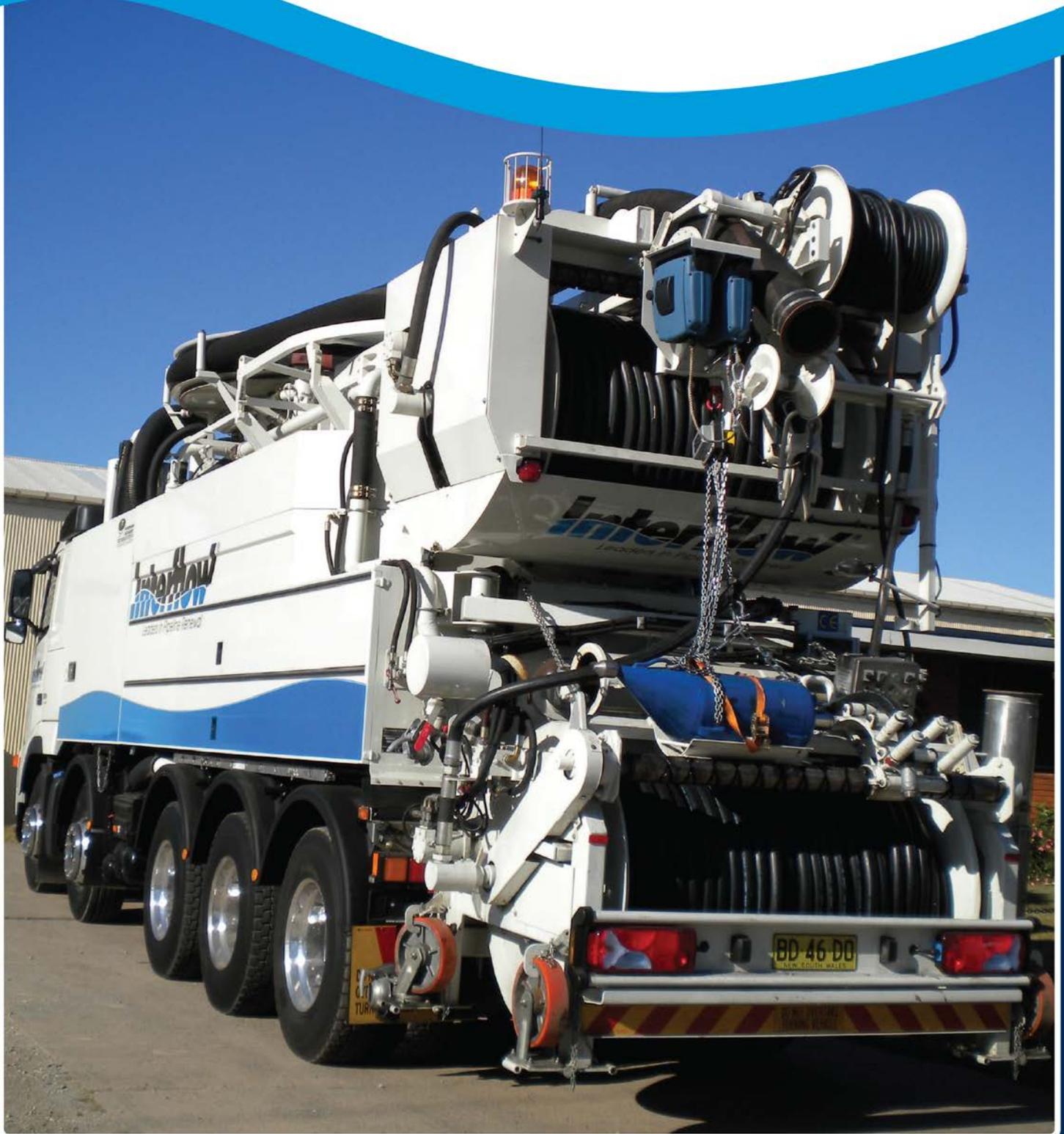


# Interflow<sup>®</sup>

## Recycler

### Combination Cleaning Units



# Recycler

The use of large volumes of potable drinking water to clean and de-silt wastewater pipes is becoming an increasingly sensitive environmental issue for water authorities.

Interflow's Recycler combination cleaning units (Recyclers) draw wastewater from inside the pipe, recycle it, and then use it to clean the pipeline.

Interflow has three Recycler models in operation:

- Super 1000 – capable of cleaning pipes up to DN750
- Super 2000 – capable of cleaning pipes up to DN1500
- Super 3000 – ideal for cleaning large pipelines and for extracting large volumes of silt

Each Recycler is equipped with a high-performance vacuum pump, which draws existing water from inside the pipe. The water is then continuously recycled through five different tanks onboard the structure. Any debris and silt is collected in a separate silt tank. An onboard pump is then used to return the recycled water back into the pipe at high pressure for cleaning. The combination of high-jetting pressure and flow capacity enable even the largest pipelines to be cleaned quickly and efficiently, and extracted silt is collected inside onboard storage tanks.



The Super 1000 is capable of cleaning pipes from DN150 to DN750.



The Super 2000 is capable of cleaning pipes from DN150 to DN1500.



The Super 3000 is suitable for clearing pipelines to DN3000 and beyond.

