KERBER

Remotely controlled weapon station 20/3 mm

The remotely controlled weapon station KEREBER is armed with a three-barrel 20 mm gun which is primarily intended for destroying and disabling ground targets (weapon systems, mortars, machine guns, airborne troops after landing, off-road vehicles, transporters, fuel trucks, trains, light armoured wheeled and tracked vehicles, enemy troops etc.) and seaborne targets (mobile and stationary vessels) at the effective range of up to 2000 m, as well as airborne targets (slow low-flying aircraft, helicopters, drones, UAVs, cruise missiles etc.) at the range of up to 1500 m.

Three 20 mm guns, with the firing rate of 1950-2250 rounds/min, provide a massive fire power to the weapon system. They are controlled by motors with electromagnetic brakes and zero-backlash gear reducers which ensure high accuracy of the weapon.

This combat platform is suitable for mounting on combat vehicles (wheeled and tracked), vessels as well as stationary structures for the protection of the territory.

KERBER consists of a weapon station, control console with FCS, an electric power subsystem and spare parts, tools and accessories (SPTA).

The weapon station, with a very low silhouette, consists of a bottom gun carriage which is fixed to the roof plate of the vehicle, an upper carriage carrying elevating components (a cradle with guns and a sensor unit) and an armoured hull. The hull is made of armoured steel and inside the hull there are traverse and elevation and other mechanisms. At the rear side of the hull, there are four 82 mm smoke pot launchers intended for creating smoke and camouflaging the battlefield.

The control console with FCS is operated by a gunner and it is installed inside the vehicle. It consists of a control panel with a joystick and a ballistic computer. The control panel is fitted with push buttons for the selection of sensors (LRF, day and night channel), gun fire selector (the middle barrel, two lateral barrels, or all three barrels) and pushbuttons for operating 4 smoke pot launchers.

The ballistic computer is the brain of the system and it is equipped with the software used by the gunner to operate Kerber. On the screen itself, apart from the reticle, there are fields showing the target distance, status of the round in each drum, magnification, etc.

In addition to the control console and electric installation, there is also a control and start-up box. The sensor unit consists of a day channel, night channel and laser range finder.

The new design of combat station provide a possibility for changing the ammo drums from inside of the vehicle, where are crew members protected.

Day channel:

- Sensor type — 1/2,8" CMOS
- Magnification — 36x
- Angle of site — 63.7° (wide) to 2.3° (tele)

Night channel (thermal imaging camera):

- Sensor type — 640 x 512 VOx Microbolometer
- Spectrum range — 7.5 - 13.5 µm
- Field of view (H x V) — 6.2° x 5°

Laser range finder:

- Wave length: — 1540 nm
- Measuring range: — 80 - 10000 m
- Measurement error — ± 5 m

TECHNICAL DATA:

- Dimension (W x H x L) — ~ 1440 x 680 x 3600 mm
- RCWS weight (with ammunition) — ~ 1000 kg
- Drive type — electrical
- Field of action in traverse — n x 360°
- Field of action in elevation — -5° to +81°
- Automatic gun type — M55
- Caliber — 20 mm (20 x 110 mm)
- Feeding type — drum
- Number of rounds — 60 x 3 = 180 rounds
- Muzzle velocity — 850 m/s
- Effective range — 2000 m
- Rate of fire — 1950-2200 rounds/min
- Drum replacement method — from vehicle
- Time to replace 3 drums — ~1 min

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Should you have any further enquires, please do not hesitate to contact us at **office@yugoimport.com**