

Berry Metal Company – EAF Products and Services



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Timeline – Company History

1951 – Berry Metal Company incorporated by Walter Berry

1951 to 2002 – Serviced the steel industry hot strip mills, to EAF, Degasser and BOF Vessels.

- Doubled the life of oil seal rings using patented alloy “Berry Metal”
- 1st cast copper lance tips for the open hearth
- 1st cast copper multi hole lance tip for the BOF
- Pioneer in post combustion development
- Incorporated Cameras in BOF lances resulting in enhancements to slag splashing.
- First U.S. forged face tip assembly doubled the life of BOF lance tips.

2002 to 2013 – Alliances established with Falcon Foundry Process Metrix to combine technical strengths and product capabilities to expand into new markets.

- 1st UltraLife® Cast Copper Staves installed in a blast furnace 2002.
- Numerous EAF Cast Copper panels designed and supplied
- Developed new burner technology for EAF’s



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Company Organization

Non Ferrous Copper Foundry

- (3) Induction furnaces

Machine Shop

- CNC and Manual lathes
- CNC Tube Bender
- CNC Milling Machines
- Verticle Mill

Weld Shop

- ASME and Section IX welders
- Copper, Stainless, Nickel, Aluminum, Inconel, carbon
- Robotic Welder

Engineering

- FEA and CFD Modeling
- Experienced in EAF's, BOF, and BF's
- Failure Analysis
- Over 60 patents



Berry Metal Company Products:

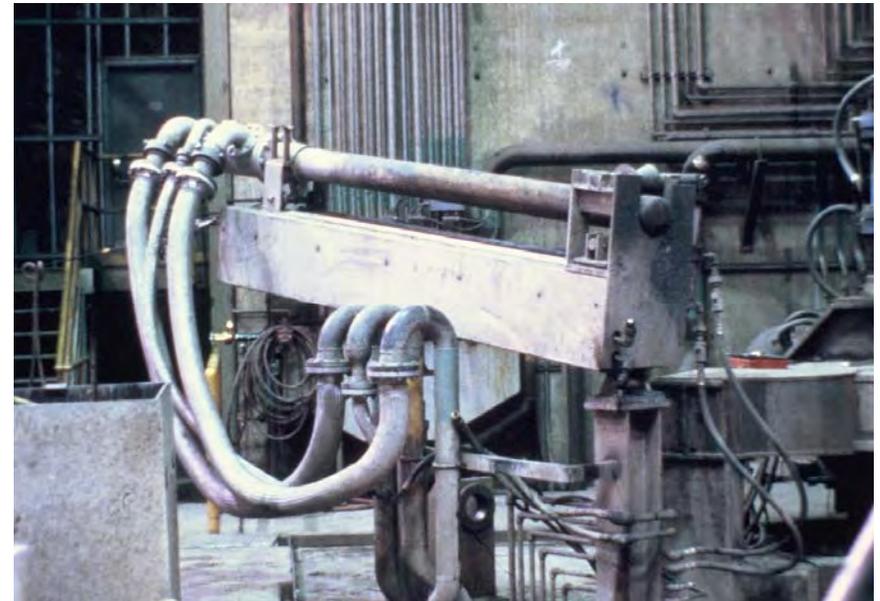
- Water Cooled EAF Lances
- EAF Lance Tips
- Oxy-Gas Burners
- Water cooled Copper panels
 - Cored
 - Piped
 - UltraLife
- Electrode Contact Shoes
- Caster Mould plates
- Engineering and Design services
- Specialty Repair
- Camera Lances
- EAF and Ladle Refractory Measurement



