



# PRODUCT CATALOG

V2023





# COMPANY PROFILE

## AMOS---A Model Of Success In Fluid Technology

Amos Fluid Technology Co., Ltd. was established in 2004 with production base in Ningguo City, Anhui Province. Since the first day of its founding, Amos has been keeping an eye on the world's cutting edge technology of fluid industry, and has developed 30 series of more than 700 specifications of domestic centrifugal pump products instead of imported products.

In 2014, AMOS launched its first subsidiary, M&C Pump Americas llc in Texas, USA, to primarily distribute its own products to the North American market. In 2017, GSPS Pump llc, a wholly-owned subsidiary, was established to focus on integrated mobile pumping station and pumping vehicles' technology research and development.

In 2021, AMOS obtained the special vehicle production qualification from the Ministry of Industry and Information Technology of China, and began the development and production of emergency rescue special vehicles. Thanks to years of technology research and development, Amos, as a latecomer, has begun to show its edge in China's emergency equipment field, and is committed to be a world-class leader in temporary fluid handling and emergency rescue solutions.



## DEVELOPMENT HISTORY



# » Position In Industry

- The first drafting unit of “Integrated pump truck for flood, drainage and drought relief” group standard organized by China Water Conservancy Enterprise Association.
- The first drafting unit of “Guidelines for construction of community emergency rescue station” group standard organized by China Safety Industry Association.



## 社区应急救援站建设指南

Guidelines for construction of community emergency rescue station

T/CSIA 010-2022

### 前言

本文件按照GB/T 1.1-2020《标准化工作导则 第1部分：标准化文件的结构和起草规则》的规定起草。

本文件由中国安全产业协会提出并归口。

本文件起草单位：北京有备科技集团有限公司、安徽阿莫斯流体技术有限公司、安徽神南人防工程防护设备有限公司、中建三局集团有限公司、中国地震应急搜救中心、应急管理部部长助理促进中心、鲁普耐特集团有限公司、防灾科技学院应急管理系、江苏华燕船舶装备有限公司、浙江东安消防装备技术有限公司、中建三局集团华南有限公司、河北巨力应急装备科技有限公司、汉威科技集团股份有限公司、深圳市诺安环境安全股份有限公司、中防安（北京）科技有限公司、希诺麦田技术（深圳）有限公司、武汉市诺安环境安全股份有限公司、北京联益慈善基金会、中国安全产业协会防火减灾分会。

本文件主要起草人：张锦龙、欧琳、陈蔚、梅海清、储成刚、王辉、沈明、吴延宏、文坤波、陈西凯、孙丽、魏磊、武耀旺、高辰杰、商尔特、冯长林、杨超、谭武、杨昌再、张梅香、熊志红、肖德飞、李桂生。

游洲世界 因友从家

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## 防汛排涝抗旱一体化泵车

Integrated pump truck for flood, drainage and drought relief

(征求意见稿)  
前言

本文件按照 GB/T 1.1-2020《标准化工作导则 第1部分：标准化文件的结构和起草规则》起草。

请注意本文件的某些内容可能涉及专利，发布机构不承担识别责任。

本文件由中国水利企业协会提出并归口。

本文件起草单位：中国水利水电科学研究院、安徽阿莫斯流体技术有限公司、福建侨龙应急装备有限公司、天津中蓝泵业有限公司、长沙迪沃机械科技有限公司、郑州市神龙泵业有限公司、湖南华航应急装备有限公司、广州多联农业机械科技有限公司、南京金陵江交通设施有限公司、上海奥一泵业制造有限公司、上海路益科技公司、天津善德阳光科技有限公司、广东鹏洋应急科技有限公司、广东建旭实业有限公司、佛山市宜筑家科技有限公司、《中国防汛抗旱》杂志社。

本文件主要起草人：杨昆、张志民、黄诗峰、廖翠林、马建威、梅海清、张功元、张少林、刘中海、胡涛、陈继清、沈春昕、许德金、李德洋、张成、李国、刘许光、崔磊杰、黄应源、陈卓、凌永玉、阙树元、张同林、周应来、赵强斌、陈东、张增豪、吕洋、刘洋、李晶臣、刘静、丁文、高晓云、姚力玮、郑静、林朝长、李昌盛、朱鹤、李蓉、孙亚勇、杨永民。

本文件在执行过程中的意见和建议请至中国水利企业协会。

本文件为首次发布。

游洲世界 因友从家

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## Mission

[ Committed to be a world-class leader in temporary fluid handling and emergency rescue solutions. ]

## Vision

[ Build a respected enterprise. ]

