



GSE

A global player in
Corporate real-estate

PRESS RELEASE

14 March 2018

GSE BUILDS AN INSECT-BREEDING FACTORY



In Dole, near Dijon, GSE built the 3,400 m² (36,600 sq. foot) Ÿnside, the first large “farm-hill” where innovator Ÿnsect breeds insects.

Accepting that one of the challenges of the 21st century will be to feed the nine billion people who will populate the planet by 2050, start-up Ÿnsect predicts that insect breeding will rapidly revolutionise food production – and become self-evident.

Livestock animals consume 20% of the world's protein. By breeding insects to produce premium, natural and high-quality ingredients for aquaculture and pet nutrition, Ÿnsect wants to

help meet this challenge by reducing the pressure on protein consumption.

Inaugurated in early 2017, this “vertical insect farm” intended for breeding protein-rich larvae produces about one tonne of insect meal per day. These protein flours and oils made from insects are intended for animal nutrition.

An industrial process to manufacture insect-based foodstuffs

Ÿnsect's feat is to have succeeded in industrialising the production of feed from insects. Indeed, the challenge was to move from a manual insect breeding and processing system to a large-scale, robotic industrial system.

The Dole plant is a pilot site, with research & development taking place at the Évry Genopole, near Paris.

For this building, GSE created, in collaboration with architecture studio APSIDE, a specific design to meet the needs of this innovative and unusual activity. “To cope with the odours and heat produced by the insects, especially beetles, it was necessary to install an efficient and ingenious ventilation system. The building had to be designed in such a way that the production area could be scaled up as demand grows,” explained Roland Paul, CEO of GSE.

The high-bay building reaches 15 metres (50 feet), which was authorised by the local zoning plan and which will optimise storage through a system of retrieval cranes, and a 13-metre-high (43-foot) storage farm which had to be adapted to accommodate a storage & retrieval crane (an automated or non-automated system that stores pallets or parcels in a warehouse, often at great heights).

ABOUT GSE

GSE is a major player in commercial property and the leader in the "turnkey" market. GSE oversees all design, construction and/or renovation work with a promise on price, deadlines and quality.

The company is managed by CEO Roland Paul. It employs 367 people and generated revenues of €429 million in 2017, carrying out a total of 70 projects.

A division dedicated to agribusiness accompanies the industrial companies on their management of flows, logistics, storage, process and cold equipment. GSE has a very high expertise / know how of high-bay storage with the implementation of automated stacker cranes.

GSE RÉGIONS, a member of the GSE group (formerly CCR), is the leading French national network of design & build turnkey contractor. Its 12 branches located throughout France build real estate projects for industrial, tertiary, logistics and commercial SMEs.

GSE is established in Europe and China.

ABOUT YNSECT

Since its creation in 2011, Ynsect has been breeding insects and processing them into premium ingredients for animal nutrition. The company is developing innovations to breed insects on a large scale with automated processes to transform insects into the highest-quality raw materials for animal nutrition. Its know-how is unique in the world and makes Ynsect a partner of choice for food industry players, research labs, investors and public authorities.

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