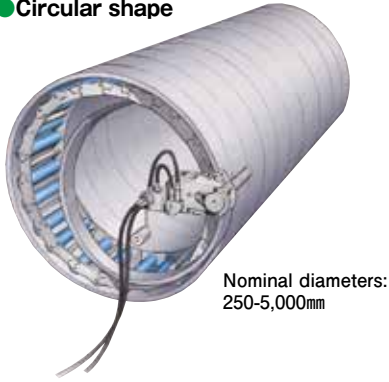


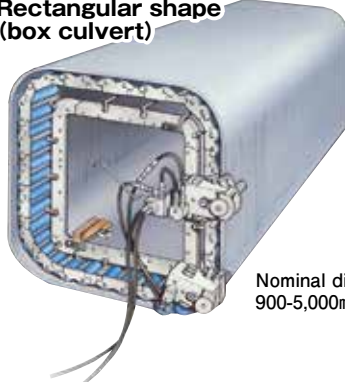
*This method rehabilitates aged sewer pipeline by making new PVC pipe inside of host pipe.*

● **Circular shape**



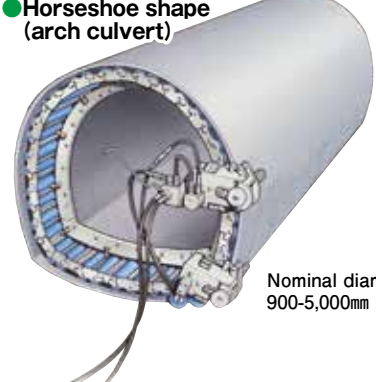
Nominal diameters:  
250-5,000mm

● **Rectangular shape (box culvert)**



Nominal diameters:  
900-5,000mm

● **Horseshoe shape (arch culvert)**

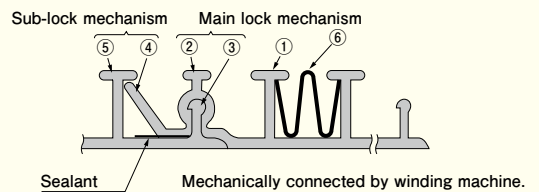


Nominal diameters:  
900-5,000mm

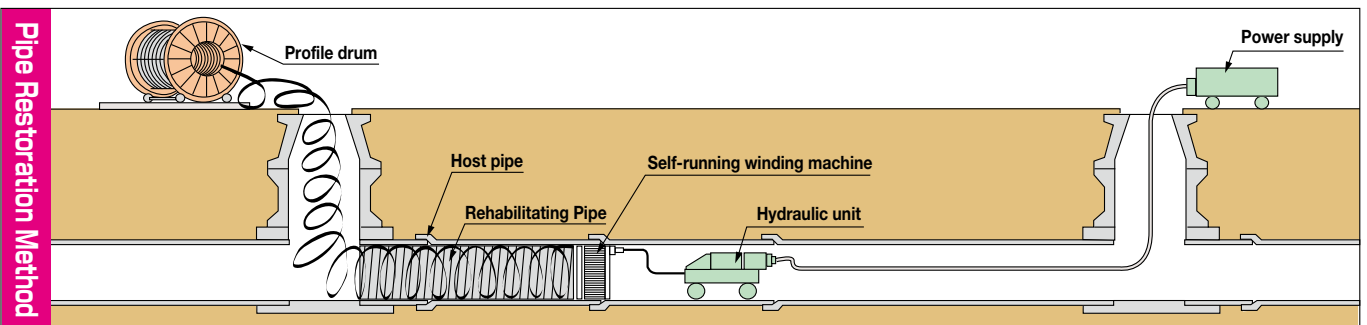
### Features

- Can rehabilitate circular and non-circular cross sections
- Able to wind dimensions up to 5,000mm
- Environmentally friendly, minimising generation of industrial waste
- Able to install in flow, minimising bypass pumping
- Truly trenchless. Requires only standard manhole entry
- Over 900km installed worldwide
- Improved flow capacity due to the superior roughness coefficient of PVC
- Profiles available for a wide range of applications including curves & bends

### Profile Engagement Mechanism



- ① I-beam structure rib portion
- ② Female portion for main lock
- ③ Male portion for main lock
- ④ Male portion for sub-lock
- ⑤ Female portion for sub-lock
- ⑥ Steel reinforcement

