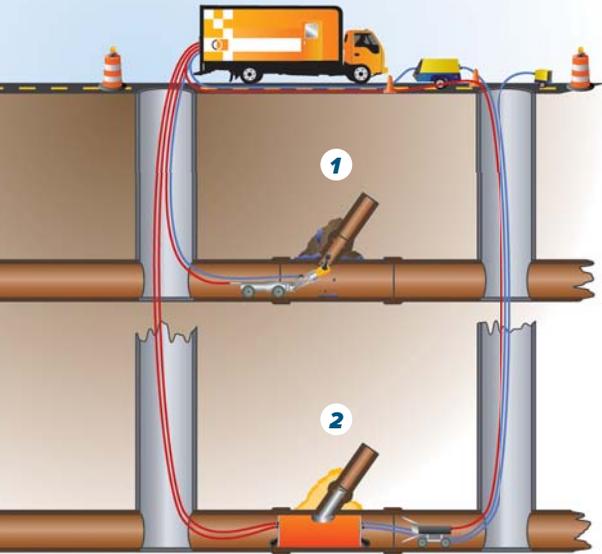


Janssen Process™

Structural Renovation for Lateral Connections.



Janssen Process is the only no-dig remedy addressing the underlying cause of lateral connection failures: inadequate bedding and structural support. Fast-curing resins are robotically pressure-injected into the cavities around a lateral, creating bedding that permanently eliminates root intrusion, infiltration and voids. It also seals the liner to the mainline at the lateral interface, preventing seepage between the two.

Using Janssen Process, a single truck renovates more laterals per day than conventional methods. No line plugging or traffic disruption is needed, and significantly reduced failure risk means excavation is highly unlikely. Repair longevity has been documented to 25 years, but is estimated to be 60-80 years. While far more durable than other rehab methods (and thus easier to warranty), this Janssen Process remains cost-competitive in terms of both capital equipment and consumables.

In Europe, Janssen Process has renovated tens of thousands of laterals over the last 25 years. It is new to the North American market, and is currently licensed by Reynolds Inliner and Pleasants Construction, both of whom rehabilitate lateral connections for clients in the mid-Atlantic, including Washington Suburban Sanitary Commission.

- 1 Before rehabilitation begins, a robotic cutter mills a gap between the lateral and mainline.
- 2 A robotic packer is winched into position, where it isolates and pressure-seals the lateral/mainline gap to the first joint of the lateral. The packer then injects a fast-curing resin that bonds with milled pipe walls, fills gaps and re-establishes bedding support. After the 20-minute cure is complete, onboard cameras are used to verify the seal.

city benefits

- Structurally addresses the primary cause of lateral failure: inadequate bedding.
- Permanently solves infiltration, root intrusion and ground cavity problems.
- Requires no traffic interruption or line plugging.
- Prevents future sink holes.
- Lasts 60-80 years (oldest proven technology).

contractor benefits

- Cost-competitive with less-durable, less-productive solutions.
- A turn-key profit center based on accepted technology with proven growth potential.
- Requires fewer crew members and less related equipment than competing processes.
- Uses stabler, easier to handle materials.