

HEAVY-DUTY

COMBAT PROVEN
AND EXCELLENT
MANEUVERABILITY

EOD ROBOTIC SYSTEM

MV-10



BISON

www.dok-ing.com

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

INNOVATION IN
ROBOTICS

MV-10 at glance

HEAVY-DUTY AND COMBAT PROVEN

The MV-10 is the only robotic system in the world with double tool: front-positioned flail tool followed by a rear tiller. It is the only demining system in its class that has been verified in the real combat situation. Furthermore, due to its high engine power and supreme explosion resistance, the MV-10 presents the strongest system in its category.



MULTI-MISSION CAPABILITY

- Front exchangeable tools

FAST TOOL EXCHANGE

- Optional quick coupler

SITUATIONAL AWARENESS

- Advanced video system

DAY/NIGHT OPERATION

- Lights
- Low light cameras
- IR light

REMOTE CONTROL CAPABILITY

- Operational range up to 1500m

AIR AND ROAD TRANSPORTABLE

- Tie down points

OFF/ON ROAD MOBILITY

- Deep profile tracks
- Rubber pads

FULL BODY PROTECTION

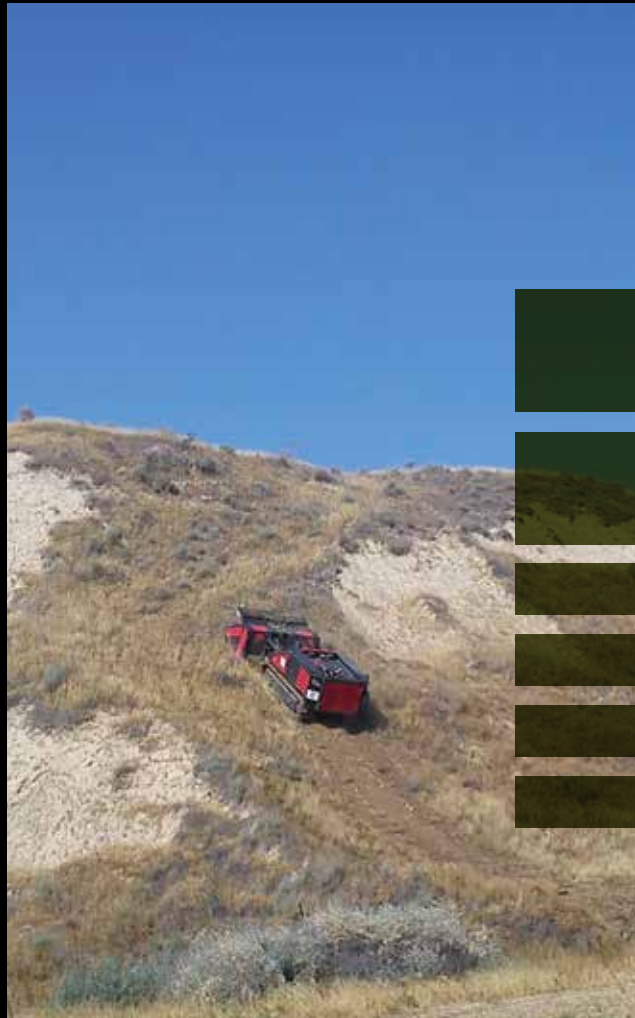
- Hardox 450

EXCELLENT MANEUVERABILITY AND CROSS COUNTRY PERFORMANCE

In spite of its weight and size, the MV-10 has got excellent cross-country performance. Its robust structure and low silhouette in combination with powerful engine enables the MV-10 to operate on steep slopes, overcome various obstacles and pass through dense vegetation effortlessly.

Multifunctionality

APPLICATIONS



Mission-oriented engineering platform
Prime mover and various exchangeable tools

Mechanical Ground Preparation & Demining

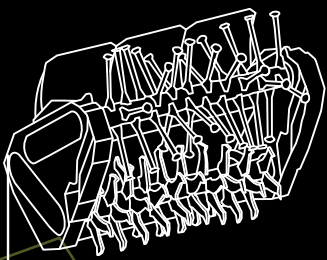
Mechanical Technical Survey & Clearance

UXO Clearance for Shooting Ranges

Mobility / Counter Mobility Operations

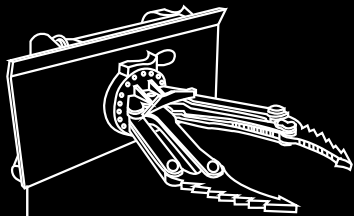
Breaching Tasks

Route Clearance



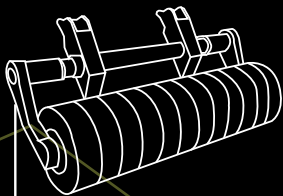
Flail / Tiller Double Tool

Purpose: Area/mine clearance, neutralization of AP&AT mines, vegetation clearance
Clearance width: 2400 mm
Clearance depth: Up to 350 mm



