



INDUSTRIAL DEGAUSS

IDMAG PIPELINE DEMAGNETIZING SYSTEM

Have you ever dealt with magnetized pipes before?





Magnetized pipes cause arc blow.

Arc Blow is when the welding arc stream wanders and doesn't follow the shortest path.

This can lead to weld defects, frustrated welders and ultimately, Delays.



What causes the pipes to become magnetized?

- Magnetic fields induced during pipe manufacturing and coating processes.
- Location of pipelines, particularly in and around overhead power lines.
- Movement of pipe with respect to the earth's magnetic field. Laydown yards E-W
- Cold cutting & cold beveling
- Smart Pigs - MFL Tools - Magnetic Flux Leakage

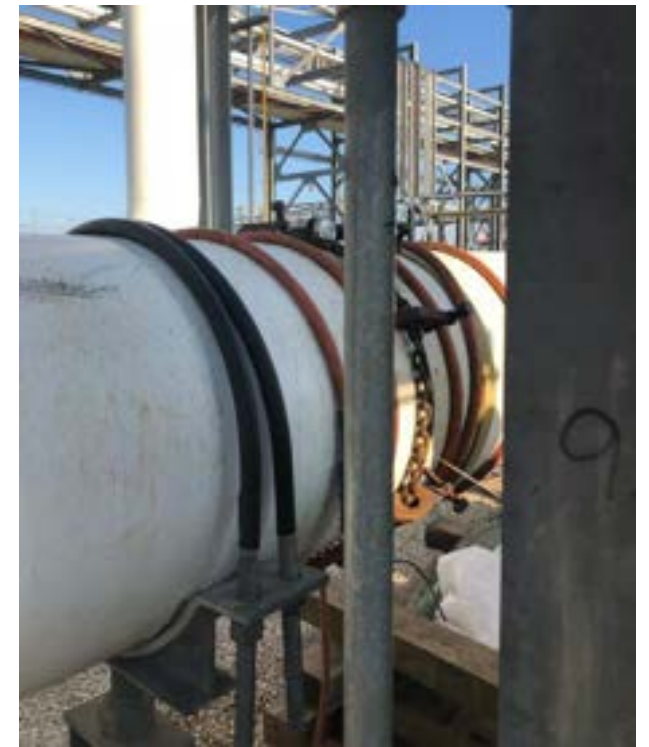


Current methods to demagnetize the pipe to avoid arc blow include using welding machines and or large mag-flux machines.

These methods are time consuming, outdated and not always effective.



Customer from Houston, TX November 2018 : The job was to cut a section of pipe out then remove the tool that had been stuck for over a month. Once we removed the tool the pipe (24" - .750wall) was now heavily magnetized, we tried some of the old welding lead remedies to no avail.



The contractor brought this mag flux equipment out to demag, tried for 8 hours with no results.

We sent our equipment out “...arrives on-site at 8am today. They walk us through the set up and how to operate the equipment, and in less time then it took to set everything up we were ready to weld.”



Another instance of a failed demag attempt: Compressor Station in Carr, Colorado 2019. The welders tried to demag the pipe using a spare machine and leads but something went wrong and they burned up the leads and increased the magnetism from less than 200 to over 1000 gauss. We came out with our equipment to fix the issue because welding was shut down.



Our Solution: the IDMAG System

Consists of:

- Power Controller
- Gaussmeter
- Degauss Cable
- GFCI Power Cords
- Transit Case



The setup pictured works on pipes up to 30" in diameter. For larger pipes we have a 2nd cable setup to increase the demagnetizing power.

COMPARISON OF DEMAGNETIZING METHODS

MAG FLUX MACHINES	WELDING MACHINE	IDMAG SYSTEM
Not designed to demag pipe	Not designed to demag pipe	Designed for all diameter pipe
No instructions for pipe	No instructions	Clear instructions, simple interface
Takes time to use = \$	Trial and Error = time = \$	Quick set up time
Requires 3 phase power	Motor driven	120-250v, single phase power
No gaussmeter included	No gaussmeter included	Gaussmeter included
Heavy, not portable, requires machinery to move	Portable on pipelines, not so portable for plants	Portable < 100lbs
Few wraps = less demag power	Fewer wraps = less demag power EXAMPLE: 10 wraps @ 200 amps = 2000 AT	Controllable, plenty of demag power EXAMPLE: 10 wraps @ 10 amps = 2500 AT

Using the equipment is simple:

- Wrap the cable around the pipe.
- Use the gaussmeter to measure the magnetism at the joint.
- Select an output on the power controller & turn the knob.
- If the gaussmeter increases, hit stop and select the other output.
- As the gaussmeter decreases, adjust until it is near zero.
- Weld!



Benefits to you

- The process can be built into your standards.
- Using the IDMAG System is repeatable
- No trial and error – how many wraps, which direction on wraps, how many amps, etc.
- Anyone can be trained on how to use it.
- Saves time compared to other methods.
- The right tool for the job.



What we offer

- IDMAG Equipment Sales
- IDMAG Equipment Rentals
- We can perform the service

We can do demonstrations and training at your locations.







