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Drainage Robot FMBOT 12000



FMBOT 12000 is a self-propelled amphibious robot for high-volume drainage and remote water supply during urban flood and emergency incidents.

Opis produktu:

It rapidly dewateres culverts, waterlogged streets and flooded underground car parks, and can relay water from nearby open sources to fire appliances or portable storage—without external power or a separate floating platform. Built on a hydraulic all-terrain chassis with on-the-spot turning, it can access tight, hard-to-reach areas and handle dirty water with small solids.

Key Features

4,800 l/min (80 l/s) monitor at 10 bar with ≥ 85 m throw; continuously adjustable jet/fog pattern; remote pan/tilt with presets and oscillation.

Explosion-protection marking Exd [ib] IIB T4 Gb for demanding industrial hazardous-area use.

Tracked all-terrain mobility: 5,800 N traction, 40° climbing ability, 260 mm obstacle crossing, 400 mm wading depth.

MESH digital-data HD transmission (OFDM/MIMO) with ad hoc networking and multi-robot operation; range up to 1.5 km (conditions dependent).

Thermal Imaging Camera (TIC) for heat-source detection and improved awareness in smoke/low visibility, alongside 360° panoramic HD video and HD zoom surveillance.

Millimetre-wave radar obstacle avoidance and scene sensing to reduce operator workload near obstacles.

Two-way audio and microphone-array sound-source localisation to support on-scene coordination.

Primary Applications

Urban flooding / waterlogging dewatering • Culvert and low-clearance drainage • Flooded underground car-park dewatering (non-smoke environments) • Open-area water relay to fire appliances / portable water storage • Flood response support • Towing of trailers (land) and boats (water), configuration



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dependent

Product-Market Insight

For European flood response and civil protection units, FMBOT 12000 enables high-volume dewatering and remote water delivery with reduced crew exposure and faster set-up times. Its LDH-compatible interfaces and amphibious mobility make it particularly useful for mixed terrain incidents where access is limited and prolonged pumping operations are required.

Technical data

Parameter	Specification
Max. flow rate (pump)	720 m ³ /h (200 L/s / 12,000 L/min)
Maximum lift / range	6 m
Water inlet connections	DN200 × 2 (internal diameter ≥ 185 mm)
Water outlet connections	DN200 × 2 (2 × 8-inch interfaces)
Drainage / discharge distance	≥ 300 m
Water supply distance (single unit)	≥ 300 m (multi-robot relay: several kilometres – configuration dependent)
Engine power	35 hp (approx. 26 kW)
Fuel tank capacity	50 L
Endurance (typical)	Approx. 5 h continuous (refuel during operation possible)
Drive / chassis	Hydraulic-driven all-terrain chassis
Travel speed (land)	Max 7.2 km/h
Travel speed (water)	1 km/h
Communication range	≥ 300 m (≥ 500 m in open areas)
Dimensions (L × W × H)	2180 × 1480 × 1350 mm
Operating weight	770 kg (including engine oil, hydraulic oil and fuel)
Water inlet type (double suction)	Lift-type inlet; quick replacement with 90° bent inlet for low water level suction
Hydraulic auxiliary output	Standard hydraulic output interface: 14 MPa (140 bar), 40 L/min
Traction winch	Electric winch; 3,500 lbf (approx. 1,600 kgf) pulling force; wireless/wired controller
Hose reel cart (optional)	4 reels; typically 2 × 50 m + 2 × 25 m DN200 (other configurations possible); up to 150–200 m total hose length (specification dependent)
Hose reel cart – power	48 V, 32 Ah battery; speed 5 km/h; range 20 km

Hose reel cart -
dimensions / weight

1800 × 1000 × 1400 mm; 580 kg (incl. 150 m thickened hose)

