



Combat Engineer Demining and Reconnaissance Equipment is a complete solution intended for field engineering activities. It is adapted for use by units and subunits of engineering troops throughout the year, at an ambient temperature from -30°C to + 50°C, in all weather conditions, with a relative air humidity increased to 100%. The end user actively participated in the process of developing the equipment, and the product itself received a positive opinion from the Military Institute of Engineering Technology. The equipment includes a total of over 130 elements, including:

- Mine detector module with a set of mine-detection prodders with spikes
- Anchor module with a cord, reel, pulley, a carabiner and a shredder
- Commander's module with handheld GPS, waterproof notebook, rangefinder, compass and dermatograph
- 100 m and 20 m measuring tape modules with reels, pins, carabiners and cases
- Marking module with flag stands and hangers
- Additional equipment: 45 l engineer backpack, flashlight, megaphone, mine tape warnings, tripod with head, inspection mirror and many more.

The complete set of Combat Engineer Demining and Reconnaissance Equipment includes:

NO.	NAME	NUMBER OF MODULES IN SET	NUMBER OF ELEMENTS IN MODULE
1.	TRANSPORT MODULE	1	-
	45 L ENGINEER BACKPACK		7
	60 L TRANSPORT BAG		2
	TRANSPORT BOX		5
2.	EXPLOSION INITIATION MODULE	1	-
	IGNITER		1
	EXPLOSION INITIATION MODULE CASE		1
3.	GRID BUILDING MODULE	2	-
	MULTITOOL		1
	DETONATOR CASE FOR 25 DETONATORS		1
	CUTTING PAD		1
	FOLDING KNIFE		1
	SPOOL		1

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	INSULATING TAPE	2
	FUSE CRIMPER	1
	GRID BUILDING MODULE CASE	1
	PLASMA LIGHTER	1
4.	100 M MEASURING TAPE MODULE	3
	100 M MEASURING POLYESTER TAPE WIDTH: 10 MM	1
	LOCKING CARABINER	2
	100 M TAPE MEASURING TAPE REEL	1
	100 M MEASURING TAPE MODULE CASE	1
	TAPE PINS	5
5.	20 M MEASURING TAPE MODULE	3
	20 M MEASURING POLYESTER TAPE WIDTH: 10 MM	1
	LOCKING CARABINER	2
	20 M TAPE MEASURING TAPE REEL	1
	20 M MEASURING TAPE MODULE CASE	1
6.	DETECTOR MODULE*	6
	MINE DETECTOR*	1
	MINE-DETECTION PRODDER	1
	PRODDER SPIKE	5
	FLAT BRUSH 40 MM	1
	DETECTOR MODULE CASE	1
	RED RIBBON FOR CALIBRATOR	1
7.	PRODDER MODULE	
	MINE-DETECTION PRODDER	1
	TITANIUM PRODDER SPIKE	1
	BASALT PRODDER SPIKE	5
	BASALT SPIKE ADAPTER	2
	STAND UP MINE PROBE ADAPTER	1
	MINE PROBE CAP	1
	PRODDER MODULE CASE	1
8.	ANCHOR MODULE	4
	PARACORD 50 M, DIA. 5 MM	1
	SMALL REEL	1
	LOCKING CARABINER	1
	PLASTIC CARABINER	2
	SELF-DISCONNECTING PULLEY	1
	PULL-OUT CONE FOR SELF-RELEASING BLOCK	3
	ANCHOR MODULE CASE	1
	STEEL ANCHOR	1
	PULLEY ADAPTER	1
	FIXED PULLEY	1
	ANCHOR SHREDDER	1
9.	MARKING MODULE	6
	FLAG STANDS	15

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COMBAT ENGINEER DEMINING AND RECONNAISSANCE EQUIPMENT

	MARKING MODULE HANGER WHITE	15
	MARKING MODULE HANGER RED	15
	MARKING MODULE CASE	1
10.	COMMANDER'S MODULE	1
	HANDHELD GPS	1
	WATERPROOF NOTEBOOK	1
	RANGEFINDER	1
	RANGEFINDER CELL CR2 (10 P = 2 PCS.)	1
	BASEPLATE COMPASS	1
	COMMANDER'S MODULE CASE	1
	WATERPROOF PEN	2
	DERMATOGRAPH	2
	PHOTOGRAPHIC SCALE RULER	1
11.	PASS MARKING MODULE	2
	PLATE	6
	POST WITH SPIKE	6
	LIGHT MARKING WHITE	6
	LIGHT MARKING IR	6
	PASS MARKING MODULE CASE	1
12.	ENERGY MODULE	1
	CELLS FOR ELECTRIC DEVICES	2
	BATTERY CHARGER (8 CHANNELS)	2
	POWERBANK	1
	ENERGY MODULE CASE	1
	CAR CHARGER WITH TWO USB SOCKETS	2
	BATTERY ORGANIZER	1
13.	DRONE'S MODULE*	1
	DRONE WITH EQUIPMENT	1
	DRONE'S MODULE CASE	1

