

**MULTIPURPOSE MIXED FIRE VEHICLE  
MANUFACTURER: KARBA  
ORIGIN: TURKEY**



(Image is of illustrative nature)


**MODEL: 50001500/DCP5003000NH**


**TECHNICAL SPECIFICATION**

No	Content	Technical Specification
<b>A</b>	<b>Genral information</b>	<b>Model: 50001500/DCP5003000NH</b>
	Type	Multi purpose mixed fire vehicle
	Driven wheel	4x2
	Cabin	Single Cabin
	Water tank/foam Tank/DCP Capacity	5.000 water tank/500liter foam tank /500 Kg DCP
	Qualification	New 100%
<b>B</b>	<b>Technical Specification</b>	
<b>I</b>	<b>Chassis</b>	<b>Model: IVECO ML180E28 Euro - 5</b> <b>Manufacturer: IVECO</b>
<b>1</b>	<b>General infomation</b>	
	Type	Specialized vehicle
	Drive wheel	4x2
	Seats	Single Cabin , 02 seats including driver
	Engine	280E5 - Diesel
	Engine Power	275HP
	Gearbox type	Manual 9 Speed – ZF9S1110TO
	Capacity	18.000kg
	Brake system	Disc Brakes with ABS
	Whellbase	3690mm
	Front tires	295/80R22,5
	Rear tires	295/80R22,5
	Tires	02 front tires + 04 rear tires (in total 06 tires)
	Compressor	360CC
	Fuel tank capacity	200 liter
	Front axle load	7.100kg
	Rear axle load	11.500kg
	Product standard	ISO45001:2018; TS EN 1501-1+A1; TS EN1028-1+A1; ISO10002:2018; EN1846-1:2011; EN1846-2:2009+A1:2013; EN1846-3:2013; TSEK VİDANJÖR;

		TSEK DAMPERLİ KASA
	Design	Will be designed in such a way to allow maximum accessibility to all areas. Covered by anti-slip material with light alloy handrails.
	Roof Access	One unit climbing ladder will be fixed at the rear part of the vehicle to access the roof of the vehicle. Handgrips will be provided on the ladder.
	Body	There are 5 storage lockers surrounding the vehicle. Lockers are closed by lockable aluminum roller shutters. All locks on the vehicle can be opened by one universal key. The base of the lockers will be covered with aluminum plates. Drain holes are provided on the floor of the compartment to supply the water drainage. The superstructure is covered with steel and steel frame, all superstructure components are assembled on a subframe.
	<b>Water tank</b>	
	Type	Modular type tank placed between the two locker compartments.
	Capacity / Material	5.000 liters/ AISI 304 Stainless Steel
	Baffle Plates	There are horizontal and vertical walls inside of AISI304 material
	Manhole	500mm with lid and with mechanical lock
	Filling the Tank	2 doors 2 sides- 2.5 " with GOST standard coupling
	Tank Drainage	2 inch bottom outlet with ball valve.
	Sewer pipes	Tube to remove excess air and water in the tank
	Level Indicator	Located on the dashboard.
	<b>Foam tank</b>	
	Capacity / Material	500 liters / AISI 316 Stainless Steel
	Filling	4 inch filling valve on top of the tank also for cleaning purpose
	Cleaning	2 inch spherical valve for draining.

	<b>DCP (powder) unit</b>	
	Capacity	500 kg
	Material	6 mm St-37, Cylindrical, equipped with control panel
	Location	In the front locker
	Nitrogen Tubes	2 unit x 20 liter regulator
	Operation Pressure	14kg/cm <sup>2</sup>
	Reel	1 unit 1" x 30 m hose reel with powder gun
	Operation	Manual
	DCP unit Standard	EN ISO12100:2010, EN ISO 13857: 2008, EN 349: 1993+ A1:2008
	<b>Fire pump</b>	
	Manufacturer	KARBA
	Model	KARBA 3000NH
	Fire pupm	European technology - synchronous by fire truck manufacturer, 5 stage centrifugal multi-pressure, 2 normal pressure, 3 high pressure
	Driven Type	PTO
	Material	Body & Fan will be manufactured from light alloy aluminum and the pump shaft will be manufactured from Stainless Steel. Karba pump can operate with salty sea water