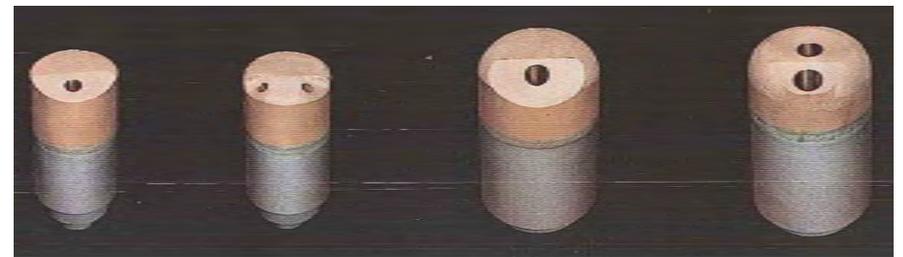
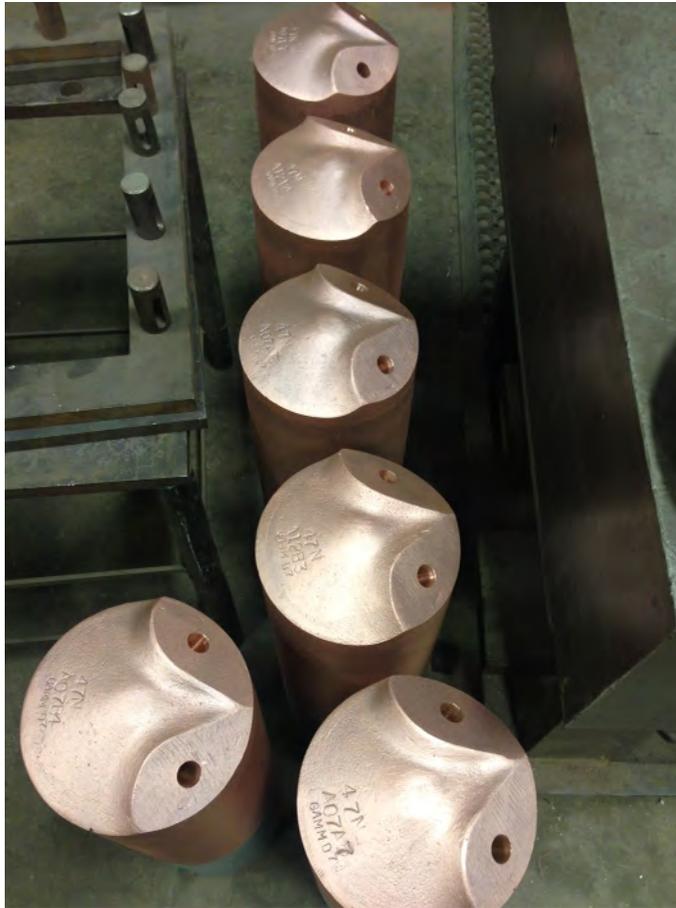
Water Cooled EAF Lances:



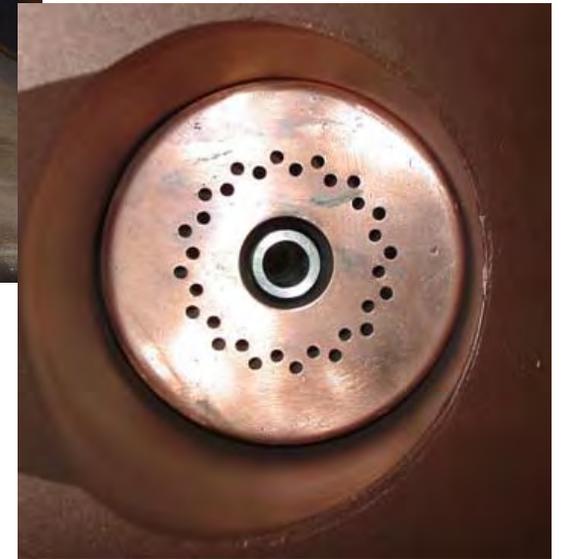
**Slag Door and
Sidewall Lances**



EAF Lance Tip Assemblies:

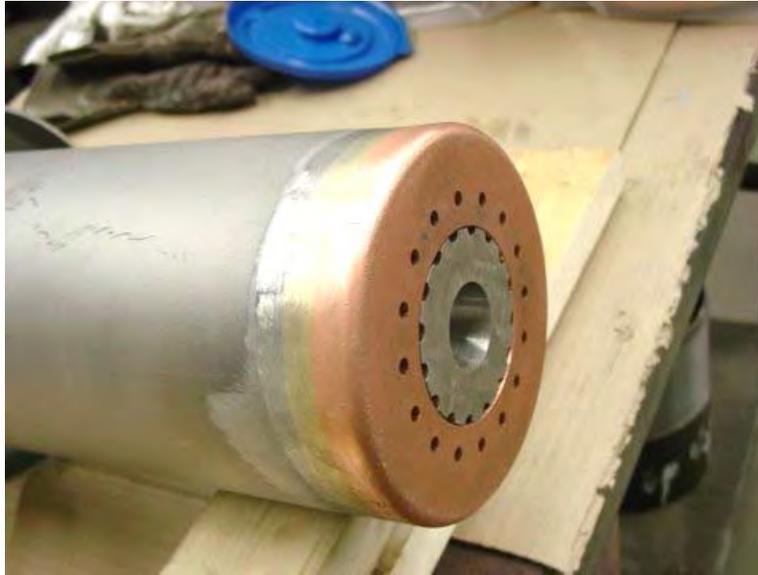


Oxy-Gas Burners:



