FIVES PROVIDES INNOVATIVE AND HIGH TECHNOLOGY SOLUTIONS ALL OVER THE WORLD IN ORDER TO MEET CUSTOMERS' REQUIREMENTS IN TERMS OF PERFORMANCE, ENVIRONMENT AND SAFETY.







Green Anode Plant - Sohar Aluminium (Oman)



HARBOUR

Liquid Pitch Marine Terminal:

- Pitch fume treatment with Lineos

CARBON

Green Anode Plant:

- Dry material preparation with Rhodax[®]
- Anode Paste preparation with IMC[®], Intensive Mixing Cascade
- Anode forming with Xelios
- Pitch Fume Treatment with Eolios, combining a dry-scrubber with a RTO system
- Anode Cooling Tunnel
- Carbon Butts recycling with two crushing stages

Anode handling and storage

Anode Baking Furnace:

- Firing and Control System
- ECL Furnace Tending Assembly to handle the anodes and the firing ramps during the baking process
- Fume Treatment Center to treat fumes generated by the anodes baking

Anode Rodding Shop:

- Separation, sorting and recycling of anode butt materials
- New anode assembly

Bath Processing and Recycling Unit

Gas Treatment Center:

- Alumina storage silos, alumina metering and transport system
- Innovative Dry Scrubbing Solution for modern smelters, Ozeos
- Sea water scrubbers for the desulphurization of gases
- Reduction of emissions during pot maintenance with Yprios

ECL Pot Tending Machine

ECL Potroom cranes:

- Transfer system for crane transport
- Cathode transfer crane
- Tapping crane

Pot equipment:

- Anode beam raising frame
- ECL Crust breaking & feeding device
- ECL Anode stem connection device
- ECL Sealing jaws
- ECL Anode jacking system

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PRIMARY ALUMINIUM PRODUCTION PROCESS

PROCESS

FIVES WITHIN THE ALUMINIUM PRODUCTION PROCESS

