



LOGGI: LOGISTICS AGILITY POWERED BY PIONEERING AUTOMATION

Loggi is a Brazilian logistics start-up founded in 2013 and based in São Paulo. Today Loggi has eight cross docking facilities across the country and it aims to grow the business and connect the Brazilian people by use of its “logistics-as-a-service” platform. This app puts individual delivery jobs out to tender to nearby couriers. The result is an agile company that constantly tries to find better delivery routes, better services and ultimately the best last mile delivery.

MOTIVATION FOR AUTOMATION

Due to business growth, Loggi needed to expand its capacity but with minimal cost. Versatility was a priority. Everything would have to go across the sorter in the same process without pre-sortation. Loggi quickly came to the conclusion that the

cross-belt technology would be the best solution to deal with it all.

In the search for the ideal cross-belt solution, Loggi and BEUMER Group entered a dialogue which quickly led to the next important point. Fast installation was required to cater for Loggi’s ever shifting environment. The answer was the BG Line Sorter, which became the first high speed automation solution employed by Loggi.

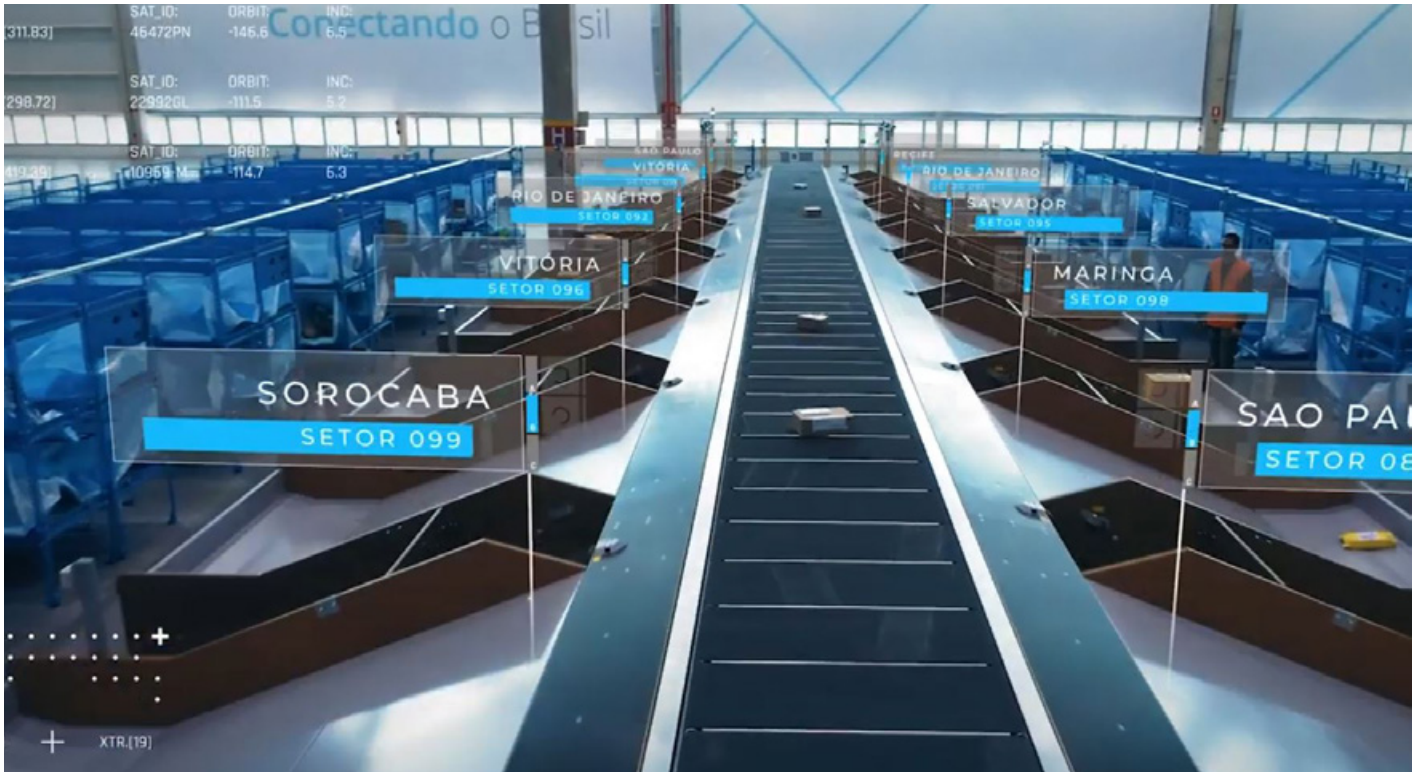
Renzo Frozoni, Director of Operations at Loggi was in charge of the automation project. He says, “We bought this machine because it let us keep our internal flexibility – if we want to change a process around it, we can do it.” He explains that the way the BG Line Sorter works compliments the agility at the

