

XB BIONIC II

INNOVATION WITH TRADITION FOR LIFE.

QUALITY AND LONGEVITY FOR HIGHER YIELDS.





Since 1962, our family business at Statzendorf in Lower Austria has been designing and manufacturing front loaders and loader attachments. It is this longstanding experience together with our customer-focused philosophy that forms the basis on which our high-quality and practical equipment is built. In 2017, the company launched the new and successful XB BIONIC – the world's first front loader which integrates all parallel control componentry inside the boom.

With the XB BIONIC II, this series reached the next level of evolution through continuous development, combining the by now well-proven design of integral tipping cylinders with the patented X kinematics.The XB BIONIC II series was developed to offer our customers new front loaders that make hard work easier every single day and offer new options that help reduce running costs effectively over many years. We set ourselves a very ambitious goal, as Hauer front loaders are already among the longest-serving machines in agricultural use and are recognised for their exceptionally high resale value.

The XB-Bionic II-i models represent the next evolutionary step in the proven XB-Bionic series through the integration of safety features. XB-Bionic II-i models are identified accordingly on the identification plate and, unlike previous XB-Bionic models, can be mounted on suitable front loader mounting brackets either without (or with) additional tractor-side safety valves (tandem safety valves or secondary pressure relief valves integrated into the control valve).



OUR INNOVATIONS

SAFEGUARD YOUR YIELDS

INNOVATION

TRIED AND TESTED.

Adopting the principles of design from Mother Nature proved to be a rewarding approach that takes the hard work out of your daily routine. All moving parts are accommodated inside the boom where they are protected from damage and contamination – a design that not only boosts their lifespan but also saves time spent on servicing and cleaning.

A comparison of the two models shows the clear advantage and sleek design of BIONIC II.





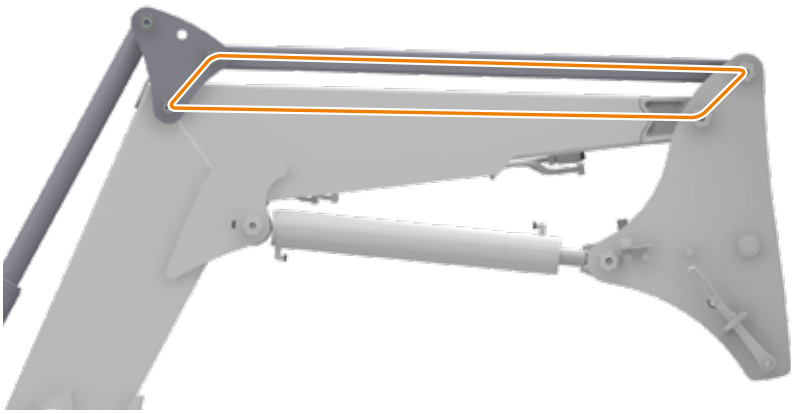




X-kinematics

The patented Hauer X-kinematics redefine the state of art in front loader parallel control manufacturing. By redefining the mechanical parallelogram by using diagonal X-kinematics we have been able to integrate the linkages inside the boom, which results in a much tidier and more compact design.

The X-kinematics



The traditional parallelogram



PRACTICAL
DOWN TO THE SMALLEST DETAIL.

The X-kinematics and the well-designed boom sections make it possible to install the tipping cylinders inside the boom and in addition to that arrange them optimally for maximum efficiency.



The entire face of the piston is active when the attachment is crowded. This boosts the hydraulic power by up to 30% when breaking out and lifting heavy materials, such as when excavating or handling maize and square bales.



With much less oil acting on the ring area of the piston, dumping becomes much faster and costly quick valves are no longer necessary.

Sturdy stands

Agricultural sites are usually rough rather than even. These are the conditions the stands on XB BIONIC II are made for. Robust by design and offering an optimum notching system, they fold into position quickly and easily.





The steel sections have five edges and the cross beam is double-walled, providing a torsion-free structure that withstands the toughest conditions. The cross beam is mounted at an angle to adopt the operator's line of vision for best visibility.

All **valves and hydraulic parts are housed inside** the double-walled cross beam where they are protected from falling materials and objects in forestry work.



