



METAL MILITARY MISSION BY MÄRKLIN



2007

CATALOG FOR 2007 // INTRODUCTION

4MFOR – Super Detailed Military Models Constructed of Metal!

Military technology has a special fascination for many people. The military is regaining importance in today's world through measures to safeguard and create peace. In the process, the range of tasks has become more varied and differentiated. The equipment for the troops must therefore keep pace and many modern, impressive vehicles are being created from scratch. Our model builders are creating richly detailed models using precise molding technology. These models make use of metal as a raw material and feature a previously unknown quality in the scales of 1:87 and 1:32. Fascinating details and even the weight of a real tank are realistically and impressively translated into the model in this manner. Loading scenes and troop transport can be reproduced with absolute prototypical realism for a model railroad in the scales of 1:87 and 1:32. We understand this type of craftsmanship: Because the 4MFOR quality, the 4MFOR railroad locomotives and cars, and the 4MFOR metal technology for these military models come from a good company: From Märklin!



ART.NO. 26290 // GERMAN FEDERAL ARMY MILITARY TRAIN	// 04-05
ART.NO. 18500 // WOLF ALL-TERRAIN VEHICLE	// 06
ART.NO. 18505 // DINGO 1 GENERAL PURPOSE TRANSPORT VEHICLE	// 07
ART.NO. 18510 // FENNEK RECONNAISSANCE VEHICLE	// 08
ART.NO. 18530 // 5T GL MIL TRUCK	// 09
ART.NO. 18535 // 7T GL MIL TRUCK	// 10
ART.NO. 18540 // 10T GL MIL TRUCK	// 11
ART.NO. 18525 // FUCHS ARMORED TRANSPORT VEHICLE	// 12
ART.NO. 18520 // GEPARD TANK	// 13
ART.NO. 18515 // LEOPARD 2 A6 TANK	// 14
ART.NO. 46954 // KBS 443 WITH 2 EACH WOLF VEHICLES	// 15
ART.NO. 46952 // KBS 443 WITH A DINGO 1 VEHICLE	// 15
ART.NO. 46953 // KBS 443 W. 2 FENNEK RECONNAISSANCE VEHICLE	// 16
ART.NO. 46955 // KBS 443 WITH A 5T GL MIL TRUCK	// 16
ART.NO. 46956 // KBS 443 WITH A 7T GL MIL TRUCK	// 17
ART.NO. 48713 // FLAT CAR WITH A 10T GL MIL TRUCK	// 17
ART.NO. 48710 // FLAT CAR WITH A FUCHS ARMORED VEHICLE	// 18
ART.NO. 48712 // FLAT CAR WITH A GEPARD TANK	// 18
ART.NO. 48711 // FLAT CAR WITH A LEOPARD 2 A6 TANK	// 19
ART.NO. 42563 // “SILVER COINS” HOSPITAL CAR SET	// 20-21
ART.NO. 58658 // 1 GAUGE FLAT CAR WITH A 7T GL MIL TRUCK	// 22
ART.NO. 18102 // 1 GAUGE 7T GL MIL TRUCK	// 23

CATALOG FOR 2007 // TABLE OF CONTENTS AND SYMBOLS

	MÄRKLIN MODEL		VEHICLE WITH WHEELS
	TRIX MODEL		VEHICLE WITH TRACKS
	3-RAIL AC SYSTEM		RAILWAY VEHICLES
	2-RAIL DC SYSTEM		DIGITALDECODER WITH MFX FORMAT
	MILITARY VEHICLE		21-PIN CONNECTOR PLUG
	SCALE 1:87		3X BRIGHT AND 2X RED BI-DIRECTIONAL LIGHTING
	SCALE 1:32		LOCOMOTIVE MAINLY MADE OF METAL
	SCALE GAUGE		SHORT COUPLING MECHANISM
	SCALE GAUGE		CHASSIS OF WAGON MAINLY MADE OF METAL
	ERA IV (1963-1990)		INTERIOR LIGHTING MÄRKLIN 7330 - CAN BE REFITTED
	ERA V (1990 - PRESENT)		INTERIOR DETAILS
	INFORMATIONS ABOUT THE ORIGINAL VEHICLE		

GERMAN FEDERAL ARMY MILITARY TRAIN // ART.NO. 26290



German Federal Army military train with a locomotive, a train passenger car and four Kbs 443 with one “Leopard 2” on each Kbs - ill. 25% of model size

Prototype:
Tank transport train with a German Federal Army escort. Class 290 heavy switch engine. Type Sammp 705 heavy duty flat car. "Leopard 2" battle tank in the improved original version type A1. Type Bm 234 escort car provided by the German Federal Railroad (DB).

Model:
The locomotive has an mfx digital decoder and C-Sine controlled high-efficiency propulsion. The locomotive has a powerful, compact design, maintenance-free can motor with a flywheel, centrally mounted. 4 axles powered through cardan shafts. 2 traction tires.

