

**Μη επανδρωμένο, τηλεχειριζόμενο, ρομποτικό, ερπυστριοφόρο
πυροσβεστικό όχημα πολλαπλών χρήσεων "MVF-5"**

<http://www.dok-ing.hr/>

DOK-ING: "Don't send a man to do a machine's job"



Εισαγωγή



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κάθε εμπόδιο!

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Γενικά Χαρακτηριστικά



Ενδείκνυται



«Πυροσβεστικό»



**με πυροσβεστήρα
Ziegler ZW 16!**

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**μεταφέρει
2.500 λίτρα νερό και 500 λίτρα αφρό!**

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**μπορεί να συνδεθεί
με πολλαπλές πηγές νερού και αφρό!**

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**τροφοδοσία νερού από κρουνοί, πυροσβεστικά οχήματα
& πηγάδια, λίμνες, ποτάμια...!**

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**με ανιχνευτές
TIC (Toxic Industrial Chemicals)!**

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**με ανιχνευτές
CWA (Chemical Warfare Agent)!**

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**με θερμική κάμερα
για συνθήκες μειωμένης ορατότητας!**

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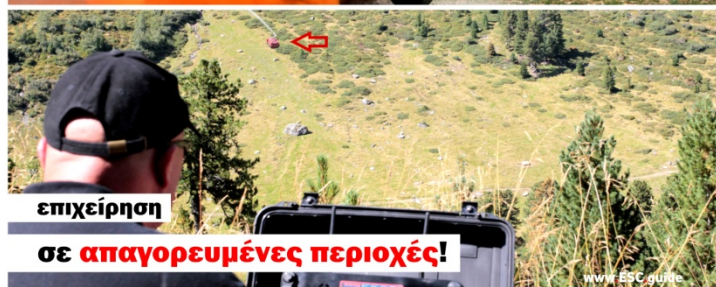
**όπου φωτιά...
γυρνάει και τη σβήνει!**

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**αυτοπροστατευόμενο
με σύστημα ψύξης!**

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**επιχείρηση
σε απαγορευμένες περιοχές!**

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Καμένη Γη: 2000-2016 (στρέμματα)

	1.558.763	2.272.922	2.158	1.220.210	137.781	1.429.563	999.956	28.756
	Δάση	Δασική Έκταση	Άλση	Χορτ/κές Εκτάσεις	Καλάμια - Βάλτοι	Γεωργικές Εκτάσεις	Υπολείμματα Καλλιεργειών	Σκουπι- δότοποι
2016	55.230	151.726	257	71.750	7.962	44.050	88.702	334
2015	19.124	52.806	42	20.225	5.085	37.952	35.227	397
2014	4.838	62.301	34	38.040	10.575	22.855	54.290	255
2013	7.501	110.588	45	56.971	6.672	46.814	41.942	386
2012	98.160	158.666	56	111.580	7.046	97.098	27.159	640
2011	62.884	96.870	29	83.524	8.145	50.461	47.217	492
2010	16.776	44.470	43	39.605	5.847	29.680	15.301	582
2009	61.704	149.200	88	119.675	14.805	59.845	40.011	5.419
2008	105.044	119.281	138	48.020	8.406	49.379	55.232	1.461
2007	651.586	836.888	644	296.210	29.786	660.373	167.601	1.134
2006	7.933	48.972	59	20.420	3.545	55.968	14.972	1.020
2005	12.640	26.632	38	15.753	3.237	14.811	14.405	1.218
2004	11.729	32.664	75	33.885	4.332	13.310	36.562	2.010
2003	4.906	22.105	165	25.428	1.993	14.538	14.670	962
2002	2.952	16.766	55	13.994	5.417	14.022	26.538	2.078
2001	25.215	83.046	384	83.127	9.864	39.745	181.598	5.274
2000	465.771	411.667	263	213.753	13.026	222.712	227.231	5.428



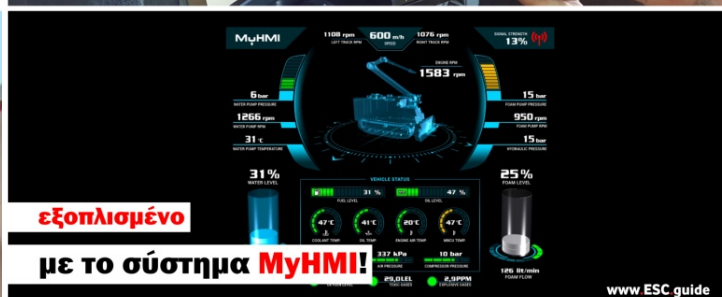
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24/24ωρο!

