



**InfinitPipe®**

**A Breakthrough for the Pipeline Infrastructure  
Construction and Repair Industry**

*Mo Ehsani, PhD, PE, SE*

*Bahira Abdulsalam PhD EIT*

**Patent Pending Application by Prof Mo Ehsani**

*Moving the worlds infrastructure forward*

## **Abstract**

InfinitPipe ® is a great unique composite pipeline product. The product road map will be focused on a simple powerful idea based on InfinitPipe ® a patent pending application. The simple nice model of onsite manufacturing of composite joint less InfinitPipe®.

*InfinitPipe®* is the latest revolutionary product developed by Professor Ehsani that allows construction of a pipeline of virtually any size and shape on-site! Most pipes manufactured to date require extensive heavy equipment that necessitates manufacturing in a plant. The pipe sections are typically made in pieces and shipped to the job-site for assembly in the field. This adds significant transportation and installation costs. Worst of all, joints are the weakest link in the pipe where water, gas or oil can leak and cause environmental damage. For sewer pipes, these joints become a source of penetration of roots and a constant maintenance expense. This pipe is corrosion resistant, stronger than steel and light weight. Manufactured onsite with no joints.

Our technology is mainly concerned about environmental protection, high efficiency, green industry and lower carbon foot print. Our team of engineers and professional is extremely excited about the strategy of the company. Innovation is our key aspect and we are focusing on what the customer needs. *InfinitPipe®* will be custom designed and fabricated to satisfy the pressure and loading requirements of each project on a case by case basis. This will not only allow catching up the Industry, it is rather breaking a new ground in pipeline Industry which is planned to happen in the coming few months. InfinitPipe® is a great innovation that needs investment and caring. Our target is not to provide only a new innovative solution to overcome pipeline problems for Pipeline construction and rehabilitation. However we need to clarify the point that through this invention we honor environmental protection efforts and green industry. Our core value to move forward with this innovation from dream to reality is that we believe that people with passion can change

the world forever. “Those people who are crazy enough to change the world are the people who actually do”. We honor those people who are working hard to change the world and move it forward. To transfer this dream into reality **InfinitPipe®** Company will be established. Figure 1 shows the first prototype of the mobile manufacturing unit of **InfinitPipe®**.