Rotational Gripper / Dozer Blade

Purpose: Breaching, removal of obstacles, earth moving, pushing
Lifting capacity: 2,5 t
Pushing capacity: 12 t



Segmented Roller

Purpose: Path/area clarification
Numbers of rollers: 15
Clearing width: 2415 mm

DIVERSITY OF TOOLS

Alongside standard tools, the option of developing customized tools for special purposes is available. Thereby, the maximum efficiency of MV-10 usage is ensured.

After sales

LOGISTICS, MAINTENANCE AND SUPPORT

The MV-10 dimensions are within the required limits for various types of transportation.

- Air** Delivery by various types of cargo planes (e.g. C-130, C-5, IL-76)
- Water** The MV-10 prime mover fits into a 20" GP container, while double tool with spare parts fit inside a 40" OT container.
- Land** Ideal for delivery by standard flat-bed or low loader trailer

Once in location, the MV-10 is ready for operational use.



To facilitate end users effective and uninterrupted use of MV-10, 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-10
- 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

DEVELOPMENT

- NEW PRODUCTS
- EXISTING PRODUCTS UPGRADE AND OPTIMISATION

SERVICES

MINE ACTION SERVICES

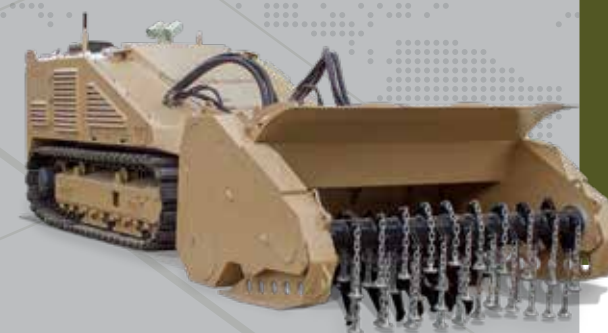
- MECHANICAL DEMINING: machines for ground preparation
- MECHANICAL DEMINING: machines to detonate hazards
- Battle Area Clearance (BAC)
- Explosive Ordnance Disposal (EOD)
- IED Threat Mitigation
- Non-Technical Survey
- Technical Survey

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.

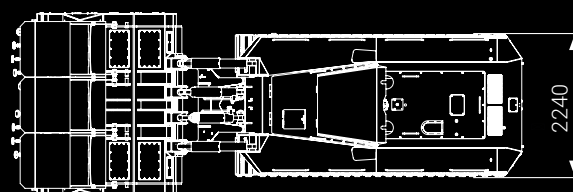
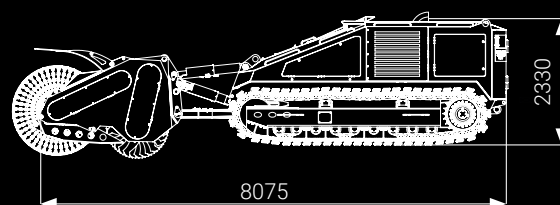
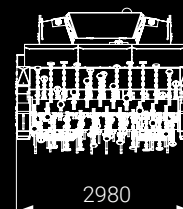
PRESENT IN MORE THAN **40** COUNTRIES WORLDWIDE



MV-10 TECHNICAL CHARACTERISTICS

Dimensional data*

Length	8075 mm
Width	2980 mm
Height	2330 mm
Weight	~20600 kg
Engine type	Caterpillar C18
Engine power	571 kW / 766 HP
Engine torque	3495 Nm @ 1400 rpm
Fuel consumption	25 - 50 l/h
Demining capacity	Up to 4000 m ² /h
Ground pressure	0,65 kg/cm ²
Transport speed	7 km/h
Operational speed	0,5 - 3 km/h
Longitudinal gradeability**	37°
Side slope capability**	25°
Fording depth	80 cm



*Standard configuration with flail/tiller double tool

** Depending on the ground



DOK-ING Ltd.
 Slavonska avenija 22 G, 10000 Zagreb, Croatia
 T +385 1 2481 300 / F +385 1 2481 303
 info@dok-ing.com / www.dok-ing.com

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.