

4x4 INTERNAL SECURITY VEHICLE



Otokar

A SINGLE PLATFORM ADJUSTABLE FOR VARIOUS MISSIONS

Otokar ISV is designed and developed for various public security missions. The vehicle is the right solution for personnel carriage in risky territories with its high level of armour protection. Thanks to its high and imposing appearance, ISV attracts attention in the crowd and discourages groups by generating a psychological effect on them.

Otokar ISV also provides the crew with a wide range of sight and enables controlling the progressing events outside the vehicle. The lean and flat outer body panels prevent rioters from climbing on the vehicle. High power weight ratio, permanent 4 wheel drive and ample ground clearance ease negotiating obstacles in and around the streets when required.



PERSONNEL CARRIER



COMMAND CONTROL



PRISONER CARRIER



AMBULANCE



The Water Cannon Variant

The Water Cannon Variant has an armored cab for the driver and the operator at the front. The vehicle is fitted with an auxiliary engine located at the rear, to drive the water pump that powers the system. The tanks, the auxiliary engine and the rest of the system components are encapsulated behind the hull made of high-hardness steel, which provides protection against vandalism.



4x4 INTERNAL SECURITY VEHICLE TECHNICAL SPECIFICATIONS

WEIGHT AND DIMENSIONS	Internal Security Vehicle	Water Cannon Variant
Gross Vehicle Weight	19000 kg	19000 kg
Maximum Crew Capacity	16	2
Length	7700 mm (with barricade remover)	7700 mm
Width	2590 mm	2590 mm
Height	3850 mm (with turret)	3850 mm
Ground Clearance	380 mm	
ENGINE	Turbo Charged Diesel Engine, 440 HP	
TRANSMISSION	Automated 12 forward, 2 reverse	
TRANSFER CASE	Permanent 4 wheel drive, 2 speed with high and low ranges, central differential lock	
AXLES	Heavy duty axles with 100% differential locks	
SUSPENSION	Heavy duty parabolic springs at front and rear, hydraulic telescopic shock absorbers, anti-roll bars	
BRAKES	Dual circuit, compressed air brake with automatic brake shoe adjustment automatic, air drier device and ABS. Spring type parking brake acting on rear wheels. Exhaust brake with simultaneous action	
STEERING	Hydraulic power steering system, left hand drive	
TYRES	Military type run-flat and 14R20 tyres	
ELECTRICAL SYSTEM	24 V, 12 V, 230 Ah Maintenance-free Batteries, 28 V Alternator	

WATER CANNON SYSTEM

Water Tank Capacity	6000 L
Auxiliary Engine	Diesel, 100 HP
Shooting Range	50 m at 8 to 12 bar (at the nozzle exit)
Cannon Material	Aluminium
Movement	Pan tilt movement by DC electric motor
Rotation Speed	Slow/fast rotation modes
Gas / Dye / Foam Injection	13 bar injection supplied from 60 / 60 / 80 lt. tanks

STANDARD FEATURES & EQUIPMENT









Single touchpad control panel for setup and operation
 Friendly user interface
 Multi language operation, settings, maintenance and help menus
 Menus with detailed information
 Diagnosis function and data export through compatible computer socket
 Camera with night vision function
 Single hand control system carries out all the necessary functions of the water cannon and the camera
 Wide screen LCD displays for surveillance and cannon cameras
 360° rotation capability
 Shooting modes with short/long intervals and continuous operation
 Gas/dye mixtures with adjustable ratio
 Blockage prevention on the gas/dye/foam nozzles with automatic after-shot treatment
 Gas spraying protection system around the vehicle
 Fire extinguishing system on the roof and body, above each wheel and underneath the vehicle
 Ability to shoot foam through the water cannon
 Water supply from water ponds, rivers, sea

OPTIONAL EQUIPMENT

Camera and video recording system with retractable mast that can rotate 360 degrees and can be controlled from within the vehicle.
 Smoke grenade launchers
 Multiple grenade launcher system
 Over-pressure & NBC gas filtration system
 Sound cannon
 Crowd pusher
 Antenna mounts for different configurations
 Radio trays for different configurations
 Automatic fire suppression system for crew cabin
 Fire suppression system for wheels
 Electric self recovery winch

VEHICLE VARIANTS

10 tons water capacity (6x4 and 6x6 vehicle configurations)
 2x water cannons with separate remote control stations, 2+3 crew capacity (6x4 and 6x6 vehicle configurations)

600 km	600 mm	380 mm	30%	850 mm	60%	20° / 20° (with barricade remover retracted)	100 km/h, limited electronically
							
Range	Trench Crossing	Vertical Obstacle	Side Slope	Fording Depth	Gradeability	Angle of Departure / Approach	Maximum Speed

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STANDARD FEATURES AND EQUIPMENT

The frame is designed especially for heavy duty on and off-road conditions
 Ladder frame chassis with riveted and bolted cross members
 Independent air conditioning with auxiliary power unit (APU)
 Public announce system and siren
 Internally wired remote controlled front & rear searchlights
 Roof hatch
 Heated and remote controlled rear view mirrors
 Ventilation and heating system
 Wire-mesh protection on all glazing
 Pneumatically operated wire-mesh protection on windscreen
 Wire-mesh protection on all exterior lights
 Towing attachments in front and rear
 Gun ports all around
 Teargas launcher port on the front glazing
 Removable door handles for increased security
 Smoke extractor fan
 Hydraulically operated ramp door with steps at the rear
 Hydraulically operated right sliding crew doors at the side
 Flap doors with open-lock mechanism for the driver & commander
 Fixed cameras at the front and rear
 Bolt-on Molotov cocktail protection shields for the engine air & radiator air inlets
 Fire retardant paint
 Rifle holders
 Spiked mirror arms to prevent rioters from climbing on the vehicle
 Light bar and front/rear flasher lights
 Hydraulic front barricade remover with brush underneath

OPTIONS

Smoke grenade launchers
 Multiple grenade launcher system
 Additional armour
 Customized turrets for different types of weapons
 Electric Self Recovery Winch
 Sound cannon
 Crowd pusher
 Camera and video recording system with retractable mast that can rotate 360 degrees and can be controlled from within the vehicle
 220V and 12V power outlet
 Antenna mounts for different configurations
 Radio trays for different configurations
 Over-pressure & NBC gas filtration system
 Wire cutters fitted on either front side of the vehicle
 Automatic Fire Extinguishing System for Engine Compartment
 Automatic fire suppression system for crew cabin
 Automatic Fire Extinguishing System for APU Compartment
 Automatic Fire Extinguishing System for Fuel Tank Compartment
 Fire suppression system for wheel station
 Fire suppression system for exterior surface
 Stowage for riot gear & ammunition
 Refrigerator and hot water dispenser
 Hydraulically operated two sliding crew doors at the sides
 Molotov Cocktail Protection Kit

Otokar

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