The headlights / marker lights are maintenance-free LED's. The headlights / marker lights will work in conventional operation and can be controlled digitally. The acceleration and braking delay can be controlled with a 6021 Control Unit or Märklin Systems. The engineer's cab has interior details shown in relief. The locomotive has separately applied grab irons and metal handrails. The steps to the engineer's cab can be removed for small radius curves.

The 4 heavy duty flat cars have metal frames and heavy duty trucks. The escort passenger car comes in a length corresponding to a scale of 1:93.5. The trucks are based on Minden Deutz designs and have separately applied parts. This car can be retrofitted with current-conducting couplers, interior lighting, and marker lights. Total length over the buffers 1020 mm / 40-3/16". 4 model tanks made of metal. The turrets can be rotated, and the cannons can be moved up and down. Authentic paint schemes and detailed lettering.

Locomotive and cars with German Federal Army paint schemes and lettering from around 1980. "Leopard 2" tanks as newly developed heavy metal models.

ART.NO. 21338 // GERMAN FEDERAL ARMY MILITARY TRAIN



German Federal Army military train - ill. 60% of model size

GERMAN FEDERAL ARMY MILITARY TRAIN

Tanks and Trains

Locomotive road number 290 999 2 was delivered directly to the German Federal Army in 1974. It was intended to provide switching service for heavy tank trains and be able to bring cars and trains to the DB's route network. This locomotive was used by the DB outside of its "army service", and after the reunification of East and West Germany the civilian use outweighed the military use. The locomotive was initially leased to the DB and was sold to the DB on January 1, 1996 after long negotiations. Currently it is designated as road number 294 408-0.

The "Leopard 2" is the powerful German battle tank, which is used as a standard tank by the German Federal Army ñ currently 2,125 units. Other countries have also bought this modern tank or have built it under license. The "Leo 2" has been built since 1979 and

has been constantly developed further or retrofitted with additional equipment ñ from the original A0 version to the current A6. The subassembly design concept allows this tank to be adapted constantly to the current level of technology. A "Leopard 2" weighs between 55 metric tons (A0) and 60 metric tons (A6) and requires special, heavy duty flat cars for transport by rail, which the DB and the German Federal Army itself hold in readiness. The "Leo 2" reaches a speed of 70 km/h / 44 mph on roads under its own power and requires around 300 liters / 80 gallons of diesel fuel every 100 km / 63 miles ñ in the countryside almost double that at 40 km/h / 25 mph. At any rate, about 1,500 horsepower is produced from a motor displacement of 47.6 liters / 2,906 cubic inches. These data are on the order of a modern, compact diesel locomotive.

Prototype:
Tank transport train with escort, painted and lettered for the German Federal Army. Class 290 heavy switch engine. Type Sammp 705 heavy duty flat car. "Leopard 2" battle tank in its original paint and lettering as type A1. Type Bm 234 escort car provided by the German Federal Railroad (DB).

Model:
The locomotive's frame and the main part of its body are constructed of metal frame. It has a 21-pin digital connector for the 66839 decoder. The locomotive has a powerful, maintenance-free can motor with a flywheel, centrally mounted. 4 axles powered through cardan shafts. 2 traction tires.

The headlights / marker lights are maintenance-free LED's. The engineer's cab has interior details shown in relief. The locomotive has separately applied grab irons and metal handrails. The steps to the engineer's cab can be removed for small radius curves. The locomotive has NEM coupler pockets.

The 4 heavy duty flat cars have metal frames and heavy duty trucks. The escort car comes in a length corresponding to a scale of 1:93.5. The trucks are based on Minden Deutz designs and have separately applied parts. This car can be retrofitted with current-conducting couplers, interior lighting, and marker lights. Total length over the buffers 1020 mm / 40-3/16". 4 model tanks made of metal. The turrets can be rotated, and the cannons can be moved up and down. Authentic paint schemes and detailed lettering.

Locomotive and cars in a German Federal Army version from around 1980. "Leopard 2" tanks as newly developed heavy metal models with many details. Locomotive and transport cars constructed mostly of metal.

WOLF ALL-TERRAIN VEHICLE // ART.NO. 18500



Prototype:
German Federal Army “Wolf” type light gl truck. Military version of the civilian Mercedes-Benz G class with a short wheelbase and a tarp.

Model:
The vehicle superstructure is constructed of metal. Additional subassemblies are made of detailed plastic parts. This vehicle has many separately applied details. It has a three-color camouflage paint scheme. The vehicle is lettered with identifying marks. Length approximately 50 mm / 1-15/16”.



New tooling.
Metal superstructure.
Very detailed construction.
Authentic camouflage paint scheme.
Separately applied details and fine lettering.