Swapping attachments – easy

The attachment itself and the hydraulic couplers are operated from this handle which is conveniently placed on the left side of the quick-coupling carriage.

EXCELLENT OVERVIEW

PERFECT WORK.



Cross beam at an angle

By integrating the parallel control system inside the boom we expanded the operator's field of vision substantially.
The cross beam is mounted at an angle for minimum impairment of operator visibility in every loader position. This translates into a significant increase in work safety, particularly when stacking pallets and boxes to the height of a trailer.





Implement assistant for smooth implement attachment

This yellow indicator is a Hauer-only detail. Fixed to the quick-coupling tube, it aligns with a counterpart decal on the back of the implement, taking the guess work out of coupling.



“Just perfect!
I can see everything I need to see!”

The excellent view makes stacking boxes and pallets as well as driving on public roads a comfortable and safe affair.

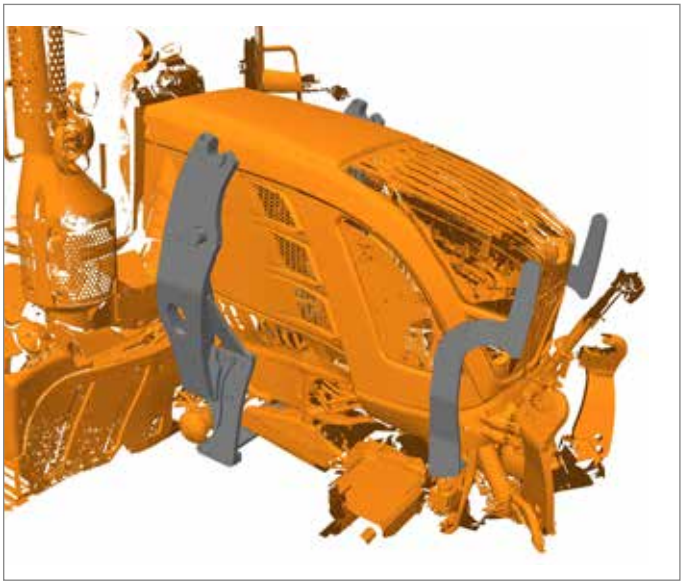
The implement assistant makes attaching an implement a very straightforward procedure. The loader is supplied with a set of decals for marking your existing attachments.





QUICK AND ACCURATE

THANKS TO OPTIMUM LOAD CONTROL



COMPACT, STURDY AND PROFESSIONAL.

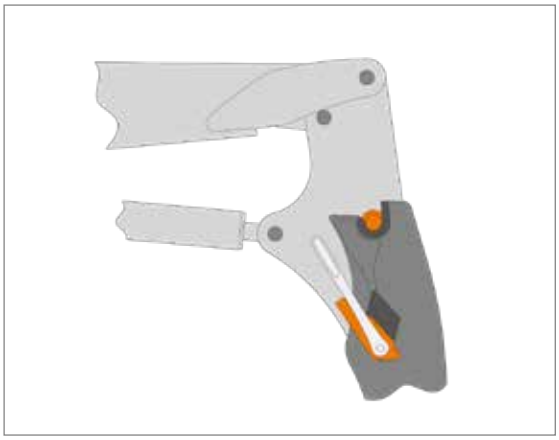
Hauer offers a choice of as many as 3500 different loader brackets, thus providing the optimum solution for every tractor. Over time we developed a host of different systems that suit nearly all tractor makes and models.

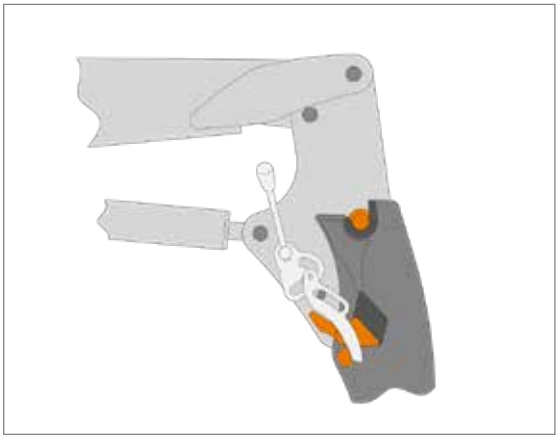
The aim has always been to ensure the best possible stability and the most compact design. Today we use advanced computer aided design and 3D measurements to ensure the brackets meet the exacting tolerances. After all, precision fit is the key for a cost-effective installation of the bracket by your dealer.

