

Berry Metal Company supplies Water-Cooled Oxygen Lances, Post Combustion Lances, Sensor and Camera Lances, Furnace Deskulling Lances, Oxy-Fuel Burners and specially designed Forged and Cast Lance Tip Sub-Assemblies. Additionally, we provide repair service, technical support, complete replacement parts and field service.

BOF

Products

Berry Metal Company is the world's largest Oxygen Lance designer and builder, and the No. 1 value-added Lance technology supplier in North America.

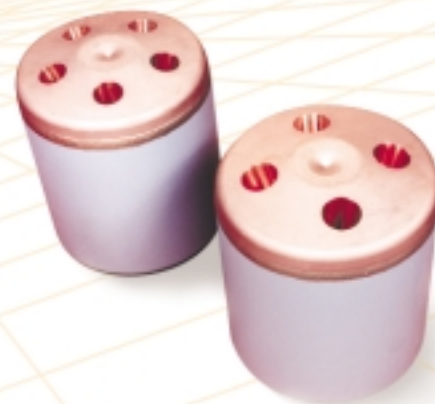
Steelmakers cite the following advantages of Berry Metal Company Lances:

- Safety of design with water-cooled Cast and Forged Lance Tips.
- Non-consumable, reusable Lances that deliver long service life and improve overall refining performance.
- Low maintenance costs through replaceable Tip Sub-Assemblies using standard welding practice.
- Fast repair capability, easy Tip design change, all internal Lance seals, plus interchangeable parts.
- Immediate engineering and technical support, rated state-of-the-art worldwide for Lances and furnace practices.
- Capabilities for post combustion as well as lime, graphite and special purpose Lance Tips.
- Research and development to provide answers for extended Lance life.



Forged Lance Tip Sub-Assemblies

- Our patented, specially designed Tips come in an array of sizes and hole configurations.
- Proven design with a forged copper Tip to provide maximum life.
- Designed for quick and safe Lance repairs.
- Specially designed water passages to allow for ideal water velocities and improved cooling dynamics to provide optimal heat transfer and maximum life.
- Engineered oxygen nozzles to provide desired bath penetration and coverage.



Single and Double Flow Post Combustion Lances

- This state-of-the-art design allows steelmakers to maximize the heat energy in the furnace.
- It also is used as a maintenance tool to reduce and even eliminate Lance build-up or skulls as well as reduce build-up in the furnace mouth and cone areas.
- The Double Flow Lance design has two oxygen control systems that permit independent control of the secondary oxygen for the most efficient combustion of CO to CO₂.
- The Single Flow Lance design "splits" a percentage of the main oxygen for the post combustion oxygen and can be easily retrofitted into an existing BOF Oxygen Lance.
- Allows for increased scrap consumption permitting greater flexibility in scrap-to-hot-metal ratios.
- Faster heat times from the increased heat generation created by "post-combusting" CO to CO₂.

Deskulling Lance Tips

- The patented Berry Metal design Deskulling Tip allows steelmakers the ability to deskull or "clean" their vessel.
- Various configurations and hole sizes can be implemented.
- The Deskulling Tip can be manufactured to fit any style Oxygen Lance.
- New multi-row, multi-angled Deskulling Tips are available.



For more information on this and other technological innovations, contact Berry Metal Company at 724-452-8040 or www.berrymetal.com.



Water-Cooled Oxygen Lance Design and Repair

- The double O-ring design provides protection for the intermixing of oxygen and water.
- Internal slip joints allow for thermal expansion and contraction resulting in no internal stresses.
- The modular design allows for easy inspection and repair.
- Delivery on special Berry Metal Company trucks is available.
- BMC offers excellent technical service as well as 50 years of steelmaking experience and service in the industry.
- Complete product failure analysis can be provided to help improve product performance.