“Wolf” all-terrain vehicle - model size 1:87

WOLF ALL-TERRAIN VEHICLE



Wolf in Uniform

The German Federal Army uses the Wolf as a lightweight truck. Actually, this all-terrain vehicle is the military version of the civilian Mercedes-Benz G class. This design has been built since 1979 without any fundamental changes. Starting in 1990, the German Federal Army almost completely renewed its motor pool for lightweight all-terrain vehicles with over 12,000 "Wolves". This vehicle is also used for military purposes by other countries, in part under the designation of the identical model from Steyr-Puch or built under license as the Peugeot P 4.

i Height: 1920 mm / 75-9/16” // Width: 1690 mm / 66-9/16” // Length: 4220 mm / 166-1/8” // Power: 92 hp / 68 Kilowatts // Max. speed: 76 mph // GVW: 2700 kg // Weaponry e.g.: 4 x G3 or 2 x G36, anti-tank weapon MILAN, ammunition vehicle PARS TOW // Occupying troops: 4 persons

ART.NO. 18505 // DINGO 1 GENERAL PURPOSE TRANSPORT VEHICLE



“Dingo 1” general purpose transport vehicle - model size 1:87



DINGO 1 GENERAL PURPOSE TRANSPORT VEHICLE

Wild Guard Dog

The Dingo general protection transport vehicle (ATF) has a safety cell built on the modified chassis of the type 2t gl (4 x 4) truck and can travel over all types of terrain. The superstructure is armored all over against bombs and is protected underneath with a mine deflector. The cell offers room for 5 men with equipment; an armored baggage area can take 2 cubic meters / 70.62 cubic feet of material. It has a total weight of almost 9 metric tons and a motor performance of 240 hp; the Dingo reaches a speed of 90 km/h / 55.92 mph on paved roads. The ATF as a patrol and transport vehicle has the right equipment for current international uses by the German Federal Army in crisis areas.



Prototype:
German Federal Army “Dingo” ATF type general-purpose transport vehicle. The vehicle has an armored interior built on a standard chassis for all-terrain use.

Model:
The vehicle superstructure is constructed of metal. Additional subassemblies are made of detailed plastic parts. This vehicle has many separately applied details. It has a three-color camouflage paint scheme. The vehicle is lettered with identifying marks. Length approximately 63 mm / 2-1/2”.

New tooling.
Metal superstructure.
Very detailed construction.
Authentic camouflage paint scheme.
Separately applied details and fine lettering.

i Height: 2950 mm / 116-1/8” // Width: 2340 mm / 92-1/8” // Length: 5550 mm / 218-1/2” // Power: 240 hp / 177 Kilowatts // Max. speed: 56 mph (on street) // GVW: 8900 kg // Pay load: 1400 kg // Chassis clearance: 420 mm / 16-9/16” // Max. water depth: 800 mm / 31-1/2” // Climbing ability: 60% // Weaponry: MG3 5/16” x 2” (NATO standard) or garnet automatic weapon GMW 1-9/16” x 2-1/16” (optional) or cal. 50 MG (optional) // Occupying troops: 5 persons (driver, commander, gunner and two close distance supporter)

FENNEK RECONNAISSANCE VEHICLE // ART.NO. 18510



New tooling. Metal superstructure. Very detailed construction. Authentic camouflage paint scheme. Separately applied details and fine lettering.



“Fennek” reconnaissance vehicle - model size 1:87



“Fennek” reconnaissance vehicle - 60% of the model size 1:87

Prototype:
German Federal Army “Fennek” 4-wheel lightweight reconnaissance vehicle. Simple, armored wheeled vehicle with reconnaissance equipment.

Model:
The vehicle superstructure is constructed of metal. Additional subassemblies are made of detailed plastic parts. This vehicle has many separately applied details, telescopic camera, and antennas. It has a three-color camouflage paint scheme. The vehicle is lettered with identifying marks. Length approximately 64 mm / 2-1/2".

FENNEK RECONNAISSANCE VEHICLE

The Desert Fox

Like its predecessor Luchs, the Fennek is an armored reconnaissance vehicle for concealed reconnaissance and monitoring of relevant terrain. The concept for this vehicle combines modern technology with self-defense for effective observation.

The low-slung construction and the quiet 240 hp motor make this vehicle unnoticeable; in addition, it also has a fog generator.

Extensive, sensitive observation features offer:

The observation and reconnaissance equipment (BAA) with a telescoping periscope and a sensor head with a camera, heat image display, and laser locating.

The ground sensor equipment (BSA) for identification of vehicles and objects.

The aerial, unmanned reconnaissance equipment (LUNA), a remote controlled "drone" the size of a model airplane with a camera.

The interior space is lightly armored against bombs and small mines, offers ABC protection and air conditioning. A three man crew can be self-sufficient for up to five days. The 10.5 metric ton Fennek reaches a speed of 115 km/h / 72 mph on pavement, the all-wheel drive can be turned on for cross country use, and GPS navigation is built in. Since 2003, the German Federal Army has purchased 206 Fenneks, and the Netherlands has purchased 410 modified vehicles.

i Height: 1790 mm / 70-1/2" (top edge of roof), 2180 mm / 85-13/16" (including weaponry) // Width: 2550 mm / 100-3/8" // Length: 5580 mm / 219-11/16" // Power: 240 hp / 177 Kilowatts // Max. speed: 71 mph // GVW: 11000 kg // Pay load: 3000 kg // Max. water depth: 1000 mm / 39-3/8" // Climbing ability: 60% // Max. incline: 32% // Weaponry: GMW 1-9/16" or 5/16" x 2" MG3 or 1/2" x 3-7/8" MG, artificial fogging device // Occupying troops: 3 persons

ART.NO. 18530 // 5T GL MIL TRUCK



5t gl mil truck - model size 1:87

New tooling.
Metal chassis and superstructure.
Very detailed construction.
Removable tarp.
Authentic camouflage paint scheme.
Separately applied details and fine lettering.

