



A perfect combination of deployability, mobility and autonomous protected fire power



# DONAR

## A Revolution in Artillery

**KMW**  
KRAUSS-MAFFEI WEGMANN

**GENERAL DYNAMICS**  
European Land Systems



## System Concept

KMW and GD ELS through SBS have decided to jointly develop and market a new generation, air deployable (<32 tons), autonomous and remotely operated 155 mm artillery system.

DONAR changes conventional artillery doctrine through a reduced crew and logistics footprint as well as autonomous operations it is targeted to replace legacy systems (e.g. M109, AS90, K9, etc) in service with modern armies.

The mission spectrum of the DONAR ranges from classic artillery fire support missions to active field protection. The autonomous character of the DONAR system allows a consistent step towards networked, centralised command and control.



## Key Features

- KMW & GDELS Artillery and Vehicles Experience.
- Highly Armoured Protection Cabin for intense conflicts.
- Worldwide transportability within hours.
- Interoperability with International Forces.
- All terrain mobility.
- Reliability due to use of modified proven systems.
- Fully automated operability.
- Economies of scale due to COTS systems.
- Range & Precise firing capability.
- Remote operation option.
- Worldwide Integrated Logistic Support.
- Reduced logistic footprint.



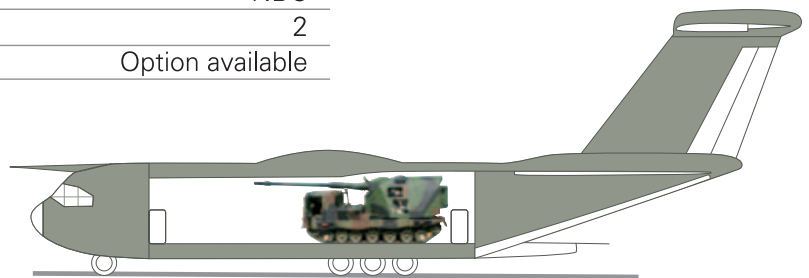
## Technical & Functional Target Data

Caliber	155/52
Rate of fire	≥ 6 rdm
Fire range	> 40 Km
Magazine	up to 30 proj & 145 charges
Fire angles	0°/70°
Firing	360°
Transmission	Automatic transmission with superimposed steering
Power	720 Hp (530 kW)
Speed (Km/h)	>60
Range (Km)	500
Slope	60%
Side slope	30%
Weight (Tn)	31.5
Combat weight (Tn)	35
Length (m)	10.3
Width (m)	2.8
Height (m)	3.0
Trench Crossing (m)	2
Transportability	A400M
Cabin Protection	Basic protection against Light and heavy machine gun FIRE and artillery splinters
Mine Protection Kit	Option available
Crew Protection	NBC
Crew	2
Add-on armour kit	Option available

This 155 mm / 52 cal. artillery system combines a full automatic and independent firing module, integrated on a tracked and proven platform that provides mobility, stability and protection.

With the usage of proven and reliable components from two mature systems, PzH 2000 and ASCOD, risks are reduced.

Moreover, this leads into a cost effective medium weight indirect fire platform.





### High mobility

- All terrain positioning.
- Tactical transportability (A-400M).
- Excellent cross country mobility.
- Short barrel overhang.
- Tracked vehicle.
- Outstanding horsepower/weight ratio.
- Operating range.



### Fully automated & Autonomous

- Hybrid inertial navigation unit & GPS.
- Auto-tracking/Correction.
- Automatic projectile and charge loader.
- Fire Control System (FCS) with automatic calculation of gun laying data.
- Remote operation from cabin.



### Reduced Optional logistics

- Crew of 2.
- 30 shell magazine.
- Use of modular charges.
- Fully automated loading and laying system.
- Reduced re-supply needs.



# NAR

view



## Excellent fire capability

- Long firing range.
- Autonomous 155/L52 firing.
- High Combat load & NATO Ammo interoperability.
- 360° firing area coverage.
- Multiple fire missions.
- MRSI capability + Target tracking.
- Stable weapon platform.
- High operational availability.
- Quick platform recuperation.
- No trails requirement.



## Necessary protection

- High Ballistic protection Cab.
- Mine protection system.
- No external manual operations.
- NBC protected cabin.
- Fire suppression system.
- Add-on protection.



## Interoperability & Vetrionics

- Available with new fire control system.
- Map and Situation awareness.
- Possibility for remote control.
- NABK and MV – management.
- Net-centric: Easily connectable to central command and control system.



## International Logistics

- Worldwide customer support.
- Integrated training (operator & maintainer).
- Common spare part availability.
- Train the maintainers.
- Spare parts/Special tooling.
- Repairs/Maintenance.
- Technical Manuals...
- Simulation.
- Built in Test Equipment (BITE).



## Two companies, one system

KMW and GDELS have decided to strengthen their relations and jointly develop a new world class self-propelled, tracked, fully automated 155/L52 artillery weapon system derived from successful existing systems - the PzH2000 turret and the ASCOD IFV.

Both companies extend its relation on a worldwide basis to serve the artillery needs of quick deployable peace keeping forces by guaranteeing logistic support on an international basis.

The relation continues deepening KMW and GDELS long tradition of collaboration - in the last decade both have successfully customized the Leopard A6 to Spanish standards. As a result of this, the Spanish Leopardo 2E Program will conclude with the delivery of 219 MBTs of latest generation.

Krauss-Maffei Wegmann GmbH & Co. KG Europe's market leader for armoured wheeled and tracked vehicles. Its product portfolio ranges from air transportable and highly protected wheeled vehicles (MUNGO, DINGO, FENNEK und BOXER), to reconnaissance, air defense and artillery systems (FENNEK, GEPARD, PzH2000 and AGM) all the way to main battle tanks (LEOPARD 1 and 2), infantry fighting vehicles (PUMA) and bridge layers (LEGUAN und PSB2). Furthermore KMW possesses a broad system competence in the field of civil and military simulation, command and control applications and fully automatic remote controlled gun mounts. The armed forces of more than 30 nations worldwide rely on operational systems supplied by KMW.

GDELS is the combination of four entities - Santa Bárbara Sistemas, GDELS-Germany, GD European Land Systems-Steyr GmbH and General Dynamics European Land Systems-Mowag GmbH. As one of the European leaders in the land combat systems sector, GDELS has focused itself on four specific divisions with the aim of producing greater synergies and coordination between its 13 plants. The four divisions are Tracked Vehicles, Wheeled Vehicles, Bridges and Artillery & Ammunition, plus a network of R&D centers, and logistic and customer relations activities.



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