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Tapered Burners and Burners with Removable nozzles:



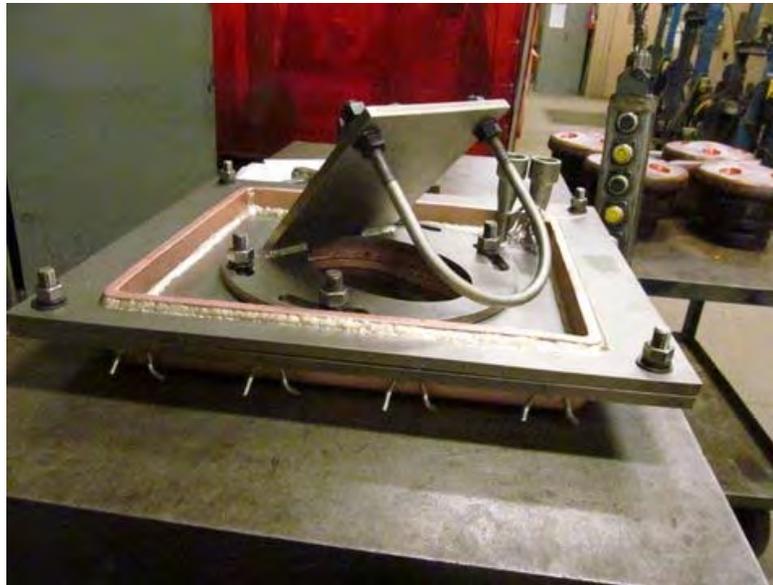
Water Cooled Burner Panels:



Water Cooled Burner Panels:



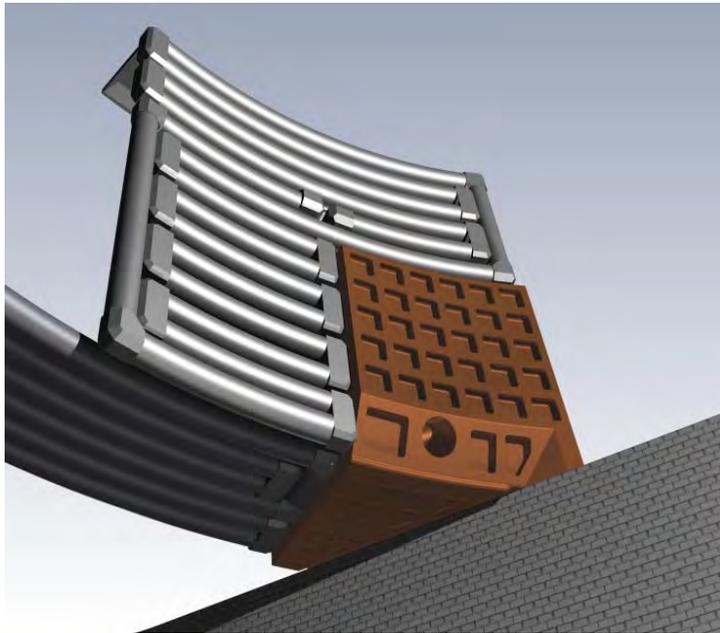
Fabricated Panels and Copper Boxes:



Post Combustion Panels:



EBT Sump Panels:



Copper and Steel Pipe Panels:



Water Cooled Panels:



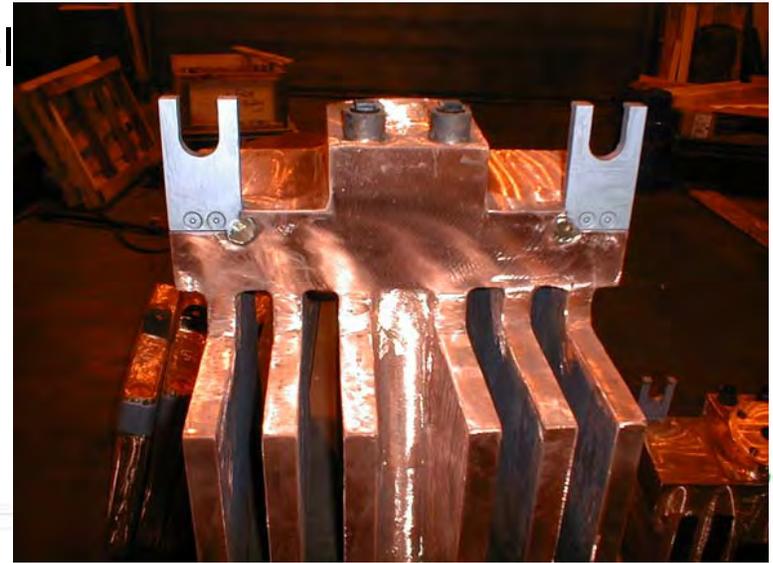
Slag Door



EAF Shell

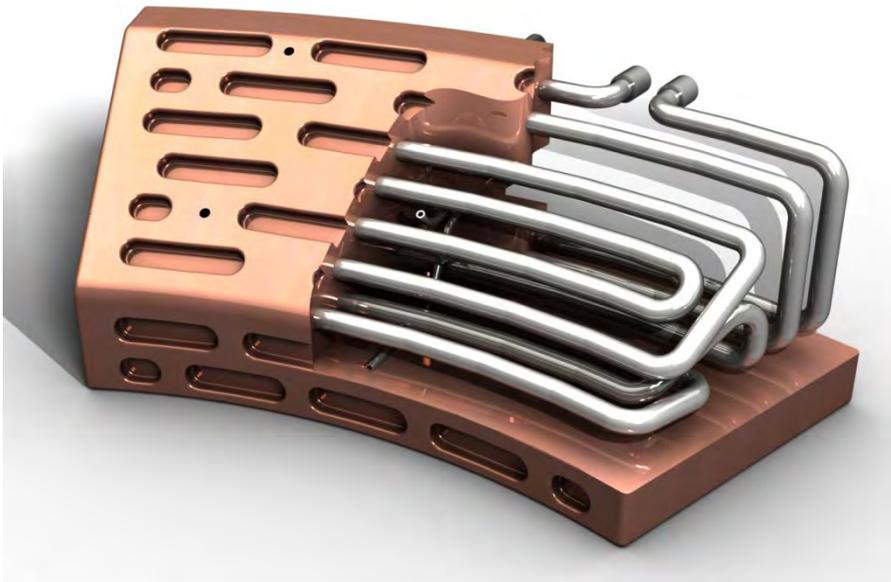


Fin Panel



Fin Panel

UltraLife Cast Copper panels (with internal pipe coil):