Prototype:
German Federal Army type 5t gl mil (4 x 4) truck.
Version with a flatbed, side walls, and a tarp.

5t gl mil truck - 60% of the model size 1:87



5T GL MIL TRUCK

Truck Model Features:

- The truck has a metal 2-axle chassis with a metal cab and flatbed
- Other subassemblies are constructed of detailed plastic parts
- This vehicle has many separately applied details
- It has a three-color camouflage paint scheme
- It is lettered with identifying markst
- Length approximately 92 mm / 3-5/8"

i Height: 2893 mm / 113-7/8" // Width: 2500 mm / 98-7/16" // Length: 8020 mm / 315-3/4" // Power: 256 hp / 188 Kilowatts // Max. speed: 56 mph // Motor: 8 cylinders diesel engine // Drive: 4 x 4 // Consumption: 34 l / 100 km // GVW: 14300 kg // Pay load: 5000 kg // Occupying troops: 3 // Accessory: depending on equipment and troop unit

7T GL MIL TRUCK // ART.NO. 18535



Prototype:
German Federal Army type 7t gl mil
(6 x 6) truck. Version with a flatbed,
side walls, and a tarp.

New tooling.
Metal chassis and superstructure.
Very detailed construction.
Removable tarp.
Authentic camouflage paint scheme.
Separately applied details and fine lettering.



7t gl mil truck - model size 1:87



7t gl mil truck - 60% of the model size 1:87

7T GL MIL TRUCK

Truck Model Features:

- The truck has a metal 3-axle chassis with a metal cab and flatbed
- Other subassemblies are constructed of detailed plastic parts
- This vehicle has many separately applied details
- It has a three-color camouflage paint scheme
- It is lettered with identifying markst
- Length approximately 99 mm / 3-7/8"



i Height: 2894 mm / 113-15/16" // Width: 2500 mm / 98-7/16" // Length: 8620 mm / 339-3/8" // Power: 320 hp / 253 Kilowatts // Max. speed: 56 mph // Motor: 8 cylinders diesel engine // Drive: 6 x 6 // Consumption: 41 l / 100 km // GVW: 18700 kg // Pay load: 7300 kg // Occupying troops: 3 // Accessory: depending on equipment and troop unit

ART.NO. 18540 // 10T GL MIL TRUCK



10t gl mil truck - model size 1:87

10t gl mil truck - 60% of the model size 1:87



Prototype:
German Federal Army type 10t gl mil
(8 x 8) truck.
Version with a flatbed, side walls, tarp,
and a loading crane.

New tooling.
Metal chassis and superstructure.
Very detailed construction.
Removable tarp.
Authentic camouflage paint scheme.
Separately applied details and fine
lettering.

10T GL MIL TRUCK

Truck Model Features:

- The truck has a metal 4-axle chassis with a metal cab and flatbed
- Other subassemblies are constructed of detailed plastic parts
- This vehicle has many separately applied details and a loading crane with a movable arm
- It has a three-color camouflage paint scheme
- It is lettered with identifying markst
- Length approximately 116 mm / 4-9/16"

i Height: 2906 mm / 114-7/16" // Width: 2500 mm / 98-7/16" // Length: 10120 mm / 398-7/16" // Power: 320 hp / 253 Kilowatts // Max. speed: 56 mph // Motor: 8 cylinders diesel engine // Drive: 8 x 8 // Consumption: 41 l / 100 km // GVW: 25400 kg // Pay load: 10000 kg // Occupying troops: 3 // Accessory: depending on equipment und troop unit

FUCHS ARMORED TRANSPORT VEHICLE // ART.NO. 18525



New tooling. Metal superstructure.
Very detailed construction.
Authentic camouflage paint scheme.
Separately applied details and fine lettering.

FUCHS ARMORED TRANSPORT VEHICLE

The Fox's Multifaceted Character

The basis for each of the German Federal Army's "Fuchs" is the type TPz1 as a floatable troop transport. It offers protection against bombs and ABC weapons for 8 soldiers with equipment and a 2 man crew. The 320 hp motor brings its approximately 16.5 metric tons total weight to almost 100 km/h / 63 mph.

