



**LUDGER GLAAP &
FRITZ BRINKMANN**
Machines GmbH & Co.KG

MIXMAN D5 **ORCAN**

IT DOESN'T GET MORE POWERFUL THAN THIS! 4- CYLINDER

ORCAN

GENERATION
STAGE V

POWERFUL

Thanks to the new Hatz engine, the MIXMAN provides you with even more power on the construction site.

MAINTENANCE-FRIENDLY

The new design allows the bonnet to open completely and gives easy access to all components.



**POWERFUL HIGH - QUALITY MACHINES
FROM GB MACHINES**

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POWERFUL PNEUMATIC CONVEYOR

CEMENT SCREED | CALCIUM SULPHATE SCREED | MAGNESIA SCREED

FIBRE | STYROFOAM

MIXMAN ORCAN

4-cylinder diesel

Underneath the new GFK- bonnet you will find the dream of every service company; all components are simple and easy to reach.

The GFK - bonnet opens almost completely over the engine and compressor unit. The new MIXMAN ORCAN is environmentally friendly, robust, and maximally adapted to use on the construction site.

The new Hatz Diesel 4H50TICD engine fulfils EUROPEAN STAGE V NON-ROAD EMISSION STANDARDS and with its fuel consumption of just 210 g/kWh at its best, it is one of the most economical in this class.

MIXMAN ORCAN sets new standards among construction machinery engines, soot and smoke being forgotten when starting or running the machine. The constant speed saves fuel and reduces wear, making daily use on the construction site easier.

The perfect equipment is as convincing as the simplicity of operating. Despite of the common-rail technology that comes with lots of controllers, the engine controlling panel is easy and comprehensible to operate with just the touch of a button.

The ACGB-60 compressor unit installed in the MIXMAN ORCAN combines the robustness required for construction site use with maximum power. The Hatz diesel engine 4H50TICD may be put to use at the speed of 2,850 rpm, maximum.

MIXMAN ORCAN works at its full power even in extreme heat. The hot air generated is optimally discharged to the front via the hood and chassis, while the necessary cooling air is drawn inside from the top of hood.

The engine-compressor unit starts up without load, which protects the engine's starter motor in particular and ensures a smooth start-up of the machine.

The mixing vessel is switched on manually via a robust button on the control unit thus increasing the safety of the new MIXMAN ORCAN and giving the user full control over the machine at all times.

The special pneumatic control unit designed for screed production guarantees that the entire air output is always available for screed delivery. A pressure gauge inside of the machine allows you to check the hydraulic output of the unit at any time. The outside pressure gauge allows you to always check the compressor and mixing vessel pressure.

These factors, combined with the compact design enable MIXMAN ORCAN to work quietly, environmentally friendly and with low wear. This makes work fun.



FACT CHECK - 4 CYLINDER
» 4H50TICD 4-cylinder diesel engine
» „made in Germany“ by Hatz
» EU Stage V and EPA Tier 4 final certified
» Diesel Particulate Filter (DPF)
» Power 31.0 to 55.4 kW
» Up to 2850 rpm

STURDY WHEEL ARCHES
The new reinforced wheel arches are so stable, that cement sacks can be placed upon without any problems.
We know how to make it work!



DON'T BE A BOY. BE AM MAN.   **Made in Germany**

MIXMAN D5 BS ORCAN

The best MIXMAN ever can be ordered as of now. GB Machines is writing a new chapter in machine development with the MIXMAN ORCAN.



IT DOESN'T GET ANY COOLER THAN THIS.

EXHAUST AND FRESH AIR INTAKE

MIXMAN D5 ORCAN - Bonnet

The new bonnet's design

The advertising impact on your customers is maximised by personalised logo. We will be happy to advise you on your individual design. You express your wishes, and we implement them in cooperation with our marketing team. You receive a draft for final approval and determine the actual looks of the machine.

Lacquering in all RAL colours possible!



Specifications:

GFK (as in vehicle construction) with internal aluminium reinforcement frame for optimum stability,

hinges made of stainless steel, large air inlets for cooling air placed at the top of the bonnet. This allows the ram air to escape easily while the machine is being parked and ensures a smooth restart.