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«Πολυεργαλείο»





Τεχνικά Χαρακτηριστικά (κατασκευαστή)

Dimensional data

Length without attachment (prime mover alone)	4420 mm
Length total (Gripper tool in transport position)	5750 mm
Length total (Gripper tool w/jaws extended)	6320 mm
Width without attachment (prime mover alone)	1530 mm
Width total	2280 mm
Ground clearance (depending on track plate type)	260-270 mm
Height overall	2240 mm
Mass basic vehicle (prime mover w/lubricants & fuel)	13000 kg
Mass overall MVF-5 U3 (w/lubricants, fuel, water & foam)	16000 kg

Engine

Make & Model	CATERPILLAR C7.1 ACERT
Engine Description	In-line, turbo-charged diesel, 4-stroke, direct injection, water cooled, electronically regulated, 6 cylinders
Rated power	205 kW (275 HP)
Rotation direction	Counter clockwise (at flywheel)
Torque at rpm	1257 Nm at 1400 rpm
Engine weight (dry)	715 kg
Fuel capacity	240 liters
Fuel consumption	25 liters/hour
Cooling system type	Liquid cooled
Engine oil capacity	16 liters

Undercarriage

Tracks description	Metal tracks 400 mm wide, profile optional
Number of metal track pads	51
Ground bearing pressure	0.68 – 0.84 kg/cm ² (depending on water tank fill)
Power transmission	Hydrostatic system
Type	Independent for propulsion and any tool's operation
Gearbox (multiplying)	Stiebel 4382, i=0,6572
Gearbox oil capacity	5,5 liters
Hydraulic oil capacity	220 liters
Track gearbox oil capacity	2 x 2 liters
Transport speed	0-11 km/hour

Obstacle Negotiation

Hill climbing ability (max grade slope °)	30
Side slope (°)	20

Specification of Fire-fighting

system Ziegler Firefighting pump FPN 10-2000-2H

Type	2-stage fire pump, middle pressure
Flow	2000 L/min at 10 bar
Management	Remote controlled

Foam system

Type	Automatic dosage unit
Pump type	Gear pump
Flow	For 100 – 2000 l/min of water flow
Dosage	3 – 6 %
Management	Remote controlled

Water tank

Capacity	2500 l (+/- 5%)
Filling pressure	4 bar

Foam tank

Capacity	500 l (+/- 5%)
Filling pressure	4 bar

Roof monitor Ziegler ZW 16

Installation position	Roof mounted hydraulic arm
Flow	1600 l/min at 10 bar
Management	Remote controlled
Range	Water aprox. 55 m, Water/foam aprox. 45 m
Hydraulic arm components	Base, arm, forearm, wrist (monitor)
Base rotation	360° in both directions

Specification of Attachable Operational Equipment

Blade/Rotational Gripper Tool

Rotational Gripper width	2280 mm
Rotational Gripper height	960 mm
Rotational Gripper length (jaws retracted-extended)	1345-1915 mm
Rotational Gripper weight	1100 kg
Rotational Gripper claws max opening	1450 mm
Rotation	360° in both directions
Blade pushing capacity	Up to 10 tones depending on surface type and object
Rotational Gripper lifting capacity	2000 kg
Video system	See separate video system specs
Protection level	Hardox-450 plates

Winch

Winch drive	Hydraulic motor
Clutch	Manual
Rated pulling force	8165 kgf
Rope length	25 m
Gear reduction	36:1

Video system specs

Number of cameras (total)	9
Number of cameras on the prime mover	5 (PTZ camera w/zoom, 4 Fixed cameras)
Number of cameras on the monitor	3 (Zoom camera, Thermal camera, Fixed camera)
Number of cameras on the gripper tool	1 (Fixed camera)

Optional Equipment

Detectors	CWA (Chemical Warfare Agent) Detection TIC (Toxic Industrial Chemicals) Detection Radiation Detection
Sensors	Oxygen Temperature TIC (Toxic Industrial Chemicals) Explosive Gases
Other types of fire-fighting equipment	Pump Water monitor

MVF-5 U3 TECHNICAL CHARACTERISTICS All technical data are subject to possible MVF-5 U3 configuration change.