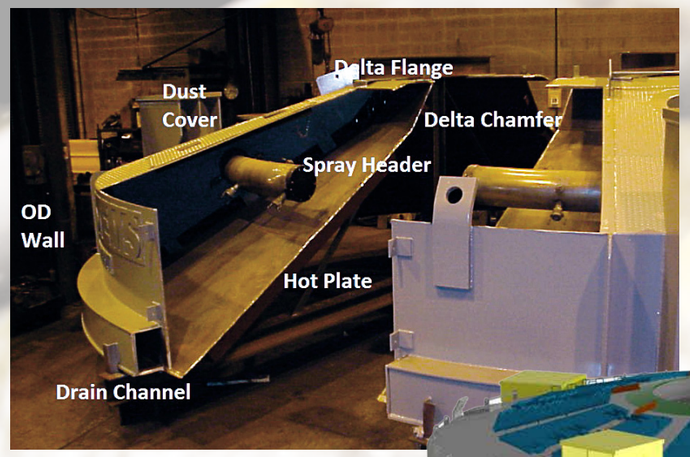
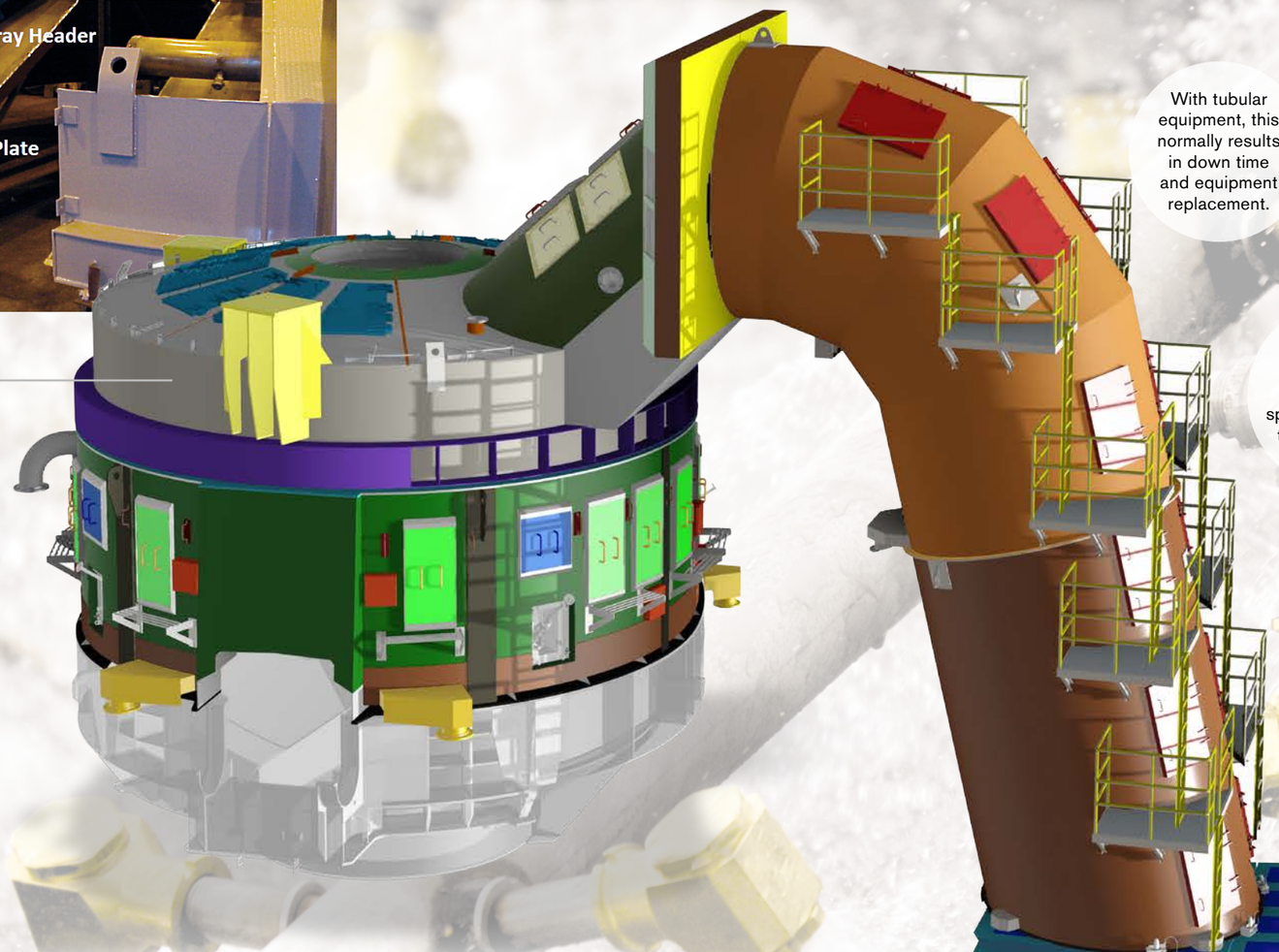

