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Reduction of emissions at casters cooling chamber.

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The steel industry has been undergoing significant transformations over the years, particularly with regards to environmental regulations. Environmental authorities have continuously raised emission limits for the entire sector. This is putting a focus on previously overlooked emission points, such as the caster cooling chamber. Lechler, a renowned nozzle and demister company, is developing innovative solutions to reduce dust emissions.

Lechler has been designing and successfully implementing state-of-the-art, simple but effective systems to reduce dust emissions for many years. A prime example of these efforts are the systems implemented after the cooling chambers at casters. By introducing customized dust reduction systems, Lechler achieved a remarkable improvement in emissions. Solid Emission levels fell from around approx. 20 mg/Nm³ to 0,82 mg/Nm³ and overall, from approx. 80 mg/Nm³ to 5 mg/Nm³ at the steam stacks, underlining the effectiveness of the measures.
According to the **actual BREF**, the emissions are set to **a maximum of 5 mg/Nm³ at EAF**, almost all existing plants have far too high emissions levels.

Recognizing the complexity of the issue, Lechler's solution can be integrated seamless into existing operations, offering a practical solution reducing dust emissions from cutting machines. By applying their expertise in nozzle technology and demister solutions, Lechler has paved the way for sustainable practices in the steel industry.

Moving forward, it will be essential for stakeholders within the steel industry to embrace innovative solutions. By prioritizing environmental sustainability, companies can not only comply with legal standards but also promote a culture of responsible manufacturing for future generations.

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