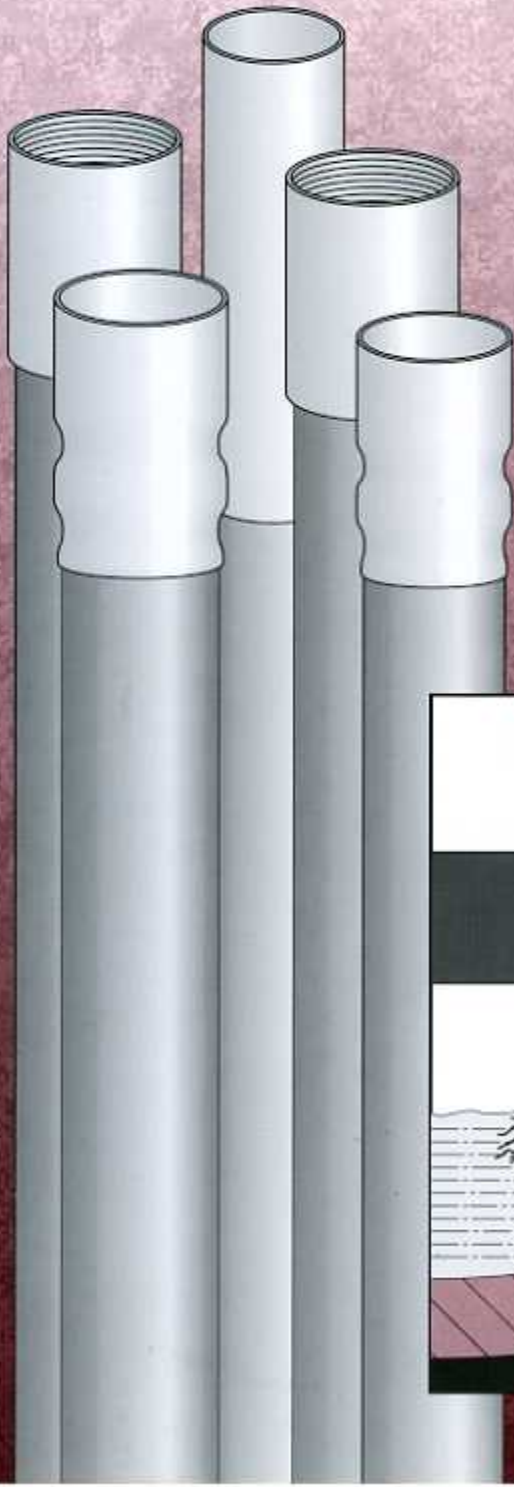




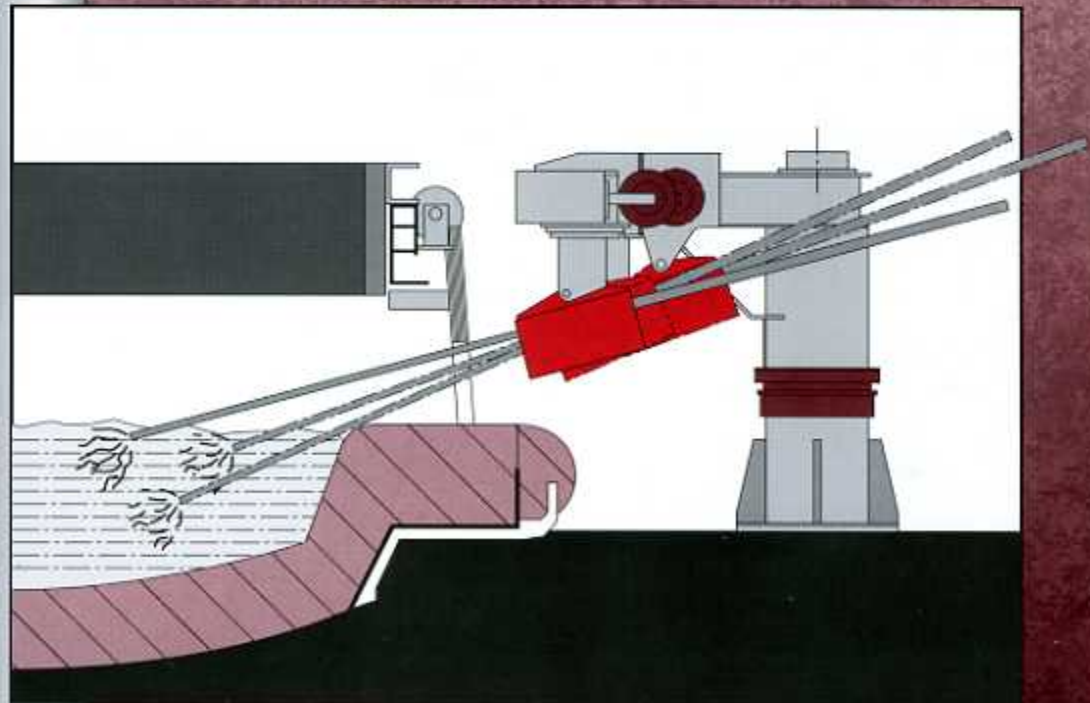
MINCO PIPE, Inc.

