

Your vision

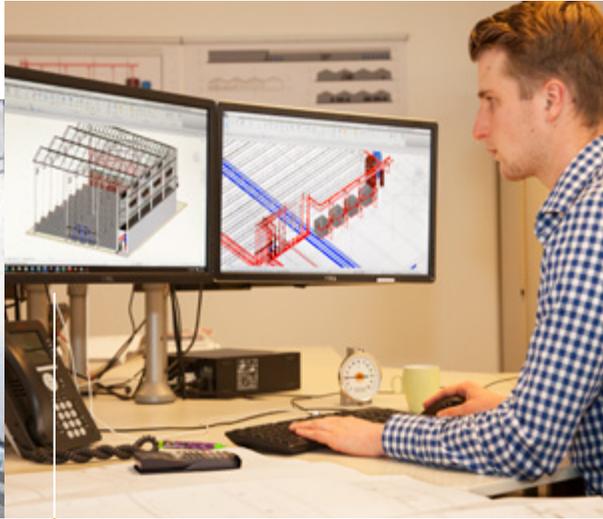
The world increasingly demands **smart and sustainable solutions** for plant production systems. Bosman Van Zaal has the knowledge and experience to continuously anticipate this, with progressive entrepreneurs, pharmacists, governments and universities.

Bosman Van Zaal specialises in the **development, production and installation** of well thought-out horticultural projects. The family business has an extensive team of engineers and horticultural experts. The enormous technical diversity forms the basis for the high-quality technology used in the development of laboratories or test greenhouses for the food and pharmaceutical industries.



 **Cultivation
Systems**

 **Heating &
Cooling Systems**



We have elevated the development of cultivation systems into a form of art. From manually mechanised systems to fully automated robotic solutions.

We implement the perfect mix of heating, cooling, CO₂ and humidity control to ensure the ideal climate. We install energy efficient techniques such as solar and geothermal.



**Water
Systems**



**Electrical
Systems**



We are specialised in dealing with water for covered crops, including hydroponics, water storage, fertilisation, disinfection & recirculation, and ebb & flow systems.

We install the most effective electrical systems to allow all the processes of your business to work. These include growing light installations, infrastructure, and panels.



**Greenhouses &
Constructions**



**Control Systems
& Software**



We design and build Venlo, wide span and film covered greenhouses as well as other constructions. We engineer with care and detail and according to the latest standards.

We are an officially recognised installer of the most used irrigation systems and climate computers. Our cultivation systems are controlled by our in-house developed software.

1

Definition

Connect

We actively seek and visit innovative customers through our international network. By participating at international trade fairs and via social media networks, we are easily accessible, physically and digitally.

Define

We visit the project location, and we share our ideas and deliberate with you, as our customer, about your vision, mission and needs.



2

Engineering

Create

We translate your vision into an inventive and smart design. This is our key competence and a team effort in which you, our customer, will be closely involved.

Construct

We visualise, test and improve the design in a 3D environment to ensure that all installations are perfectly attuned to each other.



3

Realisation

Produce

We transform the design into reality with our in-house production and our state-of-the-art automated machinery that is fully integrated with our 3D digitalised design and engineering environment.

Build

We build the facilities and solutions quickly and professionally virtually anywhere. From building greenhouse facilities in Poland or Rwanda to installing automated cultivation systems in America.



4

Service

Operate

We will install and test the installation before we deliver the project. We feel responsible for a proper operation and offer on-site practical training and instruction. Upon request we can recruit an operational production manager.

Maintain and improve

We offer you 24/7 support to make sure continuity is guaranteed. We monitor our installations remotely to identify and remedy the cause of defects. When we can not intervene remotely, we will repair on-site.



Our solution

As a committed partner, **we help the innovators innovate.** We create the solutions and systems needed to make our partners successful. We bring to every project an inventive mindset backed by the industry's widest range of in-house production and engineering disciplines.

As the need for agricultural and horticultural products continues to grow, so will the need for innovation. Together with pioneering entrepreneurs from the horticultural sector, the pharmaceutical industry and science, **we are building the future of crop production.** Your vision, our solution. Anywhere in the world.



Our operating areas



Food

Large-scale production and vertical farm facilities for entrepreneurs in the fruit, vegetable and herb sector.



Horticulture

Turnkey projects based on automated cultivation, for cut flowers, bulbs, pot- and garden plants.



Propagation

Both mid- and high-tech solutions for propagators worldwide, from cutting plants to young trees.



Research

Phenotyping and breeding for vegetables, grains, and seeds, and research facilities for universities.



Pharmaceutical

High-tech facilities for the production of medical cannabis and plant-based vaccines.



Specials

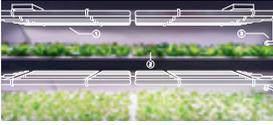
Automated production of insect proteins, industrial bakeries, algae plants, and solar fields.

We have projects
in more than
60 countries



- Our projects
- Headquarters
- Offices
- Representatives

Our specialities



Vertical Farming

A multi-layer system is one of the solutions to the problem of the growing demand for food as it uses less surface area, energy, water, and production is year-round.



Pharmaceutical Growing

For the production of the active ingredients of pharmaceuticals, hygiene and efficiency are central in the design of greenhouses and facilities, automation and tracking & tracing.



Automated Cultivation

An automated production and harvesting process offers a solution to growing flexible, quickly, and precisely. Our combined components can do just that.



F-CLEAN™ Greenhouses

F-CLEAN™ is a covering material with 20+ years lifespan. More advanced properties than glass in light transmission and UV filtering result in higher production and better quality.



Semi-closed Greenhouses

Semi-closed with an efficient, modular climate system that allows growing all year round, regardless of the production location, and meets the growing demand for any possible crop.

History

Our history begins in 1921 with the foundation of Bosman Greenhouse Buildings in Aalsmeer, where robust greenhouse constructions of wood, steel and aluminium are developed. In 1968, in a small barn one town away, Frans van Zaal starts a heating installation company. A strong partnership develops. As a result of our success, we are able to provide a major player in the United States with cultivation systems such as rolling tables. This provides an opening to expand globally.

In 1988, a local water and electrical installation company is acquired and in 2008 and 2014, Crea-Tech and Montera Techniek join the partnership of companies. In 2014, the separate entities Bosman and Van Zaal come together under the name Bosman Van Zaal. And in 2018, the companies move to new headquarters in Aalsmeer. In 2021, CMW Horticulture in England is acquired, and branches in Belgium and Germany are opened. Bosman Van Zaal is still a family company.



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