## Values

[ Integrity, Creation & Responsibility. ]

## Slogan

[ Challenge the surging world. ]



*Challenge the surging world*

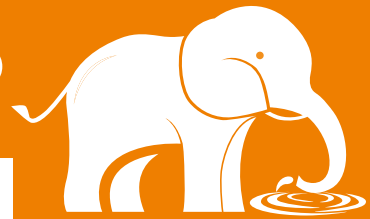
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# A

## About Product



Longnose<sup>®</sup>  
Series



*Challenge the surging world*

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**AMIOS**  
A MODEL OF SUCCESS IN FLUID TECHNOLOGY



Agricultural  
Irrigation

Remote  
water  
supply

Flood  
control  
and  
drainage

Sewer  
Dredging

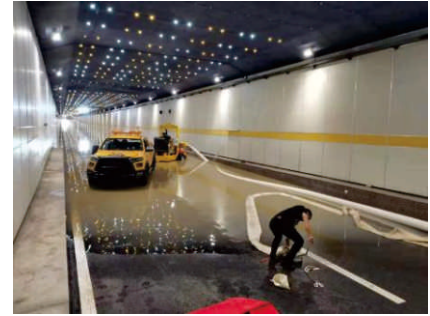
## LONGNOSE® EH SERIES DRAINAGE PICKUP TRUCK

Longnose® EH series drainage pickup truck is the first emergency rescue truck in the world which is refitted from a light duty pickup truck by extracting its engine's power through a full-power PTO, a hydraulic system, a dual-cooling system and a smart control system to drive multi sets of submersible water pumps or other hydraulic equipment.

Longnose® EH series drainage pickup truck is basically equipped with two sets of large flow medium head hydraulic submersible pumps. One set is a lifting drainage pump, installed under the vehicle chassis, used for urban low-lying areas, underground parking garage, tunnel, underpass road and a place vehicle easy reaching area's emergency drainage. When the vehicle reaches the drainage point, the lifting drainage pump will descend to a certain height through a remote controller or local controller, and then start the truck's engine, turn on the PTO to a power-take-off model to drive the hydraulic drainage pump for emergency drainage operation; The other set is a portable remote drainage pump which is stored in the cargo box, used for sewer, inland river, lake and a place where the truck parking point and drainage point has a big height difference while the vehicle can not reach area's emergency drainage by connecting hydraulic hoses and water hose. According to different drainage scenarios, the lift drainage pump and the portable remote drainage pump can work independently or simultaneously.

Longnose® EH series drainage pickup truck is a multi patented product both at home and abroad. It creatively combines water pumps with a pickup truck by fully utilizing vehicle's strong power and maneuverability, and brings a completed new concept and solution for emergency rescue field. It is an ideal choice for drainage, flood relief, irrigation, dredging and fire fighting water supply.





## • Features •

- Unique and patented Full-power PTO technology;
- All equipment are powered by truck's engine, no additional power needed.
- Full hydraulic power output makes emergency rescue job safer.
- Lifting drainage pump ascend for driving, descend for drainage;
- Portable drainage pump enables the truck's function stronger
- 24\*7 continuous, full load and reliable operation.
- Water pump can handle 3 inch diameter solids;
- Equipped with trailer hitch, brake & steering system .

## • Tech Data •

Model	Lifting Pump			Remote Pump			Overall Capacity (m3/h)
	Flow (m3/h)	Head (m)	Discharge Size (mm)	Flow (m3/h)	Head (m)	Discharge Size (mm)	
E600PK-H	300	20	150	300	20	150	600
E900PK-H	600	20	200	300	20	200	900
E1200PK-H	600	15	200	600	15	200	1200



Lifting Pump



Local Control Panel



Trailer Hitch



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Flood  
control  
and  
drainage

Remote  
water  
supply

Agricultural  
Irrigation

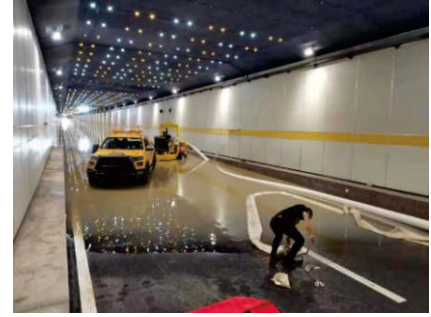
Sewer  
Dredging

## LONGNOSE<sup>®</sup> EM SERIES DRAINAGE PICKUP TRUCK

Longnose<sup>®</sup> EM series drainage pickup truck is the first emergency rescue truck in the world which is refitted from a light duty pickup truck by extracting its engine's power through a full-power PTO, a hydraulic system, a dual-cooling system and a smart control system to drive a vacuum assisted self priming pump and a portable submersible pump.