Ceramic Coated Pipe



Multi-Use Lance

- **Oxygen Injection**
- **Powder Injection**



Minco Ceramic Coated Pipe (CCP) is used primarily for oxygen injection into electric arc furnaces. Various other applications of MINCO CCP include powder injections, tap hole cleaning, and opening nozzles in ladles, tundishes, and EBTs.

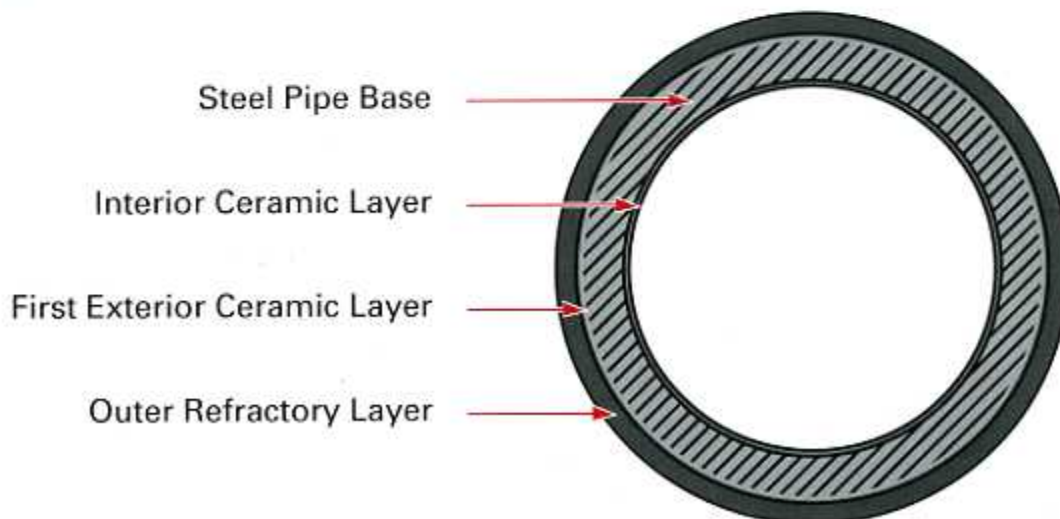
MINCO CCP was developed to increase lance life beyond that of conventional calorized pipe. With our innovative method of refractory deposition for both interior and exterior coatings, MINCO CCP provides unequalled lance life at a lower cost.

Various Uses of MINCO CCP

Applications in addition to cutting scrap, raising bath temperatures and decarburizing include the following:

