



VF-001



The VF-001, medium-sized demining machine, has been tested and certified by the Croatian Mine Action Center (CROMAC) Center for Testing and Research, and meets all requirements for use in humanitarian demining activities, passing tests on all anti-tank and anti-personnel mines.

The VF-001 machine has been completely redesigned, modified and certified for demining operations. Controlled from safe distance with high-quality HBC Radiomatic remote control system, the VF-001 medium-size demining machine has been designed for the most difficult terrain, conditions and high temperatures.

The whole machine is protected with an additional armour shield constructed by which ensure maximum safety for all machine's sensitive parts and electronics, including remote control electronics. Armor shield was constructed with a HARDOX 450 boards, thickness 10 mm.



Dimensions

- Length with caterpillar 4.825 mm
- Length with work tools 6.630 mm
- Width with caterpillar 500 mm
- Width with work tools 3.080 mm
- Machine height 2.200 mm
- Weight with work tools 18.660 kg
- Work tools weight 4.060 kg
- Engine type. DEUTZ
- Engine power 300 Kw (408 Hp)
- Engine capacity 11.906 ccm
- Engine fuel type Diesel
- Fuel tank capacity 760 l
- Average fuel consumption 42 l/h

Work tools flail or tiller

- Cultivator width 2600 mm
- Rotor diameter 1100 mm
- Number of diggers 60
- Diggers type lions paw
- Cultivator mark RF 1000-2006
- Space between diggers 40 mm
- Cultivator weight. 4060 kg
- Cultivator no 711.022.03.01
- Cultivator machinery. cardan
- Machine protection. Hardox 450, thickness 10mm
- Machine movement caterpillar
- Specific pressure 0,51 kg/cm²
- Caterpillar width 500 mm
- Caterpillar length 3.470 mm
- Space between caterpillars 1.500 mm

Machine speed

- Transport 0-6 km/h
- Working 0,8-1,5 km/h
- Anticipated processing of ground depth 30-40 cm
- Working tools cycling direction forward
- Machine management Remote control device
- Remote control type. HBC Radiomatic
- Maximum distance for controlling 200 m
- Ability of suppressing alongside elevation 45°
- Ability of suppressing horizontal elevation 45°



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VF-100



The VF-100, heavy demining machine, has been tested and certified by the Croatian Mine Action Center (CROMAC) Center for Testing and Research, and meets all requirements for use in humanitarian demining activities, passing tests on all anti-tank and anti-personnel mines

The VF-100 machine has been completely redesigned, modified and certified for demining operations. Controlled from its protected cabin, the VF-100 heavy demining machine has been designed for the most difficult terrain, conditions and high temperatures and also offers the possibility of remote control.

In this modified version of the AHWI GmbH RT-400, the existing cabin, which was not suitable for demining operations, has been removed and replaced with a completely new cabin in a different position to ensure maximum safety for the machine operator. The new cabin has level II ballistic protection against mine splinters, noises and vibrations. Windshield, windows and all other surfaces are made from several levels of ballistic glass to prevent internal splinter penetration. An emergency exit has been included on top of the cabin. The whole machine is protected with an additional armour shield using Hardox 450 boards.



Dimensions

- Length with caterpillar 4.825 mm
- Length with work tools 6.630 mm
- Width with caterpillar 2.500 mm
- Width with work tools 3.080 mm
- Machine height 3.150 mm
- Weight with work tools 22.000 kg
- Work tools weight. 4.000 kg
- Engine type. DEUTZ BF6M1015CP
- Engine power 300 Kw (408 Hp)
- Engine code –
- Engine capacity 11.906 ccm
- Engine fuel type Diesel
- Fuel tank capacity 760 l
- Average fuel consumption 42 l/h

- Work tools** cultivator
- Cultivator width 2600 mm
 - Rotor diameter 1100 mm
 - Number of diggers 64
 - Diggers type lions paw
 - Cultivator mark. RF 1000-2006
 - Space between diggers 40 mm
 - Cultivator weight. 4000 kg
 - Cultivator no 711.29.01.10
 - Cultivator machinery. cardan
 - Machine protection. Hardox 450, thickness 15mm
 - Machine movement caterpillar
 - Specific pressure 0,51 kg/cm²
 - Caterpillar width 500 mm
 - Caterpillar length 3.470 mm
 - Space between caterpillars 1.500 mm

Machine speed

- Transport 0-6 km/h
- Working 0,8-1,5 km/h
- Anticipated processing of ground depth 30-40 cm
- Working tools cycling direction forward
- Machine management
Personally from the machine, one person
- Management functions.
Driving – forward, backward, turning around,
managing working tools, managing the engine
- Ability of suppressing alongside elevation 45°
- Ability of suppressing horizontal elevation. 45°



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MDD/EDD



Dogs are considered to be the most reliable, versatile and cost-efficient explosives and mines detectors.

Explosive Detection Dog (EDD) is a specifically trained to locate and correctly indicate the presence of vaporised molecules of defined explosive substances. EEDs are used in many different roles within security risk mitigating operations and, as such, complement an existing security framework. This dogs are well suited for activities such as, Entry Control Point deployment, facility security verification, open area verification and IED incident response.

Mine Detection Dog (MDD) is trained and employed to detect mines, UXO and other explosive devices. A dog's capability to sniff the odor of low concentrated explosives evaporation hidden in the vegetation, and buried in the soil, represents the one of main reasons for their use in areas where other methods of demining are not possible to implement, such are areas highly contaminated with metal, hard surface areas, high slopes etc.

The company has recognized the importance of dogs in searching for mines and explosives, therefore for many years it has shown great success in breeding, training and working with dogs.



Advantages of MDD's and EDD's utilization are the following:

1. Reduction of mine and explosive suspected areas, when those areas are being reduced to the real contamination;
2. Detection of first mines and explosives in low contaminated areas without precise mine and explosive records;
3. Clearance of the hard surface areas and metal contaminated areas (buildings, gravel roads, stone, concrete and tarmac road surfaces, railways, water supplies etc);
4. Clearance of the surfaces after mechanical ground preparation with soil disturbance;
5. Sampling in demining quality control;
6. Clearance of the safe lane to access the mine or explosive victim.



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