Longnose<sup>®</sup> EM series drainage pickup truck is basically equipped with two sets of large flow medium head water pumps. One set is a vacuum assisted self priming pump installed inside of the cargo box, used for sewer, urban low-lying areas, underground parking garage, tunnel, underpass road as well as a place where vehicle can not reach area's emergency drainage by connecting an anti-negative pressure hose on pump's suction flange. The other set is a portable remote drainage pump which is stored in the cargo box, used for sewer, inland river, lake and a place where the truck parking point and drainage point has a big height difference or long distance while the vacuum assisted self priming pump can not handle area's emergency drainage by connecting hydraulic hoses and water hose. According to different drainage scenarios, the self priming pump and the portable remote drainage pump can work independently or simultaneously.

Longnose<sup>®</sup> series drainage pickup truck is a multi patented product both at home and abroad. It creatively combines water pumps with a pickup truck by fully utilizing vehicle's strong power and maneuverability, and brings a completed new concept and solution for emergency rescue field. It is an ideal choice for drainage, irrigation, dredging and fire fighting.

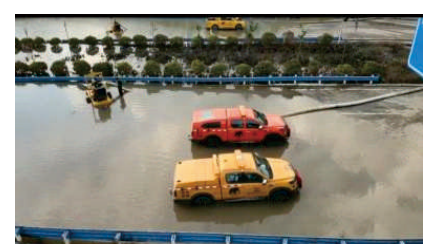
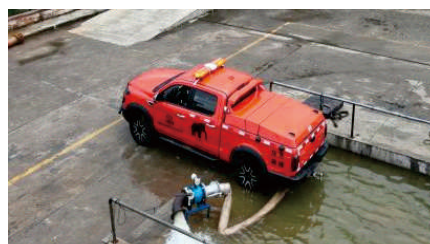


## • Features •

- Unique and patented Full-power PTO technology.
- All equipment are powered by truck's engine, no additional power needed.
- Full hydraulic power output makes emergency rescue job safer.
- Self priming pump and remote pump work together to cover all drainage scenarios.
- 24\*7 continuous, full load and reliable operation.
- Water pump can handle 3 inch diameter solids.
- Easy operation, convenient deployment and high maneuverability.
- Equipped with trailer hitch, brake & steering system.

## • Tech Data •

Model	Vacuum assisted self priming pump			Remote pump		
	Flow (m3/h)	Head (m)	Water hose (mm)	Flow (m3/h)	Head (m)	Water hose (mm)
E900PK-M	600	22	200*200	300	22	150*150
E1200PK-M	600	20	200*200	600	20	200*200
E1600PK-M	1000	15	250*250	600	20	200*200





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Agricultural  
Irrigation

Remote  
water  
supply

Flood  
control  
and  
drainage

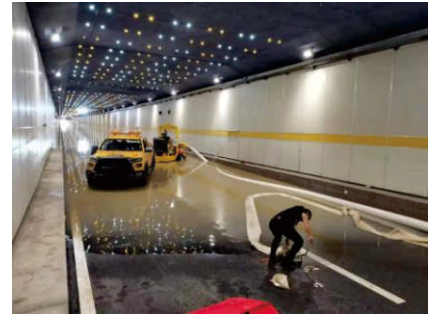
Sewer  
Dredging

## LONGNOSE<sup>®</sup> ES SERIES DRAINAGE PICKUP TRUCK

Longnose<sup>®</sup> ES series drainage pickup truck is the first heavy duty emergency rescue truck in the world which is refitted from a super pickup truck by extracting its engine's power through a full-power PTO, a hydraulic system, a water hose laying system, a dual-cooling system and a smart control system to drive multi sets of submersible water pumps or other hydraulic equipment.

Longnose<sup>®</sup> ES series drainage pickup truck is basically equipped with three sets of large flow hydraulic submersible pumps. One set is a lifting drainage pump, installed under the vehicle chassis, used for urban low-lying areas, underground parking garage, tunnel, underpass road and a place vehicle easy reaching area's emergency drainage. When the vehicle reaches the drainage point, the lifting drainage pump will descend to a certain height through a remote controller or local controller, and then start the truck's engine, turn on the PTO to a power-take-off model to drive the hydraulic drainage pump for emergency drainage operation; The other two sets are portable remote drainage pumps which are stored in the cargo box, used for sewer, inland river, lake and a place where the truck parking point and drainage point has a big height difference while the vehicle can not reach area's emergency drainage by connecting hydraulic hoses and water hoses. According to different drainage scenarios, the lift drainage pump and the portable remote drainage pumps can work independently or simultaneously.

