Perma-Liner Industries (Singapore) Pte Ltd

Established 2014 Headquartered in Singapore

Robotic CCTV inspection, cleaning and trenchless rehabilitation for sewers, drains, water mains and industrial pipelines, delivered from our Singapore headquarters and regional teams in India and the Middle East.

OVERVIEW

Perma-Liner Industries (Singapore) Pte Ltd is a trenchless pipeline inspection and rehabilitation specialist, founded and headquartered in Singapore since 2014.

From our Singapore headquarters we provide engineering, technology, equipment and quality support to our regional teams at Perma-Liner India and Perma-Liner UAE, and to projects across Southeast Asia.

We help utilities, authorities, contractors and industrial owners assess and renew sewers, drains, water mains and process pipes without open excavation.



Sewer lining crew at work behind safety barriers in a Singapore housing estate.

DN50 – DN6000	DN100 – DN3000	WRC · EN 13508-2	Survey to handover
Inspection range, from building drains to deep tunnels	Lining range across CIPP, UV CIPP, SIPP and spiral-wound	Defect coding to the standard you specify	Inspect, clean, rehabilitate, verify

CORE CAPABILITIES

Inspection & condition assessment

10 TECHNOLOGIES

Robotic and camera-based inspection of sewers, drains, culverts, manholes and pressurised mains, with coded defect reports.

- Robotic CCTV crawlers
- Push-rod cameras
- Manhole zoom camera
- Sonar and floating inspection
- Laser and LiDAR profiling
- Manhole 3D scanning
- Pre- and post-laying CCTV
- 3D gyroscopic mapping
- In-line inspection of live mains
- Leak detection and pressure testing

Rehabilitation & lining

8 TECHNOLOGIES

Structural and semi-structural renewal of gravity pipes and chambers from existing access, and lining and sealing systems for pressure and drinking-water pipelines.

- Cured-in-place pipe (CIPP)
- UV light-cured lining
- Spiral-wound lining
- Lateral lining and point repair
- Manhole and tank rehabilitation
- Spray-in-place pipe (SIPP)
- Pressure pipe lining
- Internal joint seals

Cleaning & support

6 TECHNOLOGIES

The preparation, robotic and survey work that makes inspection and lining possible.

- Robotic cutting and reinstatement
- Cleaning, jetting and descaling
- Bypass and flow diversion
- GPR, cable detection and trial trenches
- Underwater and confined-space drones
- Equipment and materials supply

SECTORS AND CLIENTS WE SERVE

- Water and wastewater utilities
- Municipal and public authorities
- EPC, main and civil contractors
- Oil, gas, refining and petrochemicals
- Power, ports and industrial plants
- Developers, housing and facility managers

SELECTED PROJECT EXPERIENCE



REHABILITATION · SINGAPORE

16 km of drain-lines, relined beneath busy housing estates

Length: About 16 km
Pipe: 150 mm to 300 mm
Method: CIPP, patch and pull-in lining

Trenchless renewal of sanitary drain-lines, carried out while residents went about their day. Each line was cleaned and inspected by CCTV, relined, and inspected by CCTV again after lining.



REHABILITATION · SINGAPORE

10 km of trunk sewer, relined with the flow still running

Pipe: 600 mm to 2.2 m diameter
Method: Spiral-wound PVC lining
Flow: Kept live

A PVC profile strip, wound in with steel reinforcement, forms a new pipe that advances along the old sewer while it stays in service. Every lined length is checked by CCTV.



INSPECTION · CITY CENTRE

800 m of live water main inspected in two days, with no shutdown

Pipe: DN700 to DN1200
Length: About 800 m
Method: In-line inspection, live main

A tethered probe went in through an air valve and travelled with the flow, sending back live CCTV and leak data. The survey found possible leaks and air pockets. Water supply was not interrupted.



INSPECTION · MIDDLE EAST

1.8 km of DN400 transmission main inspected through a 130 mm opening

Pipe: DN400 ductile iron
Section: 1,764 m
Access: DN150 air valves

Visual inspection and acoustic leak detection through existing air valves. The survey reported six medium-level acoustic indications for verification, along with areas needing cleaning.

Selected projects delivered by Perma-Liner Singapore. Figures are taken from the project records. Client and site names are withheld.

HOW WE WORK

01
Inspect
Pre-condition CCTV, manhole survey, defect coding and flow assessment.

02
Clean
High-pressure jetting, debris removal and root cutting, with flow control agreed with the asset owner.

03
Rehabilitate
A liner designed for the host pipe's condition, installed by inversion, pull-in-place or spiral winding, then cured.

04
Verify
Reinstatement, post-installation CCTV, leak and air testing, and as-built records.

SAFETY AND QUALITY

Safety is non-negotiable
Every crew goes home safe. Every site is controlled.

Quality defines us
Every liner, test and handover is to standard. Each liner is designed to the structural class the host pipe demands.

Controlled work areas
Confined-space entry under permit, with gas monitoring and forced ventilation. Work fronts kept compact and barricaded.

Clear records
Coded condition reports to WRC or EN 13508-2, or the format your consultant or authority requires.

Talk to us about your pipeline.

Send us the pipe size, material, length and the problem you are seeing.

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