



PROTECTED MOBILITY.

MLS SHIELD 4x4 is a midweight protected vehicle designed and manufactured by TEKNE, in Italy.

MLS SHIELD meets the requirements of global defence forces for a highly protected, mobile and integrated vehicle able to operate in an environment under threat from Improvised Explosive Devices, mines and ambushes.

The vehicle allows for a flexible internal layout to accommodate a large number of staff or mission systems and material.

MLS SHIELD

4x4 Multipurpose
Wheeled Armoured
Vehicle

custom engineered
and manufactured for

by TEKNE
made in Italy



www.tekne.it
sales@tekne.it



MLS SHIELD

4x4 Multipurpose Wheeled Armoured Vehicle

PROTECTED MOBILITY.

The crew protection cell has seating for up to 10 occupants. A high level of built-in blast protection is combined with ballistic protection that can be scaled to match the operating environment. Speed 110 km/h. Very good on and off road mobility in all conditions. 4x4 Drive with heavy duty rigid axles and suspensions. Max range 500 km. up to 360Hp turbo diesel engine with 6-speed automatic transmission.

MISSION SYSTEMS & INTEGRATION.

Tekne offers a broad portfolio of mission systems equipment and integration expertise. MLS SHIELD has been designed from the outset with built-in features that deliver an integrated high-performing Vehicle Electronic Architecture. Purpose-designed areas provide space and power for radios, computers and other electronic equipment.

TRANSPORTABILITY.

MLS SHIELD is transportable by C-130 aircraft and by helicopters with appropriate lifting capacity.



VERSIONS.

MLS SHIELD is designed for a diverse range of roles, such as:

- Personnel Carrier
- Command & Control
- Ambulance / Medical evacuation
- Internal Security Vehicle
- Reconnaissance / Surveillance
- Electronic warfare
- NBC Reconnaissance
- VIP version
- Full customized versions





MLS SHIELD

4x4 Multipurpose Wheeled Armoured Vehicle

TECHNICAL DETAILS

Chassis and mechanics

Drive	LHD (optionally RHD)
Driveline	4x4
Chassis Frame	Custom designed chassis, made in special steel with high elasticity limit.
Engine	Cummins, 6.7L I6 Turbo Diesel Max power 360 Hp / 261kW @ 2800rpm Max torque 1100Nm @ 1400rpm Heavy duty engine cooling (opt: FPT Iveco engine)
Fuel Tank	200L
Transmission	Allison 3200SP, Automatic 6 speed Transmission oil cooler
Transfer case	Mechanical with two ratios. Lockable differential.
Front axle	Steering type; with dual reduction, central by pinion-crown gear, lateral by means of epicycloid assembly in wheel hubs. Lockable differential.
Rear axle	Driving axle with dual reduction, central with bevel gear pair, final in wheel hubs by means of epicycloid assembly. Lockable differential.
Brakes	front: 405 mm Disc, hydraulic assisted, ABS rear: 405 mm Disc, hydraulic assisted, ABS
Suspensions	front: heavy duty coils with hydraulic dampers rear: leaf springs with hydraulic dampers
Tires	14.00R20 Off-Road wheels. Run flat insert (50 km/h, 50 km), with bead lock function. Provision for CTIS system.
Steering	Hydraulic assisted power steering.
Electrical System	Dual 24V battery system, with bridging system 2x90A alternator (opt: 2x 170A alternator)

Body

Protection level	FB7 level according to EN1063 (armoured steel)
Crew capacity	up to 10, including driver and commander, depending on different configurations.
Doors	2 side doors + 1 Rear Ramp Door (or rear door) + 1 roof hatches + 1 weapon ring
Seating	2 seats in front + 6/8 seats on the rear. Inward or outward configurations. Ergonomic seats (synthetic leather), with 4 points seat belts.

Dimensions and weights

length / width / height	6100 mm / 2500 mm / 2650 mm
Tare, curb weight	approx 11.500 Kg (depending on configuration)
Gross Vehicle Weight	15.000 Kg



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Performances	
Ground clearance	min 500 mm
Angle of approach	41 °
Angle of departure	40 °
Maximum Speed	110 Kmh
Max climbing gradient	min 60%
Fording depth	900 mm without preparation
Turning Circle	14 m
Standard equipments	Optional equipments
Rear view camera	Night vision system
Air conditioning system	Self-recovery winch
Inter-vehicle start socket	NBC filtration kit
Radio provisions	Automatic fire suppression system
Turret provision	Intercom system
Lashing and tie-down provisions	Navigation system
Gun ports	Strobe lights, police bar, siren, PA, Search Lights, etc.
Blackout lighting system	Central Tire Inflation System (CTIS)
	Internal battery charger with external socket
	Self-recovery winch
	Full customized versions

Weapons

MLS SHIELD is an ideal platform for different weapon systems.
 MLS SHIELD can accept various types of weapon stations and turrets with night vision periscopes, fire control systems with thermal capabilities, etc. Weapons mount options include Manned or RWS 12.7 mm HMG, 40 mm Auto Grenade Launcher, 5.56 mm and 7.62 mm MG swing mounts.



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TEKNE srl
 Headquarters
 Contrada San Matteo, 42
 66030 Poggiofiorito (CH)
 E-mail: sales@tekne.it

Operational Unit - Chieti
 Via Enrico Mattei, 20
 66013 Chieti Scalo (Ch)
 ITALY
 Ph.: +39 0871 550801

Operational Unit - Ortona
 C.da Alboreto, ex SS538
 66026 Ortona (Ch)
 ITALY
 Ph.: +39 0871 938820