heart of Loggi’s business - “we are not forced into rigid processes that takes away the flexibility of our company.”

HIGHLIGHTS

- › Due to business growth, Loggi needed to expand its capacity but with minimal cost. Versatility was a priority.
- › Loggi can build and reconfigure its system as business grows.
- › Loggi’s experience with the BG Line Sorter has been the inspiration to invest in another cross-belt solution – a loop sortation system.

E-COMMERCE LOGISTICS



EXPERIENCE

Multiple designs were explored to arrive at the most efficient sorter integration. The BG Line Sorter has been situated in the center of Loggi's facility to enable work on both sides. Loggi can build and reconfigure its system as business grows, which makes it a particularly appropriate solution for the dynamic Brazilian start-up.

Renzo Frozoni reflects that as well as speed and flexibility, automation has provided greater control. "Our processes are not only in the mind of our staff, but rather built around the sortation solutions and it helps to leverage the business. Also, a simple but very important aspect is that we no longer risk losing knowledge if people leave the company. Automation has given us a higher sense of control of the process."

Loggi's automation installation proved invaluable when demand rocketed due to the Covid-19 pandemic. The rise of e-commerce had already created a huge demand for connecting people across the great distances of Brazil, but then the pandemic doubled Loggi's throughput in a very short time. Luckily, the automation was already in place.

"This was not something we just did overnight," Frozoni recalls, "but having the automated backbone in place did help us scale up at a rather fast pace. It is the culture of our business to embrace a challenge, and although it was hard, the flexibility we have around our line sorter solution helped make it possible."

A HIGHER SENSE OF CONTROL



RENZO FROZONI, DIRECTOR OF OPERATIONS AT LOGGI, ON THE CHOICE OF THE LINE SORTER TECHNOLOGY:

“I would recommend looking into the possibilities of the BG Line Sorter because of the predominant flexibility that comes with the cross-belt technology and the possibility to easily synchronise it with the processes and organisational setup.”

OUTLOOK

Loggi's experience with The BG Line Sorter has inspired it to invest in another cross-belt solution – this time a loop sortation system from BEUMER Group to be installed at a new hub serving as an expansion to the Loggi network.

“If I met an industry peer looking in automating the business, I would recommend looking into the possibilities of the BG Line Sorter because of the predominant flexibility that comes with the cross-belt technology and the possibility to easily synchronise it with the processes and organisational setup,” says Frozoni. And he concludes, “Automation is not a cheap investment, but it helps gain scale without adding too much cost per item”.



For Loggi, automation offers continued support for business growth. As well as current efficiency gains, the BG Line Sorter will enable Loggi's future plans to link its current systems with robotics, AI and data analytics technologies to optimise timing and delivery.



THE SYSTEM COMPRISES:

- › 4 BG Line Sorters, 50.5 m each.
- › Capacity: 7.200 parcels/hour per sorter.
- › Maximum parcel size: 800 mm (32") x 1500 mm (59").
- › Maximum item weight: 25 kilos (55 lbs) single belt, 50 kilos (110 lbs) using multiple belts.
- › Each BG Line Sorter has 32 parcel chutes for reloading.
- › 12 m of BEUMER Group conveyor per sorter.
- › Camera station for 1-sided reading.
- › Volume measurement station.
- › PLC control based on Siemens PLC and HLC system with interface to Loggi's own route planning system.

