

District heating pre-insulated pipe handling and pushing

Steve Vick International (SVI) and REHAU have an innovative partnership, aimed at advancing district heating infrastructure. SVI offers a range of trailers, pipe handling and pushing equipment, while REHAU specialises in supplying pre-insulated polymer pipes, collectively supporting the transportation and installation of coiled pipes essential for district heating systems.

District heating is a centralised approach to supplying heat to numerous properties, encompassing residential, commercial, and multi-occupancy structures. Any heat source can be used but the trend is for new low carbon technologies such as large-scale heat pumps and waste heat.

The core of district heating networks comprises underground pre-insulated pipe networks, facilitating the efficient transport of hot water to Heat Interface Units (HIUs) within buildings. HIUs regulate temperature and distribute hot water for heating and domestic use, while the return flow of cooled water completes the cycle back to the energy centre for reheating and redistribution.

SVI's equipment and REHAU's pre-insulated pipes combine to optimise the installation and operation of

district heating systems, enhancing efficiency and durability. This collaborative effort aims to elevate the technical capabilities of district heating infrastructure, emphasising reliability and sustainability for modern energy solutions.

The SVI Pipe Coil Trailers offer efficiency and ease of dispensing for REHAU's pre-insulated pipes. Offering a safe way to transport, store and dispense coiled PE.

Safety is paramount in the design of SVI's trailers. That's why they have been so popular with utility companies and contractors for nearly 40 years.

The coil is restrained within the frame of the trailer to prevent it 'springing away' and pipe is restrained during transport and dispensing.

The central drum design ensures smooth, easy dispensing. All loading and dispensing procedures are operated from ground level. Trailers are robust in construction, maintenance requirements are low, and the trailers can be towed by commercial vans and pickup trucks.



GAS



WATER



NUCLEAR



CONTRACT SERVICES



SMARTESTER



HIRE



FUTURE ENERGY



125/160 Pipe Coil Trailer

The 125/160 Pipe Coil Trailer handles UNO and DUO coils of pre-insulated pipe with an outer jacket diameter from 90mm to 225mm.

*This is based on the maximum coil width being no greater than 1.0m.



Coil Carry Capacity	
Maximum Coil Outside Diameter	3.3m
Minimum Coil Inside Diameter	0.8m
Maximum Coil Width	1.0m*

Trailer Dimensions	Unloaded	Loaded with 3.3m O.D. Coil
Overall Length	4.5m	4.5m
Overall Width	2.3m	2.3m
Overall Height	3.2m	3.7m

Trailer Weight	
Un-laden (Design Weight)	800kg
Maximum Gross Weight	1700kg
Maximum Payload	900kg

180 Pipe Coil Trailer

The 180 Pipe Coil Trailer handles UNO and DUO coils of pre-insulated pipe with an outer jacket diameter from 90mm to 225mm.

*This is based on the maximum coil width being no greater than 1.0m.



Coil Carry Capacity	
Maximum Coil Outside Diameter	4.21m
Minimum Coil Inside Diameter	0.8m
Maximum Coil Width	1.0m

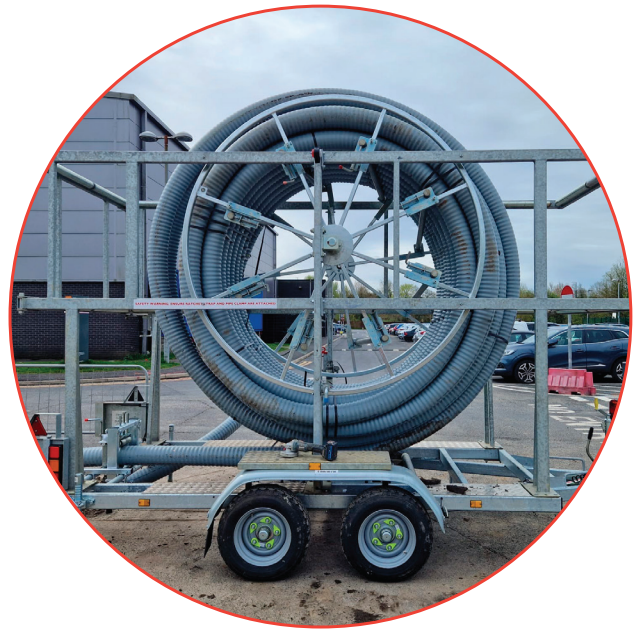
Trailer Dimensions	Unloaded	Loaded with 4.21m O.D. Coil (Will not exceed max O.D. of 4.21m)
Overall Length	5m	5m
Overall Width	2.3m	2.3m
Overall Height	3.4m	4.5m

Trailer Weight	
Un-laden (Design Weight)	1020kg
Maximum Gross Weight	2600kg
Maximum Payload	1580kg

180mm Super Pipe Coil Trailer

The double-axle 180 trailer handles UNO and DUO coils of pre-insulated pipe with an outer jacket diameter from 90mm to 225mm.

