

HEAVY-DUTY

COMBAT PROVEN
AND EXCELLENT
MANEUVERABILITY

EOD ROBOTIC SYSTEM

MV-10



BISON

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

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.



DOK-ING MV-10 / 03



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

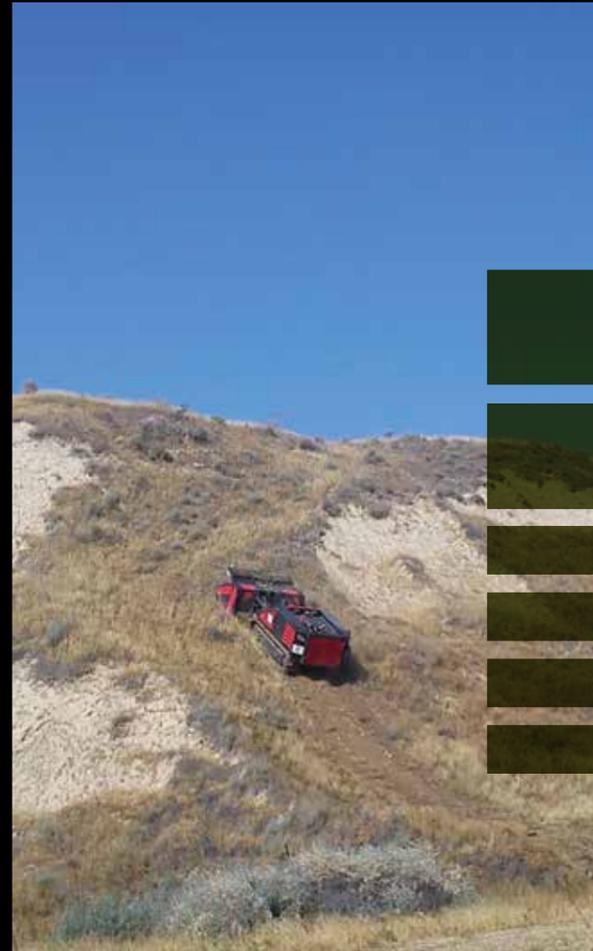
FULL BODY PROTECTION
• Hardox 450

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

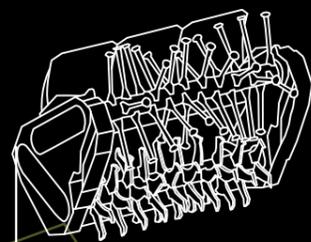
Mechanical Technical Survey & Clearance

UXO Clearance for Shooting Ranges

Mobility / Counter Mobility Operations

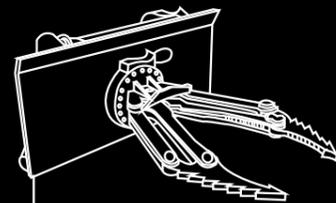
Breaching Tasks

Route Clearance



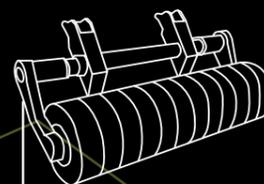
Flail / Tiller Double Tool

Purpose: Area/mine clearance, neutralization of AP&AT mines, vegetation clearance
Clearance width: 2450 mm
Clearance depth: Up to 400 cm



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: 2070 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 could fit into standard 20' container, while double tool could fit into the second one. Another option is to ship prime mover and tool in one 40' 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 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

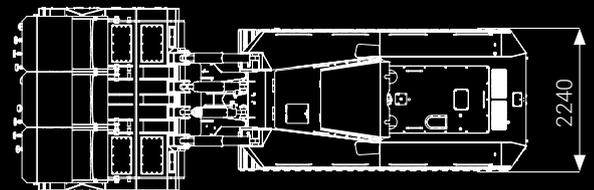
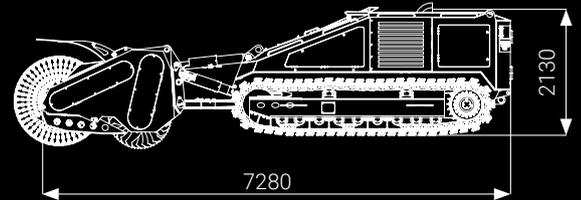
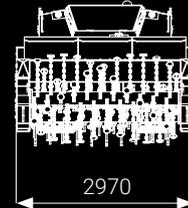
DOK-ING MANUFACTURES, DEVELOPS AND PROVIDES ROBOTIC SOLUTIONS FOR SPECIAL PURPOSES IN THE GLOBAL MARKET.

PRESENT IN MORE THAN **40** COUNTRIES WORLDWIDE



MV-10 TECHNICAL CHARACTERISTICS
Dimensional data*

Length	7280 mm
Width	2970 mm
Height	2130 mm
Weight	~20950 kg
Engine type	Caterpillar C18
Engine power	570,5 kW / 766 HP
Engine torque	3495 Nm @ 1400 rpm
Fuel consumption	25 - 50 l/h
Demining capacity	Up to 4500 m ² /h
Ground pressure	0,69 kg/cm ²
Transport speed	7 km/h
Operational speed	0,5 - 3 km/h
Longitudinal gradeability**	40°
Side slope capability**	20°
Fording depth	80 cm



*Standard configuration with flail/tiller double 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

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