

COMPANY: Oregon Iron Works

COUNTRY: USA

APPLICATION: CNC Plasma Cutting

KEY ADVANTAGE:

- Corrosion, bacteria, foam control
- Complete elimination of waste water disposal

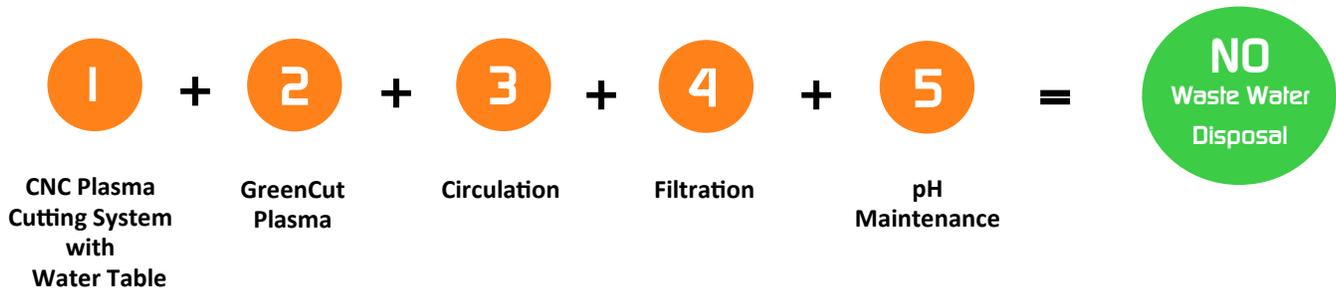
Eliminate Waste Water Disposal From CNC Plasma Cutting Systems With GreenCut Plasma



Oregon Iron Works, a pioneering structural fabricator from Oregon has been using LubeCorp's GreenCut Plasma Arc Water Table Fluid since the year 2007 to treat a large CNC plasma cutting system with a 15,000 gallon water table in its Vancouver, WA facility. Plasma water table technology is often chosen by large industrial manufacturers, such as bridge fabrication companies, due to design limitations and cost of the HVAC units needed to evacuate large down-draft tables.



Water tables need maintenance to prevent corrosion and bacteria formation. They are often associated with costly disposal of the waste water from the table. In many jurisdictions, handling water disposal is very expensive. Oregon Iron Works is leading in its efforts to reduce impact on the environment and costs associated with waste water disposal by running an efficient filtration and circulation system in conjunction with treating the water with LubeCorp's GreenCut Plasma. The company has not done waste water disposal from the plasma table for the past 8 years while utilizing 1 to 2 shifts/5 days per week.



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CNC Plasma Cutting System with Water Table



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GreenCut Plasma

- Prevents corrosion, bacteria, foam, hot-spotting
- Provides excellent lubrication
- Mix 20:1 with tap water
- SAFE & Non-toxic



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Circulation

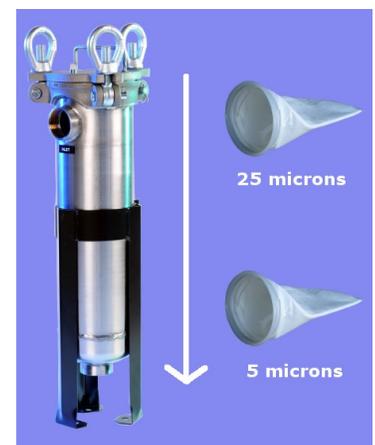
- Use pump appropriate to the table size
- Have 1 inlet and multiple outlets along sides of the table
- Adjust flow to circulate table 1x per 2 hours



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Filtration

- Use filter housing of appropriate size
- Use single or 2-stage filtration - 1 bag@25 microns; & to achieve best results 1 bag@5 microns
- Change filter bag(s) as needed - typically 1x per week or once pressure differential of 15 psi is reached (bags are cheap)
Wooden slats generate more charcoal and filters require more frequent changes. Plastic slats are recommended to reduce filter replacement frequency



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pH Maintenance

- Use regular pH strips—make sure they are not past the expiry date
- Check pH 1x or 2x per week to make sure it is between 9 - 10
- Adjust pH to 9 – 10 with fresh GreenCut Plasma
Water will evaporate quickly from your table; keep adding water to keep appropriate level; add GreenCut Plasma when pH below 9

