

MINE SWEEPER RM-KA-02

Technical Description



RM-KA-02 is a radio-controlled demining machine designed for mechanical clearing mine contaminated areas by removing all types of vegetation (low, medium-sized and tall plants), treating the soil categories II–V (by splitting, digging and grinding) and destroying all types of antipersonnel and antitank mines (by detonating, splitting and grinding).

Manufacturer

ĐĐ SPECIAL VEHICLES
Dr. M. Budaka 1
HR-35000 SLAVONSKI BROD
CROATIA

Vehicle

- application midi flail machine
- chassis self supporting
- armour all vital components armour protected
- length, overall 5.415 mm
- length, without attachment..... 3.980 mm
- width, total 2.500 mm
- width, chassis 2.000 mm
- height, total 1.900 mm
- tumbler distance 2.705 mm
- track width 400 mm
- ground pressure 0.58 kg/cm²
- weight, total up to 14 t



Driving properties

- travel speed..... up to 5 kmph
- working speed 0.3 to 1.2 kmph
- max. gradient..... 35°
- max. grade slope 25°
- turning 0 m

Clearing performance

- ground clearing speed 500 to 2.000 m²/h
- clearance depth, up to max more than 250 mm
- mine types all types of AP and AT land mines

Clearing system

- type..... flail
- clearing width 2.000 mm
- diameter 900 mm
- number of hammers 36
- chain length 350 to 450 mm
- chain placement three spirals
- hammers overlay width..... 7 mm
- type of hammers..... "mushroom", mass 0.9 to 1.2 kg
- rotating speed..... up to 600 rpm
- rotating direction both
- drive..... two hydraulic motors

Engine

- type..... Cummins 6CTA8.3-C
- power..... 194 kW (264 HP) at 2.200 rpm
- fuel..... diesel, D-2
- fuel consumption 35 to 40 l/h
- cooling water
- air cleaning two-stage high efficiency, heavy-duty air filter
- fuel tank..... 360 l

Transmission

- type..... hydraulically adjusted tracks
- drive..... hydrostatic with two-speed motors
- track width 400 mm



Hydraulic system

- type..... closed
- manufacturer REXROTH
- controls..... remote controlled
- functions vehicle drive, clearing appliance drive,
clearing appliance lifting
- oil tank volume..... 220 l
- working pressure 250 bar
- cooling high efficiency, heavy duty oil cooler

Remote system

- type..... radio-remote control
- control unit..... portable
- functions all engine, drive and clearing controls
- range, maximal up to 800 m

Protection

- chassis plates 20 mm
- armour plates..... 10 mm, ARMOX
- active automatic fire extinguisher

Standard equipment

- refuelling pump
- working light

Optional equipment

- GPS
- video-control
- cable winch
- tiller unit
- escort vehicle

