

## Soryu-C

### Explore harsh environments



#### HIGH TRACTION

To operate in mud and even under water



#### HIGH MOBILITY

In rough terrain, able to overcome obstacles of up to 300mm of height



#### REMOTE 3D MAPPING

To explore and generate maps of underground structures



#### COMPACT CONSTRUCTION

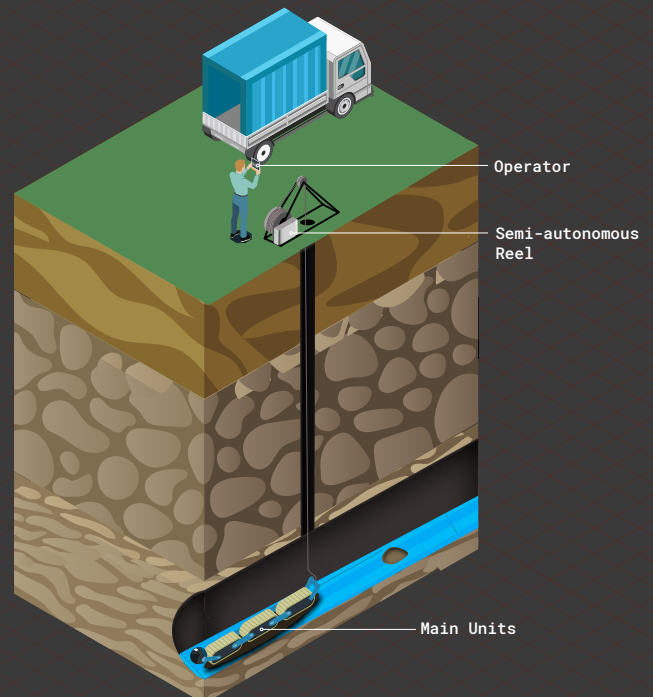
To pass through narrow entrances and gaps

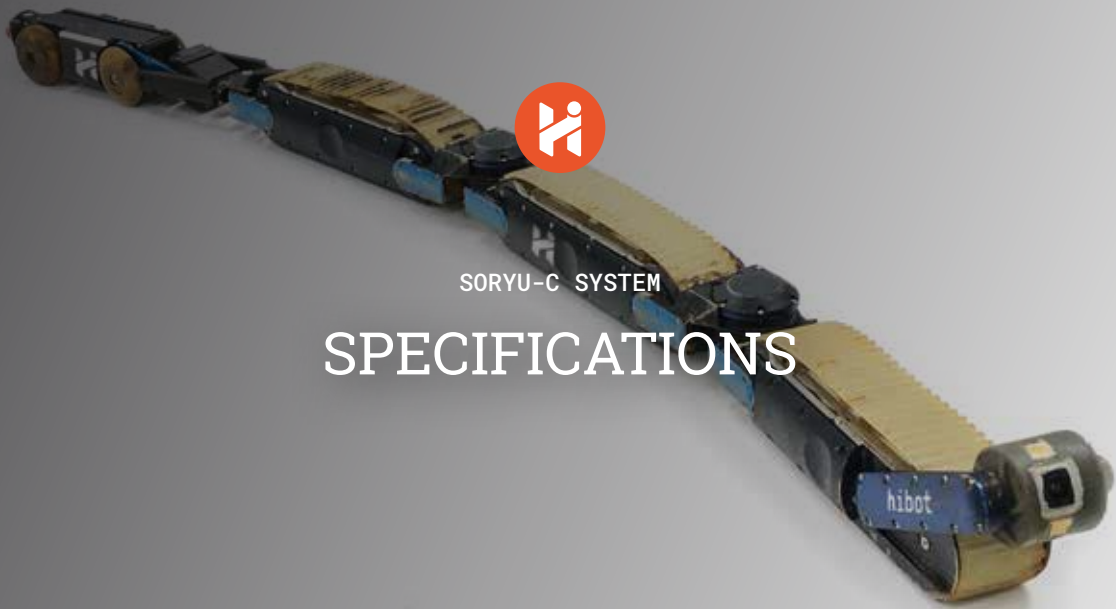
With high-torque traction modules, Soryu-C is able to move as far as 100m from the entrance point through mud, water, sand and over debris.

Soryu-C is a slender snake-like robot, designed for remote operation in uneven and unstructured environments. It can be inserted through openings as small as  $\varnothing 100\text{mm}$ , and move over highly irregular surfaces. The traction modules are sealed against dust and water, making Soryu-C able to operate in mud, water, sand and over debris. The main unit is equipped with two high-definition cameras that can be used for navigation and inspection of confined spaces.

One example of application is inspection of underground pipes. Soryu-C is lowered through a small vertical pipe by a semi-autonomous reel, until it reaches a pluvial drainage pipe. Then, Soryu-C moves against the flowing water, inside mud and overcoming rocks and other obstacles, while acquiring images of the pipe wall with its high-definition cameras.