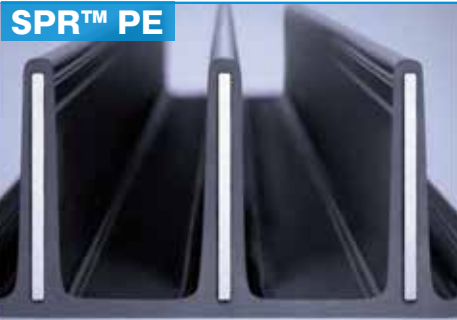


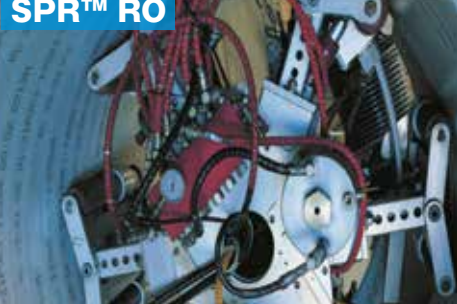


Joint Development Among;

## Line up of Spiral Wound Technologies

	SPR™	SPR™ PE	SPR™ EX	SPR™ ST	SPR™ RO
Diameter	250 - 5,000mm 10 - 200 in.	900 - 3,000mm 36 - 120 in.	150 - 1,050mm 6 - 42 in.	450 - 2,500mm 18 - 98 in.	800 - 1,800mm 32 - 72 in.
Material	PVC	HDPE	PVC	PVC	PVC
Shape	circular, non - circular, custom shape	circular	circular	circular	circular
Installation	fixed diameter	fixed diameter	close fit	fixed diameter	close fit

## Features

 <p><b>SPR™ PE</b></p>	<ul style="list-style-type: none"> <li>● Structural liner, strong and lightweight</li> <li>● Manufactured from pipe grade high density polyethylene [HDPE] with embedded steel reinforcing</li> <li>● Steel dimensions can be varied to customise pipe stiffness</li> <li>● Diameters from 900mm to 3,000mm using three HDPE profiles</li> <li>● Suitable for gravity flow sanitary sewer and stormwater pipelines</li> <li>● WRc Approved™ [PT/295/0110]</li> <li>● Compliant with ISO 11296-7</li> </ul>
 <p><b>SPR™ EX</b></p>	<ul style="list-style-type: none"> <li>● Structural liner, strong and lightweight</li> <li>● Close fit with the host pipe</li> <li>● Diameters from 150mm to 1,050mm using only six profile types</li> <li>● Manufactured from pipe grade PVC</li> <li>● Suitable for gravity flow sanitary sewer and stormwater pipelines</li> <li>● WRc Approved™ [PT/305/0710]</li> <li>● Compliant with ISO 11296-7 and ASTM F1697</li> </ul>
 <p><b>SPR™ ST</b></p>	<ul style="list-style-type: none"> <li>● High stiffness structural liner</li> <li>● Fixed diameter</li> <li>● Diameters from 450mm to 2,500mm using two profile types</li> <li>● Manufactured from pipe grade PVC with steel stiffening elements</li> <li>● Suitable for gravity flow sanitary sewer and stormwater applications</li> <li>● Cell Classification of 13354 in accordance with ASTM D1784</li> <li>● WRc Approved™ [PT/304/0710]</li> <li>● Compliant with ISO 11296-7 and ASTM F1697</li> </ul>
 <p><b>SPR™ RO</b></p>	<ul style="list-style-type: none"> <li>● Structural liner</li> <li>● Close fit with the host pipe</li> <li>● Diameters from 800mm to 1,800mm using two profile types</li> <li>● Manufactured from pipe grade PVC</li> <li>● Suitable for gravity flow sanitary sewer and stormwater applications</li> <li>● WRc Approved™ [PT/311/1110]</li> <li>● Compliant with ISO 11296-7 and ASTM F1697</li> </ul>



**Sekisui Chemical Co., Ltd.**

Urban Infrastructure & Environmental Products Company

● Overseas Pipeline Renewal Division Tel : +81-3-5521-0574, Fax : +81-3-5521-0557  
E-Mail : info-sekisui\_spr@sekisui.com  
Website : www.eslontimes.com/en