XB BIONIC II series brackets
XB 50 - XB 110

TOP-BLOCK is a system that attaches the loader to your tractor without requiring a horizontal beam to the front. At the same time, it is self-locking and hard-wearing. The well-designed system ensures operators enjoy an excellent view of the load.

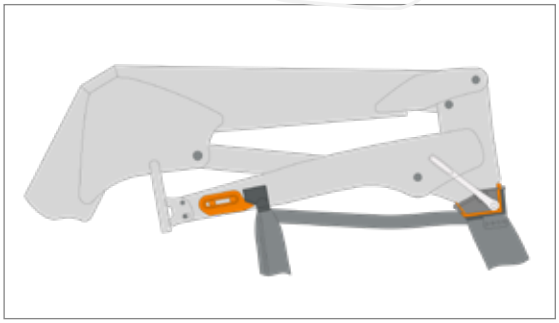
All parts of the system provide a durable, stable and positive-locking attachment to the front loader. The front loader is secured in place by an adjustable double eccentric pin. Attaching and removing the loader is a matter of minutes.





The TOP-BLOCK-KII is available as an option for TOP-BLOCK and locks home automatically.

The **horizontal beam** that links the front and rear part of the bracket – the so-called Hauer **'Oberrahmen-System'** – is used only very rarely on modern tractors. It provides four mounting points to attach the loader to the tractor.





SHEER MUSCLE POWER

MAKES THE TOUGHEST JOBS A SPECIAL EXPERIENCE

A perfect-fit bracket is indispensable for transferring the tractor power efficiently to the loader and handling the load in the optimum way.

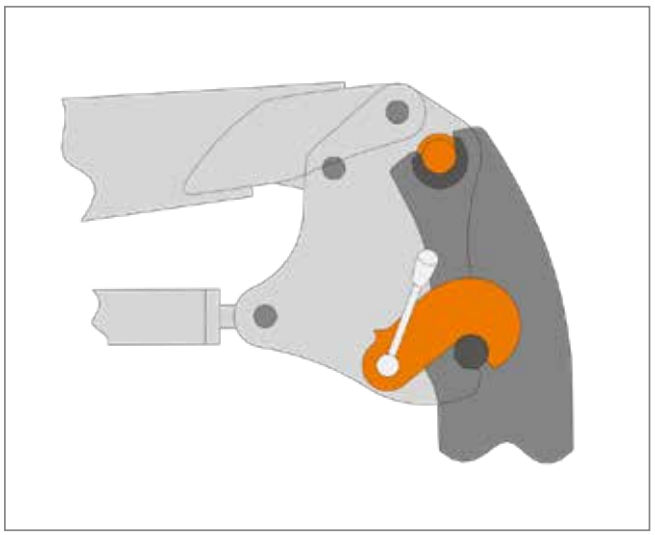
To ensure a good weight distribution to both axles, the loader should be mounted as close to the cab as possible. Thanks to its compact design, the bracket neither affects the turning angle nor the pivot range of the front axle. Also, it makes for easy and convenient access to all service points on the tractor.







HEAVY-DUTY BRACKETS FOR HIGH-HORSEPOWER TRACTORS.



XB BIONIC II series brackets
XB 130 - XB 190

Featuring 60mm bearing bolts and special mounting bosses, this **TBS-HV bracket system** is designed for transferring particularly high forces.

