

# ZeroZone

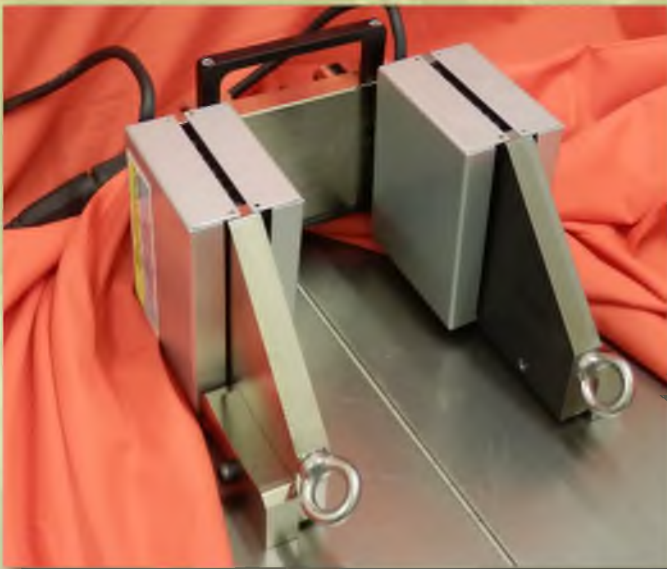
Zone accessory for Zeromag ZMZN

# DIVERSE

www.diverse-technologies.net

## Applications using Zeromag

- High speed deployment of Zeromag in production scenarios
- Plate and pipe deployment of any size
- Use with TIG, MIG, MMA and Sub-arc processes
- Typical use LNG tanks, ship plate, construction, heat exchangers and pipes of all sizes



## Features

- Reduces Zeromag deployment time to seconds
- Allows immediate deployment of all Zeromag features
- Rapidly deployed and simple to operate
- Secure fixings for pipe deployment
- Vertical hanging via eye bolts
- Robust and portable
- Can be used with preheat to 85C (180C option)
- Supplied complete with extension cables to Zeromag

## Overview

The Diverse ZEROMAG measures and neutralizes magnetic fields which may be present in the weld preparation region of mating steel components.

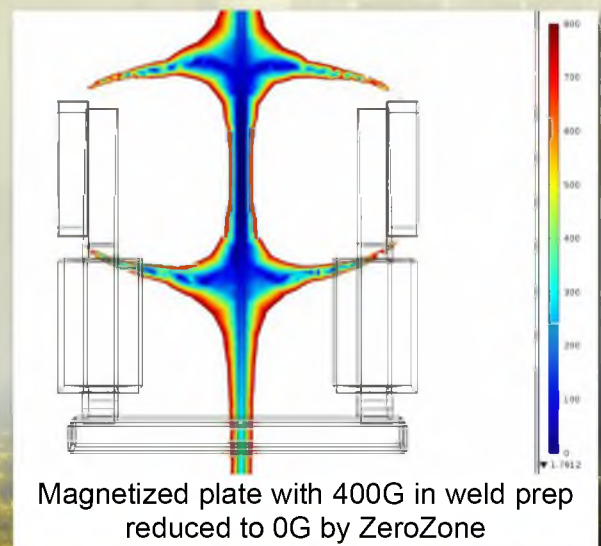
When working with plate or pipes, the demagnetisation process requires that the magnetic field is controlled via the demagnetizing cables. This works well when the object can be coiled around with the cables but for large diameters or plate applications lay on coils are used.

For high fields the most efficient way to null the magnetic field is to use ZeroZone. This is pre-wound with 40 turns and provides a magnetic bridge across the weld prep to allow control of the magnetism.

In operation, ZeroZone is placed across the weld prep. The arms and pole pieces are adjusted so that the active area of the pole pieces are in close contact with both sides of the work piece. ZeroZone is then connected back to Zeromag and the system powered on. All the normal modes of Zeromag are available.

Once the magnetism is nulled, welding can commence within the jaws of ZeroZone, and as the weld advances, ZeroZone can be moved to track the torch or welding halted to allow ZeroZone to be moved. The technique used depends on the application.

For preheat weld scenarios, the ZeroZone product range is rated to 85C set by the cable insulation. If used with preheat for extended periods there is an option for cable insulation rated to 180C.



## ZMZN: Performance Specification

Turns	20 turns deployed on each arm
Operating misalignment allowance	Side arms and pole pieces adjustable allowing compensation for misaligned weld components
Range of pipe/plate sizes	Supplied with 2 pairs of pole pieces for plate, 16", 20" and 24" diameter. Pole pieces can be supplied for user defined sizes
Deployment	Usually one deployed across the weld prep and the seam is welded between the jaws. Ratchet belts supplied to secure ZeroZone to pipes.
Vertical deployment	Vertical mounting eyes on the assembly to allow hanging from post, crane or framework.
Cables to Zeromag	Supplied with extension cables to Zeromag
Weight	17kg
Size	30 x 26 x 17 cm plus cable
Operating temperature	Up to 85C. Extended temperature range as option.
Extended temperature range	Option for high temperature cable to 180C
Construction and material	Nickel plated steel with 120A connectors.
Storage	Supplied with wooden shipping and storage case
Working current	Up to 100A
Operational storage	It is important to keep the connector contacts clean.
Environmental	Temperature -20C to 50C Humidity 0-90% non condensing Do not operate or store in a wet environment
Support	Call/email Diverse for support for use of ZeroZone for different weld scenarios

