

# SPECIAL ROBOTS



## ABOUT US

We are a China-based company with our origins in China.

Our R&D centers are located in Guangzhou and Hangzhou.

We specialize in developing innovative solutions for urban flooding.

Our advanced drainage robot series offers a groundbreaking experience.

We hold nearly 100 patented technologies in mainland China.

With over 10 years of hands-on experience, we are experts in tackling urban flooding challenges.

All our products have successfully passed SGS certification tests.

Our solutions are widely used across China.

By implementing our products, you can minimize losses and save more lives.

We aspire for Dotek's products to enhance safety and efficiency for you.



# DOTEK FAMILY



SMALL IS **BIGGER**

# DB MINI



## DB MINI

The **DB Mini Drainage Robot** is designed for frontline flood response, adhering to the concept of *Small is Big*, with a user-friendly design and revolutionary functionality for end users.

This compact robot weighs less than 500kg and can be remotely controlled for drainage and rescue operations. It efficiently pumps water down to a depth of just 2cm. Its lightweight design allows for easy transport via pickup trucks, enabling rapid deployment to rescue sites—ideal for use in streets, pedestrian tunnels, and underground garages.

Powered by a hydraulic system, the DB Mini is non-electrified, eliminating the risk of electrical leakage. Its remote control features a **digital water level display**, providing real-time monitoring of water level changes.

When fully fueled, the robot operates for **3-4 hours** and can wade through water depths exceeding **400mm**. It can also be deployed in series—either with multiple DB Mini units or alongside the **DB Original**, with up to **four units linked together**, achieving a **40-meter pumping head** for deep underground applications.

Additionally, the hydraulic output of the DB Mini can power various hydraulic tools, enhancing its versatility. It can begin pumping in water as shallow as **10cm**, making it highly effective for rapid flood response.

### Specification

Max Flow (m <sup>3</sup> /h)	>400
Max Head (m)	>12
Weight (kg)	<550
Dimension (mm)	<1500x1000x1000
Power of Engine (kw)	20
Fuel Tank (L)	30
Running Hour of Full (Hour)	3-4
Pump-end Size (mm)	200

# DB ORIGINAL



## DB ORIGINAL

The **DB Original Drainage Robot** embodies the concept of *Small is Big* with a user-friendly design and advanced mobility. Equipped with **crawler tracks**, it can move seamlessly through challenging terrains, including **going up and down stairs**, all controlled remotely.

Its **integrated digital display** provides real-time monitoring of **water level changes**, enhancing operational efficiency. With a **maximum wading capacity of 700mm**, the DB Original can navigate flooded areas with ease.

Powered by a **hydraulic system**, this innovative robot features a **unique TFS (Twice Filter System) design**, ensuring **no pump blockages, no electrical hazards, and no direct water contact**—keeping operators safe and dry.

Beyond drainage, its **hydraulic output** can simultaneously power **two hydraulic tools**, making it ideal for **earthquake rescue and demolition work**. It can also drive a **40-meter head water pump** for high-efficiency drainage. The DB Original is capable of pumping water as shallow as **10cm** and operates continuously for **7-8 hours** on a **70L fuel tank**.

For enhanced performance, it can be deployed **in series with the DB Mini Drainage Robot**, achieving a **pumping head exceeding 20 meters**—effectively solving drainage challenges in **deep underground spaces and long-distance operations**.

### Specification

Max Flow (m <sup>3</sup> /h)	>550
Max Head (m)	>10
Weight (kg)	<850
Dimension (mm)	<1800x1200x1300
Power of Engine (kw)	27
Fuel Tank (L)	>70
Running Hour of Full (Hour)	7-8
Pump-end Size (mm)	200

# DB PLUS



## DB PLUS

The DB Plus Drainage Robot embodies the concept of *Small is Big*, integrating **nearly 100kW of diesel engine power** into the most compact design in the industry. It features a **user-friendly design, remote control operation, and crawler mobility** for enhanced manoeuvrability.

Designed with **cutting-edge innovation**, the DB Plus allows remote monitoring of **real-time pumping values, engine speed, and system performance**. It is equipped with an **all-digital hydraulic control valve** and an **AFC (Automotive Flow Control) System**, enabling seamless multi-robot operation with **automatic adjustments**. This breakthrough technology effectively addresses **ultra-long-distance drainage** and **high-head drainage** challenges during urban flooding, ensuring **optimized flow rate and increased pumping head**.

With a **maximum wading capacity of 700mm**, the DB Plus is equipped with **TFS (Twice Filter System)** and **GLS (Gravity Lift System)**, allowing **ultra-low water level drainage** while eliminating **pump blockages, electrical hazards, and water exposure** for operators.

Additionally, the DB Plus features **two built-in hydraulic outputs** with an **AFC (Automotive Flow Control) system**, which can **automatically adjust flow rates between 30-90 L/M** to power various hydraulic tools as needed.

Delivering **unparalleled technological advancements**, the **DB Plus Drainage Robot** significantly enhances drainage efficiency, making it a game-changer in urban flood response.