*This is based on the maximum coil width being no greater than 1.0m.



Maximum Coil Dimensions	
Maximum Coil Outside Diameter	4.3m
Minimum Coil Inside Diameter	0.8m
Maximum Coil Width	1.3m

Maximum Coil Length

Trailer Dimensions	Unloaded	Loaded with 4.3m O.D. Coil (Will not exceed max O.D. of 4.3m)
Overall Length	5.3m	5.3m
Overall Width	2.3m	2.3m
Overall Height	3.4m	4.6m

Trailer Weight	
Un-laden (Design Weight)	1360kg
Maximum Gross Weight	3500kg
Maximum Payload	2140kg

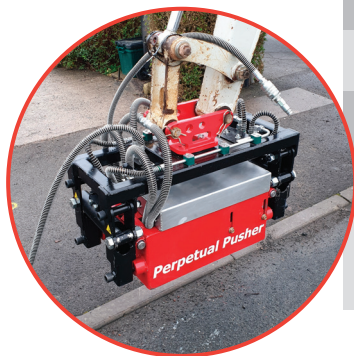


Trailer Benefits

- **Speed of use** – unique central drum design ensures pipe is dispensed / recoiled smoothly and quickly.
- **Environmentally friendly** – pipe may be easily re-wound to save unused pre-insulated pipe.
- **Compatibility** – capable of being towed by commercial vans and pickup trucks.
- **Ease of use** – no need for operatives to step or climb onto the frame. Easy to manoeuvre and transport.
- **User Safety** – No need for operatives to put hands within the rotating drum at any stage. The leading end of pre-insulated pipe is anchored to the frame during transport. The tail end can be secured to the trailer with the SVI Test End and Pipe End Clamp for ease of dispensing to avoid operative injury.

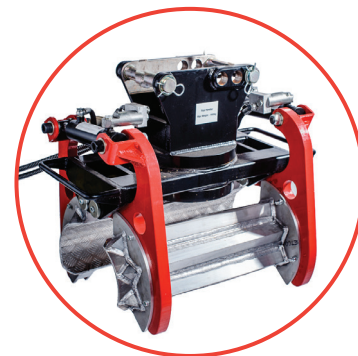
Pipe Handling Equipment

The Perpetual Pipe Pusher is an excavator attachment used to continuously insert coils of pre-insulated pipe up to 162mm using hydraulically driven rubberised rollers. The Perpetual Pipe Pusher pushes at speeds of 25 metres per minute. Once the attachment is correctly positioned in the trench, the excavator arm remains static throughout the insertion.



Midi Pipe Handler designed to fit a 3-tonne excavator; the Midi is ideal for inserting sticks of PP-R District Heating pipe from 160mm – 180mm.

Large Pipe Handler is the original excavator mounted pushing machine designed to insert and manoeuvre sticks of PP-R District Heating pipe from 250mm – 315mm. Fits 5-11 tonne excavator.



Technical specifications

Pre-Insulated Pipe Sizes	91mm – 162mm O/D
Functions	Grip, forward and reverse operations
Top Bracket Pins	25mm, 30mm and 34mm pins (2 of each) (adaptors available for larger excavators)
Hydraulic Fittings	Typically, 3/8" and 3/4" flat face quick fit couplers

	Midi Pipe Handler	Large Pipe Handler
Sticks of PP-R District Heating pipe sizes	160mm – 180mm	250mm – 315mm
Functions	Grip/release – PP-R District Heating pipe is inserted or retracted using excavator arm	Grip/release – PP-R District Heating pipe is inserted or retracted using excavator arm
Top Bracket Pins	25mm, 30mm and 34mm pins (2 of each) (adaptors available for large excavators)	25mm, 30mm and 34mm pins (2 of each) (adaptors available for large excavators)
Hydraulic Fittings	Typically, 3/8" and 3/4" flat face quick fit couplers	Typically, 3/8" and 3/4" flat face quick fit couplers

For more information on REHAU's district heating pipework, please visit www.rehau.uk/districtheating or email enquiries@rehau.com.

About Steve Vick International

We are experts in innovative engineering for trenchless renovation and decommissioning of pipes worldwide.

Since our foundation in 1981, we have been dedicated to delivering cost-saving solutions for damaged, redundant or outdated underground pipe work. We are at the forefront in developing products and techniques across gas, water, nuclear and contract service sectors on a worldwide basis.

We are proud of our reputation for innovative product development, strong technical support and after sales care.

For more information on any of the products and services featured here, please contact: info@stevevick.com



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