

St. Valentin, 09.11.2019

New high-density flagship introduced to Case IH LB large square baler range for 2020 season

LB436 HD offers 22% greater bale density than alternative LB434 XL model with same 120 x 90cm bale size / New and upgraded features including pick-up, driveline, density system and knotter technology / Innovative new knotters increase density, while endless knot technology cuts twine wastage / Fewer bales per area and crop volume reduces transport and handling

Farmers and contractors seeking to pack more material into every bale to reduce handling requirements and transport costs could benefit from the latest model added to the top of the Case IH LB 4 XL large square baler range for 2020. With new designs and components throughout, the LB436 HD is capable of creating bales with up to 22% greater density than the LB434 XL model, which produces the same 120 x 90cm bale size and remains in the range.

Features unique to the LB436 HD include a new main gearbox and mid-ship gearbox with gearshift overload protection for high power transfer and driveline safety. In addition, an innovative new twine knotter system is designed to boost productivity while eliminating field litter and bale contamination. The LB436 HD is fully ISOBUS Class 3 compatible, meaning not only can it be controlled from an ISOBUS terminal in the tractor cab, but the baler can also control the tractor's actions, such as increasing forward speed in light areas of swaths, to automatically boost workrates.

High-strength construction

Built around a heavy-duty frame, the chassis of the LB436 HD has been constructed to withstand the loads imposed by a high-density system. The drawbar, kept short to aid visibility and manoeuvrability, is bolted to this, and is easily adjusted for the height of different tractor hitches, while the top section of the feeding chamber is an integral part. Benefits for the customer include minimal stress on both baler and tractor.

Pick-up units provide smoother, faster, fuller crop gathering

The 2.35m pick-up fitted to the LB436 HD features a mechanically-driven top-assist roller and roller windguard to ensure effective crop transition even in large swaths. Tines are steel coil types of 5.5mm



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diameter, and are set across five tine bars rather than the four of other Case IH LB models, for swift, clean crop gathering during the highest output baling. Pivotal gauge pick up wheels are an option.

The low friction and flat surfaces of new polypropylene pick-up tine guards provide improved crop flow and smoother feeding, with their lack of curved edges ensuring unimpeded sideways transition from the stub augers. The use of polypropylene also maximises guard lifetime because of its high flexibility and minimal deformation.

Fitted as standard with Rotor Cutter technology

The LB436 HD is equipped as standard with Case IH's Rotor Cutter chopping system, incorporating 29 knives, with an adjustable knife selector allowing 7, 8, 14, 15 or 29 of these to be engaged. The knives are individually protected, and selection is indicated on the in-cab monitor.

Packing more into every bale – new levels of density

To begin baling, it is recommended to engage the tractor PTO at 850rpm. The baler flywheel will speed up in two stages, from 0-684rpm and then from 684-1,244rpm. A message displayed on the tractor's ISOBUS display will then indicate that engagement of second gear is permitted and tractor engine speed can be increased to bring the PTO speed to 1,000rpm, raising the speed of the baler flywheel to its maximum 1,445rpm. As with other main elements of baler operation, ISOBUS control means the operator is fully informed and in control. With the Case IH AFS Pro 700 ISOBUS terminal, the operator now benefits from a new control layout that improves user-friendliness and ease of operation.

The LB436 HD features an adjustable pre-compression chamber with shearbolt protection and a plunger with a maximum speed of 48 strokes/min. Plunger stroke is longer than on the LB434 XL, to move the crop further into the bale chamber and prevent interference with the previous slice when feeding, while plunger force is increased by 150% over that of the LB434 XL, and it is secured by new bolted conrods. Repositioned haydogs improve the clamping of each flake, while new dampers reduce noise levels. The compression channel is longer, and while existing models feature two cylinders for compression, the LB436 HD uses seven, with bigger compression rings. All of these features are designed to ensure as much crop as possible is packed into each ram stroke that despatches material into the bale chamber, for maximum throughput.