SYSTEMS
SPRAY-COOLED™
SYSTEMS

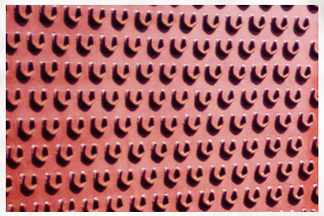
STAYING COOL IN A HOT BUSINESS

17 Countries
89 Installations
Worldwide





SLAG CUPS INSIDE OF SPRAY COOLED ELECTRIC ARC FURNACE (EAF)



With tubular equipment, this normally results in down time and equipment replacement.

The normal causes of failure for water-cooled equipment are fatigue cracking, erosion or corrosion.

Eliminates high pressure, high volume water leaks.

With Systems' non-pressurized spray-cooling, down time is drastically reduced.

SAFETY

FLEXIBILITY

INCREASED UP-TIME

LOWER MAINTENANCE COSTS

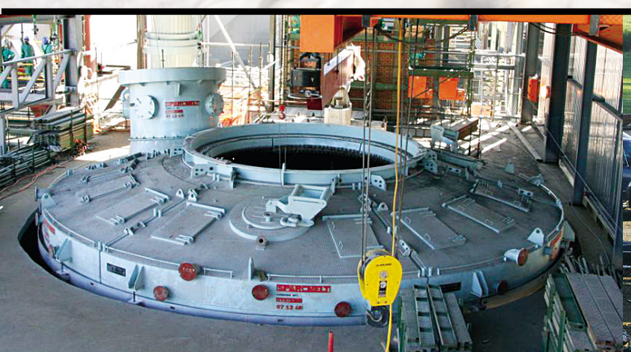
Adding, removing or moving burner openings, alloy holes, fume holes, etc. is relatively easy and does not require equipment replacement.

Spray-Cooled™ equipment has a very long life and is repairable – eliminating the need to continually buy replacement panels and equipment.

Spray-Cooled™ equipment is covered by multiple patents that optimize cooling efficiency and long life.

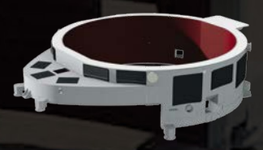
YOUR BEST OPTION FOR KEEPING FURNACES SAFELY COOLED

SCAN TO LEARN MORE ABOUT SYSTEMS SPRAY-COOLED™



Spray-Cooled™ furnace roofs exhibit excellent slag retention improving heat retention and efficiency of the furnace; this permits the furnace to perform at peak efficiency for longer periods. There is less than a 1% energy increase compared to refractory roofs. The Spray-Cooled™ sidewalls increase furnace volume by eliminating conventional internal tubular panels.

Perfected in the harshest steelmaking environments, the benefits and adaptability of Systems Spray-Cooled™ Equipment has been proven in melt shops, BOF shops and smelting operations around the world. Roofs, sidewalls, elbows, ducts, hoods, drop-out chambers and ladle furnace roofs are just the beginning.



The one-piece construction eliminates individual panel joints reducing flame leakage and air infiltration and exfiltration, which also keeps the outer surface cooler.

"We will be changing some roofs that will be in excess of 10,000 heats and not a lot of maintenance on the Spray-Cooled™ equipment.

I had twenty three years experience at my old shop before I even dealt with Spray-Cooled™. I started my career in '96 with Spray-Cooled™ and I won't ever go back to tubular equipment."

STAN SMITH
MELTSHOP MAINTENANCE MANAGER

Cam-lock "quick disconnects" allow for rapid removal, inspection and reinstallation of individual spray bars.

Quick weld repairs from the cold side lowers maintenance costs and reduces downtime.

COMPARE THE DIFFERENCE

PRESSURIZED TUBULAR COOLING:
A two square inch hole in a tubular panel results in over 16,000 gallons (60.000 liters appx.) of water spilled into the furnace in one hour, equal to a typical backyard swimming pool!

SPRAY COOLED:
The same two square inch hole in our hot face results in less than five gallons (20 liters appx.) of water spilled into the furnace in the same one hour!

STAYING COOL
IN A HOT BUSINESS

Serving the global metals and minerals industries, Systems' patented Spray-Cooled™ Technology provides a safer, greener alternative to conventional pressurized water-cooled, exotic alloy, and refractory equipment for extreme heat load applications.

Using non-pressurized, non-evaporative water-cooling, Systems Spray-Cooled™ offers a complete line of electric arc furnace (EAF), ladle metallurgical furnace (LMF), basic oxygen furnace (BOF), submerged arc furnace, post combustion, and dust evacuation system components.

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SPRAY-COOLED

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