

MULTI MISSION EOD ROBOTIC SYSTEM

ROBUST
AND COMBAT
PROVEN

MV-4



SCORPION

www.dok-ing.com

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

INNOVATION IN
ROBOTICS

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.



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.



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Multifunctionality

APPLICATIONS

**Mechanical Ground
Preparation & Demining**

Tehnical Survey

Deep Interrogation Tasks

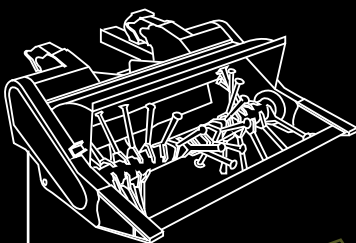
Mobility / Counter Mobility

**Reconnaissance &
Surveillance Tasks**



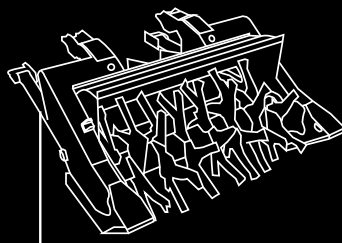
Mission-oriented engineering platform

Prime mover and various exchangeable tools



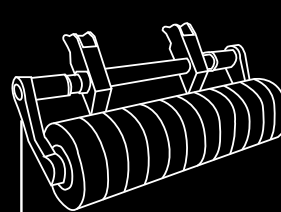
Flail

Purpose: Area/mine clearance,
neutralization of AP landmines
and UXOs
Clearance depth: Over 250 mm



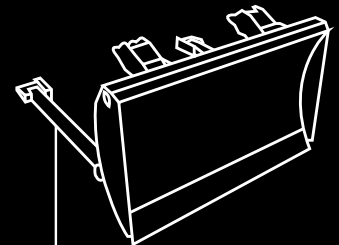
Tiller

Purpose: Area/mine clear-
ance, neutralization of AP
landmines and UXOs
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



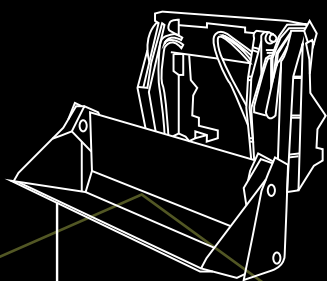
Digging Tasks

Route Clearance

Breaching Tasks

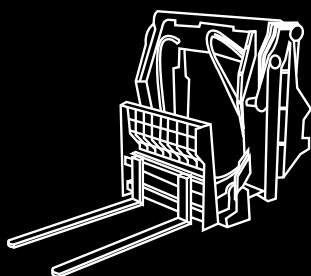
EOD Tasks in C-IED

General C-IED Tasks



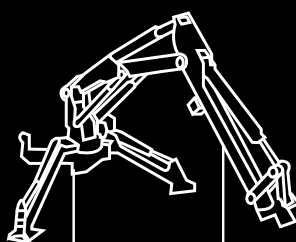
Rear Shovel

Purpose: Earth moving
Lifting height: 2390 mm
Loading capacity: Up to 0,34 m³



Rear Forklift

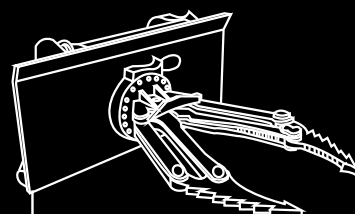
Purpose: Logistics, manipulation
Lifting height: 2390 mm
Tool dimensions: 1400 x 1290 x 950 mm



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
Pushing capacity: 4 t

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 engineering powerhouse of heavy-duty robotics & autonomous systems. The company is an international market leader. The headquarter is in the Croatian capital Zagreb, and, besides the European office, DOK-ING is incorporated on the following continents: North America, Africa & Asia. In more than 30 years of being in the business, the company has been recognized for changing the industrial landscape with its innovative approach and won many

international “doing business and industrial” awards in innovations and technologies.

By integrating its own innovations and new technologies, DOK-ING develops and manufactures robotic and autonomous systems to protect human lives & property in dull, dirty and dangerous environments, known to responders, primarily in Military Engineering, CBRNe, Emergency Response & Underground Mining.

DOK-ING BUSINESS

■ PRODUCTS

- HUMANITARIAN DEMINING
- MILITARY ENGINEERING
- EMERGENCY RESPONSE & CRITICAL INFRASTRUCTURE PROTECTION
- UNDERGROUND MINING
- COUNTER TERRORISM

■ SERVICES

DEVELOPMENT

- NEW PRODUCTS
- EXISTING PRODUCTS UPGRADE AND OPTIMISATION

MINE ACTION SERVICES

- MECHANICAL DEMINING: machines for ground preparation
- MECHANICAL DEMINING: machines to detonate hazards
- Battle Area Clearance (BAC)
- Explosive Ordnance Disposal (EOD)
- IED Threat Mitigation
- Non-Technical Survey
- Technical Survey

AFTER SALES SUPPORT

- SPARE PARTS DISTRIBUTION
- MAINTENANCE & REPAIR
- SUPERVISION & MENTORING
- TRAINING
- LIFE CYCLE EXTENSION



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

PRESENT IN MORE THAN 40 COUNTRIES WORLDWIDE



DOK-ING

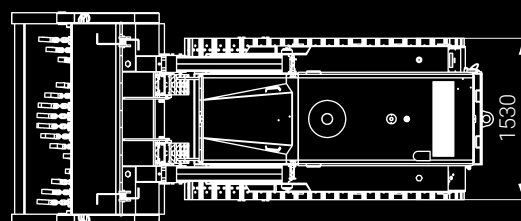
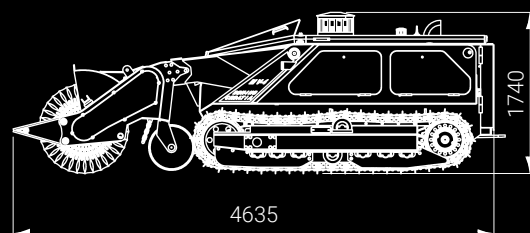
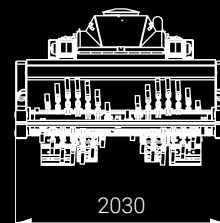
MV-4 TECHNICAL CHARACTERISTICS

Dimensional data*

Length	4635 mm
Width	2030 mm
Height	1740 mm
Weight	~6120 kg
Engine type	Perkins
Engine power	186 kW / 250 HP
Engine torque	1050 Nm @ 1400 rpm
Fuel consumption	15 - 25 l/h
Demining capacity	Up to 1400 - 1800 m ² /h
Ground pressure	0,59 kg/cm ²
Transport speed	7,15 km/h
Operational speed	0,5 - 1,26 km/h
Longitudinal gradeability**	36°
Side slope capability**	30°
Fording depth	300 mm

*Standard configuration with flail tool

** Depending on the ground



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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

All technical characteristics contained in this brochure are provided for informational purposes only, and DOK-ING Ltd. reserves the right to make changes without notice.