



MECHANICAL

Mine Guzzler

Applications

Handheld
Hazard detonating Ground preparation

Types

Metal detectors (MD)

Last update

01/01/1970

General description

The machine was developed by BAE Systems Bofors AB in Sweden between 1995 and 2005. The optimized demining vehicle has been redesigned and is based completely on commercial components for ease of maintenance, repair and high accessibility of spare parts. The new owner is Rybro International Limited, who continues to work in cooperation with BAE Systems Bofors AB. The Mine Guzzler demining machine: • is able to detonate or destroy AP and AT landmines; • is a non-flail type technology; • is survivable or field repairable from a 10 kg TNT equivalent mine blast; • is ground engaging to a depth of no less than 50 centimeters; • is transportable, reliable, maintainable, and logistically supportable in third world mine affected countries; and • has an operators cab which provides sufficient protection for survivability of the occupants against the indirect effects of a 7kg of TNT equivalent explosives as well as being operated by a remote control. The Mine Guzzler is based on a double track arrangement of Caterpillar. A demining tiller is located on hydraulic supports at the front of the vehicle and powered by a 640 kw engine with hydrostatic drive. The complete vehicle is fully protected against fragments from detonation of mines and UXO. Any plates that become damaged can be easily replaced in the field by oxyacetylene cutting and welding. Each vehicle can be equipped with a spare roller to enable the demining work to continue while a tiller is undergoing repair. A complete tiller change can be effected in less than 30 minutes using the hydraulic supports to lift the tiller for access or to load/unload the roller onto a transport vehicle.

Working characteristics

Heavy Tiller system capable of clearing both AT as well as AP mines. The vehicle drives forward into the suspect area by revolving the tiller unit. It rotates clockwise with a speed up to 190 rpm. The demining tiller, which can be angled to follow ground undulations, is adjustable for depth and automatically maintains the depth set. The tiller comprises a series of circular plates fitted with tungsten carbide teeth around their outer perimeter, which either causes the mines (anti-personnel and anti-tank) to detonate or breaks them into small pieces. The Mine Guzzler can clear anti-personnel and anti-tank mines to a depth of 50 cm and over an effective width of 3 m. Maximum demining speed is 4km/h depending on ground conditions.

Power supply data

Operating time

0.00 hours

Dimensional data

Weight	0.00 kg
Overall length	8570 mm
Length with attachment	8570 mm
Overall Width	4540 mm
Overall Hight	3575 mm
Fits in container	1

Factory support data

Factory support	<p>Rybro International AB and local CAT dealer while the power train is from Caterpillar.</p>
Best use in	Farmland and large areas with combined AT and AP mines.

Price

Base price	1 €
Reduction for higher quantity	<p>To be negotiated.</p>

Other

Additional equipment	Add on: GPS documentation of cleared area
Estimated quantity in use to date	1

Operational data

Tracks	1
Ground bearing pressure tracks	99 KG/DM2
Hill climbing ability (max gradient degrees)	30 °
Rotation speed from	190 rpm
Rotation speed to	190 rpm
Clearance depth in varying terrain from	200 cm
Clearance depth in varying terrain to	500 cm
Working speed for light soil with medium vegetation	9000 m2/h
Working speed for medium soil with medium vegetation	6000 m2/h
Working speed for heavy soil with dense vegetation	3000 m2/h
Control of clearance depth	Automatic and having separate cylinders on each side allowing the tool to follow the ground separate from the carrier.
Armor	13 to 16 mm Weldom
Greatest remote controlled distance	2000 m
Mechanical tools / attachments	Tool can be replaced with bulldozer blade allowing the machine to be used as armored heavy bulldozer. Crane instead of cabin to allow lifting/moving objects in front of machine before clearance. Soil sifters to be pulled after clearance to take out rema

Engine specifications

Engine type / description	CAT C27
Engine max power	880 hp
Fuel capacity	800 l
Fuel consumption	70 l/h
Cooling system	Water cooled machine. AC cooled cabin
Oil capacity	305 l
Connectivity	Radio

Vehicle electrical system

Battery voltage	24 Volt
Battery capacity	235 Ah

Other information

Images