## Minimal water wastage

A conventional jetting operation can use up to 20,000 litres of potable water per day to clean sewer pipes – a wasteful use of a valuable resource. However, Interflow's Recyclers can clean sewer pipelines without using potable water. This amounts to a saving of as much as 10 megalitres, or the average water consumption of 50 households, per annum. The benefits of this saving is especially relevant in remote locations where potable water is limited.

## Powerful cleaning of large-diameter pipes

Interflow's Super 3000 Recycler is fitted with a high-performance pump, which can produce jetting pressures of up to 2500psi and a flow rate of over 800 litres per minute. This makes it the largest Recycler in Australia and the output is almost double the capacity of pumps commonly fitted on conventional jetters. This cleaning power means very large diameter pipes and culverts can be cleaned where smaller jetter units would otherwise be slower or ineffective.

## Rapid silt removal

Interflow's Recycler trucks are also mobile continuous de-silting plants, which makes them suitable for extracting large volumes of silt from a single location.

In de-silting contracts, where rates are based on tonnage of silt removed from the pipeline, the dryness of the silt extracted is of importance to most authorities. Interflow's Recyclers extract silt at 'spade-dry' quality, which ensures you get the best value for money.

The Recyclers are fitted with:

- High-performance vacuum pumps that are used to extract the silt from the pipeline
- On-board silt storage tanks, which means more time can be spent on silt extraction and less time is spent carting the spoil away

The Super 3000 is able to empty the processed silt into an appropriate waste bin on site, so the unit does not have to leave the site to empty its silt tank. This results in higher productivity and less time on the site.

## The environment

Cleaning and de-silting the sewer pipes is beneficial to the overall network and the environment. Cleaning restores the hydraulic capacity of the pipe and reduces the potential for surcharges and overflows.

Interflow's Recyclers make the cleaning process more efficient and, by using water from inside the sewer, there is no consumption of potable water.



After cleaning, the pipe walls are clear and smooth and the hydraulic capacity of the pipe is restored.

## Community

Using Recyclers ensures minimal community disruption:

- The cleaning and silt extraction process is fast which means less time on site and less disruption to local traffic.
- There is no need to transport potable water to site or connect hoses to hydrants, so there is less disruption to local residents.
- The pipeline can often be cleaned from a single access chamber so there are fewer site setups required.
- The units are sealed, so there are minimal odours emitted at the worksite.

## Safety

Ensuring safety for its staff and the community is central to all aspects of Interflow's business.

The Recyclers reflect this. Silt and solids are removed by vacuum and collected inside fully enclosed and sealed tanks while the pipe is being cleaned, so there is no need for manual handling of waste material or for workers to enter the pipeline.

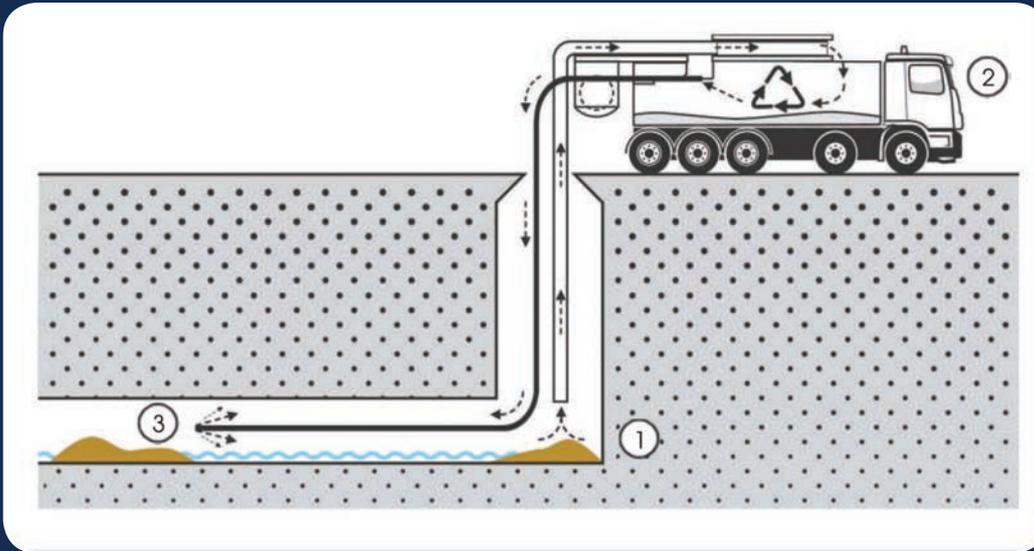
The Recyclers are fully automated so operators can control the operation from a control panel and there is less need for manual handling of heavy hoses and vacuum lines.



## Recyclers

The leading pipeline cleaning technology from the leaders in pipeline renewal.

## Recycler cleaning process



- 1 Sewer water and silt is extracted via vacuum.
- 2 Recycler Combo Cleaner Unit. The dirty sewer water is collected and recycled. Silt and solids are collected inside the unit. The recycling, silt removal and cleaning process is continuous.
- 3 Recycled water is returned to the jetter nozzle at high pressure for cleaning.

## Experience

Interflow has been cleaning and renewing pipelines since 1991. When it comes to pipeline maintenance, pipe cleaning, or de-silting our Recyclers enable us to offer an efficient and environmentally friendly method of cleaning and de-silting wastewater pipelines.



The silt that is collected during the cleaning operation can either be emptied directly into a waste bin on site (Super 3000 – Photo A) or tipped at an appropriate waste facility (Super 2000 – Photo B).

# Interflow®

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