With its high-torque traction modules and smart control of the tether tension, Soryu-C is able to move as far as 100m from the entrance point.

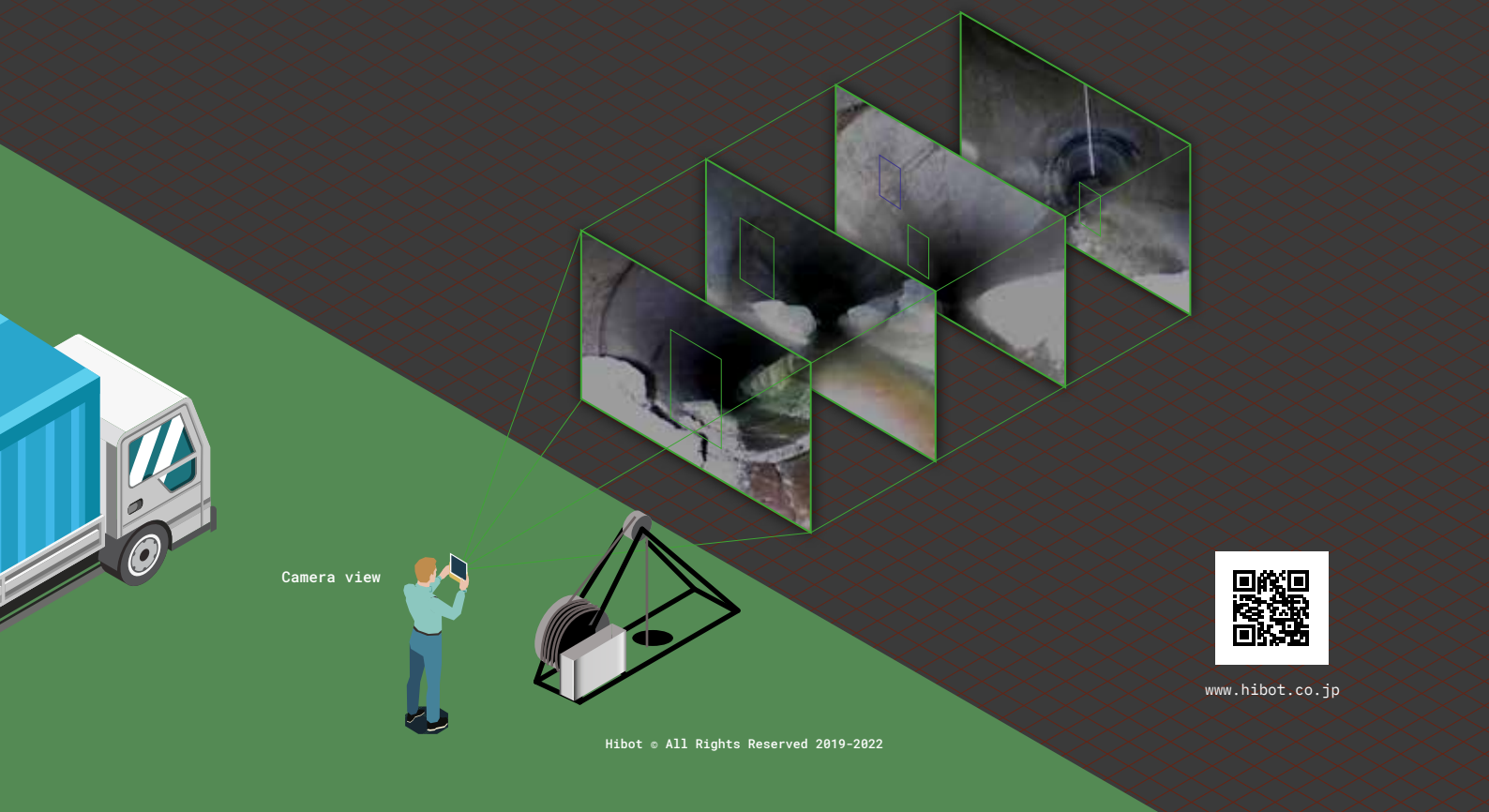




SORYU-C SYSTEM

# SPECIFICATIONS

<b>Main Unit</b>	Dimensions	1720mm x 94.5mm x 79.5mm
	Mass	10.5kg
	Traction Force	49N
	Speed	100mm/s
	Protection level	IP 67 (dust-tight; immersion-proof for up to 1m for 30min)
	Tether length	150m
<b>Semi-autonomous Reel</b>	Dimensions	570mm x 430mm x 490mm
	Mass	25.9kg
	Maximum tension	470N
	Control	Remote control for tether feeding and winding
	Protection level	IP 54 (dust protected; splash-proof)
	Power	100V AC, 240W



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