G-M Enterprises

Four-Directional Gas Flow

Quantum Quench™ four-directional gas flow without internal moving parts is a breakthrough in controlled and uniform cooling while controlling distortion. Generally, gas flow direction affects how heat is extracted from the part:

- A part exposed to top-to-bottom cooling gas flow will have a cooler top surface
- A part exposed to bottom-to-top cooling gas flow will have a cooler bottom surface
- A side-cooled part will be cooler on the gas admission side

www.gmenterprises.com

Ipsen

The Power of PdMetrics®

With the ability to minimize unplanned downtime, reduce costs and place your team’s attention where it’s most important, the PdMetrics® software platform for predictive maintenance helps you save valuable resources in terms of time, energy and focus. As a result, you can focus on other critical aspects of your business and drive success.

www.IpsenUSA.com/PdMetrics

Lindberg/MPH

The Lindberg/MPH rod overbend electric box furnace provides flexible, efficient performance in a variety of heat-treating applications. The fast heating rate, heavy load capability and reliable operation help you achieve fast turnaround and high productivity. The rod overbend box furnace utilizes energy-efficient components, is simple to operate and is available in a wide range of sizes. Common applications range up to 2000°F (1850°F with fan) with endothermic, exothermic, dissociated ammonia or nitrogen atmospheres.

www.lindbergmph.com

Otto Junker

Energy efficiency and excellent process reliability are key characteristics of Otto Junker’s heat-treatment line for wheels. In this line – which features a solution annealing furnace, a quench and an artificial aging furnace – hot flue gas generated in the solution annealing process is injected into the artificial aging furnace for energy-saving purposes. For situations where this heat input is insufficient, process reliability is guaranteed by a so-called booster providing backup heating capacity. The wheels pass through the furnace on a walking-beam conveyor, which offers significant advantages over traditional conveyor concepts. It eliminates the need for product carriers and thus saves the energy needed to heat them up. The walking-beam concept is also capable of handling different wheel sizes while providing highly accurate positioning without relative movements. The equipment is low maintenance, user-friendly and offers high availability.

www.otto-junker.com

Praxair

OPTIFIRE™ burners may improve overall reheat furnace performance while lowering NOx emissions with oxy-fuel