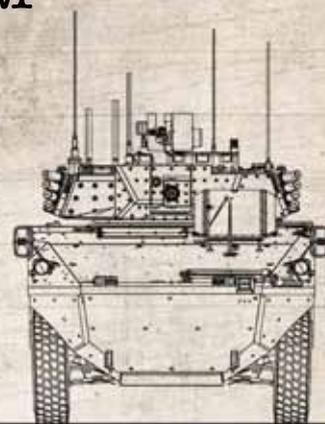
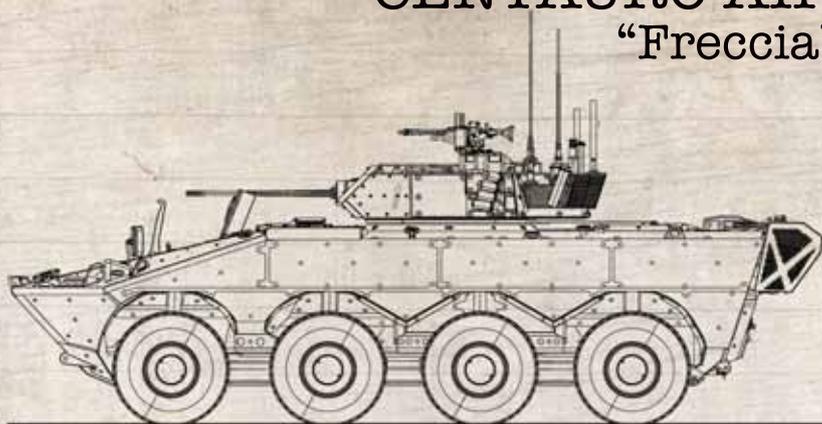


# CENTAURO AIFV/ATGM "Freccia"



## Dimensions

Length	8.56 m
Height (hull)	2.04 m
(with turret)	3.18 m
Overall Width	2.99 m
Ground clearance	0.41 m
Wheelbase	2.50 m
Approach angle	40°
Departure angle	40°
Seats	1 + 2 + 8

## Weight / Volume / Payload

Empty weight	22.0 t
Payload	8.0 t
GVW (Maximum)	30.0 t
Internal volume	11 m <sup>3</sup>

## Performance

Max. speed (paved road)	110 km/h
Gradient	> 60%
Side slope	> 30%
Range on road (70 km/h)	> 800 km
Step	≥ 0.6 m
Trench	≥ 2 m
Fording depth (without preparation)	1.5 m
Turning circle radius (curb to curb)	< 9.0 m
Power to weight ratio (in combat order)	21 HP/t

## Mobility

Engine	IVECO 8262 6V turbocharged after cooler
Fuel	Diesel fuel/JP8
Power	405 kW (550HP)
Torque	2000 Nm (202 kgm)
Gearbox	Automatic type
Number of gears	5 + 2 r.

## Driveline / Suspension

Single-differential twin-shaft design  
(H-shaped driveline)  
Hydro-pneumatic and independent suspension  
Steering on 1<sup>st</sup> - 2<sup>nd</sup> and 4<sup>th</sup> axle  
All - disk "Full - Power" braking system

## Wheels

14.00R20 XZL/XML  
Run-flat VFI system  
Central Tyre Inflation System (CTIS)

## Survivability

Low vehicle profile  
High hardness monocoque steel hull  
Direct fire ballistic armour (base level)  
AT mines protection (base level)  
Anti-mine seats  
Laser warning system

## Options

Hydraulic Winch  
NBC protection  
(collective with individual backup)  
Fire Extinguishing/Anti-explosion system  
in Crew cabin  
Auxiliary heaters  
Anti-explosion/self-sealing fuel tanks  
Direct fire ballistic armour (advanced level)  
AT mines protection (advanced level)  
Specific IED protection suite

## Driver sights

n° 3 episcopes in front of the hatch  
night vision goggles

## Turret

### Crew

2 men (commander and gunner)

### Armament

Main n° 1 KBA OERLIKON 25 mm  
or n° 1 ATK MK 44 30 mm  
Coaxial n° 1 MG 7.62 mm  
n° 2 ATGM Launchers (option)  
External Anti-Aircraft n° 1 MG 7.62/5.56 mm  
Grenade launchers n° 8 GALIX x 80 mm

### Ammunition

Main gun  
n° 200 rounds (minimum) ready to fire  
(n° 120 HE + n° 80 APDS or vice-versa)  
Coaxial gun  
n° 600 rounds ready to fire  
External Anti-Aircraft  
n° 200 rounds (minimum) 7.62 mm ready to fire  
Grenades  
n° 8 grenades ready to fire  
n° 8 grenades stored in the turret

### Electrical servo systems

Azimuth continuous n x 360°  
Elevation -10° +60°  
Maximum speed (elevation) 0.5 rad/sec  
Minimum speed (elevation) 0.5 mrad/sec  
Maximum acceleration (elevation) 1 rad/sec<sup>2</sup>  
Maximum speed (azimuth) 1 rad/sec  
Minimum speed (azimuth) 0.5 mrad/sec  
Maximum acceleration (azimuth) 1 rad/sec<sup>2</sup>

### Gunner sights

n° 1 frontal episcopes  
Day/night sight and LRF with visualization  
of the images on a TFT display

### Commander sights

n° 8 episcopes around the hatch  
TFT display for the visualization of the images  
coming from the day/night gunner sight.  
Day/night panoramic sight and LRF with  
visualization of the images on a TFT display.