

## Three Strong Guys – Proven Conception

Three strong guys in different operational fields, but with an identical base: The legendary Leopard I served as a platform for designing the Armoured Recovery Vehicle WISENT, the Armoured Engineering Vehicle WISENT EXCAVATOR and the Armoured Bridge Layer BEAVER 70. In operation all over the world and one of the most successful tracked vehicles ever, the Leopard I has lent its chassis frame to the WISENT, the WISENT EXCAVATOR and the BEAVER 70. These vehicles benefit from a fully developed design which has been in operation for a long period of time and has proved itself to be completely safe and reliable.

In all three vehicles, modern, standard, commercially off-the-shelf available hydraulic components come into play, and the vehicles are further equipped with fire-suppression, air-conditioning and camera systems. Utilising add-on armour modules and spall liner, the basic models have ballistic protection against NATO STANAG 4569, threat level 5. Integrated mine protection goes up to threat level 3. And as nothing is so perfect that there is no room for improvement, FFG engineers have also optimised the chassis on all three vehicle models: Hydrogas suspension, a dual-circuit braking system and a 1000 hp power pack.



### Armoured Recovery Vehicle WISENT

The Armoured Recovery Vehicle WISENT is designed to recover and evacuate damaged equipment. It lifts loads such as power packs and turrets, offers support on the field and carries out groundwork. The equipment of this recovery vehicle is based on the Standard Armoured Recovery Vehicle (Leopard) in operation in many countries. The WISENT stands out more than anything due to its remarkable innovations. This recovery vehicle is equipped with a powerful crane system designed for loads of over 30 tonnes. The lifting capacity for the main winch is 35 tonnes, regardless of the required cable length.

The WISENT offers a total of five highly specialised recovery devices - the centrally installed main winch, the front mounted auxiliary winch, a hoisting winch, a slewing crane and a dozer blade. Equally important for emergencies is its capacity to recover and evacuate equipment under armour; the power pack can be replaced using the emergency hydraulic system. Equipment is variable and can be customised as required. Its range of uses can be extended according to individual specifications.



### Armoured Bridgelayer BEAVER 70

This Armoured Bridgelayer with its armoured vehicle launched bridge is used to cross obstacles in the terrain such as waterways and ravines up to 20 metres wide during combat. The armoured bridge is 22 metres long and four metres wide. As every second counts in emergen-

cies, it can be laid within two minutes under armoured. The Armoured Bridgelayer BEAVER 70 is a further development of the armoured bridge layer BEAVER. The bridge has been strengthened to support MLC 70. The bridge can be laid both manually and automatically.



**Versatile:** The WISENT EXCAVATOR removes everything.

### Armoured Engineering Vehicle WISENT EXCAVATOR

The Armoured Engineering Vehicle WISENT EXCAVATOR is an innovative piece of armoured engineering equipment based on the Armoured Recovery Vehicle WISENT. These two vehicles complement each other superbly on the battlefield and during day-to-day use. The WISENT EXCAVATOR helps to construct access and exit roads to water crossing sites. It is used to prepare the bed of waterways in such a way, that other vehicles can drive across and also to remove and install obstacles and barriers on the battlefield. It stands out first and foremost due to its modern articulated excavator. The excavator bucket holds

1.7 cubic metres. It has an excavating capacity of 200 cubic metres per hour over an operational range of up to 5.3 metres deep and 10.2 metres long.



## Technical data



### Armoured Recovery Vehicle WISENT

<b>Dimensions</b>	
Length	ca. 8210 mm
Width	ca. 3250 mm
Height	ca. 2400 mm
<b>Weights</b>	
Weight empty	ca. 47000 kg
Combat Weight	ca. 54000 kg
Permissible gross weight	ca. 56000 kg
<b>Driving Characteristics</b>	
Max. speed forward	65 km/h
Max. speed backwards	24 km/h
<b>Suspension</b>	
Hydrogas suspension with torsion bars	
<b>Crane Plant</b>	
Crane capacity	300 kN (30 t)
<b>Dozer Blade</b>	
Height	1000 mm
Width	3250 mm
Width with extension	3750 mm
<b>Main Winch</b>	
Max. traction power	0 - 350 kN (35 t)
Cable length	90 m
<b>Auxiliary Winch</b>	
Max. traction power	0 - 15 kN (1,5 t)
Cable length	180 m
<b>Power Pack Engine</b>	
• Type	MTU, MB 838 CaM 500
• Cubic cap.	37400 cm <sup>3</sup>
• Output	736 kW
• Torque at 1600 rpm	3300 Nm
<b>Gear box</b>	
• Type	ZF 4 HP 250
<b>Protection</b>	
<b>Mine protection</b>	
Composite modules inside vehicle hull	
Protection level as per NATO STANAG 4569, level 3	
<b>Ballistic protection</b>	
Add-on modules and spall liner	
Protection of the crew compartment up to level 5 as per NATO STANAG 4569	
<b>Crew protection</b>	
• Camera/splitscreen system	
• Air conditioning	
• Combat Recovery System (CRS)	
• Fire extinguishing system	
<b>Options</b>	
• Fork lift device	
• Top case	
• Hybrid gear selector	
• Fire suppression system	

