



Recovery Vehicle EH/W 200 BISON



FLEXIBLE AND POWERFUL



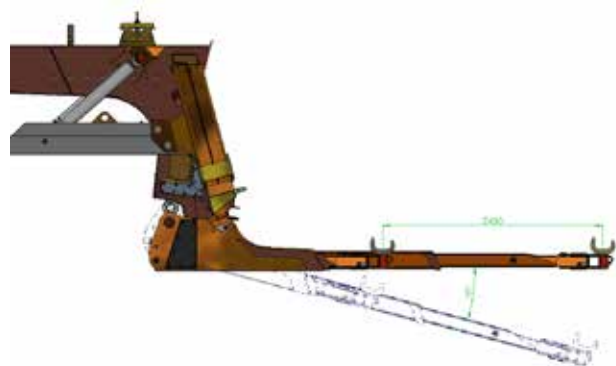


When it comes to suitable vehicles for rescue and recovery of any type of motor vehicles, EMPL is your reliable partner with know-how and longstanding experience. Through continuing development regarding safety, optimised use and design, we are one of the market leaders in Europe.

In addition to the highest level of manufacturing quality and ease of operation, the EH/W 200 BISON impresses with its extremely powerful recovery boom, in combination with the range and low design of the underlift. Individual customer requests can be implemented easily thanks to the clever modular system.

BISON – the benefits at a glance:

- + customised design in the highest quality
- + powerful recovery boom
- + optimum design as telescopic recovery boom with integrated cable guiding roller on main arm for main winch and/or auxiliary winch
- + hydraulic underlift “EMPL Super Slim Design”:
- + extra-flat with double extension and double-action cylinder
- + incline from 90° to -15°
- + free positioning under load
- + optimum vehicle body weight for maximum recovery and towing capacity
- + lifting capacity up to 20 tons
- + recovery supports set to the outside, with swivel plates for maximum stability during recovery on-road or off-road, with winch at the side
- + plates for maximum stability for on-road or off-road recovery and with winch at the side
- + ballast weights adapted to the vehicle type
- + different storage compartment variants, made of stainless steel, steel or aluminium
- + comprehensive accessories
- + numerous safety features
- + complete system FE-calculated and tested
- + conservation of chassis and body



- Certified Partner of the European truck industry
- ISO 9001 + ISO 14001
- CE certified

Variable winch power for optimum recovery

- main winch 20 - 35 t
- auxiliary winch up to 30 t
- side winch behind the driver's cab with pull to the left and/or right
- front winch
- frame winch with pull to the rear
- auxiliary winch to pull out heavy winch cables
- deflection device to the front for the winch cable of the auxiliary winch up to 10 t
- stop points for deflection roller in toothed design
- comprehensive winch accessories
- pressure rollers with air cylinder to improve the uncoiling process without load
- coiling device for winch cables



Operation and control

- manual control panel
- wired or radio remote control (also available as proportional control)
- screen for monitoring the winches from the control panel
- EMPL Operator Safety System – OSS

Visual display of vehicle safety:
rear axle overload or front axle relief taking into consideration the technical and legal requirements



Widescreen colour display for operation:

- stopwatch for recording work time
- switching status display for lights and beacons
- operating hours counter for the auxiliary drive
- battery voltage display including low voltage indicator
- display for parking brake/engine/auxiliary drive
- pressure display for the hydraulic system
- display for "quick off"
- integrated lifting load diagram for lifting fork and frame
- 1 camera display for cable winches (integrated instead of a separate system)
- axle load weighing system including overload warning for knuckle boom OSS (not a separate system)
- flyer control
- control for warning system (front, side and rear flashing lights, beacon bar)
- all light separately controlled
- engine start/stop
- working speed increase



Prepared for anything

Equipment and attachments

- water tank with heating
- auxiliary fuel tank
- supply connections for towed vehicles and trailers
- external starting device 12 V and 24 V (close to the main control unit)
- mount for cardan shaft on the support foot
- tow hitch, removable and folding
- front tow hitch underneath the front winch
- adapter on underlift for slide-in tow hitch
- folding bull bar (optionally with rubber bumper)
- colour monitor in the driver's cab and camera with spotlight
- spare wheel mount on main boom
- power generator
- autogenous cutting and welding unit
- piston compressor (approx. 400 l/min for using various compressed air devices)
- telescopic ladder
- hose reel
- cable reel 230 V
- auxiliary and extension cable for trailer operation
- work and lifting gear

Towing accessories

- specially developed swivelling lifting frame with sway damping for off-road use
- lifting forks in different sizes
- adjustable bus frame with perfect lashing options, for attaching at the side
- kingpin adapter for 2" and 3.5"
- fifth wheel for attaching
- towing fixture with bolts in three different sizes
- roller head for universal lifting frame 7.5 t
- ball hitch up to 3.5 t
- ball hitch K80 including seating at the lifting frame
- towbar with threaded ends
- towing frame in adjustable design
- bar eye adapter in different sizes (NATO connection)
- adjustable spare wheel adapter for holding a spare wheel at the lifting frame extension
- adapter on recovery boom for slide-in tow hitch



Equipment and attachments



folding, removable tow hitch



mount for tow bar



supply connections



mount for cardan shaft on the support foot

Towing accessories



adjustable bus frame for attaching at the side



lifting forks in different versions



towing fixture and ball head coupling



fifth wheel



ball hitch



K80 coupling



swivelling lifting frame for off-road use



bar eye adapter in different sizes (NATO connection)



spare wheel adapter



towing frame in triangle design

Attention to details makes the difference.

