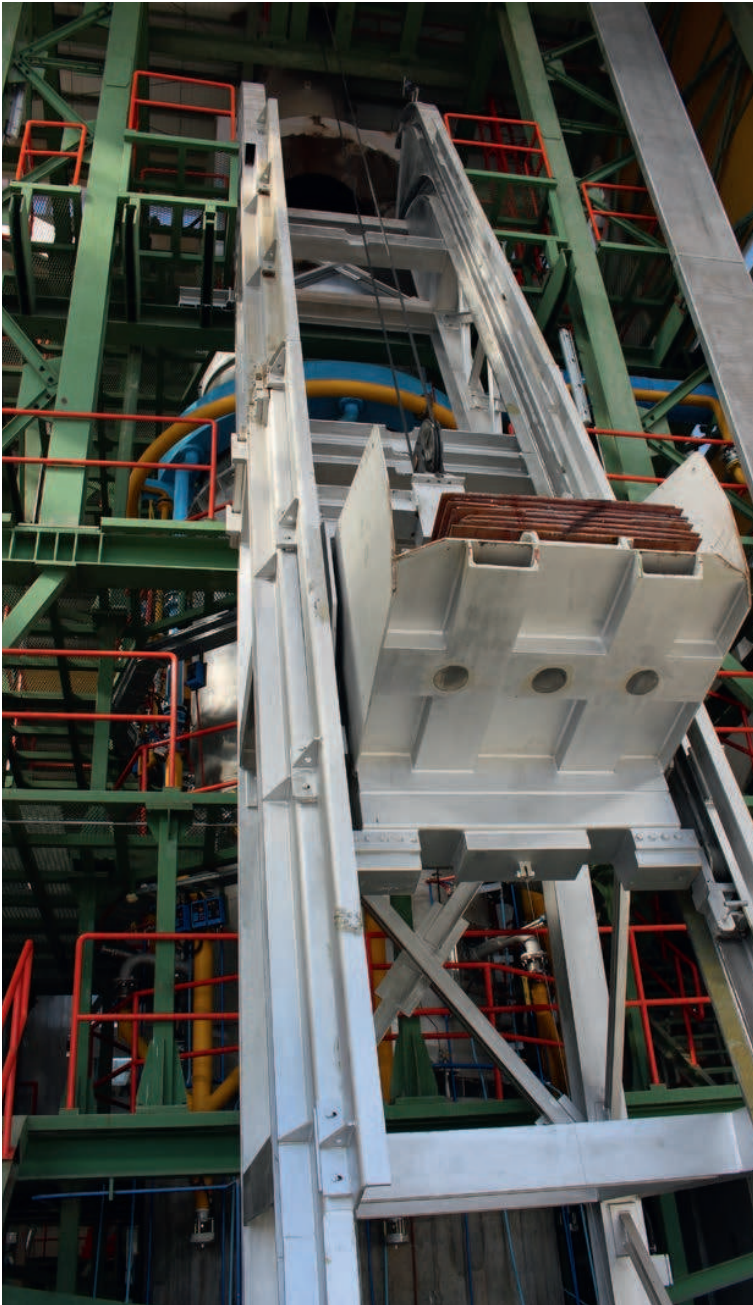


A large family from 6 tph up to 38 tph

ETP Copper Rod Plants



Cathodes during charging phase.

Properzi has worked very hard during the last 50 plus years to be able to supply ETP copper rod plants that match the best combination of OEE, CapEx and OpEx. In fact, whatever the size of the plant, from medium to extra-large, the Properzi Engineering Team has dedicated extraordinary attention to the major details listed below:

- The cathodes charging machine is designed to facilitate uniform scattering of cathodes so as to enhance the thermal efficiency of the vertical melting furnace.
- The use of big-block refractories in the melting furnace reduces the refractory installation time and increases the thermal efficiency of the vertical melting furnace; the lower the gas consumption, the better the OpEx.
- The burners of the vertical melting furnace use nozzle mix burners thus enhancing both thermal efficiency and safety of the furnace; in large and extra-large plants the third row of burners are tangential burners.
- Each burner in the vertical melting furnace is controlled by a CO analyzer; additional CO analyzers control the burners of the holding furnace and launders. This allows rapid analysis and prompt feedback.
- Continuous detection of the temperature of copper mould, steel belt and cast bar through dedicated pyrometers allows immediate indication of their correct working conditions.
- The OXI-acetylene Sooting System provides precise and repeatable soot application.
- Properzi's unique combination of a roughing mill with 2-roll rolling stands that provide the necessary high reduction rate and a finishing monobloc mill with the legendary 3-roll rolling stands, driven by only one motor, ensures rod diameter tolerance which surpasses the ASTM B49 specs.