### Armoured Engineering Vehicle WISENT EXCAVATOR

<b>Dimensions</b>	
Length	ca. 9120 mm
Width	ca. 3250 mm
Height	ca. 2570 mm
<b>Weights</b>	
Weight empty	ca. 45400 kg
Combat Weight	ca. 46500 kg
Permissible gross weight	ca. 49000 kg
<b>Driving Characteristics</b>	
Max. speed forward	62 km/h
Max. speed backwards	24 km/h
<b>Suspension</b>	
Hydrogas suspension with torsion bars	
<b>Excavator Plant</b>	
Digging depth	5300 mm
Horizontal outreach	10200 mm
Capacity excavator bucket	1.7 m <sup>3</sup>
Excavating capacity	200 m <sup>3</sup> /h
<b>Dozer Blade</b>	
Height	1000 mm
Width	3250 mm
Width with extension	3750 mm
<b>Main Winch</b>	
Max. traction power	0 - 350 kN (35 t)
Cable length	90 m
<b>Auxiliary Winch</b>	
Max. traction power	0 - 15 kN (1,5 t)
Cable length	180 m
<b>Power Pack Engine</b>	
• Type	MTU, MB 838 CaM 500
• Cubic cap.	37400 cm <sup>3</sup>
• Output	736 kW
• Torque at 1600 rpm	3300 Nm
<b>Gear box</b>	
• Type	ZF 4 HP 250
<b>Protection</b>	
<b>Mine protection</b>	
Composite modules inside vehicle hull	
Protection level as per NATO STANAG 4569, level 3	
<b>Ballistic protection</b>	
Add-on modules and spall liner	
Protection of the crew compartment up to level 5 as per NATO STANAG 4569	
<b>Crew protection</b>	
• Camera/splitscreen system	
• Air conditioning	
• Combat Recovery System (CRS)	
• Fire extinguishing system	
<b>Options</b>	
• Fork lift device	
• Top case	
• Hybrid gear selector	
• Fire suppression system	

### Armoured Bridgelayer BEAVER 70

<b>Dimensions</b>	
Length	ca. 10059 mm
Width	ca. 3250 mm
Height	ca. 2670 mm
<b>Weights</b>	
Weight empty	ca. 38000 kg
Combat Weight	ca. 47000 kg
Permissible gross weight	ca. 52000 kg
<b>Driving Characteristics</b>	
Max. speed forward	62 km/h
Max. speed backwards	24 km/h
<b>Suspension</b>	
Hydrogas suspension with torsion bars	
<b>Blade</b>	
Height	1000 mm
Width	3250 mm
Width with extension	3750 mm
<b>Bridge</b>	
Weight	ca. 11000 kg
Length	22 m
Width	4 m
Height	0.98 m
MLC	70
<b>Power Pack Engine</b>	
• Type	MTU, MB 838 CaM 500
• Cubic cap.	37400 cm <sup>3</sup>
• Output	736 kW
• Torque at 1600 rpm	3300 Nm
<b>Gear box</b>	
• Type	ZF 4 HP 250
<b>Protection</b>	
<b>Mine protection</b>	
Composite modules inside vehicle hull	
Protection level as per NATO STANAG 4569, level 3	
<b>Ballistic protection</b>	
Add-on modules and spall liner	
Protection of the crew compartment up to level 5 as per NATO STANAG 4569	
<b>Crew protection</b>	
• Camera/splitscreen system	
• Air conditioning	
• Combat Recovery System (CRS)	
• Fire extinguishing system	
<b>Options</b>	
• Hybrid gear selector	
• Fire suppression system	

## Leopard 2 Support Vehicles



**FFG**

LEO 2 SUPPORT VEHICLES

**FFG**

LEO 2 SUPPORT VEHICLES