Longnose® ES series drainage pickup truck is a multi patented product both at home and abroad. It creatively combines water pumps with a pickup truck by fully utilizing vehicle's strong power and maneuverability, and brings a completed new concept and solution for emergency rescue field. It is an ideal choice for drainage, flood relief, irrigation, dredging and fire fighting water supply.

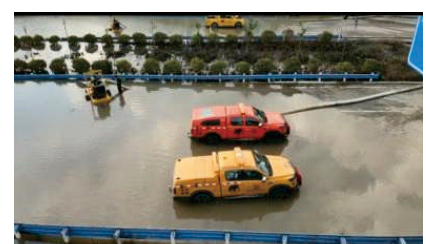
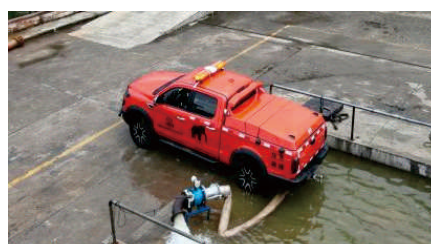


## • Features •

- Unique and patented Full-power PTO technology;
- All equipment are powered by truck's engine, no additional power needed.
- Full hydraulic power output makes emergency rescue job safer.
- Lifting drainage pump ascend for driving, descend for drainage;
- Portable drainage pump enables the truck's function stronger
- 24\*7 continuous, full load and reliable operation.
- Water pump can handle 3 inch diameter solids;
- Equipped with trailer hitch, brake & steering system .

## • Tech Data •

Model	Lifting Drainage Pump			Remote Drainage Pump			Overall Capacity (m3/h)
	Flow (m3/h)	Head (m)	Dis.Size (mm)	Flow (m3/h)	Head (m)	Dis.Size (mm)	
E3000SPK	900	15	250	700*3	20	200	3000
E4000SPK	1000	15	250	1500*2	8	200	4000
E4800SPK	1800	8	300	1500*2	8	300	4800





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Flood  
control  
and  
drainage

Agricultural  
Irrigation

Remote  
water  
supply

## LONGNOSE® ED SERIES HEAVY DUTY DRAINAGE TRUCK

Longnose® ED series heavy duty drainage truck is refitted from a heavy duty truck by utilizing truck's engine as its power and its chassis as its equipment mounting platform. It is a fully hydraulic driven drainage truck specially designed for flood control, irrigation and remote water supply for fire fighting.

Longnose® ED series heavy duty drainage truck adopts lightweight, modular design with features of light weight, compact structure and beautiful appearance. The core components include hydraulic power module, water hose winch module, oil hose winch module, submersible pump module, operating robot module, hydraulic tailgate, cooling system and control system. The hydraulic power module converts truck engine's mechanical power into hydraulic power through the connection of PTO, hydraulic pump, oil tank, oil hose and control valve to drive multiple sets of submersible pumps or other hydraulic tools. Hose winches are hydraulically driven and remotely controlled for laying and withdrawing of hoses without manual work, which greatly reduce the number of operators. The drainage module is composed of three sets of submersible pumps, which can be configured with floating block for suspension drainage. The operating robot module adopts a fully hydraulic driven crawler chassis structure with IP68 waterproof rating and three-dimensional motion function. It can perform various tasks in complex scenarios such as capture, carrying, release and withdrawal of the drainage module or other rescue material by remote control. Operating robots can completely replace manual operations, reducing the labor intensity and personnel allocation of operators, and reducing all kinds of risks caused by traditional operators' wading operations to zero. D-Cool cooling system, as a unique patent technology of Amos, has become a standard configuration of all Longnose drainage vehicles.

Longnose® ED series heavy duty drainage truck is a multi patented product both at home and abroad. It creatively combines heavy duty truck's load, space, power and maneuverability with robot's multi-functions, and brings a completed new concept and solution for emergency rescue field. It is an ideal choice for drainage, irrigation, fire fighting and power supply.