Pump production technology	Karba
Production standart	TS EN 1028-1:A1:2011 TS EN 1028-2+A1:2009
Capacity	3000 lpm at 10 bar 250 lpm at 40 bar
Outlets	2x 2 inch pump inlets with globe valve with GOST coupling 2x 2.5 inch pump inlets with GOST coupling
Suction	1 unit 4 inch suction nozzle with GOST coupling. KARBA pump has a capability to suck water from 7 m geographical depth.
Foam Proportion	1% - 6% automatic foam proportioning, the proportion ratio can be adjusted by a manual lever
Control Panel	Located in the rear pump compartment.
<b>Water/foam monitor</b>	
Manufacturer	KARBA
Capacity	2.400 LPM at 8-10 bars, control by hand
Production technology	Integrated European technology manufactured by fire truck assembly manufacturers
Placement	On front of the vehicle roof- front
Control	Manually from roof of the vehicle
Standard	EN ISO12100:2010, EN ISO13857:2008, EN349:1993+A1:2008
Throwing Distance	60 meters water and 50 meters foam

	Movement	360° horizontally and from -15° to 75° vertical, karba jetting nozzle
	Nozzle	Karba Jetting / Spraying Nozzle
	<b>Hose reel</b>	
	Manufacturer	Karba
	Location	At rear left or rear right side of the vehicle
	Type	Made of aluminum molding, resistant to high pressure.
	Hose	1 inch x 50m, unbreakable and uncrushable
	Nozzle	Jetting/Spraying Nozzle with hand grip
	Opening	Manual
	Rewinding	Electrical/manual
	<b>Accessories</b>	
	3 section 9 m aluminum portable ladder	01 unit
	4" 3m Suction Hose with GOST couplings.	02 unit
	2" 20m quality Fire Hoses with GOST couplings.	04 units
	2 ½" 20m quality Fire Hoses with GOST couplings.	04 units
	4" Suction Strainer	01 unit
	Straight flow shut off valve branch-pipe nozzle	02 units
	ABC coupling spanner	01 unit

	Front Bumper Winch	01 unit
	<b>Electrical installation</b>	
	American Light bar	
	4 different siren system and PAS (Public Address System)	
	Lockers will be illuminated	
	On two sides, front and rear of the vehicle there will be flashing warning lights	
	Outside projector light mounted on the rear-top of the vehicle	
	1 unit Telescopic Projector on the roof	
<b>1</b>	<b>Radio Isotope Identification Device SPIR-ACE</b>	
	<b>Model</b>	<b>SPIR-ACE</b>
	<b>Manufacture</b>	<b>Mirion technologies (Canberra), inc</b>
	<b>Origin</b>	<b>USA</b>
	<b>Features</b>	
	Applications: radiation security, nuclear accident, radioactive source measurement.	
	Auto stabilization, amplification, no standard radioactive source required	
	Externally connected alpha and beta contamination probes are available	
	Internal mapping capabilities	

	Direct data transmission and accessibility	
	<b>Specification</b>	
	Detectors	<ul style="list-style-type: none"> <li>- NaI(Tl) version: dia 35 mm x 51 mm (1.4 in. dia x 2 in.)</li> <li>- Energy compensated GM tube for high gamma dose rate</li> <li>- Optional external alpha/beta GMP-25™ contamination probe</li> </ul>
	Energy range	25 keV to 3 MeV (gamma)
	Gamma dose rate range	0.001 µSv/h to 100 mSv/h (0.1 µR/hr to 10 R/hr)
	Identification	<ul style="list-style-type: none"> <li>- Fast digital MCA, 1024 channels, throughput &gt;100 000 cps</li> <li>- Seven libraries containing 80 nuclides</li> <li>- Identifies up to eight nuclides simultaneously</li> <li>- Detection and identification performance exceeds ANSI N42-34, IEC62327 and IAEA NSS 1</li> </ul>
	Touch screen	4.3 in. color LCD, Fast display update (every 0.25 s)
	Alarm indicators	LEDs, vibrator and sound (81db@30cm)
	Connectivity	<ul style="list-style-type: none"> <li>- Internet connection by Wi-Fi or phone,</li> <li>- Record location of measurements/events,</li> <li>- Micro USB connection, Wireless connection (GPS; cellular; Wifi)</li> </ul>
	Measurement mode	Measurement mode with alarm: automatically collect and recognize when alarm, manual measurement mode (start/stop/resume)
	Memory	4GB SD card, event/spectrum memory capacity: >50000
	Water and dust	IP65
	Operating temperature range NaI	-20 °C to +55 °C, 93% relative humidity at 40 °C
	Electrical	Li-ion rechargeable, built-in charger, replaceable, 6700mAh, 3.6V, Battery life: 8.5 hours. Charge time: 5 hours with USB adapter.