Special sets of standard equipment for different uses have been planned for this vehicle, and they give a "Fuchs" the appropriate capabilities for that task:

- Engineer Group vehicle
- Medical vehicle
- "Hummel" type TPz1A1 armored radio vehicle with interception and jamming equipment
- Type TPz1A2 guidance and radio vehicle with a large antenna and power unit
- Type TPz1A2 armored radar vehicle with a RASIT location system (up to 20 km / 13 miles)
- Type TPz1A3 armored detection vehicle for identifying ABC weapons and hazardous materials
- Type TPz1A4 missile carrier with a turret for "Milan" rockets
- Type armored detection vehicle TPz1A6 with enhanced combat characteristics
- Reinforced version of the type TPz1A7 with supplemental armor and a cooling system (420 hp, 19 metric tons, cannot float)

A total of over 1,000 vehicles have been built for the German Federal Army. Around 200 additional units have been built for the US Army as the "Fox", and other units have been built for the British Army with right hand drive and for other countries.

i Height: 2310 mm / 90-15/16” // Width: 2980 mm / 117-5/16” // Length: 6830 mm / 268-7/8” // Power: 320 hp / 235 Kilowatts // Max. speed: 59 mph (on street), 6 mph (on water), ca. 1,5 mph (on water) // GVW: 17000 kg // Chassis clearance: 406 mm / 16” // Max. water depth: swimming // Climbing ability: 60% // Climbing possibility: at least 600 mm / 23-5/8” // Max. incline: 30% // Max. ability to cross ditches: 1080 mm / 42-1/2” // Weaponry: up to three 5/16” MG3 or two 5/16” MG3 and one MILAN resp. TOW rocket launcher, optional machine gun // Occupying troops: 2 persons + max. 8 soldiers (depending on the equipment)



“Fuchs” armored transport vehicle - model size 1:87



“Fuchs” armored transport vehicle - 60% of the model size 1:87

Prototype:
German Federal Army
Transportpanzer “Fuchs” type
1 armored transport vehicle
(TPz 1). Wheeled vehicle with
6 x 6 all-wheel drive, floatable.

Model:
The superstructure is constructed of metal. Other subassemblies
are constructed of detailed plastic parts. This vehicle has many
separately applied details. It has a three-color camouflage paint
scheme. It is lettered with identifying marks. Length approximately
79 mm / 3-1/8”.

ART.NO. 18520 // GEPARD TANK



“Gepard” tank - model size 1:87



“Gepard” tank - 60% of the model size 1:87



New tooling.
Metal superstructure, metal chassis.
Very detailed construction.
Authentic camouflage paint scheme.
Separately applied details and fine lettering.

Prototype:
German Federal Army “Gepard” type FlakPz1
anti-aircraft tank. Tracked vehicle with a radar
system and weaponry.

Model:
The belly and the superstructure are constructed
of metal. The turret and other components are
constructed of detailed plastic. The turret and
the radar screen can be turned and the cannon
can be raised. The tank has a three-color
camouflage paint scheme. It is lettered with
identifying marks. Length approximately
89 mm / 3-1/2”.

GEPARD TANK

Fortified Wild Cat

The "Gepard" anti-aircraft tank is built on the platform from the earlier "Leopard I" combat tank. 420 units of the "Gepard" were delivered starting in 1976, of which 206 were modernized starting in 1988 and another 140 starting in 1997.

The "Gepard" has the task of locating and defending against flying objects up to an elevation of 5,000 meters / 16,400 feet. A three man crew operates the radar system and two side mounted machine cannons with a computer-supported firing guidance system. This tank can also fight against ground targets in a circle of 1,500 meters / 4,920 feet.

This 46 metric ton tank is driven by a 830 hp all-fuel motor; another motor with 90 hp drives a generator. The power supplied is used for the electro-servo drive for the turret and weapons, which enables fast, precise adjustments.

The "Gepard" is also used by the Belgian and Dutch armies, where it is called the "Cheetah".

i Height: 4160 mm / 163-3/4” (opened up search radar) // Width: 3280 mm / 129-1/8” // Length: 7400 mm / 291-5/16” // Power: 830 hp / 610 Kilowatts // Max. speed: 40 mph // Combat Weight: ca. 46,06 t // Weaponry (primarily): 2 x 1-3/8” L/90 machine / Length of weapon: 4740 mm / 186-5/8” / Width of weapon: 356 mm / 14” / Height of weapon: 640 mm / 25-3/16” / Weight of weapon: 670 kg / Length of barrel: 3710 mm / 146-1/16” (with VO-calibration included) // Ammunition: 640 cartridges FAPDS (anti-aircraft ammunition), 40 cardridges HVPDS-T (against armed vehicles) // Weaponry (secondary): artificial fogging device // Occupying troops: 3 persons (driver with a 2 man weapons crew)

LEOPARD 2 A6 TANK // ART.NO. 18515



“Leopard 2 A6” tank - model size 1:87

“Leopard 2 A6” tank - 60% of the model size 1:87



New tooling.
Metal superstructure, metal chassis.
Very detailed construction.
Authentic camouflage paint scheme.
Separately applied details and
fine lettering.