## • Features •

- Full hydraulic power output makes emergency rescue job safer.
- All equipment are powered by truck's engine, no additional power needed.
- Patented D-Cool technology secures a 24\*7 continuous, full load and reliable operation.
- Modular design creates a compact and space saving carriage;
- Class IP68 water proof design enables the robot have amphibious capability;
- Multi-dimensional mechanical arm completely replaces manpower;

## • Tech Data •

Model	Single Pump Flow (m3/h)	Head (m)	Qty (pcs)	Overall flow (m3/h)	Water Hose Size (mm)
E3000HD-22	1000	22	3	3000	250
E6000HD-08	1500	8	4	6000	300



Remote Control



Floating Pump



Center Control



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Flood  
control  
and  
drainage

Agricultural  
Irrigation

Backup  
Power  
Supply

## LONGNOSE® EP SERIES HEAVY DUTY DRAINAGE TRUCK

Longnose® EP series heavy duty drainage truck is refitted from a heavy duty truck by utilizing truck's engine as its power and its chassis as its equipment mounting platform. It is a fully electric driven drainage truck specially designed with Amos patented PTO power generation technology for flood relief, irrigation, remote water supply and emergency power backup.

Longnose® EP series heavy duty drainage truck adopts lightweight, modular design with features of light weight, compact structure and beautiful appearance. The core components include power generation module, hose winch module, cable winch module, submersible pump module, operating robot module, hydraulic tailgate, cooling system and control system. The power generation module adopts Amos unique patent technology to convert truck engine's mechanical power into electricity through the connection of PTO, gear box and generator to drive multiple sets of submersible pumps or use as a backup power supply in emergency situations. Hose winch and cable winch are hydraulically driven, which can remotely control the laying and recovery of hose and cable without manual work and can greatly reduce the number of operators. The drainage module is composed of two sets of four clustered axial flow submersible pumps, which can be configured with floating block for suspension drainage. The operating robot module adopts a fully hydraulic driven crawler chassis structure with IP68 waterproof rating and three-dimensional motion function. It can perform various tasks in complex scenarios such as capture, carrying, release and withdrawal of the drainage module or other rescue material by remote control. Operating robots can completely replace manual operations, reducing the labor intensity and personnel allocation of operators, and reducing all kinds of risks caused by traditional operators' wading operations to zero. D-Cool cooling system, as a unique patent technology of Amos, has become a standard configuration of all Longnose drainage vehicles.



Longnose® EP series heavy duty drainage truck is a multi patented product both at home and abroad. It creatively combines heavy duty truck's load, space, power and maneuverability with robot's multi-functions, and brings a completed new concept and solution for emergency rescue field. It is an ideal choice for drainage, irrigation, fire fighting and backup power supply.



Hose Winch



Control Panel



Center Control

## • Features •

- Unique and patented PTO- Power-Generation technology.
- All equipment are powered by truck's engine, no additional power needed.
- Patented D-Cool technology secures a 24\*7 continuous, full load and reliable operation.
- Modular design creates a compact and space saving carriage;
- Class IP68 water proof design enables the robot have amphibious capability;
- Multi-dimensional mechanical arm completely replaces manpower;

## • Tech Data •

Model	Drainage System					Power Generation System	
	Single Pump Flow (m3/h)	Head (m)	Qty (pcs)	Overall flow (m3/h)	Pipe Size (mm)	Power (kw)	Voltage (v)
E4000HD-P200	500	10	8	4000	200	≥200	380
E4800HD-P200	600	8	8	4800	250	≥200	380
E5600HD-P240	700	10	8	5600	250	≥240	380
E6400HD-P240	800	8	8	6400	250	≥240	380
E7200HD-P275	900	8	8	7200	250	≥275	380
E8000HD-P320	1000	8	10	8000	250	≥320	380

*Challenge the surging world*

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# B

## About Product



**Aquadrakon<sup>®</sup>**  
**Series**



*Challenge the surging world*

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**AMOS**  
A MODEL OF SUCCESS IN FLUID TECHNOLOG



Flood  
Control and  
Drainage

Remote  
water  
supply

Irrigation

## AQUADRAGON® LIGHT DUTY REMOTE WATER SUPPLY SYSTEM

Aquadragon® light duty remote water supply system is the first small size emergency rescue system in the world which is refitted from light duty trucks by extracting truck engine's power through a full-power PTO, a hydraulic system, a dual-cooling system and a smart control system to drive multi sets of water pumps for remote water supply and emergency drainage application.

Aquadragon® light duty remote water supply system is composed of a water-intake-boost subsystem and a hose laying subsystem. The water-intake-boost subsystem is equipped with three portable submersible pumps and one booster pump. Water-intake pumps are designed with light weight for single person to carry and deploy. After connecting water hoses and hydraulic oil hoses, the water-intake pumps transfer large volume of water to booster pump which then pressurize the water and push it through water hose to fire line. Hose laying subsystem is refitted from either a light pickup truck or a light truck. It's basically designed for a single water supply line which can transfer the pressurized water to 400-1000 meters away depends on the truck's load capacity.

