

# MULTI MISSION

ROBUST  
AND COMBAT  
PROVEN

# EOD ROBOTIC SYSTEM

## MV-4



**SCORPION**

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

# MV-4 at glance

## ROBUST AND COMBAT PROVEN

The MV-4 is one of the world's best renowned light category mine clearance and EOD robotic systems. Its low profile and robust structure makes it resistant to all AP mines detonations and UXOs of similar intensity. It can also sustain AT mine explosions. MV-4 is the only mine clearance and EOD robotic system in its category that has proved its efficiency in real combat environment.



DOK-ING MV-4 / 03



### DAY/NIGHT OPERATION

- Lights
- Low light cameras
- IR light

### REMOTE CONTROL CAPABILITY

- Operational range up to 1500m

### MULTI-MISSION CAPABILITY

- Rear exchangeable tools

### AIR AND ROAD TRANSPORTABLE

- Sling load capable
- Tie down points

### FULL BODY PROTECTION

- Hardox 450

### SITUATIONAL AWARENESS

- Advanced video system

### OFF/ON ROAD MOBILITY

- Deep profile tracks
- Rubber pads

### SELF-RECOVERY CAPABILITY

- Extension arms
- Winch

### EXTENDED EOD CAPABILITIES

- Manipulation
- Interrogation
- Cutting
- Device Defeat

### FAST TOOL EXCHANGE

- Optional Quick coupler

### MULTI-MISSION CAPABILITY

- Front exchangeable tools

## VERIFIED IN ALL CONDITIONS

The MV-4 Multi Mission EOD Robotic System has been designed and modified to operate in different terrains and harsh environment conditions, satisfying the highest requirements of safety, efficiency and cost-effectiveness.

# Multifunctionality

## APPLICATIONS

Mechanical Ground Preparation & Demining

Mechanical Tehnical Survey & Clearance

Deep Interrogation Tasks

Mobility / Counter Mobility

Reconnaissance & Surveillance Tasks

Digging Tasks

Route Clearance

Breaching Tasks

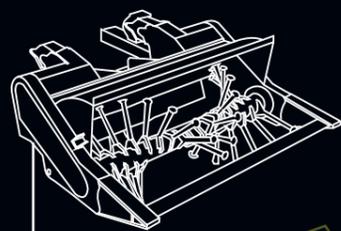
EOD Tasks in C-IED

General C-IED Tasks



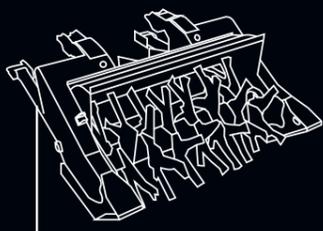
### Mission-oriented engineering platform

Prime mover and various exchangeable tools



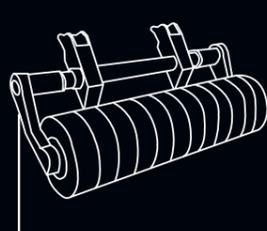
#### Flail

Purpose: Area/mine clearance, neutralization of AP landmines and UXOs  
Clearance width: Up to 1800 mm  
Clearance depth: Up to 300 mm



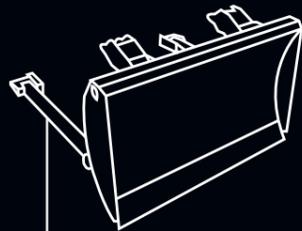
#### Tiller

Purpose: Area/mine clearance, neutralization of AP landmines and UXOs  
Clearance width: Up to 1800 mm  
Clearance depth: Up to 300 mm



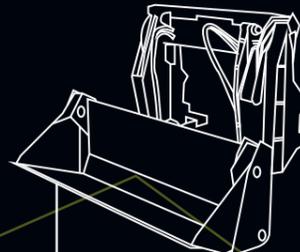
#### Segmented Roller

Purpose: Path/area verification  
Numbers of rollers: 12  
Clearing width: 2070 mm



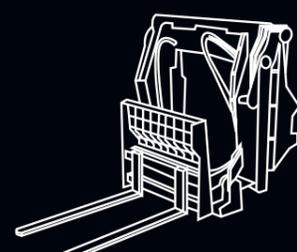
#### Dozer Blade

Purpose: Earth moving, breaching, mobile cover  
Pushing capacity: 4 t



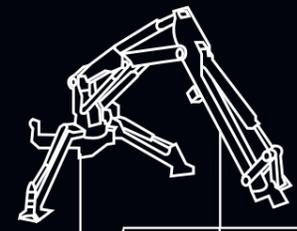
#### Rear Shovel

Purpose: Earth moving  
Lifting height: 2390 mm  
Loading capacity: Up to 0,34 m<sup>3</sup>



#### Rear Forklift

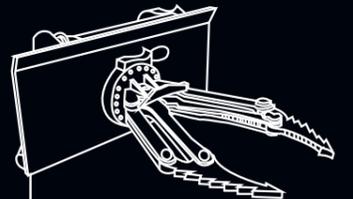
Purpose: Logistics, manipulation  
Lifting height: 2390 mm



CLAW BUCKET HYDRAULIC CUTTER

#### EOD Arm

Purpose: Handling dangerous objects, deep interrogation, digging, cutting  
Lifting capacity: 400 kg  
Length: Up to 5,4 m



#### Rotational Gripper

Purpose: Breaching, removal of obstacles, earth moving, pushing  
Lifting capacity: 1500 kg

# After sales

## LOGISTICS, MAINTENANCE AND SUPPORT

The MV-4 can be easily moved by different means of transportation in a simple and inexpensive way and without need for special permits or escort.

