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## Revolutionizing Blast Furnace Stockhouses: Reducing Degradation and Enhancing Performance

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This paper presents a novel material handling scheme within a blast furnace stockhouse aimed at minimizing material degradation due to impact and friction in storage silos and weigh-hoppers. By reversing the conventional process—screening materials before storage rather than after—significant savings in equipment, layout footprint, maintenance, and dust collection capacity are achieved. Pilot plant tests support DEM calculations, demonstrating the feasibility of implementing concepts of this revolutionary solution in existing plants. Caring for the material during its journey toward the blast furnace allows for an overall reduction in consumption. Charging material with lower fine content improves blast furnace performance.

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