



WESTMINSTER INTERNATIONAL LTD

Telephone : +44 (0)1295 756300
Fax : +44 (0)1295 756302
E-Mail : info@wi-ltd.com
Website : www.wi-ltd.com

WG 325-200 Mine Clearance Vehicle Attachment

The WG325-200 Mine Clearance Attachment is a cost effective solution to provide a vehicle mounted mine clearance system that can be fitted to a customer's existing vehicle.

The system is purpose built to be able fit the following types of vehicles:-

- Fork lift
- Hummer
- JCB
- Military Truck
- Tank

The WG325-200 (as seen in the picture below fitted to a JCB consists of a 3.0 metre flail that hitches to the vehicle and is connected to the 200HP engine that is fitted at the rear of the vehicle.



Once fitted and the controls connected, the vehicle is ready to carry out its operation.

The vehicle will effectively clear an area of land of any land mines that may be present by the flails pounding the ground. Any land mines that the system comes in contact with are detonated, leaving the ground clear of explosive devices.

In addition to the flail attachment, it can optionally be equipped with a tiller option, whereby the system can work its way through loose ground such as sand and soil, sifting through the land and detonating any land mines that it comes in contact with.

System Operation

Mine clearance is carried out by flailing and tilling.

Flailing

The image shows the flayer in action. This method of mine clearance is suitable for the following terrain types:-

- Agricultural land
- Concrete
- Desert
- Dirt Track
- Tarmac



Milling/ Tilling

Milling or tilling is designed for use on agricultural/ soft or desert land. Milling produces much less dust than flailing (particularly when used across desert areas). Tiling is best likened to a form of ploughing the ground and detonating any mines present

The Heavy Duty Miller is suitable for the following terrains:-

- Agricultural land
- Desert
- Dirt Track

The WG325-200 engine is connected to the main frame via 4 pins and hydraulics via quick release coupling allowing the engine / hydraulics to be removed in 15 minutes.

A short control cable connects the cabin to the engine management system and supplies a feed back to the operator.

The control panel has a single lever joystick incorporating a transmission control for track operation forward, reverse, left and right and single lever joystick for boom and carriage raise, lower and tilt raise, lower.

The engine monitoring system is a separate control panel and is situated on the right hand side of the cabin; this controls the oil, water, air, warning lights and alarms and shuts down the engine when a warning or fault has been given

Once the flails have been started up and set to the ground, the operation is ready to commence. Execution of mine clearance is a simple task, and the WG325-200 makes the process both safe and simple.

System Engine Safety Features

The engine of the WG325-200 is controlled by an advanced management system, this ensures essential control of engine oil and water levels, and makes sure that over heating does not take place. In such a scenario, the management system would shut down the engine.

The system is also fitted with an air cleaner with a warning indicator, when illuminated, the operator will need to stop and clean the air cleaner. If any of these tasks are not completed the engine will shut down.

The air-cleaner turbo removes large particles and a two stage filter system, an outer filter to remove coarse dust and an inner filter to remove fine dust. The exhauster is to remove dust from the air-cleaner saving down time.

Technical Specifications

Engine Technical Data

- Manufacturer: New Holland
- Ambient temperature: 55°F
- Relative humidity: 80 %
- Net power: 145kw
- Engine speed: 2,200 1/min
- Fuel code: Diesel fuel as per DIN 51601
- Injection: Common rail electronic
- Bore / stroke: 1,11.8/127 mm
- Swept Volume: 7,500 cm³
- Voltage: 24 volts
- Air filter: Dry Element with secondary element and in cab indicator
- Air Turbo Cleaner, Exhaust cleaner
- Cooling: Large capacity radiator
- Starting system: 24 volt
- Alternator: 28,5V, 55A
- Batteries: 2 x 12volt heavy duty
- Fuel consumption: 25 litres per hour at full load
- Fuel capacity: 100 gallons

EMR 2 electronic monitoring engine management

- Oil pressure: Warning and engine cut off
- Charge air temp: Warning and engine cut off
- Refuelling pump: Electric type
- Cooling Medium level: Warning and engine cut off
- Cooling Medium temp: Warning and engine cut off