	FUNCTIONAL ELEMENTS	NUMBER OF ELEMENTS IN SET
14.	SMALL REEL	1
	SMALL REEL CASE	1
	SPOOL	2
15.	1-WIRE CABLE	1
	2-WIRE CABLE	2
16.	LARGE REEL	2
	LARGE REEL CASE	2
	3 M FOLDING POLE	4
	3 M POLE SPIKE	8
	FLAG	8
	POLE ADAPTER	
	POLE, FLAGS AND SPIKES CASE	4

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	LARGE INSPECTION MIRROR	2
	CLEANING CLOTH FOR LARGE INSPECTION MIRROR	2
17.	LARGE INSPECTION MIRROR JOINT	2
	LARGE INSPECTION MIRROR CASE	2
	LARGE MIRROR ILLUMINATING ADAPTER	2
	ADAPTER BETWEEN 3 M POLE AND LARGE MIRROR	2
18.	SMALL INSPECTION MIRROR	4
19.	REFLECTIVE BAND	7
20.	HEADLAMP	7
	HEADLAMP POCKET	7
21.	FLASHLIGHT	4
22.	5 M MEASURING TAPE	2
23.	MEGAPHONE	1
24.	MINE TAPE WARNINGS	1
	MINE TAPE WARNINGS ORGANIZER	6
25.	FOLDING SHOVEL	4
26.	FOLDING SAW	1
27.	MULTI-PURPOSE CROWBAR	2
28.	TELESCOPIC BOLT CUTTERS 360–450 MM	1
	ANCHORS	20
29.	BAG FOR 10 ANCHORS	2
30.	WORK GLOVES	7
31.	CUTTING PAD	4
32.	MULTITOOL	4
33.	TACTICAL LANYARD	4
	WIMBLE	1
34.	WIMBLE CASE	1
	PLASTIC ANCHOR	12
35.	BAG FOR 3 PLASTIC ANCHORS	4
	STEEL ANCHOR	1
36.	BAG FOR STEEL ANCHOR	1
37.	PLASMA LIGHTER	4
38.	FOLDING KNIFE	4
39.	TACTICAL LANYARD	4
40.	MINING TOOLS ORGANIZER	4
	REPAIR KIT CASE	1
	WIRE BRUSH – SET OF 3 PCS	1
	KNIFE SHARPENER	1
41.	SCRUB BRUSH	4
	REPAIR MATERIAL 1 M ²	1
	MICROFIBER WIPES	3
	GLUE	1
	TRIPOD HEAD	1
42.	TRIPOD FEET	3
	TRIPOD CASE	1

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	TRIPOD STRAP	1
43.	TACTICAL SKETCHBOOK A4	1
44.	TAPE PINS	6
45.	NATO MILITARY TEMPLATE	1
46.	HOOK WEIGHT	1
47.	INDIVIDUAL MASKING SCREEN	8
48.	FIGURE EIGHT CLASP FOR INDIVIDUAL MASKING SCREEN	2

	SET OF CONSUMABLES	NUMBER OF ELEMENTS IN SET
49.	PRODDER SPIKE	60
50.	300 M BRAIDED CORD 3 MM	1
51.	REPAIR TAPE	10
52.	INSULATING TAPE	15
53.	450 MM CLAMPS	200
54.	2.5 KG TIE WIRE 1.2 MM	1
55.	ELECTRICAL QUICK-COUPERS	100
56.	BAG FOR 100 ELECTRICAL QUICK-COUPERS	100
	ELECTRICAL QUICK-COUPERS	1
57.	BAG FOR 100 ELECTRICAL QUICK-COUPERS	25
58.	400 x 400 MM STRING BAG WITH A FASTENER	200
59.	DISPOSABLE GLOVES, BLACK, SIZE S	200
60.	DISPOSABLE GLOVES, BLACK, SIZE M	200
61.	DISPOSABLE GLOVES, BLACK, SIZE L	10
62.	EXPANDER WITH HOOKS BLACK/KHAKI DIA. 4, LENGTH 80 CM	12
63.	RED SPRAY PAINT	5
64.	5 M DOUBLE SIDED FOAM TAPE 50 MM	140
	CONNECTORS FOR EXPLOSIVE CORD	1
65.	BAG FOR 140 CONNECTORS FOR EXPLOSIVE CORD	10
	LOCKING CARABINER	1
66.	BAG FOR 10 LOCKING CARABINERS	10
	PLASTIC CARABINER	1
67.	BAG FOR 10 PLASTIC CARABINERS	1
	PARACORD 300 M, DIA. 5 MM	50
68.	LIGHT MARKING WHITE	50
	LIGHT MARKING IR	2

* Equipment items marked with an asterisk are subject to separate valuation.



