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MEMATT MECHANICAL MINE CLEARING VEHICLE





Dimensions

Height: 2040 mm
 Length Without Attachment : 4.478 mm
 Length Total: 6.650 mm
 Width Without Attachment: 1.610 mm
 Width Total : 2.540 mm
 Mine Clearance Width:
 1.780 mm (Flail)-1.902 mm (Tiller)
 Height | Overall : 2040 mm: 2.040 mm



Mass

Basic vehicle (Prime mover
 w/lubricants, no fuel) 9.545 kg

Basic vehicle (Prime mover
 w/lubricants & fuel) 9.791 kg

Detachable unit(s)
 (w/std. flail tool) 2.769 kg

Detachable unit(s)
 (w/std. tiller tool) 3.201 kg

Overall (w/std. flail tool,
 w/lubricants, no fuel) 12.254 kg

Overall (w/std. flail tool,
 w/lubricants & fuel) 2.500 kg

Overall (w/std. tiller tool,
 w/lubricants, no fuel) 12.806 kg

Overall (w/std. tiller tool,
 w/lubricants & fuel) 12.992 kg



Engine | Fuel | Oil

Engine Make & Model
 DEUTZ-TCD2013L62V Diesel Engine
 Engine Power: 200 kW
 Fuel Capacity: 290 l
 Fuel Consumption: 30-35 l/h
 Cooling System: Water Cooling
 Oil Capacity: 21 l
 Hydraulic Oil Capacity: 280 l

UNDERCARRIAGE

- Tracks: Steel
- Ground Bearing Pressure (kPa): 0.63 kg/cm²
- Power Transmission: Hydrostatic System
- Gearbox Oil Capacity: 1L
- Operating Speed in Clearing Mode: 0,5-1 km/h
- Transport Speed: 4 km/h
- Protection Level: Armox 500T and V-Shape Hull
- Blast Resistance: 8 kg TNT

OPERATIONAL CHARACTERISTICS

- Hill Climbing Ability : 60%
- Side Slope : 40%
- Trench Width (w/std. double tool) : 1,5 m
- Working Speed (m²/h)
 - Light Soil | Medium Vegetation : 1900 m²/h
 - Medium Soil | Medium Vegetation : 1425 m²/h
 - Heavy Soil | Dense Vegetation : 950 m²/h
- Method of Operation: Remote Control (MIL STD 810-G Option)

REMOTE CONTROL CHARACTERISTIC

- Remote Control Distance: >500 m
- Remote Control Protocol: CAN Bus
- Battery Life: >8h
- Screen: 12" LCD Panel
- Remote Control Dashboard: Fuel Consumption, Battery Voltage, Battery Percentage, Working Time, RPM, Engine Temperature, Hydraulic Engine Temperature, Fuel, Oil Pressure
- Video Control System: 360° Visibility with 3 Ex-Proof Protected Cameras
- Diagnostic : Built-in Test

TESTS AND EVALUATIONS

Tested and evaluated by TURMAC (Turkish Mine Action Center). Tests have been completed successfully against M14, M2A4, DM11 (Supported by TNT; in total 8 kg), M6A2 mines in accordance with ITEP Standards.

SPECIFICATIONS OF MINE CLEARING ATTACHMENTS

- Flail/Tiller Tool Dimensions (LxWxH): 2280x2540x1620
- Flail/Tiller Tool Weight: 2769 kg (Flail) 3261 kg (Tiller)
- Flail/Tiller Tool Clearing Width: 1780 mm (Flail) 1902 mm (Tiller)
- Number of Chains (Flail Attachment): 44
- Flail Drum Diameter (mm) : 1000 mm
- Flail Rotation Speed (rpm): 800 rpm
- Number of Chisels (Tiller Tool) : 48
- Tiller Drum Diameter (mm): 1000 mm
- Tiller Rotation Speed (rpm) : 400 rpm
- Clearance Depth (Flail/Tiller): Up to 30 cm, Depending on Speed and Terrain
- Control of Clearance Depth (Flail/Tiller): Adjustable Height of Flail Skids & Boom Hydraulic Control

OTHER FEATURES

- Transportation: 40HC Container, Trailer, Cargo Aircraft (C130 or similar), Helicopter
- Additional Attachable Working Tools: Segmented Roller, Dozer Blade, Rotational Gripper



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