	<b>* Alpha/beta external contamination probe</b>	
	<b>Model</b>	<b>GMP-25</b>
	<b>Manufacture</b>	<b>Mirion technologies (Canberra), inc</b>
	<b>Origin</b>	<b>USA</b>
	Probe is intended for monitoring alpha, beta, gamma and X-ray radiation.	
	<b>Energy range</b>	Gamma > 6 keV, beta > 100 keV and alpha > 2 MeV
	<b>Detector type</b>	GM tube 7313
	<b>Pulse rate range</b>	0 - 50 000 cps
	<b>Mica window with active area</b>	15.5 cm <sup>2</sup> (6.1 in <sup>2</sup> ); window thickness: 1.5 - 2 mg/cm <sup>2</sup>
	<b>Sensitivity</b>	2.8 cps (170cpm) for 90Sr/90Y uniform source of 0.37 Bq/cm <sup>2</sup>
	<b>Efficiency (cps / Bq)</b>	<ul style="list-style-type: none"> <li>- Am-241, α, E: 5,4 MeV: &gt; 15%</li> <li>- C-14 β, Emean: 50 KeV: &gt; 7 ± 1%</li> <li>- Sr-90/Y-90, β, Emean: 0,8 MeV: &gt; 35 ± 4%</li> <li>- Cl-36, β, Emean: 0,27 MeV: &gt; 29 ± 4%</li> </ul>
	<b>MDA</b>	<ul style="list-style-type: none"> <li>- Am-241, α, E: 5,4 MeV: ≤ 0,26 Bq/cm<sup>2</sup></li> <li>- C-14 β, Emean: 50 KeV: ≤ 0,55 Bq/cm<sup>2</sup></li> <li>- Sr-90/Y-90, β, Emean: 0,8 MeV: ≤ 0,11 Bq/cm<sup>2</sup></li> <li>- Cl-36, β, Emean: 0,27 MeV: ≤ 0,13 Bq/cm<sup>2</sup></li> </ul>
	<b>Equipment provided includes</b>	<ul style="list-style-type: none"> <li>- 01 external alpha and beta contamination probe and 1.5m extension cable</li> <li>- Transportation and storage case</li> <li>- USB AC power adapter</li> <li>- Micro USB cable/Hand strap/Earphones</li> <li>- Calibration certificate of equipment</li> <li>- 01 KCL uses fast power standard for equipment</li> </ul>
<b>2</b>	<b>Chainsaw</b>	

<b>Model</b>	<b>365</b>
<b>Manufacture</b>	<b>Husqvarna</b>
<b>Origin</b>	<b>Sweden</b>
Structure	01 chainsaw, 01 chain, 01 tracks
Engine type	Air-cooled 2-stroke gasoline engine
Power output	3.4kW
Engine technology	X-TORQ
Cylinder displacement	65.1 cm <sup>3</sup>
Idling speed	2700 rpm
Maximum power speed	9000 rpm
Cylinder diameter	48mm
Cylinder journey	36mm
Ignition system	SEM AM50
Electrode gap	0.5mm
Spark plug	NGK BPMR7A
Carburettor	C3M-EL2B
Starter	Smartstart technology brings quick and easy operation
Fuel tank volume	0.77 L
Oil tank volume	0.44 L
Oil pump type	Automatic
Oil pump capacity	4-20ml/min
Chanin pitch	3/8 inch
Recommended bar length	38-70cm
Chain speed at max power	20.7m/s
Equivalent vibration level (ahv,eq) front/rear handle	3,6/3,5m/s <sup>2</sup>
Sound pressure level at operators ear	102.5 dB(A)
Weight (excl. cutting equipment)	6kg