The warm exhaust air is transported outside as quickly as possible through large air outlets in the bonnet and chassis.

Special coating provides optimum corrosion protection for the new bonnet. Robustness and durability are two GB Machines trademarks that determine the value of the machine.



Compressor:

The new ACGB-60 compressor has a capacity range between 4.5 m³/min and 6,0 m³/min. Depending on the motor speed and the pressure the MIXMAN can unleash its full power.

MIXMAN with a capacity range up to 6.0 m³/min can be ordered as an additional feature, please contact us.



Engine:

The new Hatz Diesel 4H50TICD engine complies with the latest EUROPEAN STAGE V NON-ROAD EMISSION STANDARDS and, with its specific consumption of just approx. 210 g/kWh, it is one of the most economical in its class.

The interaction of the coordinated components enables up to approx. 6m³ of air at the corresponding engine speed.



DIESEL PARTICULATE FILTER- DPF

Diesel engines in this power class will not be able to meet the requirements of the new EUROPEAN STAGE V NON-ROAD EMISSION STANDARDS without a particulate filter. In combination with a DPF, the Hatz 4H50TICD is optimally prepared for future emission standards. The DPF regenerates automatically, so that the cleaning process is completed without work interruption.

The DPF is installed inside the chassis, which protects it from contamination.



Battery:

The battery is also easy and simple to reach. Due to the very well-planned engine compartment, a change or an external start can be carried out without much effort.

The „made in Germany“ battery impresses with high quality and durability.

ENGINE / COMPRESSOR UNIT



EXHAUST GAS RECIRCULATION . PROTECTIVE GRID

MIXMAN ORCAN

It doesn't get any safer than this

The internal exhaust system is equipped with a specially designed protective grid which prevents one from coming into contact with the hot pipes. This exhaust system makes the MIXMAN one of the safest in its class.

FACT CHECK - FURTHER ADVANTAGES



- » Intercooling, thus diesel - saving
- » Bonnet opens almost vertically, perfectly accessible
- » Radiator grid can be removed without tools
- » Huge areas for exhaust air to escape
- » Separate fresh air supply, always fresh air
- » Overheating of the engine is no longer possible
- » Large horizontal fan
- » No more "whistling fans"
- » The exhaust air can always escape
- » Integrated toolbox



DRIVE BELT. EASILY ACCESSIBLE

It doesn't get more compact.

The new chassis of the MIXMAN ORCAN makes it to a compact space-saving miracle, all relevant parts are easy to reach making operation at the construction site simple and convenient.

The drive belt can be easily accessed and retightened if necessary by loosening two screws on the cover, no tools needed.

DER MIXMAN **ORCAN**

NOW EVEN SAFER AND MORE COMFORTABLE

ORCAN

EASY MAINTAINANCE

While designing the new MIXMAN D5 ORCAN special attention has been paid to easing of the maintenance.

All parts are easy to reach and simplify maintenance / inspections.

- » Easy drive belt change
- » Radiator grid is easy to remove
- » Easy access to all components
- » Spaciousness for assembly



DIGITAL CONTROLLING PANEL

The new digital controlling system always gives a good overall view of all functions of the machine.

The operator is always able to intervene in the conveying process as quickly as possible. What is the most important feature of the digital controlling system?

All relevant functions are controlled by the three robust pushbuttons. These are waterproof, dust - protected as well as suitable for construction site and, installed directly on the panel.



ORCAN IT DOESN'T GET MORE DETAILED THAN THIS

SMALL FEATURES - BIG IMPACT



Radio remote controller

The clever and well-thought-out new design creates new storage spaces and gives easy access.

In addition to the cleverly placed remote controller, various materials can be placed in the rear area of the machine for safe transportation.