### Specification

Max Flow (m <sup>3</sup> /h)	>1000 x 2
Max Head (m)	>20
Weight (kg)	<2000
Dimension (mm)	<2000x1500x1500
Power of Engine (kw)	<100
Fuel Tank (L)	>70
Running Hour of Full (Hour)	3-4
Pump-end Size (mm)	250 x 2

# DR 468X



## DR 468X

**Innovative ergonomic design** allows for efficient **water squeezing while winding**, with a detachable rewinding hose for easy maintenance.

Constructed with **aluminum alloy die-casting**, ensuring a **compact, sturdy, and durable structure**.

Features a **unique electronic folding mechanism**—once folded, it becomes compact small enough for storage by the wall or **easy transportation by truck**.

Equipped with a **built-in low-voltage charger**, allowing safe charging similar to a mobile phone, with a **full charge time of 6-8 hours**.

**Integrated task lighting** on the handle enables operation **even in low-light conditions**.

Designed with a **sturdy frame and handle**, making **loading and unloading** quick and effortless.

### Specification

Weight (kg)	<130
Fold Dimension (mm)	<1500x850x400mm
Work Dimension (mm)	<1350x850x900mm
Size Compatible	4/6/8/10in. Hose
Length of Hose (m)	<30
Battery	Lithium Battery
Capacity of Battery (A-hour)	50
Continue Running (m)	3000

# DR 1012



## DR 1012

The **DR1012** is a **remote-controlled tape roller** specifically designed for **large-diameter hoses**. With an **ergonomic design**, it is compatible with **two hose sizes—10" and 12"**—and can seamlessly accommodate any type of **water tape connector**.

Its **simple and intuitive remote control** allows a single operator to efficiently **lay out and retrieve hoses**, significantly reducing the labor demands on rescue teams. This innovation **eliminates the inconvenience** of handling large hoses manually.

**Powered by a lithium battery**, the DR1012 not only winds the hose but also **simultaneously squeezes out residual water**, streamlining the process in **one efficient motion**. A task that previously required **at least six people** can now be effortlessly performed by just **one operator**.

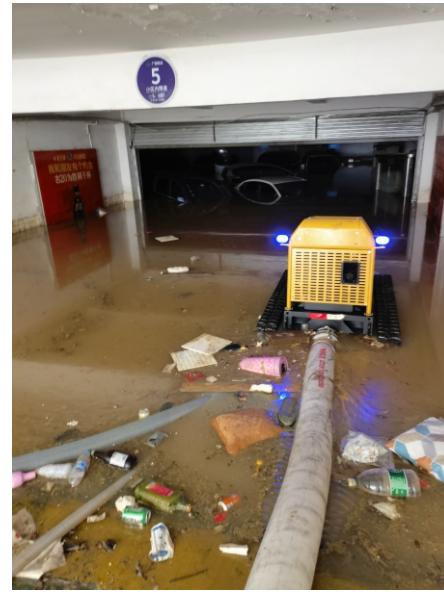
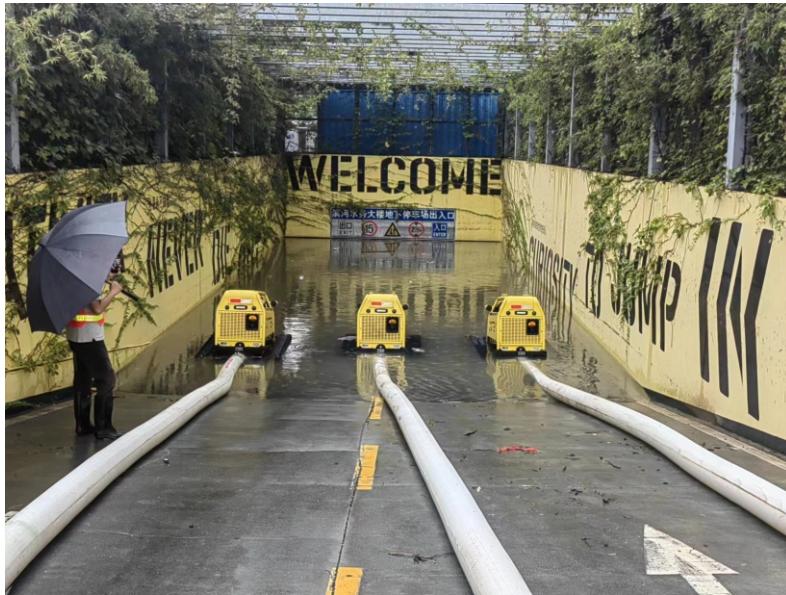
For example, a **30-meter DN300 water hose weighing 175kg** can be **coiled in just two minutes**. The **coiled hose is easily detachable**, allowing for quick reloading and continuous operation with the next hose.

### Specification

Weight (kg)	<360
Dimension (mm)	<1700x1300x900
Size Compatible	10/12/14in. Hose
Length of Hose (m)	<30
Remote Distance (m)	<12
Battery	Lithium Battery
Capacity of Battery (A-hour)	100
Continue Running (m)	3000 @ 12in Hose

# APPLICATION

## Past Deployment of ROBOTS in Urban Flooding Response



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