Prototype:
German Federal Army “Leopard 2” battle tank (KPz). Current
version of the type A6 with enhanced combat qualities

Model:
The belly and the superstructure are constructed of metal. The
turret and other components are constructed of detailed plastic.
The turret can be turned and the cannon can be raised. The tank
has a three-color camouflage paint scheme. It is lettered with
identifying marks. Length approximately 100 mm / 3-15/16".

LEOPARD 2 A6 TANK

Genesis of the Leo

The first series A 0 of the "Leopard 2" battle tank was the most up-to-date tank of its kind and its time. 300 of this tank were built in 1979. 750 additional tanks of the improved version A 1 with heat imaging equipment and a new tank followed immediately. The first series was retrofitted with this equipment accordingly and designated as version A 2. Starting in 1984, 300 units were built with new radio equipment and with the NATO spotted camouflage paint scheme as version A 3. The last production version A 4 was built in three groups between 1985 and 1993 with a total of 695 units: it was equipped with a fire suppression system and reinforced tread skirting.

350 version A 4 "Leopards" were retrofitted starting in 1995 with "enhanced combat qualities". These units with reinforced armor, fully electric steering gear, and a navigation system are the version A 5. 225 version A 6 tanks with reinforced weaponry have been derived from these units, and for the time being they were the end of the development of the "Leopard 2" at the turn of the millennium.

i Height: 2790 mm / 109-13/16", 3030 mm / 119-5/16" // Width of tank body: 3750 mm / 147-5/8" // Length: 10970 mm / 431-7/8" // Power: 1496 hp / 1100 Kilowatts // Max. speed: 42 mph // Combat weight: 59900 kg // Chassis clearance: 540 mm / 21-1/4" (falling off to the back to 490 mm / 19-5/16") // Max. water depth: 1200 mm / 47-1/4" // Climbing ability: 60% // Climbing possibility: 1100 mm / 43-5/16" // Max. incline: 32% // Max. ability to cross ditches: 3000 mm / 118-1/8" // Weaponry: gun 4-3/4" L/55 / Length of barrel: 259-13/16" / Weight of barrel: 1347 kg / Weight of barrel attachments: 65 kg / Weight of weapon: 4160 kg / 1 machine gun 5/16", 1 Fla-MG 5/16", multiple projectile weapon // Occupying troops: 4 persons

ART.NO. 46954 // KBS 443 WITH 2 EACH WOLF VEHICLES



Kbs 443 with 2 “Wolf” vehicles each - model size 1:87

Prototype of the Bbs 443:
German Railroad, Inc.
(DB AG) type Kbs 443
stake car. German
Federal Army “Wolf”
all-terrain vehicle.

DC wheel set 2 x 70 05 80. The military vehicles are the same as
model 18500 but with different identifying marks.

Model:
The car has side walls modeled from the pressed metal prototype with 20 stake
receptacles; stakes are included. Length over the buffers 157 mm / 6-3/16".
2 metal models of the military vehicle Wolf (see page 6) . Load restraints included.

ART.NO. 46952 // KBS 443 WITH A DINGO 1 VEHICLE



Kbs 443 with a “Dingo 1” vehicle - model size 1:87

Prototype of the Kbs 443:
German Railroad, Inc.
(DB AG) type Kbs 443
stake car. German
Federal Army “Dingo”
general defense transport
vehicle.

Model:
The car has side walls modeled from the pressed metal
prototype with 20 stake receptacles; stakes are
included. Length over the buffers 157 mm / 6-3/16".
Metal model of the military vehicle “Dingo 1” (see
page 7). Load restraints included.

DC wheel set 2 x 70 05 80. The military vehicle is the same as model 18505 but with different identifying marks.

KBS 443 W. 2 FENNEK RECONNAISSANCE VEHICLE // ART.NO. 46953



Prototype of the Kbs 443: German Railroad, Inc. (DB AG) type Kbs 443 stake car. German Federal Army “Fennek” armored reconnaissance vehicle.



Kbs 443 with a “Fennek” vehicle - model size 1:87

Model:
The car has side walls modeled from the pressed metal prototype with 20 stake receptacles; stakes are included. Length over the buffers 157 mm / 6-3/16".
2 metal models of the military vehicle “Fennek” (see page 8). Load restraints included.

DC wheel set 2 x 70 05 80. The military vehicles are the same as model 18510 but with different identifying marks.

KBS 443 WITH A 5T GL MIL TRUCK // ART.NO. 46955



Prototype of the Kbs 443: German Railroad, Inc. (DB AG) type Kbs 443 stake car. German Federal Army type 5t gl mil truck (4 x 4).



Kbs 443 with a 5t gl mil truck - model size 1:87

Model:
The car has side walls modeled from the pressed metal prototype with 20 stake receptacles; stakes are included. Length over the buffers 157 mm / 6-3/16".
Metal model of the military vehicle 5t gl mil truck (see page 9). Load restraints included.

DC wheel set 2 x 70 05 80. The military vehicle is the same as model 18530 but with different identifying marks.