The transmitter is very user-friendly and can be exchanged easily,

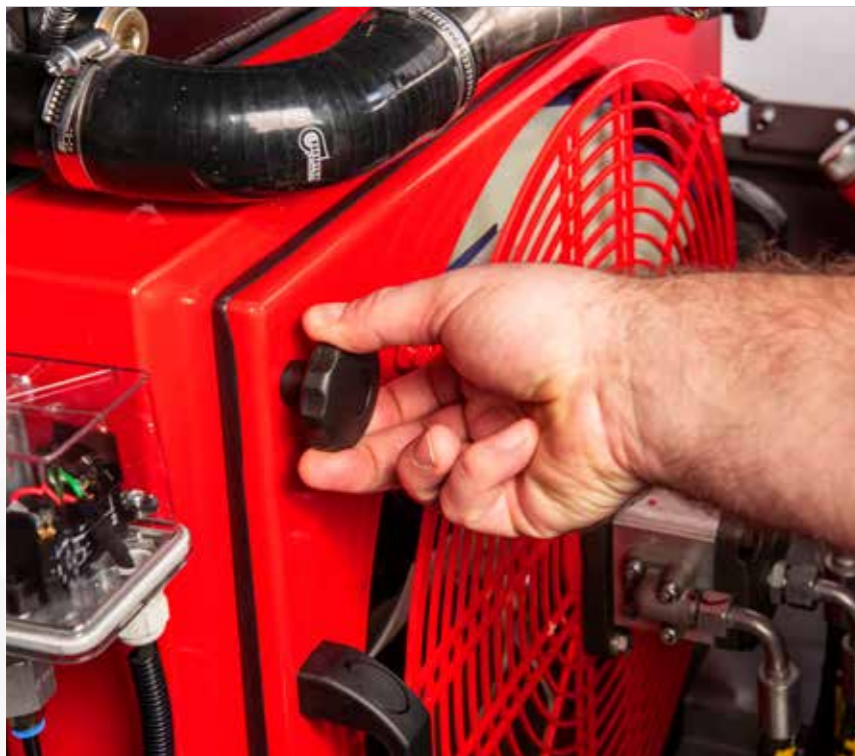
It is possible to replace the components and avoid expensive purchase of the entire remote-control unit.

Scraper Rope - Feeding Speed*

The speed for pulling the scraper has always been an issue. Too fast, too slow... the pace has been determined by the operator, but not necessarily in tune with the machine. We have come up with a solution here as well.

The speed can be easily adjusted with the help of a rotary knob, so that the MIXMAN works at the same pace as the operator.

*Optional feature



COOLING

Special attention has been paid to ease of maintenance of the new MIXMAN D4 NEO. All parts are

easy to reach and simple to maintain / inspect.

The MIXMAN works at full power even in extreme heat, hot air being optimally discharged to the front via the bonnet and chassis whereas the cool air is being sucked in from the top of the hood.

The radiator grid can be removed without tools, making cleaning extremely easy.



MANOMETER.
EVERYTHING SAFELY IN VIEW

MIXMAN

It doesn't get any clearer than this

The two pressure gauges on the outside allow you to check the performance of your MIXMAN at any time.

The pressure gauge on the inside shows the hydraulic pressure while in use.

HIGH QUALITY ALSO ON THE UNDERSIDE



PNEUMATICS. BELT RELAXATION

It doesn't get more detailed than this.

When the mixing unit is switched on, the pneumatic belt tensioner receives pressure and tightens up the drive belt in order to develop the full power.

As soon as the mixing unit is switched off the pressure drops and the drive belt relaxes.



Made in Germany

NOT ONLY PERFORMANCE COUNTS. The inside is also convincing..

Hatz has chosen premium products from renowned suppliers, most of which come from Germany, for the essential parts of the engine such as: the injection system, crankcase, camshaft, exhaust gas recirculation valve, catalytic converter, and sensors.



EGR MIXING NOZZLE

- » Perfect mixture of fresh air and recirculated exhaust gas
- » Homogeneous combustion across all cylinders
- » Optimised component load and uniform wear

STROKE-BORE RATIO

Ideal stroke-bore ratio provides a thermodynamically optimal surface to volume ratio and thus leads to little heat loss

Robust but light construction

The engine crankcase is made of thin-walled grey cast iron, the cylinder head and valve cover of cast aluminium, and the oil sump of sheet steel. All parts are optimised to combine light construction and structural mechanics.

