

*Type: Vehicle, Utility Nomenclature: Agrale Marruá
Country: Brazil Date of Introduction: 2004*

Physical Data:

Weight:
 Empty 3219 lbs (1460 kg)
 Loaded 4322 lbs (1960 kg)
 Length (OA) 150 in (3800 mm)
 Width (OA) 74 in (1870 mm)
 Height (OA) 77 in (1950 mm)
 Ground Clearance... 10.5 in (270 mm)
 Wheel Base 90.5 in (2300 mm)
 Wheel Tread 60.5 in (1540 mm)
 Drive 4x2 and 4x4
 Armor None
 NBC Protection Individual

Armament: As fitted by user.

Capacity:

Fuel 27 gals (102 L)
 diesel
 Ammo/Qty Depends on weapon
 Crew 3-4

Engine:

Type Turbo diesel
 HP at Rev/Min 132 hp (98 kW)
 @ 3600 rpm
 Model 4.07 TCA
 Mfr MWM
 No. of Cyls 4 in-line
 Location Front
 Cooling Liquid

Transmission:

Type Manual
 Speeds Fwd/Rev 5/1
 Model FS 2305
 Mfr Eaton

Suspension System:

Type Coil spring
 Wheels steerable ... Front pair
 Turning Radius 22 ft (6.6 m)
 No of wheels 4
 Tire Size 7.5x16

General Data:

Elec Voltage 12-24V as required
 Radio As fitted by user
 Cargo Vol/weight ... 1102 lbs (500 kg)

Night Vision Devices: As fitted by user

Performance:

Speed/Land 74 mph (120 km/h)
 Speed/Water n/a
 Range 621 mi (1000 km)
 Fording Depth 23.5 in (600 mm)
 Max Grade 120%
 Trench Crossing unk
 Step 14 in (360 mm)



Above: AGRALE Marruá fitted with .50 cal (12.7mm) mount and top, a 106mm RR mounting. (Photos: AGRALE s.a)

Remarks: The Marruá or (Wild Bull) is based on experience with the earlier Engesa EE-12. Developed jointly by Columbus and Cepe, in 2003 AGRALE, a manufacturer of trucks, tractors, diesel engines, etc., took over development and production. Initially three prototypes were completed, with an additional 10 pre-production machines delivered to the Brazilian Army. AGRALE has managed to produce a vehicle with 100% national components and

manufacturer. The Marruá is basically transport for a maximum of four soldiers with their gear, but other versions have been completed as well equipped for the installation of an antitank missile launcher, fitting of the 106mm RR, mountings for the 7.62 or 12.7mm machine-guns, radios or as a front-line ambulance. The body and tubular roll bar are steel, ceiling and doors vinyl.

Usage: Entering service with the Brazilian Army in 2005.

Manufacturer: AGRALE s.a., Caxis do Sul, Brazil.