ART.NO. 46956 // KBS 443 WITH A 7T GL MIL TRUCK



Model:
The car has side walls modeled from the pressed metal prototype with 20 stake receptacles; stakes are included. Length over the buffers 157 mm / 6-3/16".
Metal model of the military vehicle 7t gl mil truck (see page 10). Load restraints included.



Kbs 443 with a 7t gl mil truck - model size 1:87

Prototype of the Kbs 443: German Railroad, Inc. (DB AG) type Kbs 443 stake car. German Federal Army type 7t gl mil truck (6 x 6).

DC wheel set 2 x 70 05 80. The military vehicle is the same as model 18535 but with different identifying marks.

ART.NO. 48713 // FLAT CAR WITH A 10T GL MIL TRUCK



Prototype of the flat car: German Federal Army type Rlmmps 650 heavy duty flat car, used on the German Railroad, Inc. (DB AG).

Model:
The car frame is constructed of metal. Length over the buffers 124 mm / 4-7/8".
Metal model of the military vehicle 10t gl mil truck (see page 11). Load restraints included.



Flat car with a 10t gl mil truck - model size 1:87

Heavy duty flat car as new tooling

DC wheel set 4 x 70 05 80. The military vehicle is the same as model 18540 but with different identifying marks.

FLAT CAR WITH A FUCHS ARMORED VEHICLE // ART.NO. 48710



Flaz car with a “Fuchs” vehicle - model size 1:87

Heavy duty flat car as new tooling.

Prototype of the flat car:
German Railroad, Inc. (DB AG) type
Rlmmps 651 heavy duty flat car, used for
the German Federal Army.

Model:
The car frame is constructed of metal.
Length over the buffers 124 mm / 4-7/8".
Metal model of the military vehicle
“Fuchs” (see page 12). Load restraints

DC wheel set 4 x 70 05 80. The military vehicle is the same as model 18525 but with different identifying marks.

FLAT CAR WITH A GEPARD TANK // ART.NO. 48712



Prototype of the flat car:
German Federal Army type Rlmmps 650
heavy duty flat car, used on the German
Railroad, Inc. (DB AG).

Model:
The car frame is constructed of metal.
Length over the buffers 124 mm / 4-7/8".
Metal model of the military vehicle
“Gepard” (see page 13). Load restraints
included.



Flat car with a “Gepard” tank - model size 1:87

Heavy duty flat car as new tooling.

DC wheel set 4 x 70 05 80. The military vehicle is the same as model 18520 but with different identifying marks.

ART.NO. 48711 // FLAT CAR WITH A LEOPARD 2 A6 TANK



Flat car with a “Leopard 2 A6” tank - model size 1:87

Heavy duty flat car as new tooling.

DC wheel set 4 x 70 05 80. The military
vehicle is the same as model 18515
but with different identifying marks.

Prototype of the flat car:
German Federal Army type Rlmmps
650 heavy duty flat car, used on the
German Railroad, Inc. (DB AG).

Model:
The car frame is constructed of metal.
Length over the buffers 124 mm /
4-7/8".
Metal model of the military vehicle
“Leopard 2 A6” (see page 14). Load
restraints included.

HEAVY DUTY FLAT CAR

Cars for Tanks Totally Overhauled

The type Rlmmps 651 cars were derived at the end of the Eighties from the type Rlmp 700, the former SSy 45, which was over 40 years old at that time. The load capacity of up to 60 metric tons (depending on the rail line) was already sufficient for the Germany Federal Army's tracked vehicles. New trucks made it possible to have faster transport. These cars are used regularly for maneuver transport tasks and are otherwise still currently part of Stinnes DB Logistics' normal transportation offerings.

FLAT CAR WITH A LEOPARD 2 A6 TANK

Second-Hand Cars for Tanks

The present type Rlmmps 650 car was initially built starting in 1955 for the American armed forces in Germany (USTC). The design was borrowed from the DR and DB type SSy 45 cars and was improved for military transport purposes. Drive-over plates facilitated moving vehicles over the cars, above all for armored, wheeled vehicles. This made quick loading possible with a simple ramp at the end of the track. The transportation process can run relatively fast at 100 km/h / 63 mph.

This pool of cars was taken over in 1977 by the German Federal Republic. Two hundred cars went to the German Federal Army, and 155 went to the German Federal Railroad. The DB cars were also available during peak need for military transport and were otherwise used in commercial freight service.

At present, all of the cars are on the DB AG's roster and they are leased on demand.

“SILVER COINS” HOSPITAL CAR SET // ART.NO. 42563



Prototype:
Military hospital train consisting of 3 type Bn 724 slumber coaches and 1 type Dmz 903 medical treatment car, used on the German Federal Railroad (DB). The cars have special German Federal Army equipment. Built in 1965 / 1967, the cars look as they did around 1980.



DC wheel set per car 4 x 70 05 80.
The 42563 set goes well with the theme and the period of the model of the 26290 German Federal Army train.

