



# WE ARE LIME INJECTION SYSTEM

**INTECO**  
**PTI** process  
technology  
international



# ABOUT INTECO PTI



## WHO WE ARE...

As a member of the INTECO Group since 2013, we contribute 30 years of expertise to an international successful group with a leadership in metallurgical process technology and equipment for melting, refining, casting, remelting and atomization for high performance steels, superalloys and titanium. Our dedicated team of qualified engineers, metallurgists and technical support staff with subsidiaries in Europe and Shanghai ensure global customer satisfaction.

## WHAT WE DO...

Our core competencies within the group lie in high-tech applications, particularly chemical energy systems for electric arc furnaces, including oxy-fuel burners, material injection systems as well as control and automation systems, pre-heating and drying combustion systems to enhance efficiency, productivity and safety. We offer full-service combustion and injection solutions, including design, engineering, manufacturing, testing, commissioning, training and process optimization.

## WHAT WE AIM FOR...

Always eager to further develop our products and serve you – our valued customer – with the best equipment possible, we conduct research and submit patents for our innovative and tailor-made solutions.

# HOW TO CONTROL MATERIAL INJECTION AT ITS BEST

## Process optimization

INTECO PTI's lime injection system is designed to balance lime distribution while minimizing lime consumption. By injecting lime directly to the molten bath, the lime dissolves into the slag almost instantly. As a result, the removal of phosphorus occurs earlier in the process. The lime injection system saves you money by reducing lime usage, reducing the amount of housekeeping required in the meltshop, and reducing the amount of lime lost to the baghouse as KO61 hazardous waste.

## Single or dual injection points

Each lime vessel injects material into a single point on the EAF. Most processes need two injection vessels – one vessel for high calcium lime and one vessel for dolo lime. Each vessel has the capabilities to have dual outlets if needed.

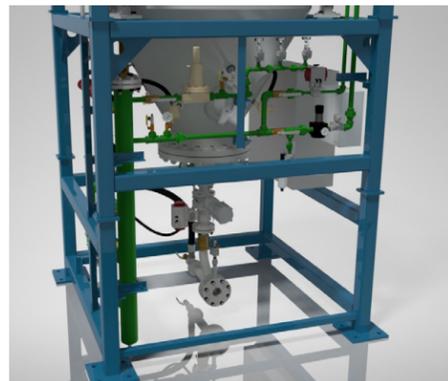
## Automated maintenance

The lime injection system is self diagnostic. Features within the vessel help minimize lime plugging and ensure an even and consistent lime flow. Robust and built with quality components, INTECO PTI's lime injection system will make your lime injection process virtually maintenance free.

## Automation

INTECO PTI's lime injection system is PLC controlled. To fit your needs, the PLC may be mounted directly on the vessel structure or located remotely. INTECO PTI can customize its vessel automation systems to integrate with your current systems to reduce redundant operator displays.

Transport pipe	Max flow
3" pipe	800lb/min
DN 80 pipe	362kg/min



## Injection system upgrades

INTECO PTI has made a lot of upgrades to our injection technologies over the years. If you have an older system that is in need of upgrading, we can easily refurbish it with our newest technology package to make it in line with our current equipment in the steel industry.

