEM</b> Hydrostatic drive system Variable displacement, axial piston pump.	<b>BRAKES</b> Service brake Hydrostatic braking, assisted by wheel-mounted dry-disc calipers on front axle, plus inboard driveline mounted disc brake.	<b>Hydraulic tank capacity</b> 80 litres	<b>Line speed 1st gear</b> Full drum: 75 m/min Bare drum: 45 m/min
	<b>Park brake</b> Spring applied, hydraulic release dry disk brake. Hill Assist.	<b>ELECTRICAL SYSTEM</b> Single battery 12 volt	<b>Line speed 2nd gear</b> Full drum: 150 m/min Bare drum: 90 m/min
		<b>Alternator</b> 14 volt 95 amp LED worklights, reverse alarm & hooter.	Cable thickness: Ø10 mm Rope length: 40 m



## Dimensions

### Machine Dimensions

A	Ground clearance-artic	479 mm
B	Grab reach height - boom up - attachment extended	4 456 mm
C	Outer tyre width	2 996 mm
D	Hammer reach height - boom down - attachment retracted	583 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.

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Strong Reliable Support**

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