GICHD

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 7kg 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

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|---|---|
| **Operating time** | 0.00 hours |

# Dimensional data

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|---|---|
| **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

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|---|---|
| **Factory support** | Rybro International Ltd and local CAT dealer while the power train is from Caterpillar. |

# Price

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|---|---|
| **Base price** | 2500000.00 € |
| **Reduction for higher quantity** | To be negotiated. |

# Other

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|---|---|
| **Estimated quantity in use to date** | 1 |

# Operational data

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|---|---|
| **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 Weldox |
| **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. |

# Engine specifications

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|---|---|
| **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