

Trench Breaker Solutions (TBS)

CCSI Trench Breaker System using the Magnum™ heated system

Trench Breaker

Often referred to as a ditch breaker, Trench Breakers are temporary or permanent barriers installed at regular intervals in pipe trenches. Trench Breakers are used in two types of installations: 1) in which fill is placed for prevention of erosion caused by the lateral movement of runoff in the open trench 2) to allow the contractor to back fill up to the breaker.

CCSI Trench Breaker System

The CCSI Trench Breaker system is used as a foam breaker paired up with our specially formulated foam to prevent cathodic protection shielding. The same system has the added benefit for use as pipe pillows for your pipeline.

Simplicity

The CCSI Trench Breaker System is comprised of 2 parts that are mixed and sprayed by using nitrogen pressurized tanks that deploy the material at the appropriate ratio.



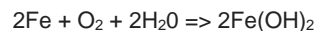
CCSI is proud to announce that we now offer a trench breaker system that is simple to install and provides benefits that as a pipeline owner, you can be proud of.

CCSI's dual layer trench breaker provides all the benefits of an industry standard breaker with the added benefit that it prevents cathodic shielding.

In addition to the benefits to the owner company, contractors will also appreciate the benefits of reduced labor and higher yield on material.

Advantages of the CCSI Trench Breaker

Corrosion of a metal surface takes place when free oxygen and water molecules attach themselves to free sites on iron atoms creating ferrous hydroxide.



Prior to construction, pipe and fittings are coated with an organic polymer which has been designed to prevent corrosion by blocking the steel surface from environmental conditions which promotes corrosion. Once in service, scenarios may present themselves that damage the original coatings allowing for pathways through which corrosion may begin. In reaction to these scenarios, cathodic protection prevents corrosion by supplying an electrical current which converts all the anodic sites on the metal surface to cathodic sites, which discourages the corrosion process.

Through independent testing, CCSI's new TBS system allows the current generated by the engineered cathodic protection systems to reach the buried pipe lines. Testing shows that over time the TBS material is permeated by moisture and allows the current to reach any holidays in the steel where corrosion could begin.

System Features and Benefits



One advantage to our system is the percentage yield of material you will receive when applying the foam through the CCSI Trench Breaker Solution (TBS). The TBS system produces approximately 95% yield of product. What this means is that you are able to apply 95% of the material that is in the tanks on to the breaker which will in turn save you money. The higher the percentage of yield, the lower each breaker ends up costing.

Our application equipment is so easy to use that training can easily be performed immediately before the job starts. With no equipment to go off ratio, the material is always on ratio and application is as simple as pulling the trigger.

ONE MAN, ONE TRUCK!!! With labor being hard to come by, the CCSI TBS can be applied by one laborer utilizing one truck. The system will fit inside most standard truck beds also providing you the advantage of transporting the material and equipment down the right away to the trench breaker location with ease. In addition, the same laborer may also spray pipe pillows, when lowering in the pipe line. Pipe pillows will decrease the lowering in time, and the expense of the timbers that are traditionally used.

Comparison

CCSI	Competitor
<ul style="list-style-type: none"> • Dual layer foam system • Minimum down time • Contractor to apply breakers <ul style="list-style-type: none"> ◦ <i>A technician can be provided if requested</i> ◦ <i>One person and One truck can apply breakers</i> • No mechanical parts • System fits in the back of pickup • Percentage yield of 95% • Does NOT shield cathodic protection 	<ul style="list-style-type: none"> • Single layer foam system • Extensive down time • A crew is needed to install breakers <ul style="list-style-type: none"> ◦ <i>Additional labor is requested to perform breakers</i> ◦ <i>Fueling</i> ◦ <i>Unload material</i> • Mechanical high pressure systems • System requires large van trucks • Percentage yield average of 65% • Shields cathodic protection

Technical Support

CCSI has long been known as a company dedicated to exceptional service within our industry. It is our commitment to not only meet, but exceed your expectations and provide you with the technical support our customers have come to rely on.

Minimum Down Time

The simplicity of the system along with the ease of use minimizes down time. No more having to wait for a crew to analyze difficult equipment and trouble shoot high pressure rigs.

Services Available

Technical Support
Setup
Application Support
Installers

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