

# SAFETRENCH®



## SAFER **FASTER** ENVIROMENTALLY RESPONSIBLE

The SAFETRENCH® is a patent pending hybrid cable plow/trench and pipe laying system based on a registered mechanical design which enables the installation of conduit or cable in greenfield areas which is SAFER, FASTER and ENVIROMENTALLY responsible while at the same time provides a better Quality Finished Asset.

The inspiration for the system was Trenchless Utilities desire to offer its clients a superior quality product with lower risk management than derived by conventional open trench installation.

The mechanism was designed by Trenchless Utilities and combined with latest technology as a systemized process which offers the following benefits.

### Safety

- Compact shorter worksite easier to control
- Narrow operational footprint ideal tight corridor (1.8m wide)
- No open trenches mitigates injury liability
- No exposed moving parts
- Forward facing operator clear visibility safer control
- No cave-ins or collapsed trenches
- Reduced chance of gas ingress (continuous welded conduit)

### Quality

- Concise consistent laying depth
- Concise warning tape placement
- Straighter pipe less friction for easy hauling
- Accurate as build's
- Layered compaction process
- Alleviates returns to site due to washout
- Landscaped finish
- Higher quality impact resistant finished asset

### Environmental

- Low environmental impact narrow work area
- Requires as little as 20% of soil excavation compared to conventional excavation techniques
- Low ground pressure 4.5 PSI
- No issues of acid sulphate soil oxidation
- Minimum erosion due to ground disturbance.
- Smaller operational footprint corridor 1.8m wide requires less clearing
- Lower energy consumption

### Summary

The Overall Benefit is that of a Rapid continuous process that allows a rolling production line style work site which works particularly well in high water table areas and wetlands, the current model is efficient in ROCK to 3,000 psi over this may require pre-ripping.

Particularly appealing to project managers is the shorter period of overall project management, traffic management and exposure to liability.

Our inclusion of complimenting clearing and mulching process's and final Compaction and Landscape process (not outlined here) leave a pristine landscaped finish.

Compared to the 3 most common methodology's

- 1) Open Trench
- 2) Plow
- 3) Directional Drilling (HDD)

SAFETRENCH® is a hybrid system, which offers a 4th solution.

The benefits compared to open trench are outlined above. SAFETRENCH® is a much less invasive installation method that can also be considered as an ECO alternative to Heavy plows and as an alternative to HDD has the potential to significantly reduce project cost to our client's.

The system resolves significant issues in relation to the consistency and overall quality of installation that sets a new industry benchmark.

We perceive that astute project managers will grasp this process as another tool to more effectively complete appropriate projects.



Check out our video at: [http://youtu.be/0gDEsD\\_uMw4](http://youtu.be/0gDEsD_uMw4)

For further information please contact James Johnson on 0400 660 664 or [jj@trenchless.com.au](mailto:jj@trenchless.com.au)

ECU Business & Innovation Centre, 15 Barron Parade, Joondalup, Western Australia 6027. P.O. Box 120, Joondalup, WA 6919