



# DIVERSE ZEROMAG

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## Demagnetizing options for overcoming magnetic arc blow

### AUTONULLING

#### What is it?

Automatic removal of magnetic field in the vicinity of the arc.

#### Strengths

Works for all pipes regardless of size or wall thickness.  
 Quick

#### Why you may need to use another option

If the magnetism is zoned and you wish to weld at two positions on opposite sides of the pipe

#### Minimum requirement:

Zeromag ZM100A  
 Gas cooled Zeromag probe ZM2PG  
 50m Demag cable ZM2DMC

#### Recommended package:

Demag kit for pipe/plate welders (DKPW)  
 Includes in addition to minimum requirement:  
 Magmeter MF300H+  
 Zeromag probe extension cable ZM2PE  
 50m Demag extension cable ZM2CE

Clam coils ZMCC (x2)

### MANUAL NULLING

#### What is it?

Manual removal of magnetic field in the vicinity of the arc.

#### Strengths

Works for longitudinal magnetism for all pipes regardless of size or wall thickness  
 Probe not required in vicinity of weld during operation  
 Quick

#### Why you may need to use another option

Not convenient for zoned magnetism as continuous welding is not possible

#### Minimum requirement:

Zeromag ZM100A  
 Gas cooled Zeromag probe ZM2PG or MF300H+  
 50m Demag cable ZM2DMC

#### Recommended package:

Demagnetising kit for pipe/plate welders (DKPW)  
 Includes in addition to minimum requirement:  
 Magmeter MF300H+  
 Zeromag probe extension cable ZM2PE  
 50m Demag extension cable ZM2CE

Clam coils ZMCC (x2)

### JOINT DEGAUSSING

#### What is it?

Automatic removal of the magnetism in the steel in the vicinity of the weld prep

#### Strengths

Demagnetizing equipment not required while welding  
 Complete control over downcycling parameters  
 Quick single cycle option

#### Why you may need to use another option:

Degaussing of thick wall pipes can be slow  
 Magnetism returns over time

#### Minimum requirement:

Zeromag ZM100A  
 Zeromag degausser ZM150  
 50m Demag cable ZM2DMC  
 Gas cooled Zeromag probe ZM2PG or MF300H+

#### Recommended package:

In addition to minimum requirement:  
 Magmeter MF300H+  
 50m Demag extension cable ZM2CE  
 Clam coils ZMCC (x2)

### PIPE END DEGAUSSING

#### What is it?

Automatic removal of the magnetism in the steel at the end of pipe to be welded

#### Strengths

Demagnetizing equipment not required while welding  
 Complete control over downcycling parameters  
 Quick single cycle option  
 Carried out prior to fit up

#### Why you may need to use another option

Degaussing of thick wall pipes can be slow  
 Magnetism returns over time  
 Can't be used if magnetism reappears after fit up or welding passes

#### Minimum requirement:

Zeromag ZM100A  
 Zeromag degausser ZM150  
 Bobbin ZMBOB or Clam coil ZMCC  
 MF300H+

#### Recommended package:

In addition to minimum requirement:  
 Gas cooled Zeromag probe ZM2PG  
 Zeromag probe extension cable ZM2PE  
 50m Demag cable ZM2DMC  
 50m Demag extension cable ZM2CE

### HIGHER POWER - Zeromag ZM100A-33

The ZM100A-33 is 3kW version of Zeromag in the same 4U package as the standard ZM100A

**Advantages:** Works with all 4 demag methods listed but with up to 200m of cable giving twice the demagnetising field for large pipes, large constructions, and smelting environments

**Minimum requirement (nulling):** ZM100A-33, Gas cooled Zeromag probe ZM2PG, Probe extension cable ZM2PE, 50m Demag cable ZM2DMC, 3 x 50m Demag extension cable ZM2CE

**Recommended package:** As above with Zeromag degausser ZM150, MF300H+, Clam coils ZMCC

### Plate and complex geometry - Zerozone

Zerozone is a magnetic conduit that is arranged to straddle the weld prep. It is used with the standard ZM100A

**Advantages:** Highly efficient coupling of the nulling field into the job piece. Suitable for large constructions and steel parts in smelting environments. Can be used with all Zeromag modes.

**Recommended package:** DKPW and Zerozone