Aquadragon® light duty remote water supply system adopts Amos' unique and patented SFP full Power Take Off technology which makes the on-board hydraulic system not only obtain the maximum output torque, but also obtain the maximum output power of the engine and provide substantial hydraulic power to the equipment. Each Aquadragon remote water supply system is equipped with a standard D-Cool cooling system, which controls the engine cooling water temperature and hydraulic system oil temperature at a safe level for a long time, providing a suitable system environment for vehicle parking and full load operation and ensuring the whole fire water supply system's continuity, reliability and durability.

## Challenge / the / surging / world

Aquadragon® light duty remote water supply system is a multi patented product both at home and abroad. It creatively combines multi-sets of modular with two light duty vehicles' power and to generate large volume of fire fighting water supply, and brings a completed new concept and one stop solution for fire fighting industry.



## • Features •

- Unique and patented Full-power PTO technology.
- Small footprints, light weight with super power;
- All equipment are powered by truck' s engine, no additional power needed;
- Full hydraulic power output makes water supply job safer;
- Lightweight portable water intake pump taking care of all scenarios;
- D-Cool system secures a 24\*7 continuous, full load and reliable operation.
- Intelligent design and easy operation makes less manpower input needed;
- Super maneuverability and off road capability secures different scenario adaptability;
- Equipped with a trailer hitch, brake & steering system for more possibilities.

## • Tech Data •

### Remote water supply system

Model	Water Intake Module				Booster Module			Max Water Supply Distance (m)	Drainage Module(optional)		
	Flow (l/s)	Pressure (Mpa)	Hose Size (mm)	Max Water Intake Distance (m)	Flow (l/s)	Pressure (Mpa)	Hose Size (mm)		Flow (l/s)	Head (m)	Hose Size (mm)
D200PK-F50	70*3	0.25	125	≥50	200	0.25	250	≥1000	600	25	200

### Hose laying system

Model	Water Hose Laying System						
	Hose Size (mm)	Capstan Qty (pcs)	Single Capstan Hose Length (m)	Overall Hose Length (m)	Line End Flow (l/s)	Line End Pressure (Mpa)	Manifold Size
D250PK-F450	Dn250	3	150	450	200	≥0.2	DN250-DN80*6
D250LD-F900*	Dn250	5	180	900	200	≥0.2	DN250-DN80*6

\* Light truck chassis with water hose cleaning function



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Flood  
Control and  
Drainage

Remote  
water  
supply

Irrigation

## AQUADRAGON® MEDIUM DUTY REMOTE WATER SUPPLY SYSTEM

Aquadragon® medium duty remote water supply system is the first small size emergency rescue system in the world which is refitted from super duty trucks by extracting truck engine's power through a full-power PTO, a hydraulic system, a water hose cleaning system, a dual-cooling system and a smart control system to drive multi sets of water pumps for remote water supply and emergency drainage application.

Aquadragon® medium duty remote water supply system is composed of a water-intake-boost subsystem and a hose laying subsystem. The water-intake-boost subsystem is refitted from a super duty pickup truck and equipped with three portable submersible pumps and one booster pump. Water-intake pumps are designed with light weight for single person to carry and deploy. After connecting water hoses and hydraulic oil hoses, the water-intake pumps transfer large volume of water to booster pump which then pressurize the water and push it through water hose to fire line. Hose laying subsystem is refitted from either a super duty pickup truck or a light duty truck. It's basically designed for a single water supply line which can transfer the pressurized water to 1000 meters away. Its capacity could be easily doubled by adding another set of water-intake pumps and booster pump so as to generate a dual water supply lines to transfer a doubled volume of water to 500 meters away.

Aquadragon® medium duty remote water supply system adopts Amos' unique and patented SFP full Power Take Off technology which makes the on-board hydraulic system not only obtain the maximum output torque, but also obtain the maximum output power of the engine and provide substantial hydraulic power to the equipment. Each Aquadragon remote water supply system is equipped with a standard D-Cool cooling system, which controls the engine cooling water temperature and hydraulic system oil temperature at a safe level for a long time, providing a suitable system environment for vehicle parking and full load operation and ensuring the whole fire water supply system's continuity, reliability and durability.

# Challenge / the / surging / world

Aquadragon® medium duty remote water supply system is a multi patented product both at home and abroad. It creatively combines multi-sets of modular with two light duty vehicles' power and to generate large volume of fire fighting water supply, and brings a completed new concept and one stop solution for fire fighting industry.