There are two density system pumps located on the mid-ship gearbox. The first provides standard density flow, while the second provides high flow for fast closing of the tension rails. The system ensures maintenance of bale chamber pressure after the PTO and the tractor engine have been shut

off. At the rear, a new density ring construction provides improved control of the density doors and the ability to close the doors quickly. The side doors are each controlled by a pair of double-acting hydraulic cylinders, while a further three take care of the top door. Bale length can be altered via a new electric control system on the side of the machine.

TwinePro knotter innovation offers economic and environmental benefits

The new TwinePro knotter system offers multiple benefits, not only for the owner and operator, but also for livestock and for the environment, says Maxime Rocaboy of Case IH.

“Key advantages include the prevention of animal feed contamination and environmental impact by eliminating twine offcuts that can find their way into both the forage and the field. TwinePro knotters also provide a significant increase in tensile strength, and increased daily productivity from greater baling efficiency with reduced twine breakage risk.”

The new knotter system is combined with redesigned needles and a new needle yoke reclaim system. Mounted in a stronger frame to withstand higher plunger loads, with electric knotter fans to keep the units clean, the LB436 HD's six TwinePro knotters use a simple system to create a high-strength loop knot, allowing the operator to use maximum achievable density with a wide range of twines without the risk of bales bursting. The loop-knotting process eliminates offcuts left loose either on the bale – so improving forage quality – or in the field, hence reducing environmental impact.

Primary elements of the system include a new third knotter camgear that adds a third billhook rotation for an active release of the loop knot. There is also a new twine disc with two external notches rather than four, which releases the pressure on the twine at the second knot formation, with an integrated pin lifting the twine disc holder to allow the twine to escape from the disc instead of being cut. The knotter camgear drive powers the twine disc, bill hook and knife arm.

“With TwinePro, once the first standard knot is tied, a second knot – the loop one – is created for additional bale security,” explains Maxime Rocaboy.

“Not only does this loop knot provide increased strength of up to 30% according to twine manufacturer TAMA, resulting in greater baling efficiency and productivity, but it enables well-tied bales of standard density to be made using lower-cost twine, or higher densities to be achieved with standard twine.

Choice of hydraulic control options

Standard hydraulic specification comprises manual hydraulic functions, with electro-hydraulic functionality for the knife drawer and knives and a single-acting hydraulic jack. An optional comfort pack makes it possible to operate functions electro-hydraulically using Power Beyond. This allows the operation of the five hydraulic services required by the baler – pressure, return, load-sensing and dual-line pick-up/jack – plus additional hydraulics operation from the cab, including the bale chute, bale eject and wheel lock.

New axle arrangement for smoother, safer travel

The LB436 HD baler is fitted with a tandem axle as standard. To minimise scrubbing when turning, the rear axle pivots by up to 15 degrees, but can be locked as necessary. An automatic hydraulic locking system is an option.

New for the LB436 HD is hydraulic suspension for the tandem axle. Balers fitted with this option not only provide a smoother ride for the baler, but minimise shock transfer to the tractor and operator, and benefit fuel efficiency. An air braking system is fitted as standard to ensure safe stopping at speed. Tyre options comprise 600/50 R22.5 and 600/55 R26.5 alternatives, offering maximum footprint and soil protection while keeping the baler within 3.0m for road travel.

Easing the servicing workload

The front hood and side panels of the LB436 HD can be easily raised for service and twine spool loading. Additions to make servicing the baler faster and simpler include the option of a new LED service and work light package. Aimed not only at making baling in the dark safer, this also ensures twine refills and any servicing or maintenance tasks required at night can be done easily. For cleaning down the baler, a blow-off system is available as a parts kit, while an on-the-go weighing system, camera, moisture sensing system, data mapping and telematics, and partial or full bale eject are factory-fit options.

Press releases and photos: <http://mediacentre.caseiheurope.com>

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