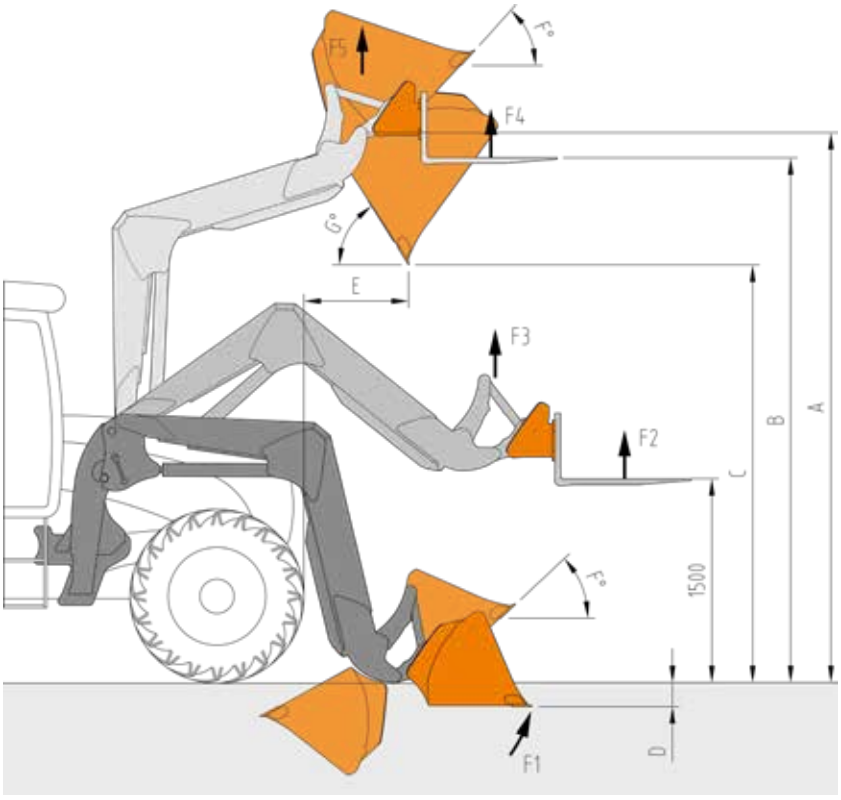
As a standard feature, the new system features an automatic locking system on all models from XB 130 BIONIC II onwards. To remove and park the loader, simply open the bracket with the easy-to-operate lever.

Featuring the finite element method, the **TBS-HV** bracket system is optimised for high-horsepower front loader tractors.



XB BIONIC II
TOP EQUIPMENT INCLUDED.

- XB BIONIC II-i hydraulic front loader featuring internal parallel control motion unit
- Double acting and tilt cylinders
- Integrated pressure relief valve to secure the tilting cylinders
- Tap inside the lifting line
- Adjustable level indicator
- Adjustable stands, manually operated
- Implement assistant for smooth implement attachment
- Hydraulic hoses with flat sealing coupling sleeve ISO 16028-DN10
- Replaceable bronze bushings in all pivot points
- Modular MCV valve chest and hydraulic lines inside the cross beam for best protection
- Implement quick-coupling carriage, prepared for swivel hook, original HAUER, EURO, SMS or MX couplers





Technical Data	
Front loader weight	
Recommended tractor power	
Max. lift height on pivot pin	
Max. lift height, raising a pallet fork	
Drop-off height	
Bucket digging depth	
Dump reach at max. lift height	
Earth bucket break-out force	
Lift force raising a pallet fork to 1500mm	
Lift force on pivot pin at up to 1500mm	
Lift force raising a pallet fork to max. height	
Lift force at max. lift height on pivot pin	
Crowd angle	
Dump angle	



			50	70	90	110	130	150	170	190
		kg	558	572	594	606	784	803	836	854
		HP kW	up to 65 up to 48	up to 80 up to 59	75-100 55-74	90-120 66-88	100-150 74-110	120-200 88-147	150-230 110-169	180-280 132-206
	A	mm	3580	3715	3830	4005	4045	4240	4505	4840
	B	mm	3395	3530	3645	3820	3860	4055	4320	4655
	C	mm	2625	2765	2875	3045	3070	3300	3570	3890
	D	mm	180	180	180	180	180	180	180	180
	E	mm	800	800	800	900	700	750	800	850
	F1	kg	2900	2900	2900	2900	3600	3600	3600	3600
	F2	kg	1440	1740	1950	2160	2570	2770	2540	2900
	F3	kg	1690	1910	2110	2340	2780	2990	2780	3110
	F4	kg	1360	1600	1830	1940	2160	2430	2140	2370
	F5	kg	1580	1770	1980	2090	2470	2560	2730	2530
	F	°	48	49	48	48	43	48	48	48
	G	°	55	54	55	55	58	53	53	53

Illustrations, photos and specifications are approximate and not binding. They may vary slightly depending on the loader's mounting height and tractor tyres. Lift force at 210 bar

WANT MORE COMFORT?
HERE YOU ARE!