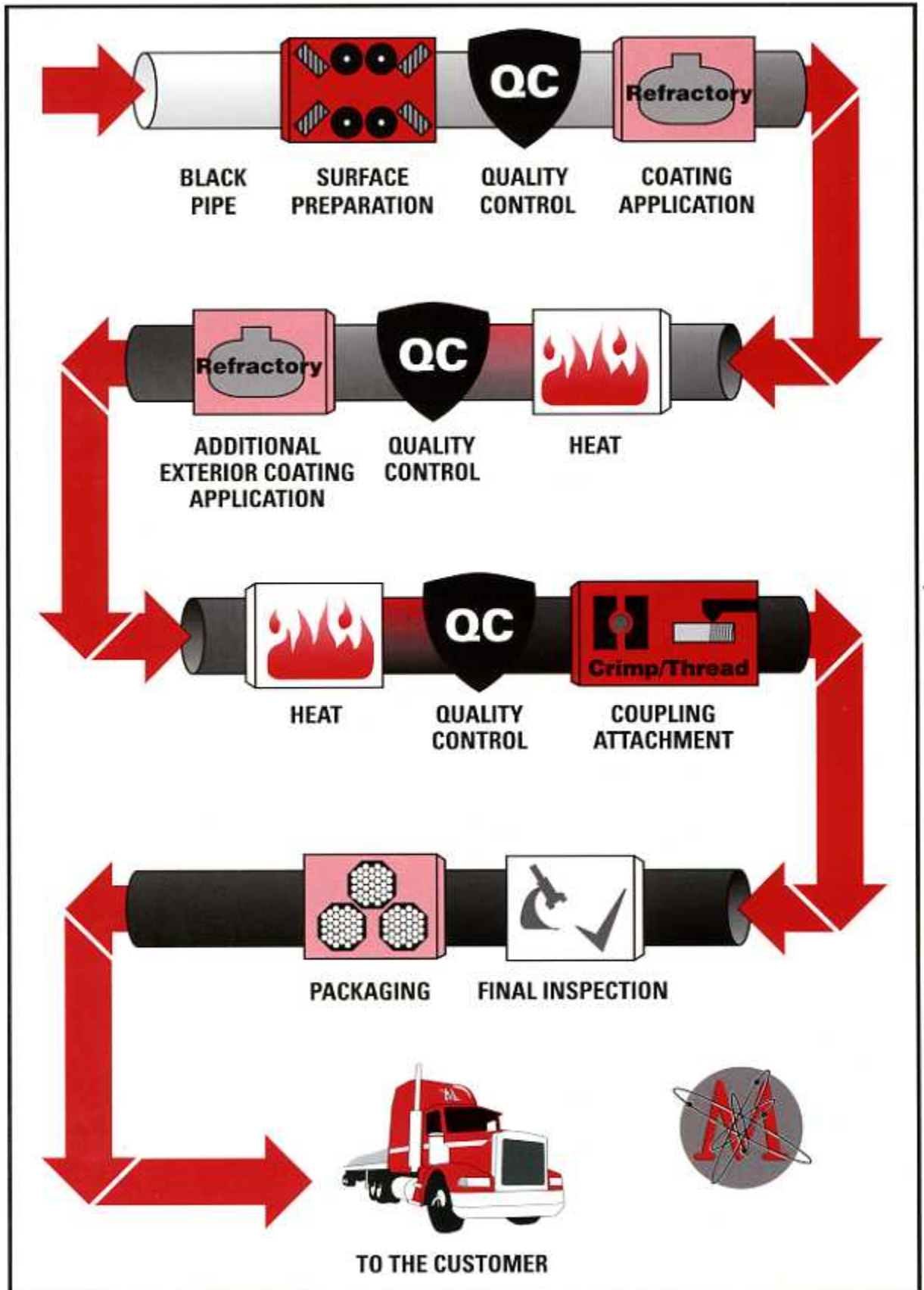
- opening nozzles in tundishes and ladles
- injecting carbon and other powders into the electric furnace and ladle
- opening the iron notch of a blast furnace
- removing slag adhering to the tapping notch of converters and various kinds of ladles
- blowing argon into ladles
- raising temperature when steel is treated with KR, DH, and RH methods
- blowing argon and oxygen into the AOD
- injecting flux for degassing in aluminum melting furnaces.

Cross Section of MINCO CCP



MINCO CCP

Manufacturing Process Flow Chart



Minco CCP – Made to order

Connection Specifications

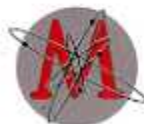
Three pipe connection methods are available. When placing any order, please specify which of the following connection methods is needed.



Standard Sizes of MINCO CCP

Pipe Nom. Diameter	Length	Pieces Per Bundle	Pipe Wall Thickness		
			Schedule 40	Schedule 30	"Ultra Tubing"
1/2" (12.7 mm)	18'	184	0.109"	—	—
3/4" (18.75 mm)	18'	127	0.113"	0.095"	0.090"
1" (25.4 mm)	18'	91	0.133"	0.104"	0.095"
1-1/4" (31.75 mm)	18'	61	0.140"	0.110"	0.104"
1-1/2" (38.1 mm)	18'	52	0.145"	0.114"	0.109"
1/2" (12.7 mm)	9'	184	0.109"	—	—
3/4" (18.75 mm)	9'	127	0.113"	0.095"	0.090"
1" (25.4 mm)	9'	91	0.133"	0.104"	0.095"
1-1/4" (31.75 mm)	9'	61	0.140"	0.110"	0.104"
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Manufacturing and Sales Headquarters



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