

# **BELL**

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## E-series wheeled loading shovels

Coal industry



**FREEPHONE 0800 915 7700**  
[sales@bellequipment.co.uk](mailto:sales@bellequipment.co.uk)

**Strong Reliable Machines**  
**Strong Reliable Support**

# Standard equipment on Bell machines

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- **World Class Product, superb pedigree** – Sold by Bell, manufactured in the USA by John Deere and after sales care from Bell's renowned product service and support.
- **Health and safety items fitted as standard** – machine is supplied as a complete package, ready for work.
- **Ground level daily operator checks and fuel fill point**, located on the same side of the machine – easy checks, no risk from working at height.
- **High specification cab** – ensures operator acceptance.
- **Ride control** – eliminates machine fore / aft bounce for increased production.
- **Keyless start** – number coded and Cesar for machine security.
- **Embedded weigh load system** – enables operator to monitor loads.
- **Automatic idle speed reduction and engine shut down** – saves fuel in non productive periods.
- **Return to dig function** – boom down detent speeds cycle times for greater production.
- **Quad cool system** – by far the best cooling system available.
- **Unique oil immersed park brake** – eliminates wear associated with caliper and dry disc type brakes.
- **Cyclonic engine air pre-cleaner** – designed to give additional protection when working in dusty environments during the drier months.
- **Full belly guards to front and rear chassis** – protects high value components to ensure durability and reliability.
- **100% hydraulically locking front axle differential** – machine achieves high tractive force (pushing power) even when working in slippery conditions.
- **Traction control** – minimises wheel spin to prolong tyre life.
- **Transmission limiter** – possible to set the maximum gear to limit the machine on site speed.
- **Steel bodywork panels** – uncommon in the industry today, these resist knocks better than plastic / composite panels and are easily repaired.



# Features and benefits in more detail



■ To help meet UK health and safety requirements the Bell Wheeled Loading Shovel **standard equipment** includes:

- Flat and convex exterior mirrors,
- Full front and rear fenders,
- Blue strobe reverse lights,
- Cab roof mounted seat belt warning system and beacon,
- Rear camera,
- Reverse radar system,
- Reverse alarm.



■ High capacity coal buckets designed specifically for each sites requirements. These can be direct (pin) mounted or quickhitch mounted to the machine.

■ Hydraulic quickhitch is designed to ISO standards.

■ Machine are available with standard loader frame or with high lift loader frames for increased dump height and / or forward reach.

■ High lift loader frames generally increase pin height by 500mm (depending on model).



■ High capacity high tip coal buckets are also designed to meet the sites application and again can be direct (pin) mounted or mounted via a hydraulic quickhitch.

■ High tip buckets add flexibility to a fleet of machines with standard loader frame and quickhitches as they provide extra reach and dump heights for loading high sided coal trailers or rail wagons.

# Features and benefits in more detail



- To increase production Bell Wheeled Loaders are all equipped with ride control as standard. The cut-in speed can be set as low as 3kph so when the machine moves the system activates immediately.
- Ride control smoothes machine fore / aft bounce so improves production as more material is retained in the bucket.
- Cycle times and operator comfort are improved as the system provide hydraulic suspension – especially important when travelling at speed.



- Quad cool system with **wide core radiators** ensure **fins remain clear** from debris and ensure **efficient cooling** performance.
- Proportional cooling means the fan speed increases as cooling demand increases. The machine achieves **fast warm-up** in the cooler months.
- Huge cooling surface area means **lower fan speed, lower noise** and **minimum pick-up** of lightweight site debris.
- Doors on the cooling air intakes incorporate 3mm **fine mesh** grilles to prevent ingress of debris.
- Automatic cooling fan reversals blow **debris well clear** of the radiators and air intake screens to **maintain cooling performance**.
- Swing out fully opening doors give easy access to both sides of every radiator for **total cleaning**.



- Unique oil immersed park brake **eliminates fire risk and wear** associated with disc and caliper type park brakes.

# Features and benefits in more detail



- High power, high torque John Deere engines renowned for **high productivity**.
- Isolated engine compartment **reduces dust** ingress.
- Cyclonic engine air pre-cleaner removes 98% of air borne dust **extending the life** of the standard air cleaner and **improving engine protection**.
- Ground level daily operator checks and fuel fill point, located on **the same side** of the machine – easy checks, **no risk** from working at height.



- **High specification cab includes**
- A high quality, heated air suspension seat with twin arm rests, adjustable steering column, radio / CD player, positive pressure heating and air conditioning system.
- Colour rear view camera and reverse radar warning system for **site safety**.
- Automatic idle speed reduction and engine shut down **saves fuel** in non productive periods.
- Payload system allows the operator to **monitor / maximise loads**.
- Switchgear is condensed into a **sealed switch module** gives **maximum visibility** as cab pillars are stripped of mouldings that normally house switchgear on other machines. A further benefit of the sealed switch module is its **resistance to dust** compared to a more vulnerable rocker type switchgear on other machines.

# Features and benefits in more detail



- Standard height or high lift loader arms mean the machine can be specified to meet the load over and reach requirements of the site.



- Optional silencer, exhaust manifold and turbocharger insulation from thermal engineering specialists Esterline reduces surface temperature to minimise fire risk in particularly dusty environments.



- Optional automatic fire suppression system with manual over ride detects and extinguishes machinery fire.

# Optional equipment

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## Machine protection

- Cab screen guard
- Bucket ram guard
- Articulation guards
- Insulated exhaust manifold
- Insulated exhaust silencer
- High lift arms
- Auxiliary hydraulic circuits
- Coal handling attachments
- Lift ram and chassis cavity guards
- Axle seal guards
- Headlight guards
- Insulated turbocharger
- Fire suppression system
- L5 tyres
- Powered cab air pre-cleaner

## General equipment

- Automatic greasing system
- White noise (BBS) reverse alarm
- Red / white chevrons to rear of machine
- Reverse radar with automatic brake application

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### BELL EQUIPMENT UK LTD

Co. Reg No. 3591436 United Kingdom  
*A member of the worldwide Bell Equipment Group*  
Graycar Business Park, Barton Turns  
Barton-Under-Needwood, Burton-on-Trent, Staffs DE13 8EN

**Tel:** 0800 915 7700

**Fax:** +44 (0) 1283 712687

**Parts Dept:** +44 (0) 1283 716777

**Fax:** +44 (0) 1283 712695

**E-mail:** [general@uk.bellequipment.com](mailto:general@uk.bellequipment.com)

**www.bellequipment.co.uk**