



WASTE HEAT RECOVERY

This innovative system captures and utilizes waste heat generated in the fume exhaust process, converting it into a valuable energy resource.

Crafted with SARRALLE's signature precision and engineering expertise, this solution not only enhances environmental sustainability by reducing waste but also contributes to increased energy efficiency in industrial operations.

Immerse yourself in a cutting-edge solution that aligns with SARRALLE's commitment to advancing both environmental stewardship and operational efficiency.



DRYERS & PREHEATERS



SARRALLE has undertaken a transformative initiative involving the conversion of Ladle and Tundish dryers and preheaters, transitioning from conventional NG/air combustion to a more advanced H₂/O₂ system. At the heart of this technological evolution is the patented Sarralle GN/H₂/O₂ burner, boasting a versatile power range spanning from 0.15 MW to 5 MW.

Through oxy-combustion, this innovative approach achieves up to 50% fuel consumption savings (using hydrogen or natural gas) compared to traditional air combustion. Operating at temperatures up to 1250°C enhances efficiency and results in a substantial decrease in NO_x emissions, approaching near-zero levels, aligning with environmental sustainability goals.

WATER TREATMENT PLANTS

We specialize in optimizing water-based industrial processes, including heating, cooling, processing, cleaning, and rinsing of untreated water. Our methods vary based on specific material contact requirements, utilizing non-contact water techniques in applications like the Meltshop and direct-contact water processes in scenarios like Continuous Casting.

Our expertise extends to purifying industrial wastewater, ensuring compliance with regional standards. We provide customized water treatment plants for diverse industrial contexts, incorporating innovative systems like GEM (Gas Energy Mixing) and Flotation. Strategic partnerships with industry leaders like CLEAN WATER TECHNOLOGY and ZEWAOTECH further strengthen our position in sustainable water treatment solutions.