Model:
The scale of the cars' length is approximately 1:100; the minimum radius for operation is 360 mm / 14-3/16". The slumber coaches have interior details and are ready for installation of the current-conducting 7319 couplings or 72020 current-conducting couplers, the 73404 pickup shoe / ground spring set, and the 73400 lighting kit (2 per car). The cars have adjustable buffers. Total length over the buffers 1065 mm / 41-15/16".

“SILVER COINS” HOSPITAL CAR SET IN 1:100

The Railroad Hospital...

Between 1965 and 1967, a complete hospital train was built for the German Federal Army. It was designed for the care and return transport of wounded personnel in emergency cases, but it only had to prove itself in maneuvers during its service life. The train consists of a medical treatment car, a car for catering meals, and three slumber coaches with special equipment. All of the cars are based on the UIC-x platform, the standard at that time for new cars on the DB.

The type Dmz 903 medical treatment car has a closed, airtight car body with portholes instead of windows and with air conditioning. Two treatment areas have full operating room equipment. The pharmacy is built into the conference room, and next to it is the laboratory and rooms for doctors and nurses.

The type Dmz 904 catering car ñ also airtight with portholes ñ is laid out as a dining car with a galley and supplies for catering up to 400 personnel.

Two purely type Bn 724 slumber coaches based on the 2nd class "Silberlinge / Silver Coins" cars are each equipped with 32 normal German Federal Army beds and externally have the regular production stainless steel peacock's eye pattern. Another type Bn 724.1 slumber coach is painted olive green and only has 16 beds as well as a treatment room in the center open area.

Instead of a new series of expensive cars and the costly upkeep of such

special cars, the German Federal Army and the German Federal Railroad reached agreement on a procedure that made emergency aid trains available in crisis situations so that such trains did not have to be kept in reserve. 192 cars from the DB's roster of "Silberlinge / Silver Coins" cars were set up as the regular production type Bnb 724 with interiors that could be changed. The medical equipment for the interior space was stored at particular locations and could be installed in the cars as part of the changing out of the interiors without the need to go into a maintenance facility. The medical components for the medical treatment car are supposed to be used in conventional entertainment cars and standard dining cars with appropriate supplies are used for catering purposes.

The red cross does not belong just to the German Red Cross organization. Medical vehicles for the German Federal Army and the police may also use this emblem, to be sure as a protective emblem (red cross on a white field). The use of the red cross emblem by the German Federal Army and the police differs from the German Red Cross' use of lettering that is used on rescue vehicles, in service areas, and in the communications of the German Red Cross.



Hospital car 1 “Silver Coin” - ill. 50% of the model size



Hospital car 2 with an oliv-green coat of paint - ill. 50% of the model size



Hospital car 3 with an oliv-green coat of paint - ill. 50% of the model size



Hospital car 4 “Silver Coin” - ill. 50% of the model size

Cars in the classic model length of 26.4 cm / 10-3/8" and 27.0 cm / 10-5/8" length over the buffers. 2 cars with a representation of the peacock's eye pattern ("Silberlinge / Silver Coins"). 2 cars in an olive green camouflage paint scheme.

1 GAUGE FLAT CAR WITH A 7T GL MIL TRUCK // ART.NO. 58658



Flat car with a 7t gl mil truck - ill. 50% of the model size

The model truck has a metal frame and cab. The cab and the load dumper can be tipped. The truck has authentic camouflage with the current pattern of spotted paint. Prototype: German Federal Railroad (DB) type Rlmmfs 650 flat car. Former type SSys 55. Used to transport heavy military vehicles: type 7-t gl mil truck.

1 GAUGE FLAT CAR WITH A 7T GL MIL TRUCK

Model features of the heavy duty flat car:

- The car has a sturdy floor with heavy duty trucks
- The car has vehicle restraints and a suitable holder on the car floor
- Minimum radius for operation 1,020 mm / 40-3/16"
- Length over the buffers 335 mm / 13-3/16"

ART.NO. 18102 // 1 GAUGE 7T GL MIL TRUCK



7t gl mil truck with a tarp - ill. 50% of the model size



7t gl mil truck with a tarp - ill. 25% of the model size



Prototype:
German Federal Army type
7t gl mil truck (6 x 6).
Version with a flatbed, side
walls, and a tarp.

1 GAUGE 7T GL MIL TRUCK / KAT I AND KAT I A1 (6 X 6)

Truck Model Features:

- The truck has a 3-axle chassis
- The rear axles have dual tires
- The chassis, load walls, and cab are made of metal
- The cab can be tipped
- The truck has a multi-color camouflage paint scheme.
- Removable tarp cover
- Length 295 mm / 11-5/8"

i Height: 3510 mm / 138-3/16" // Width: 2500 mm / 98-7/16" // Length: 8620 mm / 339-3/18" // Power: 320 hp // Max. speed: 56 mph // GVW: 1870 kg // Pay load: 7300 kg // Drive: 6 x 6

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We reserve the right to make changes and delivery is not guaranteed. Electrical and mechanical data and dimensions may vary in accuracy.
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