

Ground-based robotic firefighting system with automatic hose reel includes tracked drive, front moldboard, rear stop, load-bearing side housing, front modular section with equipment compartments, rear protective section, load-bearing top cover, and fire monitor. Ground-based robotic firefighting system additionally includes electrically driven hose reel with chain transmission for automatic winding or unwinding of high-pressure hose, fluid delivery mechanism for use while in motion with movable sleeve, elbow, hose nozzle, and radial bearing to ensure the delivery of fire extinguishing agent through main line to fire monitor while hose reel is rotating; hose feed system with guide rollers; shut-off valves for auxiliary pressure pipe with connecting hose head, and shut-off valves for the supply of fire-suppressant to fire monitor, wherein reel is mounted inside the firefighting unit with the possibility of rotation and is connected to electric drive via chain transmission, and one end of high-pressure hose is connected to movable sleeve via radial bearing, and the other end is connected to external water supply source, ensuring a continuous supply of pressurized fire-extinguishing agent during reel rotation while winding or unwinding high-pressure hose while moving firefighting system.