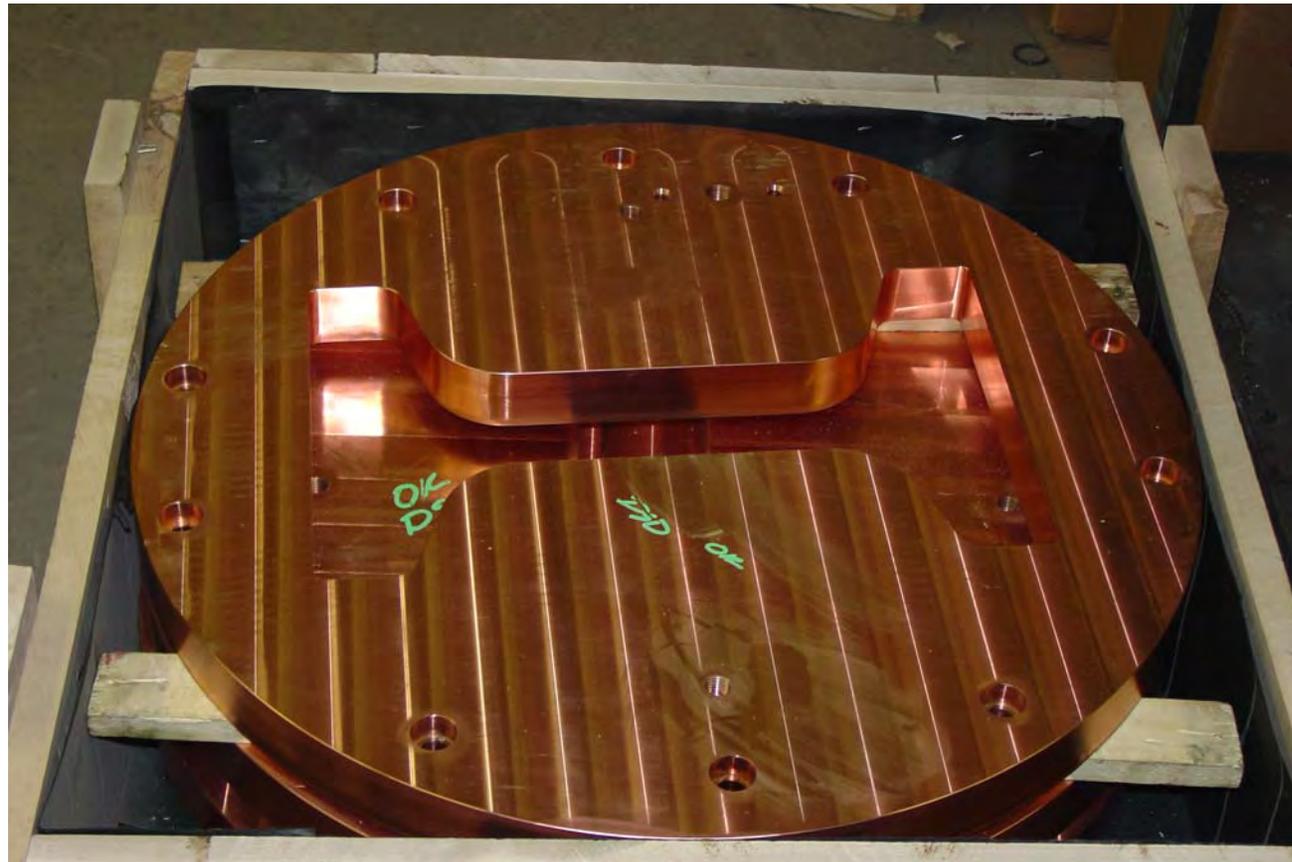


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Contact Shoes:

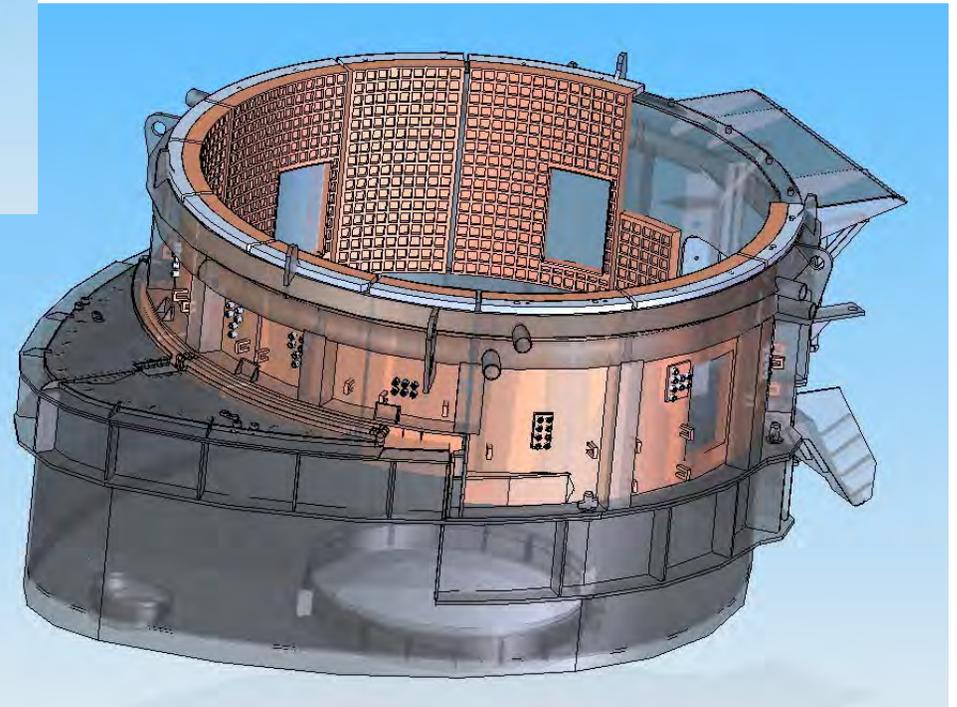
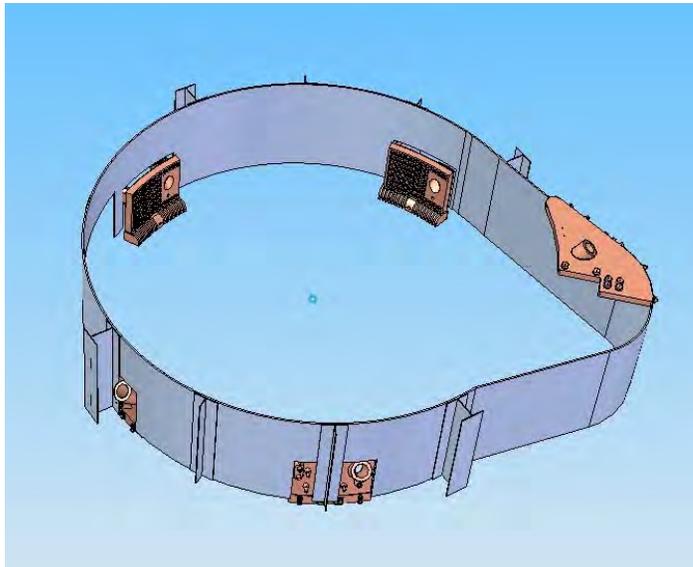