**Air** Delivery by airplane inside cargo compartment or with rotary wing by use of lifting points

**Water** A standard 20' GP container is ideal for delivery by sea

**Land** Delivery by an ordinary truck, car hauler trailer or tractor-trailer



To facilitate end users effective and uninterrupted use of MV-4, DOK-ING provides the following services.

**Training** Specialized comprehensive training course for operators, mechanics and electricians delivered by highly experienced trainers in several languages and according to training plan and program

**Mentoring / Supervision** Ability to provide service/personnel to facilitate day-to-day operation of the MV-4

**Maintenance** Supply of spare parts adequate stock and availability of rapidly responsive technical team worldwide



# DOK-ING Ltd. general info

DOK-ING is an international market leader with its headquarter in Croatia, EU. We design, produce and deliver high quality and combat proven robotic systems for special purposes around the world. Experience gathered through more than 30 years of operational feedback is constantly being built into our products. We are not only the producer, but also the user of our own systems.

DOK-ING also provides training by highly skilled

professionals who are transferring their field knowledge through systematic and well planned training sessions.

Great knowledge, experience, innovative and purpose-made systems and technologies enable us to be customer-oriented company with flexible approach to end user requirements in order to help solving real environmental problems.

## DOK-ING BUSINESS

### PRODUCTS

- MILITARY ENGINEERING
- EMERGENCY RESPONSE
- UNDERGROUND MINING
- COUNTER TERRORISM

### SERVICES

#### DEVELOPMENT

- NEW PRODUCTS
- EXISTING PRODUCTS UPGRADE AND OPTIMISATION

#### MINE ACTION SERVICES

- MECHANICAL DEMINING AND GROUND PREPARATION
- BAC
- EOD
- MECHANICAL TECHNICAL SURVEY AND CLEARANCE

#### AFTER SALES SUPPORT

- SPARE PARTS DISTRIBUTION
- MAINTENANCE
- SUPERVISION
- TRAINING
- LIFE CYCLE EXTENSION

### LOCAL START – GLOBAL REACH NO. OF DELIVERED SYSTEMS

- NORTH AMERICA – 145
- SOUTH AMERICA – 10
- EUROPE – 65
- ASIA – 72
- AFRICA – 59
- AUSTRALIA – 9

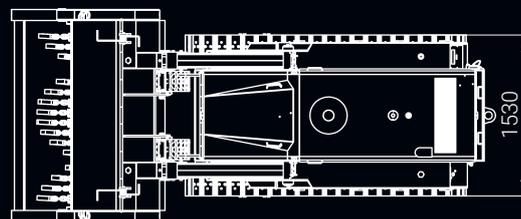
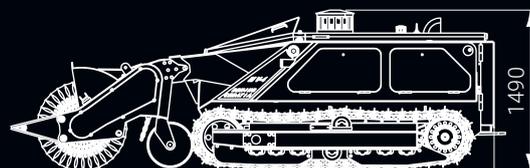
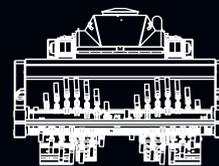
DOK-ING MANUFACTURES, DEVELOPS AND PROVIDES ROBOTIC SOLUTIONS FOR SPECIAL PURPOSES IN THE GLOBAL MARKET.

PRESENT IN MORE THAN **40** COUNTRIES WORLDWIDE



**Dimensional data**

Length (excl. attachment)	3100 mm
Width (excl. attachment)	1530 mm
Height	1490 mm
Weight (excl. attachment)	5025 kg
Engine type	Perkins
Engine power	186 kW / 250 HP
Engine torque	1050 Nm @ 1400 rpm
Fuel consumption	15 - 20 l/h
Operating temperature	-19°C to +54°C
Demining capacity	2184 m <sup>2</sup> /h
Transport speed	5 km/h
Operational speed	0,5 - 1,26 km/h
Longitudinal gradeability	35°
Transversal gradeability	30°
Fording depth	450 mm
Clearance depth	300 mm
Clearance width	1800 mm
Remote control distance	1500 m
TNT resistance	6,5 kg
Vegetation removal	100 mm



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R&TTE Directive 1999/5/EC, EMC Directive 2004/108/EC,  
 Low Voltage Directive 2006/95/EC, Machinery Directive 2006/42/EC  
 Other references: IMAS 09.50, CWA 15044:2009, CWA 15832:2008