

WG 400 Mine Clearance Vehicle

Mine Clearance Vehicles

Product Code: 4020-04



Key Features



Hydraulically Driven 3 Metre Tiller Rotor



Extracts Buried Mines & UXO up to 50 cm



Fully Remote Controlled up to 800 Metres



Flat Area Clearance of 2,400 Metres² Per Hour



Destroy & Withstand 10 kg Anti-Tank Mines



Overview

The WG 400 Mine Clearance Vehicle incorporates the latest technology in personnel protection and mine clearance. It can clear 2,400 square metres per hour (depending on terrain and operator experience). It has been designed to destroy and withstand 10 kg anti-tank mines.

It has a hydraulically driven 3 metre tiller rotor with an effective tilling depth of 55 cm. It is fully remote-controlled up to 800 metres allowing the operator to remain at a safe distance while still maintaining 100% control of all the machine's functions, or alternatively with its fully armoured, sound proofed and air-conditioned cabin (which can withstand NATO ball at point-blank range), an operator can maintain a detailed birds-eye-view of demining operations in complete comfort and safety.

It has a telescopic boom to which different demining toolkits can be attached. This boom can be extended to clear mines and UXO in difficult locations such as on riverbanks and on inclines while remaining completely stationary.

A variety of toolkits are available for demining and clearing Unexploded Ordnance (UXO), as well as the tiller and flail, a mine comb or screener/segregator which can extract buried mines and UXO down to 50 cm. When the sifter is fitted to the rear of the machine, this extracts items and potentially missed ordnance down to 50 cm which provides a comprehensive quality assurance tool when fitted together with a front mounted tiller or flail. As an option, a 'scissor lift' cab mounting can be fitted where shocks are absorbed and the ride height can be adjusted for the best possible view.

It will accommodate any standard construction tool such as buckets, dozer blades, forklift tines or power grab using an industry standard quick hitch coupling. The backhoe excavator can be fitted to the rear of the machines when a demining toolkit is fitted to the front. Alternatively, the backhoe can be fitted onto the boom arm which provides a very versatile and far-reaching tool with a standard scrape bucket, or a grapple attached for extracting UXO which are difficult to access. The boom arm will lift up to 4 tonnes, making it a very powerful workhorse for a wide range of levelling, lifting and construction roles. This gives it a 'second use' after its clearance role.

Product Specification

Static Dimensions

Track Length on Ground	3,090 mm
Undercarriage Overall Length	3,940 mm
Track Gauge	1,990 mm
Width Over 500 mm Track Shoes	2,510 mm
Transport Length	5,550 mm
Transport Height	3,395 mm
Undercarriage Height	1,000 mm
Undercarriage to Rear Chassis	500 mm
Width of Superstructure	2,795 mm
Ground Clearance	470 mm
Track Height	880 mm
Tiller Length	2,487 mm
Flail Length	2,000 mm
Tiller/Flail Width	3,781 mm
Tiller Height	1,133 mm
Flail Height	2,100 mm
Tiller & Flail Clearance Path	2,905 mm

Service Capacities

Fuel Tank	470 litres
Hydraulic Tank	800 litres
Coolant	21 litres
Track Gearbox	5 litres
Splitter Box	10 litres

Hydraulics (Operating @ 2,000 rpm) –

Relief Valve Setting / Maximum Flow

Variable Displacement Pumps	350 bar / 350 L/Min
Flail/Tiller	343 bar / 140 L/Min
Gear Pump Auxillary	250 bar / 60 L/Min
Oil Cooler Fan	100 bar / 30 L/Min
Water Cooler Fan	100 bar / 30 L/Min

Brakes

Service Brakes	Hydraulic counterbalance valve to prevent over-speed
Parking Brake	on gradients Disk-type, spring applied, automatic hydraulic release

Filtration

In Tank	90 micron Suction Paper
Main Return Line	25 micron Paper Elements
Drive Lines	10 micron Pressure Filter

Lift Performance

Maximum Lift Capacity	3,600 kg
Lift Capacity to Full Height	3,600 kg
Lift Capacity to Full Reach	1,500 kg
Lift Height	6.2 kg
Reach at Maximum Lift Height	0.87 kg
Maximum Forward Reach	3.30 kg
Reach with 1 Tonne Load	3.30 kg
Placing Height	54.42 kg

Weights

Maximum Operating Weight	18,000 kg
Header Structure (without Tiller/Flail)	1,491 kg
Tiller (Rotor only)	1,204 kg
Flail (Rotor only – no chains)	486.6 kg

Engine

Manufacturer	Deutz
Model	BF6M
Displacement	11,906 cm
No. Cylinders	6
Bore Size	132 mm
Stroke	145 mm
Aspiration	Turbo intercooler
Power Rating @ 1900	300 kW
Torque Rating @ 1300 rpm	425 (313.5)
Fuel Consumption	35–45 L/Hour
Water Cooled Working Temperature	55° ambient
Q Tiller & Flail Clearance Path	2,905 mm

Electrical

Voltage	24 V negative earth
Battery	145 AH battery
Alternator	55 Amp
Lighting	Full load lighting, reverse lighting
Other Features	Optional horn reverse alarm. Remote controlled up to 1,000 metres. One lever 4 position joystick control (hard-wired and remote control) to allow machine to rotate on the spot.