Basic equipment

- » Power 31,0 to 55,4 kW
- » max. torque 244 Nm
- » Bosch OHW common rail system with 1800 bar
- » Exhaust gas turbocharger and intercooler
- » Diesel particulate filter (DPF)
- » EU Stage V and EPA Tier 4 emission standards certified
- » Water-cooled three-cylinder 4-stroke diesel engine
- » Cylinders arranged vertically in line
- » Crankcase made of thin-walled cast iron
- » Cylinder head with integrated intake manifold
- » Direct injection via Bosch Common Rail system
- » Recirculating pressure lubrication with changeable filter
- » Valve control via rocker arm, hydraulic tappet and bottom-mounted camshaft
- » Maintenance-free 2-valve technology Integrated automatic engine protection system
- » Available as open power unit (OPU) including radiator, intercooler, hosing and wiring harness

Die Abbildung zeigt den Grundaufbau des Motors.

AGR- COOLER

High-quality stainless-steel radiator with optimum cooling capacity and low pressure drop

BOSCH INJECTOR

- » Highly precise injection volume control
- » Highest injection pressures (1800 bar)
- » Multiple injection for low noise emission
- » Special high-resistance coatings for poor-quality fuel, can be used worldwide

GLOW PLUGS

High-temperature glow plugs enable starting in extreme cold as well as minimising the white smoke while the engine's running

iHacs

- » Intelligent Hatz Advanced Combustion Strategy
- » Bosch ECU controls the torque-optimised Hatz proprietary combustion process with focus on best real-drive consumption and lowest noise emissions

PISTONS

Optimised piston geometry for best emissions and minimised consumption



DIESEL PARTICULATE FILTER (DPF)

The diesel particulate filter has been placed safely and soundly in the lower part of the chassis. The exhaust fumes are emitted downwards on the one side, whereas the operator stands on the other side out of their reach.



TECHNICAL DATA



	MIXMAN D5 <small>ORCAN</small>	MIXMAN D5B <small>ORCAN</small>	MIXMAN D5BS <small>ORCAN</small>
Model	Standard	Feeder	Feeder/Scraper
Drive	4 – cylinder Hatz diesel engine		
Compressor	ACGB-60 Compressor		
Pressure mixing tank	Pressure mixing tank 265 litres gross/200 litres net, made in Europe, and equipped with wear plates. Outlet in the middle as a standard, front outlet optionally available		
Filling height	890 mm	420 mm	420 mm
Mixing vessel volume	approx. 60 Liter		
Frame/ chassis	Sturdy chassis of German manufacture with 5mm walls, special coating for optimal corrosion protection (against rust), high-quality powder coating. Chassis colour: RAL 9023		
Radiator	The radiator can be cleaned easily thanks to the removable grid, only 4 screws must be loosened, no tools needed.		
Noise level in dB	ca. 99dB(A)		
Chassis	ALKO axle with (reinforced) 2t version (stronger axle tube), reinforced tyres and rims, adapted to the 2t axle.		
Bonnet	GKF (as in vehicle construction) with reinforced aluminium frame for optimal stability of the bonnet, hinges made of stainless steel. Large air inlets for cooling air in the hood, the ram air can escape easily when the machine is parked, ensuring a smooth restart. Large air outlets for warm exhaust air both in the bonnet and in the chassis directed towards the front.		
Road approval	80 km/h - 100 km/h, technically possible up to 140 km/h**		
Weight	1.740 kg*	1.850 kg*	1.960 kg*
Dimensions (LxBxH) in mm	4850 x 1580 x 1550	5000 x 1580 x 2450	5000 x 1580 x 2450

* Depending on the equipment
 ** respective national regulations must be observed

HOLEN SIE SICH NOCH MEHR KOMFORT. OPTIONALES ZUBEHÖR



- ✚ Start-Stop automatic
- ✚ Amour plates
- ✚ Dynamic
- ✚ Front outlet
- ✚ Automatic cover
- ✚ Crane hooks
- ✚ Work lights
- ✚ 100 km/h approval
- ✚ Drawbar eye
- ✚ Advertising (customised)
- ✚ Side box
- ✚ Anti-theft system
- ✚ Light carrier 12V- 24V
- ✚ Silo version
- ✚ Hoop guard
- ✚ GPS
- ✚ 2,5t Axle
- ✚ Bonnet painting in RAL colour chosen by the customer

PNEUMATIC CONVEYOR. MIXMAN D5 ORCAN



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