

# ARCHIVED REPORT

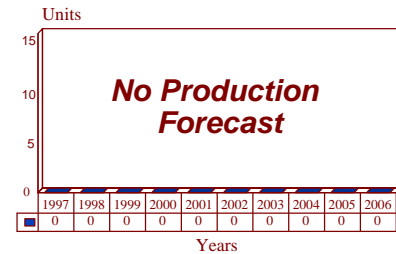
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## UR-416 - Archived 8/97

### Outlook

- Production of the UR-416 went dormant in 1994
- No additional production forecast
- Vehicle remains in service in many nations

10 Year Unit Production Forecast  
1997 - 2006



### Orientation

**Description.** A wheeled vehicle

**Sponsor.** The UR-416 was initially a private development program; subsequently, some support came from the Federal Republic of Germany's Ministry of Defense and various German internal security and police forces. Further development was funded by the contractor.

**Contractors.** This vehicle was developed and was manufactured by Thyssen Maschinenbau AG; Witten-Annen, Federal Republic of Germany. Daimler-Benz did some of the original design work and was the principal subcontractor.

**Licensees.** None

**Status.** The manufacture of the UR-416, was completed in 1995; the vehicle remains in service in the Federal Republic of Germany and at least twenty export clients.

**Total Produced.** A total of 1,067 UR-416 vehicles in all versions was manufactured.

**Application.** An armored personnel carrier used for reconnaissance, border patrol and internal security operations.

**Price Range.** In equivalent 1994 United States dollars, the basic vehicle armed with a mounted 7.62 millimeter machinegun had a unit price of \$341,300 per unit. The UR-416 has not been traded on the open market by international arms merchants.

### Technical Data

**Crew.** Two: commander and driver, plus eight infantrymen

**Configuration.** 4x4

**Armor.** The UR-416 is fabricated of all welded steel alloy armor which is proof against 7.62 millimeter ball projectiles as well as ballistic fragments.

**Design Features.** The UR-416 is a highly cost effective design based on commercial truck (UNIMOG) components that is optimized for military police and internal security related missions.

**Dimensions.** The following data are for the UR-416M, the last production standard.

	<b>SI units</b>	<b>US units</b>
Length	5.1 meters	16.73 feet
Width	2.25 meters	7.38 feet
Height	2.25 meters	7.38 feet
Combat weight	7.6 tonnes	8.38 tons
Fuel capacity	150 liters	39.89 gallons

**Performance.** The maximum speed and range figures are on a metalled road.

Maximum speed	81 kilometers per hour	50.3 milers per hour
Maximum range	670 kilometers	416.1 statute miles
Step	55 centimeters	1.8 feet
Trench	60 centimeters	1.96 feet
Slope	41%	41%
Gradient	70%	70%
Fording	1.3 meters	4.27 feet

**Engine.** Daimler-Benz provides the OMT 352 six cylinder liquid cooled diesel engine rated at 89.52 kilowatts (120 horsepower) at 46.67 revolutions per second (2,800 revolutions per minute). The power-to-weight ratio is 11.78 kilowatts per tonne (14.32 horsepower per ton). A 24 volt electrical system with two 12 volt 110 amperehour batteries is the standard electrical fit.

**Gearbox.** Daimler-Benz provides the unspecified manually operated unit with six forward and two reverse gear ratios. The steering system is hydraulically operated with power assistance.

**Suspension and Running Gear.** While the UR-416 is a s all wheel drive component, the vehicle is normally operated in the two wheel drive mode. The 12.50x20 radial type tires are the run flat type.

**Armament.** The initial vehicles were equipped with a Rheinmetall TF 20 15 turret-mounted Rheinmetall Rh 202 20 millimeter cannon. More recent versions had options for twin 7.62 millimeter machine guns or a HOT, TOW, or MILAN anti-tank missile launcher. Other armament options were also available including a CS/CN gas projection system with a capacity of 500 liters (132.98 gallons).

## Variants/Upgrades

**Variants.** This multi-purpose vehicle was developed into a number of variants to suit various customer requirements.

**Anti-tank Vehicle.** For anti-tank missions, the UR-416 can be equipped with the Bofors PV 1110 90 millimeter recoilless rifle, BGM-71 TOW, MILAN, HOT or Cobra/Mamba missiles.

**Ambulance.** This variant is based on the unarmed chassis; it has a crew of two plus eight sitting or four sitting and two stretcher patients.

**Command.** This variant is fitted with additional batteries and an uprated generator to support the additional electric load imposed by communications equipment.

**Internal Security.** An obstacle-clearing dozer blade is fitted; it is raised/lowered hydraulically by the driver.

Although the same armament installations as the basic UR-416 can be fitted, two special cupolas for this variant are available. One features two rows of vision blocks, eight per row plus a firing port. The other cupola is similar but only one row of vision blocks is fitted.

**Reconnaissance.** Most turrets designed for this weight class vehicle can be fitted to this variant.

**Workshop.** This variant is fitted with tools, cutting equipment and workbenches. An A frame can be erected at the front of the hull. When the A frame is deployed, two stabilizers are lowered.

**Modernization and Retrofit Overview.** As of mid-1997, no significant modernization or retrofit programs have been developed for the UR-416 and none are expected.

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