

SERRA SUL IRON ORE MINE, PARÁ, BRAZIL

CASE STUDY

8 Alimak elevators integral to Serra Sul iron ore mine expansion

The Serra Sul Iron complex is located in the municipality of Canaã dos Carajás, in southeast Pará in Brazil and has received an investment of 6.4 billion dollars towards an expansion, which includes opening up new mining areas and duplicating the long-distance belt conveyor.

The board of the Serra Sul 120 project has approved the expansion with a goal to increase the capacity of the mine's iron ore operations from by 20Mt to a total 120Mtpy at the site, lifting the Northern System's capacity to 260Mtpy.

Eight (8) Alimak SC 45 industrial elevators were installed at the iron ore site as part of an expansion to increase the capacity of the mine's iron ore operations. The installation of Alimak elevators includes three at the ore screening, one at the silo and four elevators at the crusher.

The elevators are used daily to provide safe and efficient transport for material, tools and personnel for gridding and crusher applications. The expansion brings modern and sustainable solutions and assists the Brazilian iron ore in remaining competitive in the global market. An important feature is the reduced consumption of diesel and natural moisture processing without tailings dams.

The Alimak SC range of elevators is adaptable to various applications, providing a flexible option to increase productivity on site.



Serra Sul iron ore mine, Canaã dos Carajás, Pará, Brazil

ELEVATOR DETAILS

Location:	Serra Sul iron ore mine, Canaã dos Carajás, Pará, Brazil
Application:	Gridding and crusher
Industry:	Mining
Elevator model:	Alimak SC 45
No. of elevator cars:	8
Capacity:	2,000 kg
Elevator car size:	1.5 m x 3.0 m
Speed:	0.9 m/s
Lifting height:	Varies between 25 m to 39 m
No. of landings:	8 stops, 180° access

Based on tried and tested rack and pinion technology, the robust design of the Alimak SC range features durable materials that offer low energy consumption.

Alimak's industrial elevators are preferred in the mining industry as they provide the ideal vertical access solution with supreme performance in aboveground and underground applications.

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