

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

EA 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:

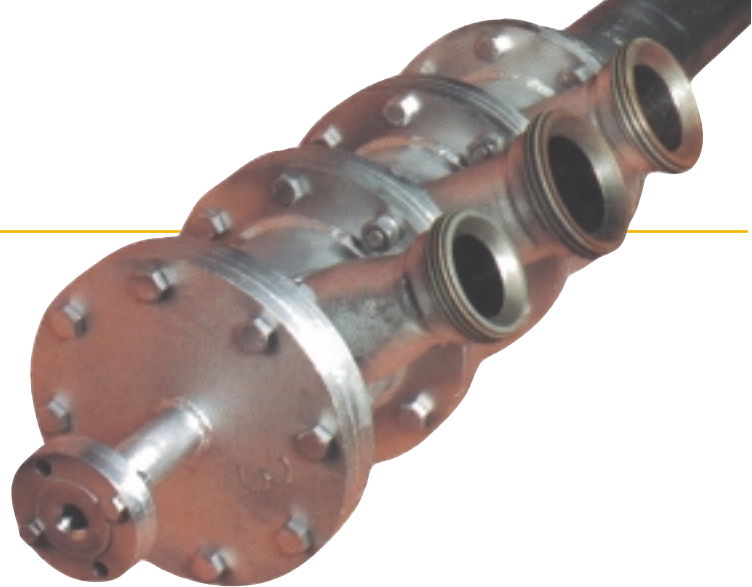
- Safety of design with water-cooled cast copper Lance Tips.
- Non-consumable, reusable Lances that deliver long service life and improve overall refining performance.
- Low maintenance costs through replaceable Tip Sub-Assemblies using standard welding practice.
- Fast repair capability, easy Tip design 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.



Copper Bullet™ Tip Sub-Assemblies

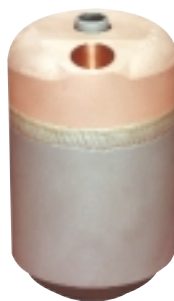
- Our specially designed 5" and 6" Tips come in an array of lengths and hole configurations.
- Designed for quick and safe Lance repairs.
- Specially designed bullet configuration to resist mechanical damage.
- Contoured Tip face reduces oxygen blow-back.
- Specially designed water passages to allow for optimal water velocities and improved cooling dynamics to provide maximum life.
- Range of oxygen flow rates up to 4,000 SCFM.
- Special Tip configuration to accommodate oxygen nozzle angles ranging from 15 to 50 degrees, providing additional lancing options.
- Engineered oxygen nozzles to provide optimal bath penetration and coverage.





Combination Oxygen/Carbon Injection Lances

- Our patented designed Oxygen/Carbon Injection Lances permit steelmakers to simultaneously inject oxygen and carbon into the bath through one Lance.
- Our unique designs allow for carbon to be either injected below or above the oxygen nozzle, each of which has its unique benefits.
- The Lance is designed for quick and safe Lance repairs.
- Nozzle design flexibility with various Lance Tip configurations.
- Either sidewall or slag door mounting depending on needs.
- Optimal slag foaming with high carbon efficiency rates.



Water-Cooled Oxygen Lance Design and Repair

- The double O-ring design provides protection for the intermixing of oxygen and water.
- Internal slip joints to 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.
- ISO 9001 Certified.

Praxair's *CoJet*® Technology

- Berry Metal Company manufactures parts for Praxair's patented *CoJet* Technology.
- This cutting edge burner/lancing equipment replaces Water-Cooled Lances, sidewall burners and consumable pipes.
- *CoJet* Technology is installed on over 60 furnaces worldwide.
- The *CoJet* System offers the complete package to enhance steelmaking operations and efficiencies that include: oxy-gas burner, supersonic oxygen lancing, post combustion and carbon injection.
- The *CoJet* Technology offers many benefits that include: reduced power consumption and maintenance cost, plus increased productivity and yield.



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

