MULTISCOPE RESCUE WITH HYDRA

ASSISTING FIREFIGHTERS IN EXTREME SITUATIONS

FIRE MONITOR SYSTEM

- Both supply approx. 2000 l/min
- Both controlled by radio remote control
- Both Move 360°
- Both can be used with water and foam
- Throw length at 5 bar: 45m
- Throw length at 8 bar: 62m

SKID UNIT

- Two cooling sprinklers mounted in front of the skid unit for cooling down the skid unit and UGV.
- Control cabinet with LED lights for system status
- Four fire hose compartments
- The skid could be executed with 2 medium expansion generators to supply a thick foam blanket with medium expansion foam
- 22" LED light bar / Light coverage up to 380m

INDUSTRIAL FIRES

- Modularity
- High temperature resistance
- Able to pass through tight gaps
- High Maneuverability
- Water and foam compatible

FOREST FIRES

- Especially useful in collaps zones
- Able to climb obstacles
- Low ground pressure
- Able to tow pressurized water hoses
- All terrain compatible

LANDSCAPE FIRES

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MULTISCOPE RESCUE WITH HYDRA

TECHNICAL SPECIFICATIONS

UGV

Measures 240 cm x 200 cm x 115cm
Weight 2080 kg

Payload area

UGV hight (with Hydra) 181 cm
Payload weight (Hydra) 300 kg

360 deg sensorics & lights

Sensors LiDARs
Cameras IR, Thermal, HDR
Lights LED, IR

Performance

Max. speed 20 km/h
Ground clearance 60 cm
Ground pressure 0,23 kg/cm
Max. grade 31 degrees / 60 %
Fording depth 61 cm
Pull force 21 000 N
Run time (hybrid, full internal tank) 12...15 h
Run time (full load, silent mode) 0,5...1,5 h

Transportability

Towing speed up to 80 km/h
Air transportability According to STANAG 3542
Airlift Helicopter under slung

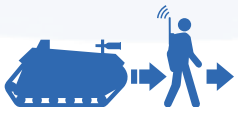
CONTROL SYSTEM

Line of sight up to 1,5 km

Vehicle and fire monitors
Operated separately

OPTIONAL AUTONOMOUS FUNCTIONS

Waypoint navigation



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Multiscope

The Multiscope UGV's modular design combined with third party integrations creates generic flexibility to respond throughout various rescue and firefighting situations.

RESCUE UGV

Power source	Hybrid Diesel-Electric Drive
Pulling force	21000 N
Payload (rated)	750 kg / 1650 lbs
Max payload	1200kg/2645 lbs
Max grade	31°/60%
Max side slope	17°/30%
Run time hybrid	Up to 15 h
Run time electric	Up to 1,5h
Max speed	20 km/h

*All data is provided with maximum payload

Upgradability and Adaptability

- Upgradable in all aspects

Hardware: Modular design allows for swapping out for new payloads – integrate new technology as it emerges

Software: Upgrade UGV to AI-powered autonomy functions via software packages in the near future

- Get the perks of being an early adopter without worrying about deprecation
- Stay ahead of the curve in a fast-evolving field
- Long machine life span -> reduced costs and improved Return-on-Investment

+ Firehose container

+ Extinguisher

+ Transporter

Phase I

Building the infrastructure fire and rescue operation

- Gather critical information for operational planning
- Set up communication using radio relays
- Transport critical supplies, equipment and teams

Phase II

Supporting first responder on the site of operation

- Remote extinguishing inside the danger zone for first responders
- Reaching into narrow and steep areas where fire trucks are helpless
- Live video feed throughout remote conducted dive-in
- MEDEVAC from harsh terrain
- Supply chain management without exhausting manpower

Phase III

Packing up and finishing the operation

- Robot-assisted post-operation logistics
- Packing up equipment and transportation of auxiliary loads
- Faster regain of readiness for new operations

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