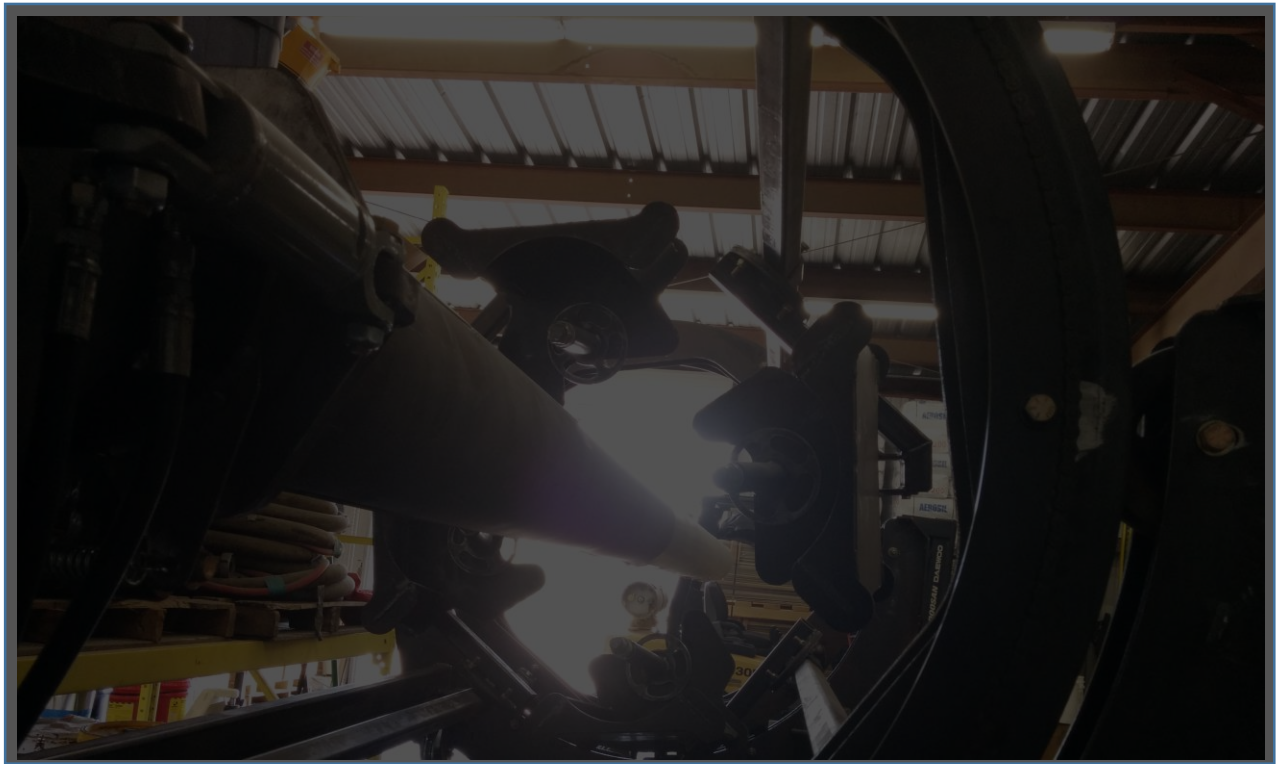


Figure 1 First Prototype of the MMU (Mobile Manufacturing Unit) InfinitPipe®

## **InfiniTipe® Company Description**

InfiniTipe®, Inc. is a leading designer, supplier, and installer of Infinite Pipes Fiber Reinforced Polymer (FRP) for pressure and non-pressure and repair applications. The company is also a pioneer research and development firm committed to providing economical solutions and unparalleled pipeline services to engineering projects and pipeline agencies. The company is based in Tucson Arizona USA. Our staff includes structural, geotechnical, pipeline and mechanical engineers and composite material specialists who team with each client to develop customized solutions to complex pipeline challenges. We have the experience, knowledge and tools to take on your toughest technical challenges and deliver the right answer. InfiniTipe® will be serving various markets all related problem solving related to technology is what we do and what we deliver. It is our commitment to provide the most comprehensive design, analysis, and manufacture a custom made pipeline product with an unsurpassed level of engineering integrity innovation and skill. This devotion to quality stems from the two basic principles on which the company was founded - technical excellence and a passion to serve.

The nature of this business is composite manufacturing of InfiniTipe® which is manufactured onsite. InfiniTipe® is an innovative patent pending technology that introduces a new concept in pipeline manufacturing industry, which attracts attention from various industries. It provides all the well-known advantages of composite materials and adds to it constructing a joint-less composite pipe onsite. The prototype machine for manufacturing InfiniTipe® machine can provide multiple advantages and can help overcome multiple challenges.

InfiniTipe® business is composed of two main aspects. Mobile Manufacturing Unit used to manufacture the pipe (MMU), the pipe design and construction, tests required to verify the

effectiveness of the design and constructed pipe to make sure that the pipe meets the required structural and physical properties. Those tests should be performed according to the Standard specifications accepted by the sector that the pipe will be used and the zone where the project will be constructed. There are many aspects where this type of pipe can satisfy the needs of various construction sectors and applications. The pipe can be used either for the slip lining applications to restore the original capacity or even exceed the original capacity of a deteriorated pipe. Or to construct a new pipe that is designed to withstand various loading and environmental conditions. The fact that the pipe is joint-less will reduce the construction time significantly as well as reducing the risk of leakage through pipe joints that usually happens for traditional pipe construction techniques.

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