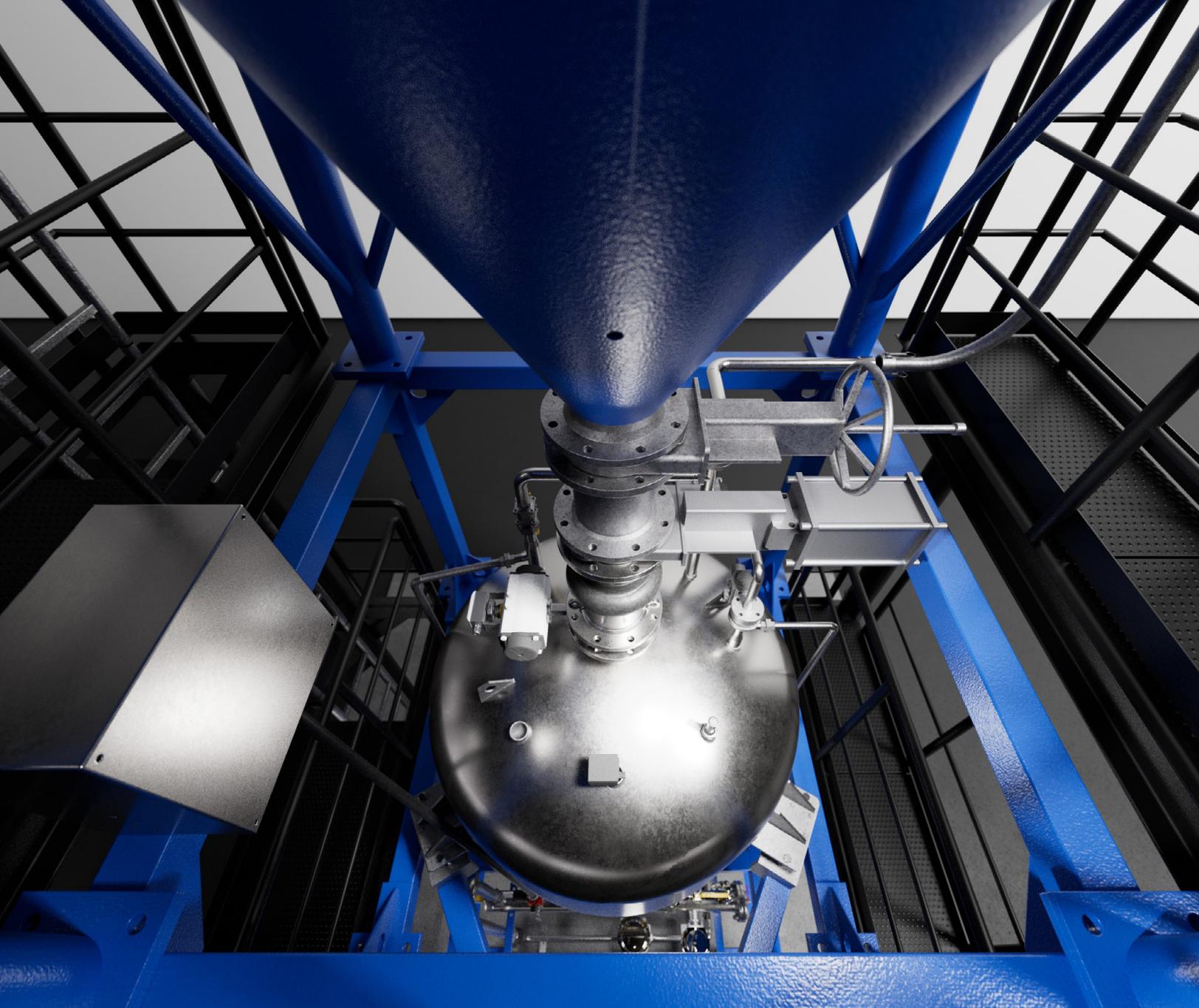
## Closed loop flow control

The lime flow rate is regulated by closed loop control of the vessel pressure and transport air flow. Lime flow is not interrupted by the opening and closing of the cycling lime feed valve. With virtually no moving parts during the injection process, your lime injection system will last longer and require less maintenance. Less lime usage, reduced maintenance and a cleaner shop make the INTECO PTI lime injection system a "no brainer" for your melt shop!

## Our Technology – Your Advantage

- › Environmentally clean
- › Reduces lime consumption
- › Reduces housekeeping problems
- › Reduces lime lost to baghouse as KO61 hazardous waste
- › Integrates with existing operation systems
- › Injects up to 100% of EAF lime needs
- › Designed to inject through INTECO PTI's JetBOx™
- › Anti-plugging technology delivers continuous lime





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