Available options:

- Synchro-Lock multicoupler (also available with integral electric coupler)
- Up to three extra hydraulic services
- SMS shock absorber for front loaders - either mechanical or electric
- Joystick cable remote control valve
- ELC ergo 2 joystick featuring electric proportional control
- Swivel hook
- Hydraulic attachment locking system
- Hydraulic 14° left/right slewing mechanism, integrated in the quick-coupling carriage
- Safety package for work cages
- Auxiliary oil lines to hydromotor or remote function, double-acting 12mm internal diameter, left or right
- Custom paint finish of boom and brackets
- V-mirrors (Switzerland)
- Camera holder
- Camera
- Automatic lubrication
- LED lights
- Cross beam guard for forestry work
- Lowering control (permanently active or switchable) mandatory for operation with persons near the load







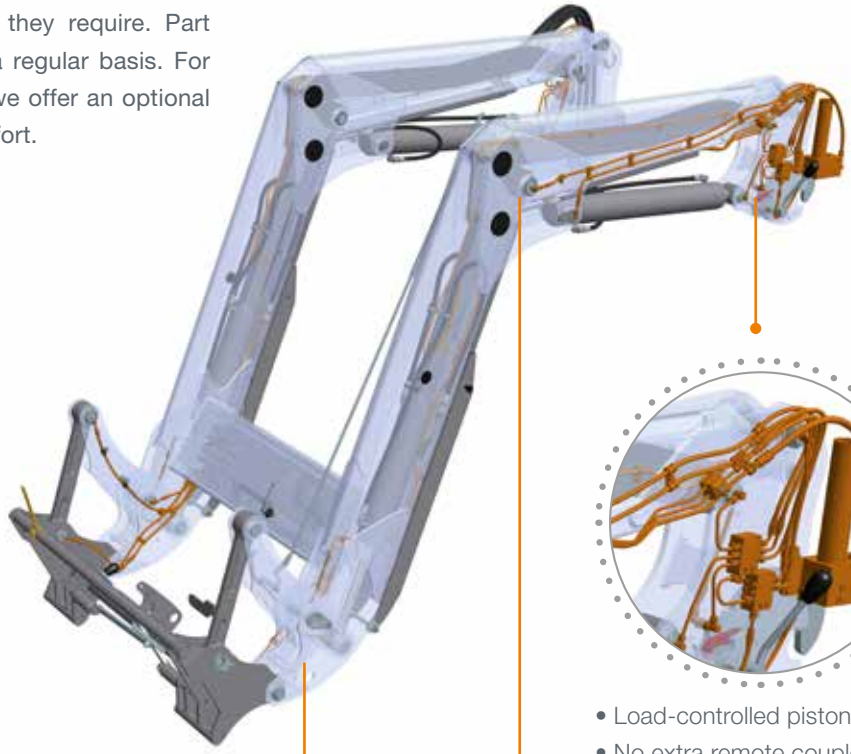




SAVE TIME AND COSTS
AUTOMATIC LUBRICATION.

Enhanced operator comfort

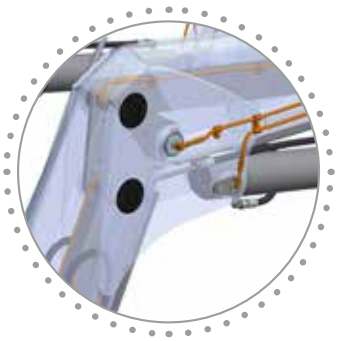
Today, the Hauer front loaders rate among the most durable implements that are used around the farm – provided they receive the minimal amount of attention they require. Part of this is servicing the grease points on a regular basis. For loaders that are worked nearly non stop, we offer an optional auto lubricator for top-notch operator comfort.



- Load-controlled piston pump
- No extra remote coupler required
- Grease cartridge (400cm³)



- Effective lubrication of all pivot points
- High-pressure plastic hoses reinforced by synthetic braids



- Perfectly integrated in the machine
- Optimal attention to all pivot points
- Clear view of the work at hand

Lubrication is the key

Each time the boom is raised, a shot of grease is applied to all lube points one after the other – an effective and time-saving approach. The dose is adjustable to individual needs. The grease cartridges are the regular type S units for fast and easy replacement.