## • Features •

- Unique and patented Full-power PTO technology.
- Small footprints, light weight with super power.
- All equipment are powered by truck' s engine, no additional power needed.
- Full hydraulic power output makes water supply job safer.
- Lightweight portable water intake pump taking care of all scenarios.
- D-Cool system secures a 24\*7 continuous, full load and reliable operation.
- Intelligent design and easy operation makes less manpower input needed.
- Super maneuverability and off road capability secures different scenario adaptability.
- Equipped with a trailer hitch, brake & steering system for more possibilities.

## • Tech Data •

### Remote water supply system

Model	Water Intake Module				Booster Module			Max Water Supply Distance (m)	Drainage Module(optional)		
	Flow (l/s)	Pressure (Mpa)	Hose Size (mm)	Max Water Intake Distance (m)	Flow (l/s)	Pressure (Mpa)	Hose Size (mm)		Flow (m3/min)	Head (m)	Hose Size (mm)
D12SPK-F600	12*1	0.35	80	≥100	12	6.0	80	≥5000	1000	15	250
D30SPK-F400	30*1	0.25	125	≥100	30	4.0	150	≥5000	1000	15	250
D200SPK-F70	70*3	0.20	125	≥50	200	0.50	250	≥2000	1000	15	250
D400SPK-F70	70*6	0.20	125	≥50	200*2	0.50	250	≥2000	1000	15	250

### Hose laying system

Model	Water Hose Laying System							Hose Cleaning Module	
	Hose Size (mm)	Capstan Qty (pcs)	Single Capstan Hose Length (m)	Overall Hose Length (m)	Line End Flow (l/s)	Line End Pressure (Mpa)	Manifold Size	Air Flow (m3/min)	Pressure (Mpa)
D80SPK-F3000	Dn80	10	150	2000	12	≥0.2	DN80-DN40*4	6.0	0.8
D150SPK-F600	Dn150	8	200	1600	30	≥0.2	DN150-DN80*2	6.0	0.8
D250LD-F900	Dn250	6	250	1000	200	≥0.2	DN250-DN80*6	6.0	0.8



**AMOS**  
A MODEL OF SUCCESS IN FLUID TECHNOLOGY



Flood Control  
and  
Drainage

Emergency  
rescue

Remote  
water  
supply

Fire  
fighting

## AQUADRAGON<sup>®</sup> LIGHT DUTY MULTIFUNCTIONAL RESCUE PICKUP TRUCK

Aquadragon<sup>®</sup> light duty multifunctional rescue pickup truck is the first emergency rescue truck in the world which is refitted from a light duty pickup truck by extracting truck engine's power through a full-power PTO, a hydraulic system, a dual-cooling system and a smart control system to drive multi sets of water pumps for both drainage, short distance water supply and fire fighting.

Aquadragon<sup>®</sup> light duty multifunctional rescue pickup truck's core modular contains PTO, hydraulic system, drainage pump, water-intake pump, booster pump and center control system. The hydraulic driven drainage pump is installed on a lift platform under the truck's chassis and it descends with the lift platform to drain the water gathered in low-lying area, tunnel, and underground garage where the truck easily to reach. The lift platform will ascend and hide under the chassis when dewatering job finished for driving. Portable water-intake pump was driven by the hydraulic system for a short distance water supply and moves water to the booster pump installed on the truck for fire fighting. An electric driven water cannon is installed in front of the pickup truck for early fire fighting with water supplied from multiple resources like a trailer mounted water tank, a fire hydrant or from the water-intake pump. D-Cool cooling system, as a unique patent technology of Amos, has become a standard configuration of all Aquadragon rescue vehicles to secure the their operation's continuity, reliability and durability.

Aquadragon<sup>®</sup> light duty multifunctional rescue pickup truck is a multi patented product both at home and abroad. It creatively combines multi water pumps and other equipment with a pickup truck by fully utilizing vehicle's strong power, load capacity and maneuverability, and brings a completed new concept and solution for emergency rescue field. It is an ideal choice for drainage, water supply, fire fighting and emergency rescue in plants, communities, villages and towns area.





## • Features •

- Unique and patented full-power PTO technology;
- Small size, light weight with super power;
- All equipment are powered by truck' s engine, no additional power needed;
- Full hydraulic power output makes emergency rescue job even safer;
- Single vehicle with multi-functions makes less rescue vehicles input needed;
- Intelligent design and easy operation makes less manpower input needed;
- Independent rescue capability makes overall working efficiency greater;
- Super maneuverability and off road capability secures different scenario adaptability;
- Equipped with a trailer hitch, brake & steering system for more possibilities.