Caster Mold Plates:



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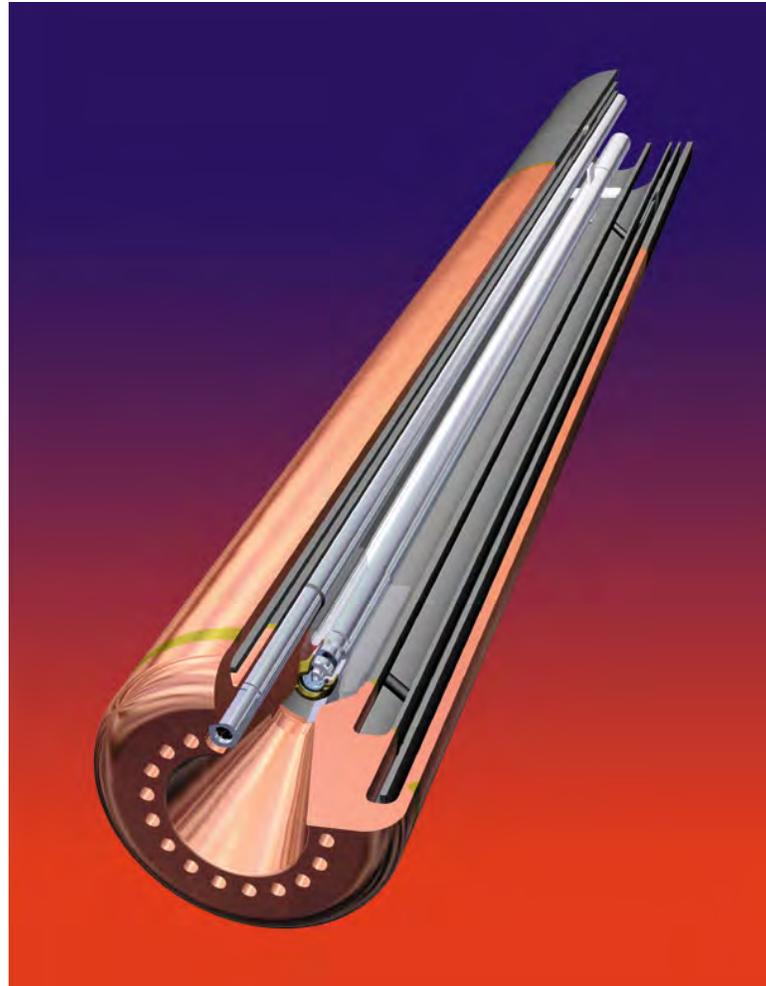
Engineering design and Layout:



Panel and Burner Repairs:



Camera Lance with Internal burner igniter:



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Ladle and Electric Arc Furnace Laser Measurements: (with Partner Process Metrix)

