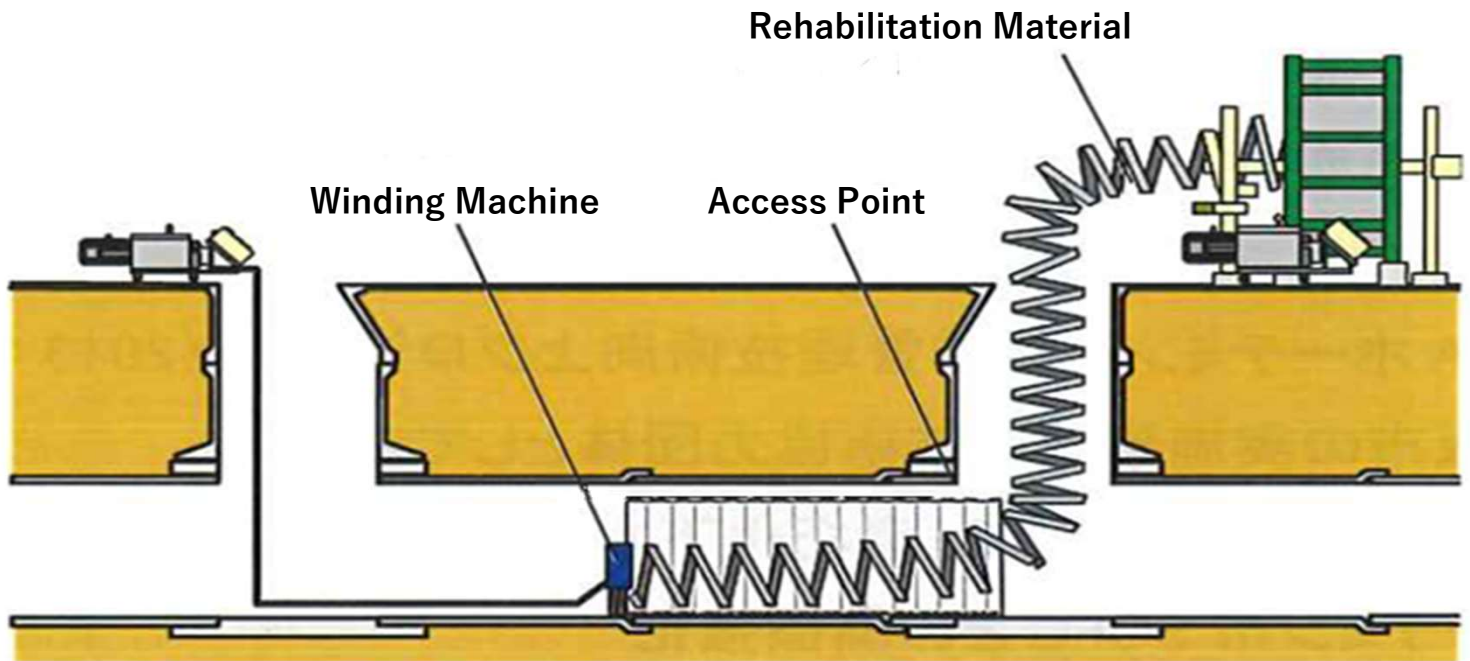


The Sewer Pipe Rehabilitation method for Non-circular shape

Implementing Organization : Under the joint name of;

- SEKISUI CHEMICAL CO.,LTD
- JAPAN SEWAGE WORKS AGENCY

Diagram of Rehabilitation Method :



Outline of technology

Sewer pipe rehabilitation method is a trenchless technology used to restore the structural integrity and hydraulic performance of aging or damaged sewer pipes without excavation. This method is widely applied to address problems (e.g. corrosion, cracking, joint displacement, infiltration, and root intrusion), which can become losing reliability and service life of underground sewer pipe as infrastructure.

This rehabilitation process of spiral wound technology typically begins with cleaning and detailed inspection of the existing pipe. After this process, the self-running winding machine will be inserted into the damaged host pipe part and according to shape and size arranged. The special PVC-U profile as rehabilitation material will be delivered on spools to the construction site. The rehabilitation pipe will be spirally formed by the arranged winding machine with live flow. The single profile can be joined together which make the rehabilitation in long intervals possible. The calculated space between host pipe and rehabilitation pipe will be filled with a specific grout for integration.

The resulting rehabilitation pipe provides improved structural strength, leak resistance, and long-term durability with excellent flow characteristics and high sealing from outside of pipe to this rehabilitation pipe.

Features of the technology

- ① Minimizing the impact of social activates like traffic jams during construction because of no excavation of public spaces
- ② Any time work to be interrupted and restarted with live flow in the pipe
- ③ Improving flow capacity after the rehabilitation because of smooth surface of PVC rehabilitation pipe
- ④ Available to be rehabilitated any shapes (large DN, BOX, Egg, etc.)

Dimensions of demonstrational technology

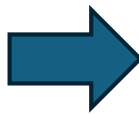
	Host Pipe	Rehabilitation Pipe
Shape (mm)	H1536 x W1766 x W2578	H1491 x W1721 x D578
Length (m)	L=24.8	L=25.8
Note	-	incl. extra length for pipe

Image view of the demonstrational technology

City & Country: Ho Chi Minh City, Vietnam
View of demonstration (Before and After):



**Host Pipe
(Before)**



**Rehabilitation Pipe
(After)**

WOW TO JAPAN Project (Wonder Of Wastewater Technology Of JAPAN Project)

Sekisui Chemical CO. Ltd conducted a demonstration in 2017 as part of the Ministry of Land, Infrastructure, Transport and Tourism's "WOW TO JAPAN Project (Wonder of Wastewater Technology of JAPAN Project)."