The EMPL Bison, available in different body and equipment variants, is well known for its durability and exceptional performance.

Beside different storage compartment types, equipped with well-thought-out mounting and stowing systems, the installation of powerful winch packages and front cranes can be realised. Another highlight is the double extendable telescopic recovery boom of the BISON. It can be extended up to 6 metres, meaning an increase of 2.5 metres versus booms with single extension. The possible pulling force of the winch acquires 9.5 tons at 3.5 metres or 5 tons at 6 metres lifting height, monitored and adapted automatically to the extension length.

BISON: practical – user-friendly – individual – optimised.



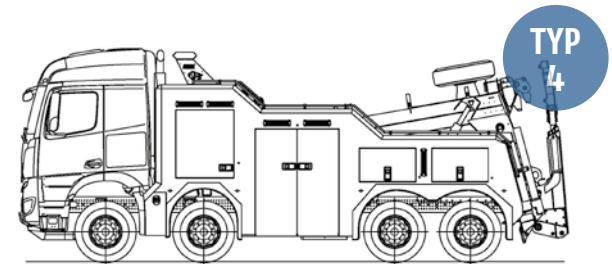
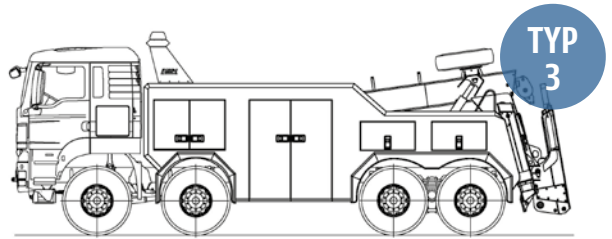
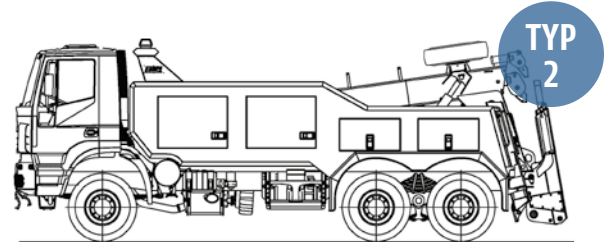
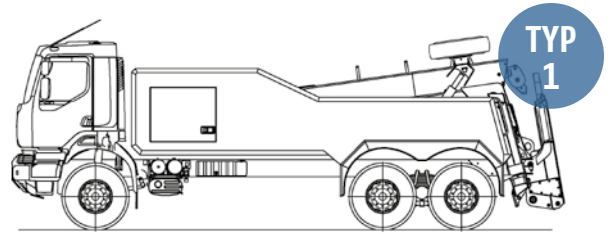
Single extension

DThe customised storage boxes made from stainless steel, steel or aluminium are ergonomically partitioned and have a space-saving design.

Equipment holders and extensions are positioned with great attention to detail. Single or double keyhole rails allow fast and individual changes to the equipment positioning. Additional storage compartments can also be added above to make best possible use of the available space.

Other special details:

- high-quality workmanship
- convenient openings with doors, flaps or roll-up doors
- central locking
- rubber-coated inside (noise insulation, surface protection)
- LED illumination in the storage boxes
- ventilation system ensures sufficient air circulation even when the storage boxes are closed
- extension for towing frame
- attachable access ladder
- auxiliary heating for front storage compartment





1 perforated plate on side walls for variable attachment of various tools

2 swivelling storage compartments for optimum use of storage space



swivelling wall with equipment holder on both sides



tool cabinet



3 single or double keyhole rails

4 cleaning kit



hydraulically lowering equipment attachment wall



Inverter

SOPHISTICATED SAFETY CONCEPT



ILLUMINATION AND SAFETY EQUIPMENT

- flashing LED lights on the radiator grille, at the rear
- pneumatically extending light mast
- pneumatically extending flyer and light bar
- work lights
- optionally with additional rear lights
- traffic management system or integrated message panel
- reflectors
- LED position lights at the rear
- all-round beacon or flashing light at rear access ladder
- perimeter lighting on the side storage boxes
- front flashing light
- attachable light bar
- folding fall protection
- anti-slip access ladder with handrail
- handrail on the storage boxes removable,
- optionally with LED lighting
- 360° birds' eye camera system
- equipment as per BGI 800



STRONG AND RELIABLE

Front cranes (up to 80 mto lifting torque) can be mounted on the vehicle, depending on the technical specification of the chassis, in combination with an auxiliary box frame structure specially developed by EMPL. The front crane is mounted without additional support. This function is fulfilled by the special "EMPL recovery supports".

This saves unnecessary weight and does not reduce the towed load. A support leg monitoring system is optionally available.







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