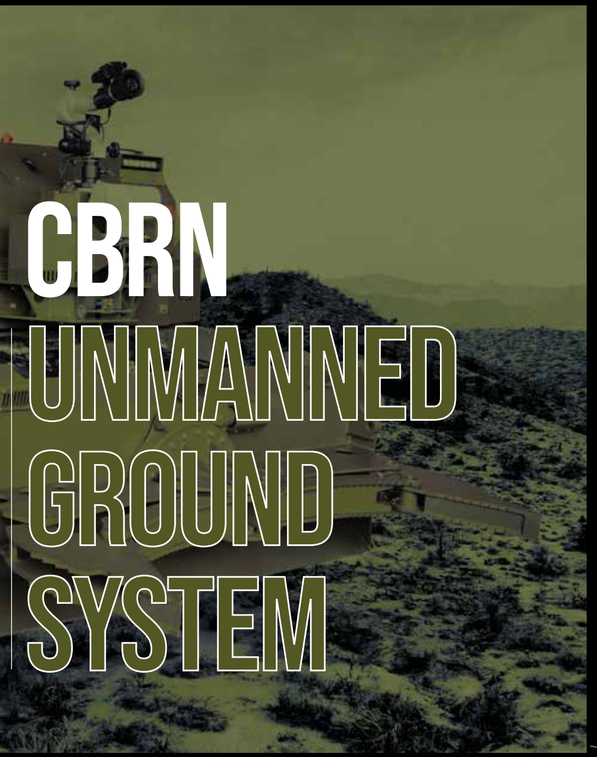

CBRN UNMANNED GROUND SYSTEM

DON'T SEND A MAN
TO DO A MACHINE'S JOB

TECHNICAL SPECIFICATIONS

Technical Specifications - Base vehicle + CBRN Mission Module +Gripper + Manipulator Arm		
Gross Vehicle Weight	17.000	kg
Maximum speed	Limited to 30	km/h
Length	7,2	m
Width	2,3	m
Height	2,9	m
Ground clearance	0,34	m
Technical Specifications – Front exchangeable tool Blade/Gripper		
Width	2,3	m
Height	0,94	m
Length	1,35-1,9	m
Weight	1200	kg
Claws opening	1,8	m
Rotation	360	°
Blade pushing capacity	10	t
Max. Lift Capacity	2.000	kg
Technical Specifications - Rear exchangeable tool Manipulator Arm		
Max. Lifting Capacity	990	kg
Max. outreach	4	m

CBRN Mission Module

1. Decontamination	Decontamination of objects (by the robotic arm) Decontamination of personnel (decontamination shower) Decontamination of surfaces (front tool attachment) Partial self-decontamination (nozzles distributed on the robotic system)
2. Sensor bundle	CRN detection modules, Temperature, oxygen and explosive gasses sensors, lidar, MET station
3. Sample collection	Automated sample collection of solid state, gas and liquid samples

Remote Control System

Data Link	
Operating distance LOS	Up to 1500m

R&TTE Directive 1999/5/EC, EMC Directive 2004/108/EC, Low Voltage Directive 2006/95/EC, Machinery Directive 2006/427EC
Other references: IMAS 09.50, CWA 15044:2009, CWA 15832:2008

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NEXT GEN CBRN UNMANNED GROUND SYSTEM

KOMODO

www.dok-ing.com

DON'T SEND A MAN
TO DO A MACHINE'S JOB

DOK-ING's new innovative robotic system Komodo

presents a unique unmanned ground system that can operate in extreme chemical, biological, radiological and nuclear (CBRN) conditions. Co-financed by ESIF (European Structural and Investment Fund), as a dual-use asset, the UGS is designed to operate in extreme conditions hazardous to intervention teams with the following key capabilities:

- Hybrid propulsion system able to operate in extreme conditions such as low oxygen and high temperature
- Reconnaissance and situational awareness mission profile with a wide variety of sensors and detectors and advanced video system
- Chemical, Biological and Radiological (CBR) decontamination of vertical and horizontal objects, combat and non-combat equipment, as well as partial self-decontamination
- Sample collection of vapor, liquid and solid-state samples
- Product control and mitigation with different types of front and rear exchangeable tools.

The robotic system will have following key capabilities:

Decontamination of objects, surfaces and personnel

Partial self-decontamination of Komodo platform

Mitigation and product control

- Front and rear exchangeable tools
- Modular mission module

Automated sample collection

Vapor, liquid, gas and solid state sampling

Full situational awareness

Advanced video and detection system

The Komodo UGS itself is an innovation in this field, as it addresses a wide variety of mission profiles in the civil and military domains. With this project, DOK-ING aims to change the paradigm of defense against CBRN (Chemical, Biological, Radiological and Nuclear) and TIM (Toxic Industrial Materials) threats and thus influence the consideration of Unmanned Ground Systems for CBRN in planning and implementation of CBRN defense, defined by the Allied Joint Doctrine for Chemical, Biological, Radiological and Nuclear Defense.

DOK-ING with this product has been selected as a partner in EDA initiative (European Defense Agency) called PESCO (Permanent Structure Cooperation). The project has been recognized by EDA's project "CBRN SaaS "which entered its operational phase on January 21st 2021. In cooperation with 11 industry members from the EU, DOK-ING is developing a technical demonstrator of an operational plugin module built on an unmanned ground system equipped with a variety of sensors to deliver real-time CBRN surveillance, detection and incident data in order to create a recognized CBRN picture.