عنوان مقاله:

The Latest Progress of NEUI’s High Amperage Aluminum Reduction Technology

محل انتشار:

سومین کنفرانس بین‌المللی آلومینیوم ایران IIAC2014 (سال: 1393)

تعداد صفحات اصل مقاله: 6

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خلاصه مقاله:

As the high amperage aluminum reduction technology is developed in a complicated system, designers should draw special attention to structural optimization, environmental protection and energy saving while overcoming multiple core technical difficulties. Through its own development and joint efforts, NEUI, a professional engineering and research institute in light metals metallurgical industry, has successfully eliminated a great many technical bottlenecks hindering the development of high amperage aluminum reduction technologies, such as high amperage pot MHD stability technology, 3D thermal-electric field simulation technology, dynamics simulation technology of pot gas flow, etc., and has also developed the world’s first 400kA aluminum reduction potline technology package, which has already been put into extensive use. On that basis, with the same development method and technical standards, NEUI constantly takes the advantage of the latest development breakthroughs and developed NEUI500, NEUI600 and some other potline technologies. At present, NEUI's 600 technologies have been adopted in two potlines in China, which are expected to deliver encouraging outcomes

کلمات کلیدی:

NEUI600, Continuous Improvement, Latest Progress, Application Effect