FOR YOUR BENEFIT
SPECIAL EQUIPMENT
IN ATTRACTIVE PACKAGES.

Performance Package 1

- Synchro-Lock multi coupler
  with integral 3-pin E-connector
- Spool valve for 3rd service
- SMS shock absorber (mechanical)

Performance Package 2

- Performance Package 1
- Joystick cable remote control valve

Performance Package 1 A

- Performance Package 1
- Diverter valve (front loader and trailer or front loader and front linkage)
  Custom kits are available on request

Performance Package 3

- Performance Package 1
- 7-pin E-connector (instead of 3-pin E-connector)
- ELC ergo 2 - electric proportional joystick
- Armrest for ELC ergo 2









Straightforward machine control with the mechanical joystick

The mechanical joystick control is the perfect retrofit option for tractors that lack the necessary spools. This offers two double-acting circuits for lift/drop and tilt/crowd and optional wiring kits that include the necessary push buttons for operating up to three extra hydraulic functions.

The separate chest is mounted either under the tractor cab or on the implement carriage and is cable controlled with the joystick. We offer either custom kits for every tractor model or universal kits for which you need to specify the required cable length.

The Performance Package 2 comprises the joystick cable remote control valve complete with all necessary push buttons and wiring kits.




hauer
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MOST COMFY
AND EASY TO USE.

Offering easy use and a professional level of specification, the electric proportional ELC ergo 2 stands out for particularly precise and modulated control.



5th service* indicator LED

Float position indicator LED

On/off master switch indicator LED

On/off master switch

Roll-back button (bucket return)*
This can also be assigned any other function acting as a button or switch, 12V/60W

Shedding button
This can also be assigned any other function acting as a button or switch, 12V/60W

Float position button
This can also be assigned any other function acting as a button or switch, 12V/60W

3rd service* button
12V/60W

4th service* button
12V/60W

5th service switch, electr. SMS or work lights*
This can also be assigned any other function acting as a button, 12V/60W



*Some extra hydraulic functions require extra spools and sensors

ELC ergo 2 with new extra functions

The ELC ergo 2 joystick controls the traditional functions plus extra hydraulic spools for implements and such functions like auto shedding, attachment roll-back or SMS loader shock absorber. In addition to these, customers can opt for up to six extra and customisable functions. In standard configuration, the joystick controls the 3rd and 4th services, shedding and two float positions for tilt/crowd and lift/drop. These functions can easily be reprogrammed by operating two buttons in combination and without making a change to the software.







Standard specification:

- The ELC ergo 2 joystick is comprehensively specified with all switches, buttons and LED indicator lights that may be necessary for retrofitting optional features. There is no need to modify the joystick when adding further functions.
- Hydraulic chest complete with mounting plate - Load Sensing or Open Center
- Electric control box
- Wiring kit including connecting line
- JHoses and hose couplings to connect the unit to the tractor hydraulics

Available options:

- Armrest with five setting options, for Grammer seats
- Roll-back function
- Buttons with wiring kit for electric front-lift II control, for operation on front linkage
- Wiring kit with tilt sensor to maintain the front loader position while driving





PREMIUM QUALITY MADE IN AUSTRIA
DURABILITY - THE BASIS OF PROFITABILITY.

All Hauer products are fabricated to the most advanced manufacturing methods at our Statzendorf factory in Lower Austria. We select and use premium-quality materials – the key for durable equipment and long-term use in the most arduous conditions. Yet, it takes more than the best steels to make the **best products and create maximum value for money.** It also takes experienced and continuously retrained staff plus an actively pursued quality assurance scheme.

State-of-the-art manufacturing technology and many years of experience form the bed-rock on which our tradition of high quality is built. Hauer implements offer an exceptionally long lifespan which brings maximum gain for our customers.

Front loaders and loader attachments from Hauer continue to offer the best operator experience – today and in the future.



THE PROPER ORIGINAL ATTACHMENT FOR EACH JOB.

Examples from our extensive attachment portfolio













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