

Savoie "Plug & play" electrical roller conveyors

The new entirely modular Intelis range of conveyors eco-designed by Savoie is comprised of standard, fully independent elements, highly energy-efficient and directly connectable on site in "plug & play" mode.



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OUR CLIENT

Corporate name

Savoie

Sales turnover

€ 89 million

Workforce

580

Activity

Integration of automated logistics solutions

Two major requirements for managers of warehouses or distribution centres are the quickness of configuration for conveyor systems and the reduction of the energy bill. To address these two issues, Savoie has fully redesigned its conveyor range for light-weight items (c.a. 30 kg), through an eco-design approach implemented with Cetim's assistance and financial support from Ademe, the French agency for environment and energy control ("Agence de l'environnement et de la maîtrise de l'énergie").

40% reduction in assembly time

Says Nicolas Guillot, product

manager at Savoie: "... we endeavoured to standardise and simplify our conveyors".

No more mechanical structures to be assembled, wired then motorised: now is the time for a conveyor system comprised of self-contained modules of different shapes. The conveyor is tested at the plant to simplify its assembly at the customer's premises. Each device is equipped with its own motor, wiring and control system (a PCB).

The whole system is assembled in "plug & play" mode as easily as electrical model train rail tracks... The result is a 40% reduction in assembly time on site, compared with conventional solutions.

The electric motor drive simplifies the transfers and braking phases while significantly reducing energy consumption: each module possesses its own motor which only operates as required. Besides, Cetim has designed a specific mathematical model to compute the facility's consumption according to the number of modules, the quantity and the weight of the boxes to be conveyed. This model ensures better dimensioning of the conveyor and provides accurate indications to the user.

Finally, the eco-design approach allowed a very significant simplification: the number of components was reduced by two thirds, the number of part numbers was cut by 70% and the weight by 12%, which facilitates handling and enables Savoie to reduce its carbon footprint by 32%.

Cetim's asset

Mechanics, electronics,



energy efficiency...
Cetim regroups complementary competences around the

same subject. Therefore, its technical choices are justified according to a full-featured vision of the product.