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AACE

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ARMORED AMPHIBIOUS COMBAT EARTHMOVER
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AACE ARMORED AMPHIBIOUS COMBAT EARTHMOVER

OVERVIEW

AACE is an amphibious, armored, tracked, combat earthmover; designed for the preparation of river banks during river crossing missions. It is capable of performing bulldozing, rough grading, excavating, hauling, and scraping operations. As compared to standard heavy-duty vehicles; AACE has the capability to take in ballast from the soil ground to its ballast canister, when necessary the vehicle is also capable of discharging its ballast canister at the end of the operation. In standard heavy-duty vehicles, the dozer blade is hydraulically operated while the vehicle is stable.

However, in AACE it is fixed to the vehicle. With its adjustable hydraulic suspension system, the front section of AACE can be shifted in the vertical axis. This capability enables the blade or ballast canister to make contact with and penetrate the soil. As a result, more efficient shoveling and plowing can be performed. These activities can also be performed while the vehicle is on the move

One of the most important and unique features of AACE is its amphibious capability. It can be operated with a crew of 2. In addition, AACE is fitted with modern electronic systems such as day and night cameras, multi-function LCD monitor and air-condition system.

To provide the amphibious capability, together with the mine and ballistic protection requirements; AACE hull structure is made of ballistic aluminum.

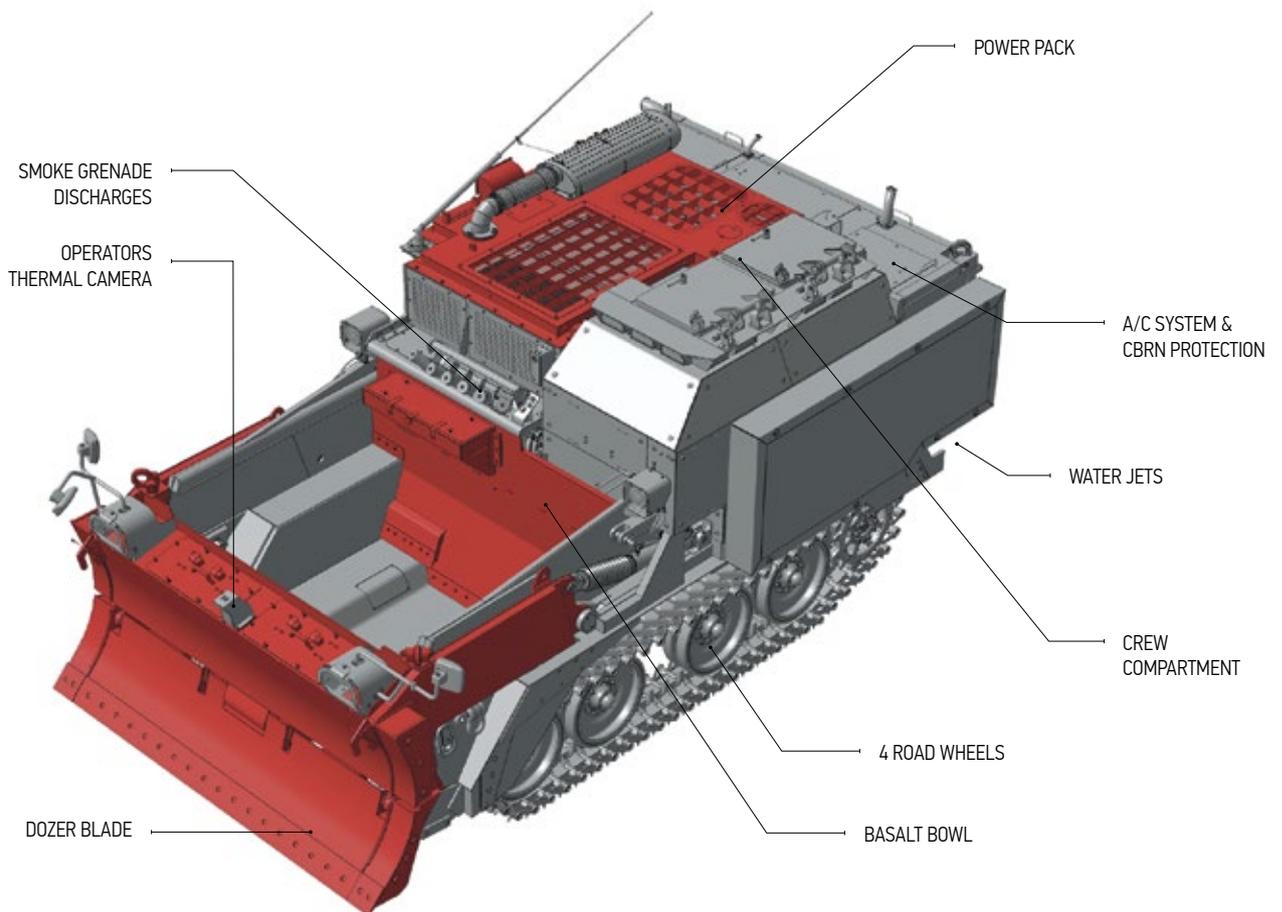
Its modern hydraulic system and power transmission enables the vehicle to operate with higher maneuverability and operational performance.





AACE' power pack consists of fully automatic transmission, coupled with a diesel engine. AACE is capable to speed up to 45km/h on land. It can travel safely in river streams against current speeds up to 1.5 m/sec with 360° high-maneuverability through its two water jets, placed at the rear section on both sides of the vehicle.

AACE was manufactured as a local development and manufacturing project of FNSS. Today the AACE' in service with the Turkish Land Forces are used in various missions and have already become combat proven in certain operations.



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AACE TECHNICAL SPECIFICATION

Data subject to change without notice.

GENERAL

Weight	19.500 kg
Transmission	Fully Automatic
Crew	2
Length	6.2 m
Width	3.3 m
Height	3.2 m
Suspension	Hydraulic

MISSION EQUIPMENT

Vision System	Thermal & Day Cameras
Recovery Winch	15.000 kg

PROTECTION SYSTEM

CBRN System	Positive Pressure Type
A/C System	Heating and Cooling
Fire Extinguisher System	Fixed Extinguishing System for Engines and Portable Extinguishers
Smoke Grenade Launcher	Standard, 6 ea

MOBILITY

Maximum Speed	
Road Speed	45 km/h
Speed in Water	8,6 km/h (with 2 ea Water Jets)
Swimming	Fully Amphibious
Range	400 km
Gradient	60%
Side Slope	30%
Vertical Obstacle	0.4 m
Trench	1.5 m
Turning Radius	Pivot