## • Tech Data •

Model	Short Distance Water Intake Module				Relay Booster Unit			Water Supply Distance (m)	Drainage Pump Module		
	Flow (l/s)	Pre (Mpa)	Outlet Size (mm)	Distance (m)	Flow (l/s)	Pre (Mpa)	Hose Size (mm)		Flow (m3/h)	Head (m)	Outlet Size (mm)
D60PK-F50	60	0.30	125	≥100	55	0.80	125*125	≥400	600	25	200





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Flood Control  
and  
Drainage

Emergency  
rescue

Remote  
water  
supply

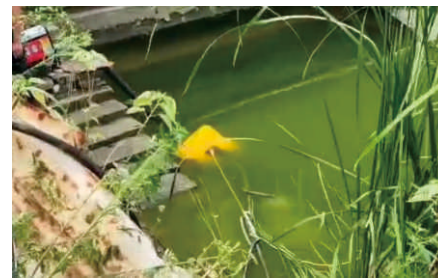
Fire  
fighting

## AQUADRAGON® HEAVY DUTY MULTIFUNCTIONAL RESCUE PICKUP TRUCK

Aquadragon® heavy duty multifunctional rescue pickup truck is the first emergency rescue truck in the world which is refitted from a super duty pickup truck by extracting truck engine's power through a full-power PTO, a hydraulic system, a hose winch system, a dual-cooling system and a smart control system to drive multi sets of functional modular for both drainage, remote water supply, fire fighting and emergency rescue.

Aquadragon® heavy duty multifunctional rescue pickup truck's core modular contains three water-intake pumps, two booster pumps, one water tank, one electric driven water cannon, one mini hydraulic power station and multi sets of hydraulic demolition tools. The water tank, a under-chassis-installed booster pump and the electric driven water cannon forms a small on board fire extinguishing system for early fire control. One portable water-intake pump, the under-chassis-installed booster pump and the electric driven water cannon forms a small but complete fire fighting system when the on board water tank is used up but water resources is available nearby. The most valuable thing is when on board water tank is used up while there's no nearby water resources available, Aquadragon® heavy duty multifunctional rescue pickup truck will withdraw from fire line and switch its role from a fire extinguishing vehicle to a remote water supply vehicle. Under this circumstances, the three portable water-intake pumps, an above-chassis-installed large capacity booster pump will work together to conduct remote water supply task by partnering with a hose laying truck to deliver a minimum of 200l/s pressurized water to a 1000 meters fire line. D-Cool cooling system, as a unique patent technology of Amos, has become a standard configuration of all Aquadragon rescue vehicles to secure the their operation's continuity, reliability and durability.

Aquadragon® heavy duty multifunctional rescue pickup truck is a multi patented product both at home and abroad. It creatively combines multi water pumps and other equipment with a pickup truck by fully utilizing vehicle's strong power, heavy load & super off-road capacity and maneuverability, and brings a game changing solution for emergency rescue field. It is an ideal choice for fire extinguishing, remote water supply, drainage and emergency rescue in city and big industrial community.



## • Features •

- Unique and patented full-power PTO technology;
- Small size, light weight with super power;
- All equipment are powered by truck's engine, no additional power needed;
- Full hydraulic power output makes emergency rescue job safer;
- Single vehicle with multi-functions led to a much less rescue vehicles demanded;
- Intelligent design and easy operation makes less manpower input needed;
- Independent rescue capability makes overall working efficiency greater;
- Super maneuverability and off road capability secures different scenario adaptability;
- Equipped with a trailer hitch, brake & steering system for more possibilities.

## • Tech Data •

### Tech Data (scenario 1)

Model	Short Distance Water Intake Module				Booster Module			Water Supply Distance (m)	Drainage Pump Module		
	Flow (l/s)	Pre (Mpa)	Outlet Size (mm)	Distance (m)	Flow (l/s)	Pre (Mpa)	Hose Size (mm)		Flow (m <sup>3</sup> /h)	Head (m)	Outlet Size (mm)
D60SPK-F50	60	0.30	125	≥100	55	0.80	125*125	≥400	750	25	250

### Tech Data (scenario 2)

Model	Water Intake Module				Booster Module			Max Water Supply Distance (m)	Drainage Module		
	Flow (l/s)	Pre (Mpa)	Outlet Size (mm)	Max Water Intake Distance (m)	Flow (l/s)	Pressure (Mpa)	Hose Size (mm)		Flow (m <sup>3</sup> /h)	Head (m)	Outlet Size (mm)
D200SPK-F70	70*3	0.25	125	≥50	200	0.45	250	≥2000	750	25	250



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