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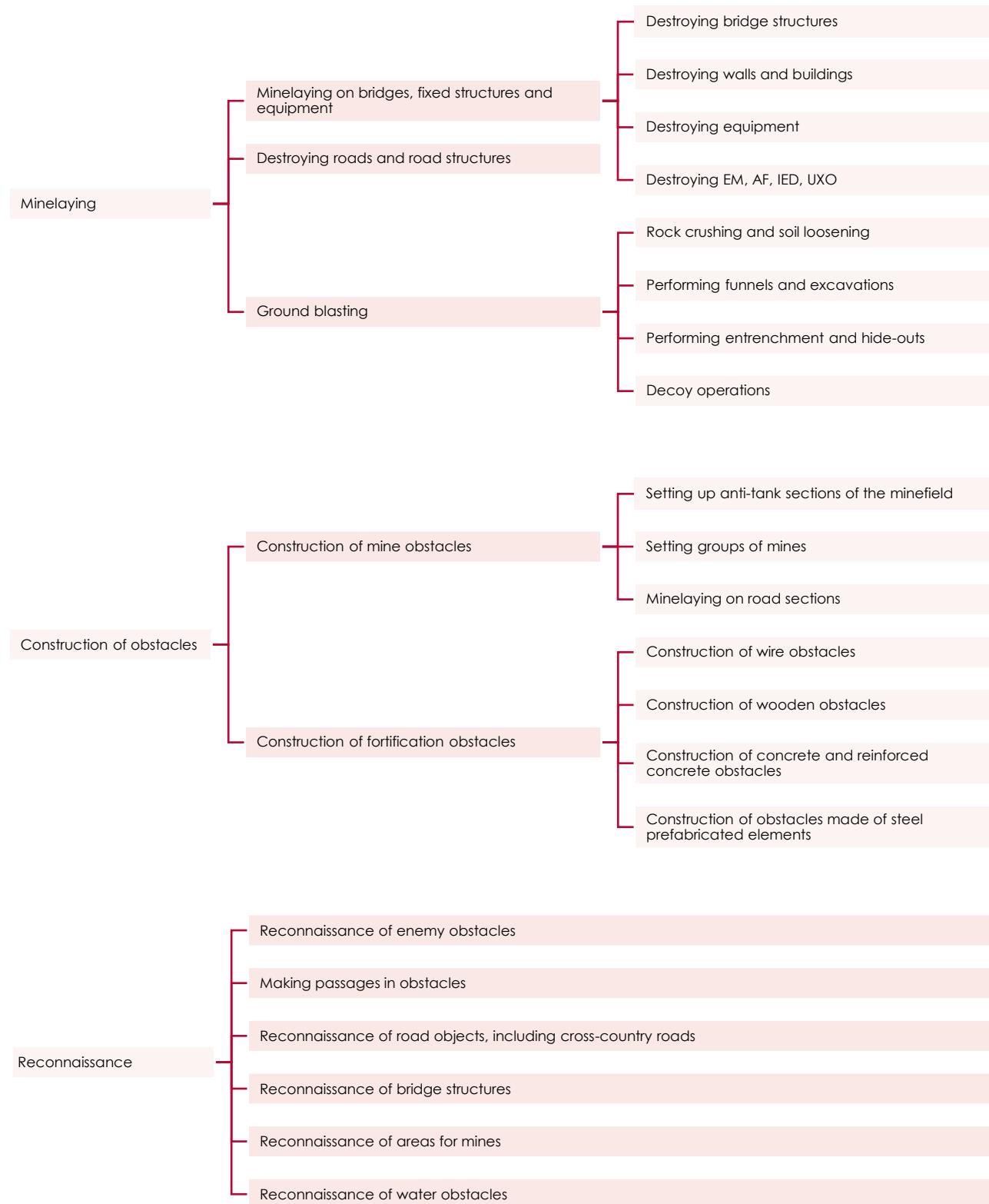
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The set completed in this way enables the performance of the following tasks to be secured:



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Mine detector compliant with NATO standard – features:

- Internal rechargeable batteries
- Bluetooth and Wi-Fi interface for wireless data transmission
- Automatic compensation function effectively reduces the number of false detections in highly mineralized soils
- Built-in web server for configuration, update and data transmission
- Built-in GNSS receiver
- Detection of improvised explosive devices (IEDs)
- Detection of wires and cables



Mine detector – specifications

Sensor	Active type, dimensions 27.3 x 12 cm
Alarm	Visual (LED) / audible / vibrating
Tightness class	IP68 (5 m, 1 h at 20°C)
Dimensions	With case – 28.5 x 12.2 x 6.5 cm In box – 36.5 x 30 x 15.5 cm
Operating conditions	In accordance with MIL-STD-810G (501.5-I, II, 502.5-I, II, 503.5, 506.4, 512.4, 514.6-C-II, 516.6)
Weight	Detector with standard battery / without battery – 1.25 kg / 1.03 kg Detector in case with standard accessories – 1.35 kg Detector in box – 3.36 kg
Operation time	Alkaline batteries – about 7 h NiMH batteries (2,700 mAh) – about 12 h Alkaline batteries in emergency mode – about 3 h NiMH batteries (10,000 mAh): about 12 h

The visualizations are presented for information purposes only and shall not constitute an offer within the meaning of Art. 66 § 1 of the Civil Code. The actual product may differ from the one presented in this document, depending on the specific type of vehicle and the scope of the order.

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